

NOTICE TO PROCEED

Date:	December 20, 2022
Contractor:	Agave Construction, LLC
Project:	WWTP Improvements & Asset Replacement IFB-5131-22-KH

In accordance with the contract dated <u>December 8, 2022</u> the Contractor is hereby notified that they may begin work on the Project after Christmas, but no later than Monday January 9th.

The date of final completion as determined is April 30, 2023.

CITY OF GRAND JUNCTION, COLORADO

Kassy Hackett, Buyer

Receipt of this Notice to Proceed is hereby acknowledged:

Contractor:	Agave Construction, LLC
By:	DocuSigned by: US face EAE88604575E45A
Print Name:	Leo Pace
Title:	President
Date:	12/29/2022



CITY OF GRAND JUNCTION, COLORADO

CONTRACT

This CONTRACT made and entered into this <u>8th</u> day of <u>December 2022</u> by and between the <u>City of Grand Junction</u>, Colorado, a government entity in the County of Mesa, State of Colorado, hereinafter in the Contract Documents referred to as the "Owner" and <u>Agave</u> <u>Construction, LLC</u> hereinafter in the Contract Documents referred to as the "Contractor."

WITNESSETH:

WHEREAS, the Owner advertised that sealed Bids would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as <u>WWTP Improvements &</u> <u>Asset Replacement IFB-5131-22-KH.</u>

WHEREAS, the Contract has been awarded to the above-named Contractor by the Owner, and said Contractor is now ready, willing and able to perform the Work specified in the Notice of Award, in accordance with the Contract Documents;

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, the mutual covenants hereinafter set forth and subject to the terms hereinafter stated, it is mutually covenanted and agreed as follows:

ARTICLE 1

<u>Contract Documents</u>: It is agreed by the parties hereto that the following list of instruments, drawings, and documents which are attached hereto, bound herewith, or incorporated herein by reference constitute and shall be referred to either as the "Contract Documents" or the "Contract", and all of said instruments, drawings, and documents taken together as a whole constitute the Contract between the parties hereto, and they are fully a part of this agreement as if they were set out verbatim and in full herein:

The order of contract document governance shall be as follows:

- a. The body of this contract agreement
- b. Solicitation Documents for the Project; WWTP Improvements & Asset Replacement IFB-5131-22-KH;
- c. Notice of Award
- d. Contractors Response to the Solicitation
- e. Work Change Requests (directing that changed work be performed);

- f. Field Orders
- g. Change Orders.

ARTICLE 2

<u>Definitions:</u> The clauses provided in the Solicitation apply to the terms used in the Contract and all the Contract Documents.

ARTICLE 3

<u>Contract Work:</u> The Contractor agrees to furnish all labor, tools, supplies, equipment, materials, and all that is necessary and required to complete the tasks associated with the Work described, set forth, shown, and included in the Contract Documents as indicated in the Solicitation Document.

ARTICLE 4

<u>Contract Time and Liquidated Damages:</u> Time is of the essence with respect to this Contract. The Contractor hereby agrees to commence Work under the Contract on or before the date specified in the Solicitation from the Owner, and to achieve Substantial Completion and Final Completion of the Work within the time or times specified in the Solicitation. In the event the Work is not completed in the times set forth and as agreed upon, the Contractor further agrees to pay Liquidated Damages to the Owner as set forth in the Solicitation. The Contractor acknowledges and recognizes the delays, expenses and difficulties involved in proving in a legal proceeding the actual losses suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and the Contractor agree that as Liquidated Damages for delay, but not as a penalty, the Contractor shall pay to the Owner the amounts specified in the Solicitation.

ARTICLE 5

<u>Contract Price and Payment Procedures:</u> The Contractor shall accept as full and complete compensation for the performance and completion of all of the Work specified in the Contract Documents, the sum of **Two Hundred Seventy-Nine Thousand Five Hundred Twenty-Three and 50/100 Dollars (\$279,523.50)**. If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional work to be performed, which work causes the aggregate amount payable under this Contract to exceed the amount appropriated for this Project, unless and until the Owner provides Contractor written assurance that lawful appropriations to cover the costs of the additional work have been made.

Unless otherwise provided in the Solicitation, monthly partial payments shall be made as the Work progresses. Applications for partial and Final Payment shall be prepared by the Contractor and approved by the Owner in accordance with the Solicitation. Upon Final Completion of the Work under the Contract and before the Contractor shall receive final payment, the Owner shall publish at least twice in a newspaper of general circulation published in the County a notice that: 1. the Owner has accepted such Work as completed according to the Contract Documents; 2. the Contractor is entitled to final payment therefore; 3. thirty days after the first publication, specifying the exact date, the Owner shall pay the full balance due under the Contract; and 4. persons having claims for labor, materials, team hire, sustenance, provisions, provender, or other supplies used or consumed by the Contractor or a subcontractor shall file a verified statement of the amount due and unpaid on account of such claim prior to the date specified for such payment. Nothing herein shall be construed as relieving the Contractor and the Sureties on the Contractor's Bonds from any claim or claims for work or labor done or materials or supplies furnished in the execution of the Contract.

ARTICLE 6

<u>Bonds:</u> The Contractor shall furnish currently herewith the Bonds required by the Contract Documents, such Bonds being attached hereto. The Performance Bond shall be in an amount not less than one hundred percent (100%) of the Contract Price set forth in Article 5. The Payment Bond shall be in an amount not less than one hundred (100%) of the Contract Price set forth in Article 5.

ARTICLE 7

<u>Contract Binding</u>: The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Contractor and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Contractor shall not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 8

<u>Severability:</u> If any part, portion or provision of the Contract shall be found or declared null, void or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having the authority thereover, only such part, portion or provision shall be effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, City of Grand Junction, Colorado, has caused this Contract to be subscribed and sealed and attested in its behalf; and the Contractor has signed this Contract the day and the year first mentioned herein.

The Contract is executed in two counterparts.

City of Grand Junction, Colorado

By: Duary Hoff Jr.

Duane Hoff Jr., Contract Administrator

12/13/2022

Date

Agave Construction, LLC

DocuSigned by:

By: Lo face

Leo Pace

President

12/13/2022

Date

DocuSign Envelope ID: D313DE60-8F65-4E0F-8458-F94CEE5BCBD0



NOTICE OF AWARD

Date: December 8, 2022

Company: Agave Construction, LLC

Project: WWTP Improvements & Asset Replacement IFB-5131-22-KH

You have been awarded the City of Grand Junction WWTP Improvements & Asset Replacement IFB-5131-22-KH for a total price of **\$279,523.50**.

Please notify Lisa Froshaug City of Grand Junction Project Engineer 970-244-1592 or <u>lisafr@gjcity.org</u> for project scheduling and return to the City Purchasing Division an acknowledged copy of this Notice of Award, signed Contract, Payment & Performance Bonds, and Insurance Certificate, as per the contract documents.

CITY OF GRAND JUNCTION, COLORADO

Duare Hoff Jr. Duane Hoff Jr. Duane Hoff Jr., Contract Administrator

SUPPLIER ACKNOWLEDGEMENT

Receipt of this Notice to Award is hereby acknowledged:

Company:	Agave Construction, LLC		
By:	DocuSigned by: US Pau Execoconstration	Leo Pace	
Title:	President		
Date:	12/13/2022		



Purchasing Division

Invitation for Bid

IFB-5131-22-KH WWTP Improvements & Asset Replacement

Responses Due: November 14, 2022 prior to 2:00pm

<u>Accepting Electronic Responses Only</u> <u>Responses Only Submitted Through the Rocky Mountain E-Purchasing</u> <u>System (RMEPS)</u>

https://www.rockymountainbidsystem.com/default.asp

(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor <u>MUST</u> contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

NOTE: All City solicitation openings will continue to be held virtually. See Section 1.6 for details.

> Purchasing Representative: Kassy Hackett, Buyer <u>kassyh@gjcity.org</u> 970-244-1546

This document has been developed specifically to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All vendors are required to thoroughly review this solicitation prior to responding. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

Invitation for Bids

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Bid Schedule Form

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1. Instructions to Bidders

NOTE: It is the Contractor's responsibility to read and review all solicitation documentation in its entirety, and to ensure that they have a clear and complete understanding of not only the scope, specifications, project requirements, etc., but also all other requirements, instructions, rules, regulations, laws, conditions, statements, procurement policies, etc. that are associated with the solicitation process and project/services being solicited.

1.1. Purpose: The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required for improvements and asset replacements at the Persigo Wastewater Treatment Plant Orchard Mesa Office (251 27 Road). The work will include removal of existing asphalt, the removal of a Green Ash tree, installation of an 8" concrete parking lot, a chain link fence, a motorized gate, and parking lot striping. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

IFB Questions:

Kassy Hackett, Buyer kassyh@gjcity.org

The City would like to remind all Contractors, Sub-Contractors, Vendors, Suppliers, Manufacturers, Service Providers, etc. that (with the exception of Pre-Bid or Site Visit Meetings) all questions, inquiries, comments, or communication pertaining to any formal solicitation (whether process, specifications, scope, etc.) must be directed (in writing) to the Purchasing Agent assigned to the project or Purchasing Division. Direct communication with the City assigned Project Managers/Engineers is not appropriate for public procurement, and may result in disqualification.

- 1.2. Mandatory Pre-Bid Meeting: Prospective bidders are required to attend a mandatory pre-bid meeting on October 21, 2022 at 9:00am. Meeting location shall be onsite, located at 251 27 RD. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB). NOTE: Bidders that arrive more than 10 minutes late to the meeting shall not be eligible to submit a bid response to this solicitation process for this project.
- 1.3. Prequalification Requirement: Contractors submitting bids over \$500,000 must be pre-qualified in accordance with the City's "Contractors Prequalification Application". All bids received by the specified time will be opened, but the City will reject bids over \$500,000 from contractors who have not been prequalified. Application forms for prequalification are available by clicking the Application Link Call 970-256-4082 for additional information. Due to the time required to process applications, <u>all applications must be submitted no later than the application due date stated in the solicitation document.</u> Contractors may view their approved pre-qualified categories by clicking the <u>Pre-Qualification Link</u>.

- **1.4. The Owner:** The Owner is the City of Grand Junction, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- **1.5. Procurement Process:** Procurement processes shall be governed by the most current version of the City of Grand Junction <u>Purchasing Policy and Procedure Manual</u>.
- 1.6. Submission: Each bid shall be submitted in electronic format only, and only website through the Rockv Mountain E-Purchasing (https://www.rockymountainbidsystem.com/default.asp). This site offers both "free" and "paying" registration options that allow for full access of the Owner's documents and for electronic submission of proposals. (Note: "free" registration may take up to 24 hours to process. Please Plan accordingly.) Please view our "Electronic Vendor Registration Guide" at http://www.gjcity.org/business-and-economic-development/bids/ for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

Solicitation Opening, WWTP Improvements & Asset Replacement IFB-5131-22-KH Nov 14, 2022, 2:00 – 2:30 PM (America/Denver)

Please join my meeting from your computer, tablet or smartphone. <u>https://meet.goto.com/969444045</u>

You can also dial in using your phone. Access Code: 969-444-045 United States: +1 (786) 535-3211 - One-touch: tel:+17865353211,,969444045#

Join from a video-conferencing room or system. Meeting ID: 969-444-045 Dial in or type: 67.217.95.2 or inroomlink.goto.com Or dial directly: 969444045@67.217.95.2 or 67.217.95.2##969444045

Get the app now and be ready when your first meeting starts: https://meet.goto.com/install

- **1.7.** <u>Modification and Withdrawal of Bids Before Opening.</u> Bids may be modified or withdrawn by an appropriate document stating such, duly executed and submitted to the place where Bids are to be submitted at any time prior to Bid Opening.
- **1.8. Printed Form for Price Bid:** All Price Bids must be made upon the Price Bid Schedule attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.

The Offeror shall specify a unit price in figures for each pay item for which a quantity is given and shall provide the products (in numbers) of the respective unit prices and quantities in the Extended Amount column. The total Bid price shall be equal to the sum

of all extended amount prices. When an item in the Price Bid Schedule provides a choice to be made by the Offeror, Offeror's choice shall be indicated in accordance with the specifications for that particular item and thereafter no further choice shall be permitted.

Where the unit of a pay item is lump sum, the lump sum amount shall be shown in the "extended amount" column and included in the summation of the total Bid.

All blank spaces in the Price Bid Schedule must be properly filled out.

Bids by corporations must be executed in the corporate name by the president or vice president or other corporate office accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown below the signature.

Bids by partnerships must be executed in the partnership name and signed by a partner whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Offeror's Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Contractor's Bid Form.

The contact information to which communications regarding the Bid are to be directed must be shown.

- **1.9. Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- **1.10. Contract Documents:** The complete IFB and bidder's response compose the Contract Documents. Copies of bid documents can be obtained from the City Purchasing website, <u>https://co-grandjunction.civicplus.com/501/Purchasing-Bids</u>.
- **1.11.** Additional Documents: The July 2010 edition of the "City Standard Contract Documents for Capital Improvements Construction", Plans, Specifications and other Bid Documents are available for review or download on the Purchasing Bids page at https://co-grandjunction.civicplus.com/501/Purchasing-Bids.
- **1.12. Definitions and Terms:** See Article I, Section 3 of the General Contract Conditions in the *Standard Contract Documents for Capital Improvements Construction*.
- **1.13. Examination of Specifications:** Bidders shall thoroughly examine and be familiar with the project Statement of Work. The failure or omission of any Offeror to receive or examine any form, addendum, or other document shall in no way relieve any Offeror from any obligation with respect to his bid. The submission of a bid shall be taken as evidence of compliance with this section. Prior to submitting a bid, each Offeror shall, at a minimum:
 - a. Examine the *Contract Documents* thoroughly;

- b. Visit the site to familiarize themselves with local conditions that may in any manner affect cost, progress, or performance of the Work;
- c. Become familiar with federal, state, and local laws, ordinances, rules, and regulations that may in any manner affect cost, progress or performance of the Work;
- d. Study and carefully correlate Bidder's observations with the *Contract Documents*, and;
- e. Notify the Purchasing Agent of all conflicts, errors, ambiguities or discrepancies in or among the *Contract Documents* within the designated inquiry period.

On request, the Owner will provide each Offeror access to the site to conduct such investigations and tests as each Bidder deems necessary for submission of a Bid. It shall be the Offeror's responsibility to make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (including without limitation, surface, subsurface and underground utilities) at or contiguous to the site or otherwise which may affect cost, progress or performance of the work and which the Offeror deems necessary to determine its Bid for performing the work in accordance with the time, price and other terms and conditions of the Contract Documents. Location of any excavation or boring made by Offeror shall be subject to prior approval of Owner and applicable agencies. Offeror shall fill all holes, restore all pavements to match the existing structural section and shall clean up and restore the site to its former condition upon completion of such exploration. The Owner reserves the right to require the Offeror to execute an access agreement with the Owner prior to accessing the site.

The lands upon which the Work is to be performed, rights of way, and access thereto, and other lands designated for use by Contractor in performing the Work, are identified on the Drawings.

Information and data reflected in the *Contract Documents* with respect to underground utilities at or contiguous to the site are based upon information and data furnished to the Owner and the Engineer by the owners of such underground utilities or others, and the Owner does not assume responsibility for the accuracy or completeness thereof, unless it is expressly provided otherwise in the *Contract Documents*.

By submission of a Bid, the Offeror shall be conclusively presumed to represent that the Offeror has complied with every requirement of these Instructions to Bidders, that the *Contract Documents* are not ambiguous and are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work.

1.14. Questions Regarding Statement of Work: Any information relative to interpretation of Scope of Work or specifications shall be requested of the Purchasing Representative, in writing, in ample time, prior to the inquiry deadline.

- **1.15.** Addenda & Interpretations: If it becomes necessary to revise any part of this solicitation, a written addendum will be posted electronically on the City's website at http://www.gjcity.org/business-and-economic-development/bids/. The Owner is not bound by any oral representations, clarifications, or changes made in the written specifications by Owner, unless such clarification or change is provided in written addendum form from the City Purchasing Representative.
- **1.16. Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- **1.17. Sales and Use Taxes:** The Contractor and all Subcontractors are required to obtain exemption certificates from the Colorado Department of Revenue for sales and use taxes in accordance with the provisions of the General Contract Conditions. Bids shall reflect this method of accounting for sales and use taxes on materials, fixtures and equipment.
- **1.18. Offers Binding 60 Days:** Unless additional time is required by the Owner, or otherwise specified, all formal offers submitted shall be binding for sixty (60) calendar days following opening date, unless the Bidder, upon request of the Purchasing Representative, agrees to an extension.
- **1.19. Exceptions and Substitutions:** Bidders taking exception to the specifications and/or scope of work shall do so at their own risk. The Owner reserves the right to accept or reject any or all substitutions or alternatives. When offering substitutions and/or alternatives, Bidder must state these exceptions in the section pertaining to that area. Exception/substitution, if accepted, must meet or exceed the stated intent and/or specifications and/or scope of work. The absence of such a list shall indicate that the Bidder has not taken exceptions, and if awarded a contract, shall hold the Bidder responsible to perform in strict accordance with the specifications and/or scope of work contained herein.
- **1.20. Collusion Clause:** Each bidder by submitting a bid certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all bids shall be rejected if there is evidence or reason for believing that collusion exists among bidders. The Owner may, or may not, accept future bids for the same services or commodities from participants in such collusion.
- **1.21. Disqualification of Bidders:** A Bid will not be accepted from, nor shall a Contract be awarded to, any person, firm, or corporation that is in arrears to the Owner, upon debt or contract, or that has defaulted, as surety or otherwise, upon any obligation to the Owner, or that is deemed irresponsible or unreliable.

Bidders may be required to submit satisfactory evidence that they are responsible, have a practical knowledge of the project bid upon and that they have the necessary financial and other resources to complete the proposed Work.

Either of the following reasons, without limitation, shall be considered sufficient to disqualify a Bidder and Bid:

- a. More than one Bid is submitted for the same Work from an individual, firm, or corporation under the same or different name; and
- b. Evidence of collusion among Bidders. Any participant in such collusion shall not receive recognition as a Bidder for any future work of the Owner until such participant has been reinstated as a qualified bidder.
- **1.22. Public Disclosure Record:** If the bidder has knowledge of their employee(s) or subcontractors having an immediate family relationship with a City employee or elected official, the bidder must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the City.

2. General Contract Conditions for Construction Projects

- 2.1. The Contract: This Invitation for Bid, submitted documents, and any negotiations, when properly accepted by the City, shall constitute a contract equally binding between the City and Contractor. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. The contract may be amended or modified with Change Orders, Field Orders, or Addendums.
- **2.2. The Work:** The term Work includes all labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.
- 2.3. Execution, Correlation, Intent, and Interpretations: The Contract Documents shall be signed by the Owner (City) and Contractor. City will provide the contract. By executing the contract, the Contractor represents that he/she has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the City are, and shall remain, City property. They are not to be used on any other project, and with the exception of one contract set for each party to the contract, are to be returned to the owner on request at the completion of the work.
- 2.4. The Owner: The Owner is the City of Grand Junction, Colorado and is referred to throughout the Contract Documents. The term Owner means the Owner or his authorized representative. The Owner shall, at all times, have access to the work wherever it is in preparation and progress. The Contractor shall provide facilities for such access. The Owner will make periodic visits to the site to familiarize himself generally with the progress and quality of work and to determine, in general, if the work is proceeding in accordance with the contract documents. Based on such observations and the Contractor's Application for Payment, the Owner will determine the amounts

owing to the Contractor and will issue Certificates for Payment in such amounts, as provided in the contract. The Owner will have authority to reject work which does not conform to the Contract documents. Whenever, in his reasonable opinion, he considers it necessary or advisable to insure the proper implementation of the intent of the Contract Documents, he will have authority to require the Contractor to stop the work or any portion, or to require special inspection or testing of the work, whether or not such work can be then be fabricated, installed, or completed. The Owner will not be responsible for the acts or omissions of the Contractor, and sub-Contractor, or any of their agents or employees, or any other persons performing any of the work.

- 2.5. Contractor: The Contractor is the person or organization identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Work, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence work without clarifying Drawings, Specifications, or Interpretations.
- **2.6. Sub-Contractors:** A sub-contractor is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.
- 2.7. Award of Sub-Contractors & Other Contracts for Portions of the Work: Contractor shall submit with their bid response to the Owner, in writing for acceptance, a list of the names of the sub-contractors or other persons or organizations proposed for such portions of the work as may be designated in the proposal requirements, or, if none is so designated, the names of the sub-contractors proposed for the principal portions of the work. Prior to the award of the contract, the Owner shall notify the successful Contractor in writing if, after due investigation, has reasonable objection to any person or organization on such list. If, prior to the award of the contract, the Owner has a reasonable and substantial objection to any person or organization on such list, and refuses in writing to accept such person or organization, the successful Contractor may, prior to the award, withdraw their proposal without forfeiture of proposal security. If the successful Contractor submits an acceptable substitute with an increase in the proposed price to cover the difference in cost occasioned by the substitution, the Owner may, at their discretion, accept the increased proposal or may disgualify the Contractor. If, after the award, the Owner refuses to accept any person or organization on such list, the Contractor shall submit an acceptable substitute and the contract sum shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate Change Order shall be issued. However, no increase in the contract sum shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting a name with respect thereto prior to the award.
- **2.8.** Quantities of Work and Unit Price: Materials or quantities stated as unit price items in the Bid are supplied only to give an indication of the general scope of the Work, and are as such, estimates only. The Owner does not expressly or by implication agree that the

actual amount of Work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit item of the Work without a change in the unit price except as set forth in Article VIII, Section 70 of the *General Contract Conditions*. The City also reserves the right to make changes in the Work (including the right to delete any bid item in its entirety or add additional bid items) as set forth in Article VIII, Sections 69 through 71 of the *General Contract Conditions*.

- 2.9. Substitutions: The materials, products and equipment described in the Solicitation Documents shall be regarded as establishing a standard of required performance, function, dimension, appearance, or quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless the Offeror submits a written request for approval to the City Purchasing Division at least ten (10) days prior to the date for receipt of Bids. Such requests for approval shall include the name of the material or equipment for which substitution is sought and a complete description of the proposed substitution including drawings, performance and test data, and other information necessary for evaluation, including samples if requested. The Offeror shall set forth changes in other materials, equipment, or other portions of the Work including changes of the work of other contracts, which incorporation of the proposed substitution would require to be included. The Owner's decision of approval or disapproval of a proposed substitution shall be final. If the Owner approves a proposed substitution before receipt of Bids, such approval will be set forth in an Addendum. Offeors shall not rely upon approvals made in any other manner.
- **2.10.** Supervision and Construction Procedures: The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- 2.11. Warranty: The Contractor warrants to the Owner that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not so conforming to these standards may be considered defective. If required by Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If within ten (10) days after written notice to the Contractor requesting such repairs or replacement, the Contractor should neglect to make or undertake with due diligence to the same, the City may make such repairs or replacements. All indirect and direct costs of such correction or removal or replacement shall be at the Contractor's expense. The Contractor will also bear the expenses of making good all work of others destroyed or damaged by the correction, removal or replacement of his defective work.
- 2.12. Permits, Fees, & Notices: The Contractor shall secure and pay for all permits, governmental fees and licenses necessary for the proper execution and completion of the work. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work. If the Contractor observes that any of the Contract Documents are at variance in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without

such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.

- **2.13. Responsibility for Those Performing the Work:** The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all sub-contractors, their agents and employees, and all other persons performing any of the work under a contract with the Contractor.
- **2.14. Use of the Site:** The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the site with any materials or equipment.
- **2.15. Cleanup:** The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of work he shall remove all his waste materials and rubbish from and about the project, as well as all his tools, construction equipment, machinery and surplus materials.
- **2.16. Insurance:** The Contractor shall secure and maintain such insurance policies as will provide the coverage and contain other provisions specified in the General Contract Conditions, or as modified in the Special Contract Conditions.

The Contractor shall file a copy of the policies or Certificates of Insurance acceptable to the City with the Engineer within ten (10) Calendar Days after issuance of the Notice of Award. These Certificates of Insurance shall contain a provision that coverage afforded under the policies shall not be canceled unless at least thirty (30) Calendar Days prior written notice has been given to the City.

- 2.17. Indemnification: The Contractor shall defend, indemnify and save harmless the Owner, and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Contractor, or of any Contractor's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Contractor shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.
- 2.18. Miscellaneous Conditions: Material Availability: Contractors must accept responsibility for verification of material availability, production schedules, and other pertinent data prior to submission of bid. It is the responsibility of the bidder to notify the Owner immediately if materials specified are discontinued, replaced, or not available for an extended period of time. **OSHA Standards:** All bidders agree and warrant that services performed in response to this invitation shall conform to the standards declared by the US Department of Labor under the Occupational Safety and Health Act of 1970 (OSHA). In the event the services do not conform to OSHA standards, the Owner may require the services to be redone at no additional expense to the Owner.
- **2.19. Time:** Time is of the essence with respect to the time of completion of the Project and any other milestones or deadline which are part of the Contract. It will be necessary for

each Bidder to satisfy the City of its ability to complete the Work within the Contract Time set forth in the Contract Documents. The Contract Time is the period of time allotted in the Contract Documents for completion of the work. The date of commencement of the work is the date established in a Notice to Proceed. If there is no Notice to Proceed, it shall be the date of the Contract or such other date as may be established therein, or as established as entered on the Bid Form. The Date of Final Completion of the work is the date certified by the Owner when all construction, and all other work associated to include, but not be limited to: testing, QA/QC, receipt of required reports and/or forms, grant requirements (if applicable), punch list items, clean-up, receipt of drawings and/or as-builts, etc., is fully complete, and in accordance with the Contract Documents.

- **2.20. Progress & Completion:** The Contractor shall begin work on the date of commencement as defined in the Contract, and shall carry the work forward expeditiously with adequate forces and shall complete it within the contract time.
- 2.21. Payment & Completion: The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the work under the Contract Documents. Upon receipt of written notice that the work is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when he finds the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents.
- **2.22. Bid Bond:** Each Bid shall as a guaranty of good faith on the part of the Bidder be accompanied by a Bid Guaranty consisting of: a certified or cashier's check drawn on an approved national bank or trust company in the state of Colorado, and made payable without condition to the City; or a **Bid Bond** written by an approved corporate surety in favor of the City. The amount of the Bid Guaranty shall not be less than 5% of the total Bid amount. Once a Bid is accepted and a Contact is awarded, the apparent successful bidder has ten calendar days to enter into a contractor in the form prescribed and to furnish the bonds with a legally responsible and approved surety. Failure to do so will result I forfeiture of the Bid Guaranty to the City as Liquidated Damages.

Each bidder shall guaranty its total bid price for a period of sixty (60) Calendar Days from the date of the bid opening.

2.23. Performance & Payment Bonds: Contractor shall furnish a Performance and a Payment Bond, each in an amount at least equal to that specified for the contract amount as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents. These bonds shall remain in effect for the duration of the Warranty Period (as specified in the Special Conditions). Contractor shall also furnish other bonds that may be required by the Special Conditions. All bonds shall be in the forms prescribed by the Contract Documents and be executed by such sureties as (1) are licensed to conduct business in the State of Colorado and (2) are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff, Bureau of Accounts, U.S. Treasury Department. All bonds singed by an agent must be accompanied by a certified copy of the Authority Act. If the surety on any bond furnished by the Contractor is declared bankrupt, or becomes

insolvent, or its rights to do business in Colorado are terminated, or it ceases to meet the requirements of clauses (1) and (2) of this section, Contractor shall within five (5) days thereafter substitute another bond and surety, both of which shall be acceptable to the City.

- 2.24. Retention: The Owner will deduct money from the partial payments in amounts considered necessary to protect the interest of the Owner and will retain this money until after completion of the entire contract. The amount to be retained from partial payments will be five (5) percent of the value of the completed work, and not greater than five (5) percent of the amount of the Contract. When the retainage has reached five (5) percent of the amount of the Contract no further retainage will be made and this amount will be retained until such time as final payment is made.
- 2.25. Liquidated Damages for Failure to Enter Into Contract: Should the Successful Bidder fail or refuse to enter into the Contract within ten Calendar Days from the issuance of the Notice of Award, the City shall be entitled to collect the amount of such Bidder's Bid Guaranty as Liquidated Damages, not as a penalty but in consideration of the mutual release by the City and the Successful Bidder of all claims arising from the City's issuance of the Notice of Award and the Successful Bidder's failure to enter into the Contract and the costs to award the Contract to any other Bidder, to readvertise, or otherwise dispose of the Work as the City may determine best serves its interest.
- 2.26. Liquidated Damages for Failure to Meet Project Completion Schedule: If the Contractor does not achieve Final Completion by the required date, whether by neglect, refusal or any other reason, the parties agree and stipulate that the Contractor shall pay liquidated damages to the City for each such day that final completion is late. As provided elsewhere, this provision does not apply for delays caused by the City. The date for Final Completion may be extended in writing by the Owner.

The Contractor agrees that as a part of the consideration for the City's awarding of this Contract liquidated damages in the daily amount of **\$350.00** is reasonable and necessary to pay for the actual damages resulting from such delay. The parties agree that the real costs and injury to the City for such delay include hard to quantify items such as: additional engineering, inspection and oversight by the City and its agents; additional contract administration; inability to apply the efforts of those employees to the other work of the City; perceived inefficiency of the City; citizens having to deal with the construction and the Work, rather than having the benefit of a completed Work, on time; inconvenience to the public; loss of reputation and community standing for the City during times when such things are very important and very difficult to maintain.

The Contractor must complete the Work and achieve final completion included under the Bid Schedule in the number of consecutive calendar days after the City gives is written Notice to Proceed. When the Contractor considers the entire Work ready for its intended use, Contractor shall certify in writing that the Work is fully complete. Final Completion date is the date by which the Contractor shall have fully completed all clean-up, and all items that were identified by the City in the inspection for final completion. Unless otherwise stated in the Special Conditions, for purposes of this liquidated damages clause, the Work shall not be finished and the Contract time shall continue to accrue until the City gives its written Final Acceptance.

If the Contractor shall fail to pay said liquidated damages promptly upon demand thereof after having failed to achieve Final Completion on time, the City shall first look to any retainage or other funds from which to pay said liquidated damages; if retainage or other liquid funds are not available to pay said liquidated damages amounts, the Surety on the Contractor's Performance Bond and Payment Bond shall pay such liquidated damages. In addition, the City may withhold all, or any part of, such liquidated damages from any payment otherwise due the Contractor.

Liquidated damages as provided do not include any sums to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. Should the City incur additional costs because of delays or extensions to other contracts resulting from the Contractor's failure of timely performance, the Contractor agrees to pay these costs that the City incurs because of the Contractor's delay, and these payments are separate from and in addition to any liquidated damages.

The Contractor agrees that the City may use its own forces or hire other parties to obtain Final Completion of the work if the time of completion has elapsed and the Contractor is not diligently pursuing completion. In addition to the Liquidated Damages provided for, the Contractor agrees to reimburse the City for all expenses thus incurred.

- 2.27. Contingency/Force Account/Minor Contract Revisions: Contingency/Force Account/Minor Contract Revisions work will be authorized by the Owner's Project Manager and is defined as minor expenses to cover miscellaneous or unforeseen expenses related to the project. The expenses are not included in the Drawings, Specifications, or Scope of Work and are necessary to accomplish the scope of this contract. Contingency/Force Account/Minor Contract Revisions Authorization will be directed by the Owner through an approved form. Contingency/Force Account/Minor Contract Revisions funds are the property of the Owner and any Contingency/Force Account/Minor Contract Revisions funds, not required for project completion, shall remain the property of the Owner. Contractor is not entitled to any Contingency/Force Account/Minor Contract Revisions funds, that are not authorized by Owner or Owner's Project Manager.
- 2.28. Protection of Persons & Property: The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the work, or in consequence of the non-execution thereof by the Contractor, he shall restore, at his own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.

- 2.29. Changes in the Work: The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions, the contract sum and the contract time being adjusted accordingly. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the contract documents. A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time. The contract sum and the contract time may be changed only by Change Order.
- 2.30. Claims for Additional Cost or Time: If the Contractor wishes to make a claim for an increase in the contract sum or an extension in the contract time, he shall give the Owner written notice thereof within a reasonable time after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the work, except in an emergency endangering life or property in which case the Contractor shall precede in accordance with the regulations on safety. No such claim shall be valid unless so made. Any change in the contract sum or contract time resulting from such claim shall be authorized by Change Order.
- **2.31. Minor Changes in the Work:** The Owner shall have authority to order minor changes in the work not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.
- **2.32. Field Orders:** The Owner may issue written Field Orders which interpret the Contract Documents in accordance with the specifications, or which order minor changes in the work in accordance with the agreement, without change in the contract sum or time. The Contractor shall carry out such Field Orders promptly.
- 2.33. **Uncovering & Correction of Work:** The Contractor shall promptly correct all work rejected by the Owner as defective or as failing to conform to the contract documents whether observed before or after substantial completion and whether or not fabricated installed or competed. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. If within one (1) year after the date of completion or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the contract documents, any of the work found to be defective or not in accordance with the contract documents, the Contractor shall correct it promptly after receipt of a written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner. The Contractor shall bear the cost of making good all work of separate Contractors destroyed or damaged by such removal or correction. If the Owner prefers to accept defective or non-conforming work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect an appropriate reduction in the payment or contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor.

- **2.34. Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All amendments to the contract shall be made in writing by the Owner.
- **2.35. Assignment:** The Contractor shall not sell, assign, transfer or convey any contract resulting from this IFB, in whole or in part, without the prior written approval from the Owner.
- **2.36. Compliance with Laws:** Bids must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements.
- **2.37. Confidentiality**: All information disclosed by the Owner to the Contractor for the purpose of the work to be done or information that comes to the attention of the Contractor during the course of performing such work is to be kept strictly confidential.
- **2.38.** Conflict of Interest: No public official and/or City/County employee shall have interest in any contract resulting from this IFB.
- **2.39. Contract Termination**: This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation.
- **2.40.** Employment Discrimination: During the performance of any services per agreement with the Owner, the Contractor, by submitting a Bid, agrees to the following conditions:
 - **2.40.1.** The Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, handicap, or national origin except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Contractor. The Contractor agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
 - **2.40.2.** The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, shall state that such Contractor is an Equal Opportunity Employer.
 - **2.40.3.** Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- **2.41.** Affirmative Action: In executing a Contract with the City, the Contractor agrees to comply with Affirmative Action and Equal Employment Opportunity regulations presented in the General Contract Conditions.
- **2.42.** Immigration Reform and Control Act of 1986 and Immigration Compliance: The Offeror certifies that it does not and will not during the performance of the contract employ

workers without authorization or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).

- **2.43. Ethics:** The Contractor shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.44. Failure to Deliver: In the event of failure of the Contractor to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Contractor responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.
- **2.45.** Failure to Enforce: Failure by the Owner at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the Owner to enforce any provision at any time in accordance with its terms.
- **2.46.** Force Majeure: The Contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Contractor, unless otherwise specified in the contract.
- 2.47. Independent Contractor: The Contractor shall be legally considered an Independent Contractor and neither the Contractor nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Contractor, its servants, or agents. The Owner shall not withhold from the contract payments to the Contractor any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Contractor. Further, the Owner shall not provide to the Contractor any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- **2.48.** Nonconforming Terms and Conditions: A bid that includes terms and conditions that do not conform to the terms and conditions of this Invitation for Bid is subject to rejection as non-responsive. The Owner reserves the right to permit the Contractor to withdraw nonconforming terms and conditions from its bid prior to a determination by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

Items for non-responsiveness may include, but not be limited to:

- a. Submission of the Bid on forms other than those supplied by the City;
- b. Alteration, interlineation, erasure, or partial detachment of any part of the forms which are supplied herein;
- c. Inclusion of unauthorized additions conditional or alternate Bids or irregularities of any kind which may tend to make the Bid incomplete, indefinite, or ambiguous as to its meaning;

- d. Failure to acknowledge receipt of any or all issued Addenda;
- e. Failure to provide a unit price or a lump sum price, as appropriate, for each pay item listed except in the case of authorized alternative pay items;
- f. Failure to list the names of Subcontractors used in the Bid preparation as may be required in the Solicitation Documents;
- g. Submission of a Bid that, in the opinion of the Owner, is unbalanced so that each item does not reasonably carry its own proportion of cost or which contains inadequate or unreasonable prices for any item;
- h. Tying of the Bid with any other bid or contract; and
- i. Failure to calculate Bid prices as described herein.
- 2.49. Evaluation of Bids and Offerors: The Owner reserves the right to:
 - reject any and all Bids,
 - waive any and all informalities,
 - take into account any prompt payment discounts offered by Bidder,
 - negotiate final terms with the Successful Bidder,
 - take into consideration past performance of previous awards/contracts with the Owner of any Contractor, Vendor, Firm, Supplier, or Service Provider in determining final award. and
 - disregard any and all nonconforming, nonresponsive or conditional Bids.

Discrepancies between words and figures will be resolved in favor of words. Discrepancies between Unit Prices and Extended Prices will be resolved in favor of the Unit Prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. The corrected extensions and totals will be shown in the tabulation of Bids.

The Owner may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work as to which the identity of Subcontractors and other persons and organizations must be submitted. Operating costs, maintenance considerations performance data, and guarantees of materials and equipment may also be considered by the Owner.

The Owner will conduct such investigations as deemed necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of the Offeror, proposed Subcontractors and other persons and organizations to do the Work in accordance with the *Contract Documents* to the City's satisfaction within the Contract Time.

The Offeror shall furnish the Owner all information and data requested by the Owner to determine the ability of the Offeror to perform the Work. The Owner reserves the right to reject the Bid if the evidence submitted by, or investigation of such Offeror fails to satisfy the Owner that such Offeror is properly qualified to carry out the obligations of the Contract and to complete the Work contemplated therein.

By submitting a Bid, each Offeror authorizes the Owner to perform such investigation of the Offeror as the Owner deems necessary to establish the responsibility, qualifications and financial ability of the Offeror and, by its signature thereon, authorizes the Owner to obtain reference information concerning the Offeror and releases the party providing such information and the Owner from any and all liability to the Offeror as a result of such reference information so provided.

The Owner reserves the right to reject the Bid of any Offeror who does not pass any evaluation to the Owner's satisfaction.

If the Contract is to be awarded, it will be awarded to the Offeror who, by evaluation, the Owner determines will best meet the Owner's interests.

The Owner reserves the right to accept or reject the Work contained in any of the Price Bid Schedules or alternates, either in whole or in part.

2.50. Award of Contract: Unless otherwise indicated, a single award will be made for all the bid items in an individual bid schedule. In the event that the Work is contained in more than one Bid Schedule, the City may award Schedules individually or in combination. In the case of two Bid Schedules which are alternative to each other, only one of such alternative Schedules will be awarded. Within forty-five (45) Calendar Days of Bid Opening, the City will issue a Notice of Award to the Successful Bidder which will be accompanied by four (4) unsigned copies of the Contract and the Performance and Payment Bond forms. Within ten (10) Calendar Days thereafter, the Successful Bidder shall sign and deliver four (4) copies of the Contract, Performance Bond, Payment Bond and Certificates of Insurance to the City. Within ten (10) Calendar Days thereafter, the City will deliver two (2) fully executed counterparts of the Contract to the Contractor. No contract shall exist between the Successful Bidder and the City and the Successful Bidder shall have no rights at law or in equity until the Contract has been duly executed by the City.

The Successful Bidder's failure to sign and submit a Contract and other documents set forth in this Paragraph within the prescribed time shall be just cause of annulment of the award, and forfeiture of the Bid Guaranty. The award of Contract may then be made to the next qualified Bidder in the same manner as previously prescribed.

- **2.51. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.52. Oral Statements: No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.

- 2.53. Patents/Copyrights: The Contractor agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Contractor for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this IFB.
- **2.54. Remedies**: The Contractor and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- **2.55. Venue**: Any agreement as a result of responding to this IFB shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.
- **2.56. Expenses:** Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- **2.57. Sovereign Immunity:** The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.
- 2.58. Non-Appropriation of Funds: The contractual obligation of the Owner under this contract is contingent upon the availability of appropriated funds from this fiscal year budget as approved by the City Council or Board of County Commissioners from this fiscal year only. State of Colorado law prohibit obligation of public funds beyond the fiscal year for which the budget was approved. Anticipated expenditures/obligations beyond the end of the current Owner's fiscal year budget shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- **2.59. Cooperative Purchasing:** Purchases as a result of this solicitation are primarily for the City/County. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Bid. The quantities furnished in this bid document are for only the City/County. It does not include quantities for any other jurisdiction. The City or County will be responsible only for the award for its jurisdiction. Other participating entities will place their own awards on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The City/County accepts no liability for payment of orders placed by other participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.
- **2.60.** Keep Jobs in Colorado Act: Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and

residency required by C.R.S. §8-17-101(2)(a). If Contractor claims it is entitled to a waiver pursuant to C.R.S. §8-17-101(1), Contractor shall state that there is insufficient Colorado labor to perform the work such that compliance with Article 17 would create an undue burden that would substantially prevent a project from proceeding to completion, and shall include evidence demonstrating the insufficiency and undue burden in its response.

Unless expressly granted a waiver by the Owner pursuant to C.R.S. §8-17-101(1), Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a).

- 2.60.1. "Public project" is defined as:
 - (a) any construction, alteration, repair, demolition, or improvement of any land, building, structure, facility, road, highway, bridge, or other public improvement suitable for and intended for use in the promotion of the public health, welfare, or safety and any maintenance programs for the upkeep of such projects
 - (b) for which appropriate or expenditure of moneys may be reasonably expected to be \$500,000.00 or more in the aggregate for any fiscal year
 - (c) except any project that receives federal moneys.

3. Statement of Work

- **3.1.GENERAL:** The work request is for construction of a parking lot and associated improvements at the Persigo Wastewater Treatment Plan Orchard Mesa Office (251 27 Road).
- **3.2. PROJECT DESCRIPTION:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required for improvements and asset replacements at the Persigo Wastewater Treatment Plan Orchard Mesa Office (251 27 Road). The work will include removal of existing asphalt, the removal of a Green Ash tree, installation of an 8" concrete parking lot, a chain link fence, a motorized gate, and parking lot striping. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

3.3. SPECIAL CONDITIONS & PROVISIONS:

- 3.3.1 Mandatory Pre-Bid Meeting: Prospective bidders are required to attend a mandatory pre-bid meeting on October 21, 2022 at 9:00am. Meeting location shall be onsite, located at 251 27 RD. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB). NOTE: Bidders that arrive more than 10 minutes late to the meeting shall not be eligible to submit a bid response to this solicitation process for this project.
- 3.3.2 QUESTIONS REGUARDING SOLICIATION PROCESS/SCOPE OF WORK: Kassy Hackett, Buyer

kassyh@gjcity.org

3.3.3 Project Manager: The Project Manager for the Project is Lisa Froshaug, Project Engineer, who can be reached at (970)244-1592. <u>During Construction</u>, all notices, letters, submittals, and other communications directed to the City shall be addressed and mailed or delivered to:

City of Grand Junction Department of Public Works Attn: Lisa Froshaug, Project Manager 250 North Fifth Street Grand Junction, CO 81501

3.3.4 Contract Administrator: The Contract Administrator for the Project is Duane Hoff Jr., Contract Administrator, who can be reached at (970)244-1545. <u>During Construction</u>, contract related inquiries, issues, and other communications shall be directed to:

> Duane Hoff Jr., Contract Administrator duaneh@gjcity.org

- **3.3.5** <u>**Pre-Qualification:**</u> Contractors must be pre-qualified in the following categories to submit a bid response to this project:
 - 1. Concrete Roadway Paving

Contractors may view their approved pre-qualified categories by clicking the <u>Pre-Qualification List Link</u>.

- **3.3.6 Affirmative Action:** The Contractor is not required to submit a written Affirmative Action Program for the Project.
- **3.3.7 Pricing:** Pricing shall be all inclusive to include but not be limited to: all labor, equipment, supplies, materials, freight (F.O.B. Destination Freight Pre-paid and Allowed to each site), travel, mobilization costs, fuel, set-up and take down costs, and full-time inspection costs, and all other costs related to the successful completion of the project.

The Owner shall not pay nor be liable for any other additional costs including but not limited to: taxes, shipping charges, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.

3.3.8 Freight/Shipping: All freight/shipping shall be F.O.B. Destination – Freight Pre-Paid and Allowed to the project site(s), Grand Junction, CO.

Contractor must meet all federal, state, and local rules, regulations, and requirements for providing such services.

3.3.9 Contract: A binding contract shall consist of: (1) the IFB and any amendments thereto, (2) Additional Documents as stated in Section 1.10, (3) the bidder's response

(bid) to the IFB, (4) clarification of the bid, if any, and (5) the City's Purchasing Department's acceptance of the bid by "Notice of Award" or by "Purchase Order". All Exhibits and Attachments included In the IFB shall be incorporated into the contract by reference.

A. The contract expresses the complete agreement of the parties and, performance shall be governed solely by the specifications and requirements contained therein.

B. Any change to the contract, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the bidder and the City Purchasing Division or by a modified Purchase Order prior to the effective date of such modification. The bidder expressly and explicitly understands and agrees that no other method and/or no other document, including acts and oral communications by or from any person, shall be used or construed as an amendment or modification to the contract.

3.3.10 Time of Completion: The scheduled time of Completion for the Project is <u>45</u> <u>Calendar Days</u> from the starting date specified in the Notice to Proceed.

Completion is achieved when site cleanup and all punch list items (resulting from the final inspection) have been completed. Completion shall have the meaning set forth in Article I, Section 3 (Definitions and Terms) of the General Contract Conditions.

3.3.11 Working Days and Hours: The working days and hours shall be as stated in the General Contract Conditions or as mutually agreed upon in the preconstruction meeting with the following exception:

All work shall be performed between the hours of 7:00 AM to 5:00 PM.

- **3.3.12 Licenses and Permits:** Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.12. Contractor shall supply to Owner all copies of finalized permits.
- **3.3.13 Permits:** The following permits are required for the Project and will be obtained by the City at no cost to the Contractor: None

The following permits are required for the Project and shall be obtained but not paid for by the Contractor:

None

The following permits are required for the Project and shall be obtained and paid for by the Contractor, with the costs included in the total bid price for the Project: None

- **3.3.14 City Furnished Materials:** The City will furnish the following materials for the Project:
 - None

- 3.3.15 Project Newsletters: The work will not require public outreach.
- **3.3.16 Project Sign:** Project signs, if any, will be furnished and installed by the City.
- **3.3.17 Authorized Representatives of the City:** Those authorized to represent the City shall include Purchasing Agent, Engineers, and Inspectors employed by the City, only.
- **3.3.18 Stockpiling Materials and Equipment:** All stockpiling/storage shall be in accordance with General Contract Condition Section 51.
- **3.3.19 Traffic Control:** The Contractor shall provide and maintain traffic control in accordance with the approved Traffic Control Plan and the Manual on Uniform Traffic Control Devices. A Traffic Control Plan shall be prepared by the Contractor and reviewed by the City two days prior to the pre-construction meeting.
- **3.3.20 Clean-Up:** The Contractor is responsible for cleaning up all loose materials that have been deposited or swept into gutters, and onto sidewalks and driveways as a result of sidewalk operations. The costs for all clean-up work shall be considered incidental and will not be paid for separately.
- **3.3.21 Quality Control Testing:** Supplier shall perform Quality Control (QC) testing on the Asphalt. The Contractor shall provide QC throughout the Contract, with the use of their own QC Technicians or the use of a certified laboratory. In accordance with Section 401.06.3 of the City of Grand Junction Standard Specifications for Road and Bridge Construction, results of all QC tests shall be submitted to the Project Engineer and the City's Quality Assurance (QA) Technician within 4 hours of the time of sampling. Failure to do so may require that paving be suspended until all sampling results have been received, reviewed, and approved. The Contractor shall supply QC Lab personnel for night work for comparison of test data. If lab personnel is not supplied paving operations will be suspended until one is available. QC Field personnel shall remain on site during the duration of the paving operation or until in-place density are met.

The Contractor/Supplier shall perform QC testing on all concrete. The City will perform QA testing for concrete.

The Contractor, at their own discretion, may elect to forgo the soils QC field testing (in-place soils density) for placement of Embankment and Aggregate Base Course. QA testing for these items will be performed by the City, and laboratory results for submittal purposes will be provided by the contractor. However, if a sufficient number of failed test results are observed by the City and/or it's QA testing representatives, written notification will be provided to the contractor, and back payment to the City for failed location re-tests will be required.

- **3.3.22 Schedule of Submittals:** Contractor shall deliver these submittals at least two days prior to the pre-construction meeting:
 - Traffic Control Plans

- Project Schedule
- Concrete Mix Design
- Class 6 Base Course
- **3.3.23 Uranium Mill Tailings:** It is anticipated that radioactive mill tailings will not be encountered on this Project.
- **3.3.24 Fugitive Petroleum or Other Contamination:** It is anticipated that soil contamination from fugitive petroleum or other contaminants will not be encountered with the Project.
- **3.3.25 Excess Material:** All excess materials shall be disposed in accordance with General Contract Condition Section 50.
- **3.3.26 Existing Utilities and Structures:** Utilities were <u>not</u> potholed during design of this project. The location of existing utilities and structures shown on the Plans is approximate with the information gathered during design. It is the responsibility of the Contractor to pothole/locate and protect all structures and utilities in accordance with General Contract Condition Section 37.
- **3.3.27 Incidental Items:** Any item of work not specifically identified or paid for directly, but which is necessary for the satisfactory completion of any paid items of work, will be considered as incidental to those items, and will be included in the cost of those items.
- **3.3.28 Survey:** The Contractor shall give the City survey crew a minimum of 72 hours' notice for all requested survey.
- **3.3.29** Work to be Performed by the City (Prior to Construction):
 - None
- **3.3.30** Existing Concrete Sidewalks, Pans, Fillets, Curbs and Gutters: The existing sidewalks, pans, fillets, curb and gutter are in good serviceable condition. In most instances the installation of new sidewalk and pavement will be adjacent to existing concrete. The Contractor will need to protect all concrete adjacent to construction. If the concrete is damaged during construction the Contractor will be responsible for its replacement at no cost to the City. The Contractor, the City Project Inspector, and/or the City Project Manager will walk and record any concrete that is deemed to be damaged before construction has started.
- **3.3.31 ACI Concrete and Flatwork Finisher and Technician:** Hand finishing concrete will be permitted only when performed under the direct supervision of a craftsman holding the following certificate: ACI Concrete Flatwork Finisher and Technician (ACICFFT) or other Flatwork Finisher certification program approved by the City Engineering Manager.
- **3.3.32 Privacy Fence Slats** Contractor shall utilize privacy fence slats specified in Appendix B or comparable product with approval from the project engineer.
- **3.3.33 Motorized Gate** Contractor shall utilize privacy fence slats specified in Appendix C or comparable product with approval from the project engineer.

3.4. SCOPE OF WORK: See attached Construction Drawings/Specifications

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION:

The City of Grand Junction Standard Specifications for Road and Bridge Construction are hereby modified or supplemented for this Project by the following modifications to The Standard Specifications for Road and Bridge Construction, State Department of Highways, Division of Highways, State of Colorado:

SP-1 SECTION 202 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Section 202 of the Standard Specifications is hereby revised for this project as follows: Subsection 202.12, add the following: Locations of saw cuts shall be determined and directed by the Construction Inspector or the Engineer. Saw cuts shall be incidental to work.

Tree removal shall be performed by a licensed tree service.

SP-2 SECTION 208 – EROSION CONTROL

Add the following to this subsection:

208.05(n) Add the Following:

Concrete Washout Structure: Water for clean-up of equipment used in the mixing or distribution of concrete shall not be discharged to any storm water facilities, drain ways, or deposited into any open fields. The wastewater used shall either be wasted on an open excavation area on in an onsite detention facility for future disposal.

Subsection 208.08 Payment for Best Management Practices.

The disposal of wash water shall be considered incidental to the concrete and will not be measured for or paid for separately.

SP-3 SECTION 601 – STRUCTURAL CONCRETE

Section 601 of the Standard Specifications is hereby revised for this project as follows: Subsection 601.02, Classification:

CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

- 4,500 PSI Compressive at 28 Days
- 6% air ±1.5%
- Slump 4", Loads exceeding 4 ¹/₂" shall be rejected
- Maximum Water Cement Ratio no greater than 0.45.

Subsection 601.06, Batching:

This CDOT Specification has been added to this Project:

The Contractor shall furnish a batch ticket (delivery ticket) with each load for all concrete. Concrete delivered without a batch ticket containing complete information as specified shall be rejected. The Contractor shall collect and complete the batch ticket at the placement site and deliver all batch tickets to the Engineer or his representative at the end of each day. The Engineer or his representative shall have access to the batch tickets at any time during the placement. The following information shall be provided on each ticket:

- 1. Suppliers name and date
- 2. Truck number
- 3. Project name and location

- 4. Concrete class and designation number
- 5. Cubic yards batched
- 6. Type brand and amount of each admixture
- 7. Type, brand, and amount of cement and fly ash
- 8. Weights of fine and course aggregates
- 9. Moisture of fine and course aggregates
- 10. Gallons of batch water

The contractor shall add the following information to the batch ticket at time of placement:

- 1. Gallons of water added by the truck operator.
- 2. Number of revolutions of the drum for mixing
- 3. Discharge time

All concrete placed between October 1 and March 31 and at any other time when the ambient temperature is expected to drop below 40° F during the curing period, shall be cured in accordance with Section 601.13 (d) Blanket Method unless otherwise specified or approved by the Engineer. Blankets shall be placed immediately after the concrete has been finished and the surface has set.

SP-5 SECTION 630 - CONSTRUCTION ZONE TRAFFIC CONTROL

Subsection 630.09, Traffic Control Plan, shall include the following:

The following guidelines and limitations shall apply to the traffic control:

1. Two-way traffic shall be maintained on all streets (unless otherwise approved).

2. Concrete activities shall be coordinated so that concrete trucks and other vehicles do not block the traffic lanes.

3. All incidental costs shall be included in the original contract price for the project. Flagging shall be considered incidental and included in Traffic Control (Complete in Place).

3.5. Attachments:

Appendix A: Construction Drawings Appendix B: Fence Slat Specification Appendix C: Gate Motor Specification

- **3.6. Contractor Bid Documents:** For Contractor's convenience, the following is a list of forms/items to be submitted with the Contractor's bid response. However, should a form/item not be listed in this section, but required in the solicitation documents, it is the Contractor's responsibility to ensure all forms/items are submitted.
 - Contractor's Bid Form
 - Sub-contractors Form
 - Price Bid Schedule

3.7. IFB TENTATIVE TIME SCHEDULE:

- Invitation For Bids available Mandatory Pre-Bid Meeting Pre-Qualification Application Deadline Inquiry deadline, no questions after this date Addendum Posted Submittal deadline for proposals
- October 14, 2022 October 21, 2022 October 28, 2022 October 28, 2022 November 7, 2022 November 14, 2022

City Council Approval Notice of Award & Contract execution Bonding & Insurance Cert due Preconstruction meeting Work begins no later than

Final Completion

Holidays:

December 7, 2022 December 8, 2022 December 15, 2022 December 15, 2022 Upon Receipt of Notice to Proceed 45 Calendar Days from Notice to Proceed January 2, 2022 January 16, 2022

4. Contractor's Bid Form

Bid Date:			
Project: IFB-5131-22-KH "WWTP Imp	provements & Asset Replac	cement"	
Bidding Company:			
Name of Authorized Agent:			
Email			
Telephone	Address		
City	State_	Zip	

The undersigned Bidder, in compliance with the Invitation for Bids, having examined the Instruction to Bidders, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed work, hereby proposes to furnish all labor, materials and supplies, and to perform all work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Bidders, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

Prices in the bid proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this bid proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a bid proposal for the purpose of restricting competition.
- The individual signing this bid proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-03544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of _____ percent of the net dollar will be offered to the Owner if the invoice is paid within _____ days after the receipt of the invoice. The Owner reserves the right to take into account any such discounts when determining the bid award that are no less than Net 10 days.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: ______.

It is the responsibility of the Bidder to ensure all Addenda have been received and acknowledged.

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company:

Authorized Signature: _____

Title: _

The undersigned Bidder proposes to subcontract the following portion of Work:

Name & address of Sub-Contractor	Description of work to be performed	% of <u>Contract</u>

The undersigned Bidder acknowledges the right of the City to reject any and all Bids submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own organization, that this Bid has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bid Schedule: WWTP Improvements & Asset Replacement

tem No.	,	Description	Quantity	Units	Unit Price	Total Price
_						
1	202	Removal of Tree (Includes Complete Stump Removal)	9.	EACH _		
2	202	Removal of Concrete (Includes unclassified excavation)	164.	SY _		
3	202	Removal of Asphalt Mat (Includes unclassified excavation)	732.	SY _		
4	202	Removal of Fence	31.	LF _		
5	202	Removal of Bollard	2.	EACH _		
6	208	Concrete Washout Facility	1.			
7	210	Reset Gate	1.	EACH _		
8	210	Reset Chain Link Fence (6')	237.			
9	210	Reset Landscape Ground Cover (Includes sprinkler system)	1.	LS _		
10	304	Aggregate Base Course (Class 6) (6" Thick)	42.	CY _		
11	306	Reconditioning (12" Deep)	83.	SY _		
12	412	Concrete Pavement (8")	1,360.	SY _		
13	608	Concrete Sidewalk (4")	16.	A 1 (
14	609	Concrete Curb Stop	14.			
15	627	Preformed Thermoplastic Pavement Marking (4" White Solid)	278.			
16	607	Fence Chain Link (6')	136.	LF _		
17	607	Privacy Fance Slats (Beige)	361.	LF _		
18	607	Mororized Gate (Includes electrical wiring, motor, fire department access box, remotes, and keypad entry for existing 25' cantilever gate)	1.	LS _		
19	607	Gate (4' x 6')	1.	EACH		
20	607	Gate (12' x 6')	1.			
21	613	1 1/4" Electrical Conduit	189.			
22	620	Sanitary Facility	1.	EACH _		
23	625	Construction Surveying (Includes As-Built Drawings)	1.	LS _		
23	626	Mobilization	1.	LS _		
24	630	Traffic Control (Complete in Place)	1.	LS _		
MC R		Minor Contract Revisions				\$ 15,000.00
			Bid Ar	mount:	\$	

Bid Amount:

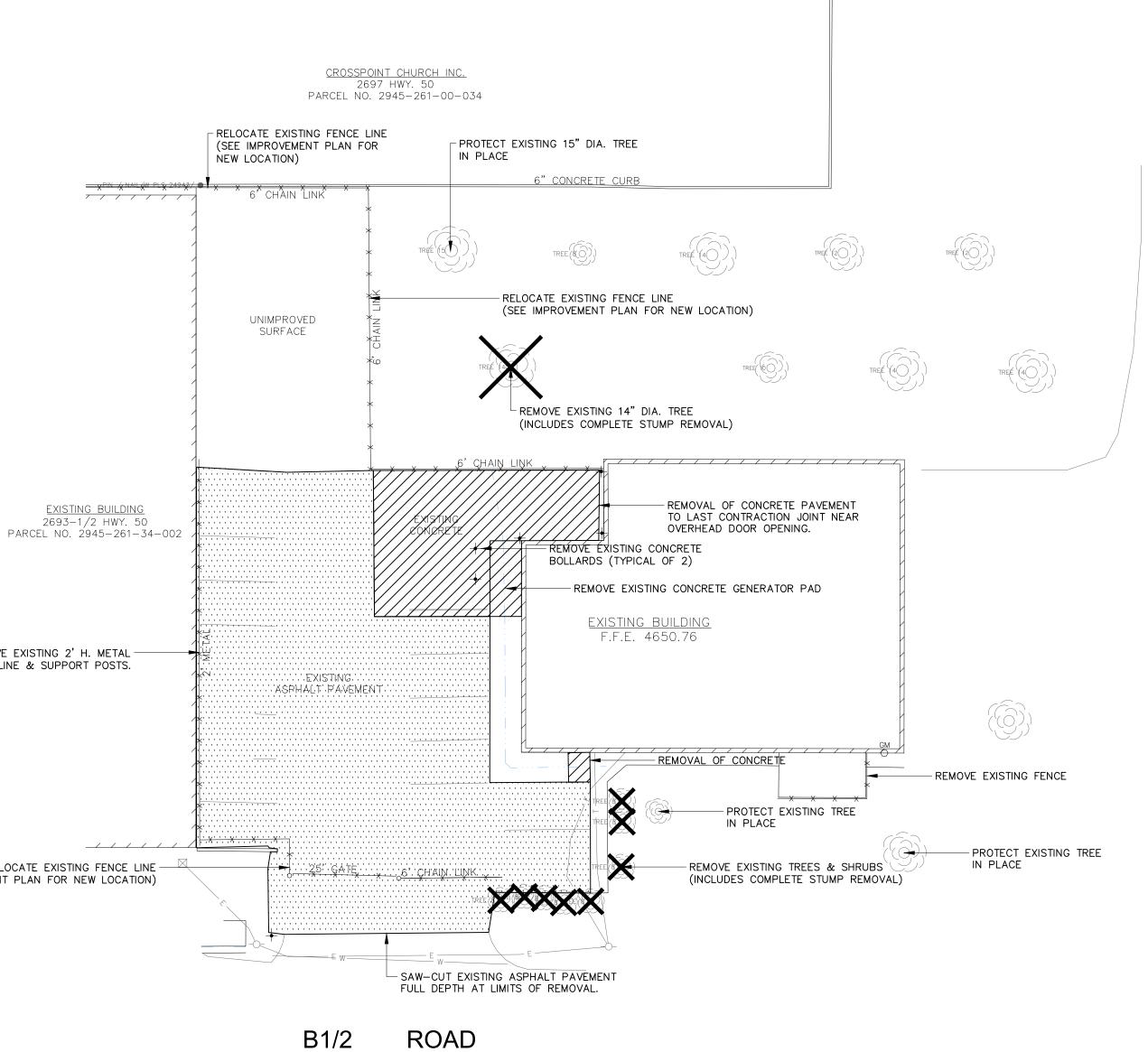
dollars

Appendix A: Construction Drawings

REMOVE EXISTING 2' H. METAL — FENCE LINE & SUPPORT POSTS.

RELOCATE EXISTING FENCE LINE -(SEE IMPROVEMENT PLAN FOR NEW LOCATION)

	DESCRIPTION	<u>DATE</u>	DRAWN BY:	НМС	_ DATE: _	2022		
REVISION A REV 1	DATE _		DESIGNED BY:	LMF	DATE:	2022	0 5'10' 20'	
REVISION & REV 2	DATE .		CHECKED BY:	LMF	DATE:	2022		
REVISION \triangle REV 3 REVISION \triangle REV 4	DATE _ DATE _		APPROVED BY:	LMF		2022	SCALE: $1" = 1$	20
	DATE .		l · · · · · · ·					

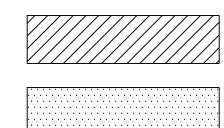




EXISTING ASPHALT PAVEMENT

PUBLIC WORKS ENGINEERING DIVISION PROJECT NO. F001052L



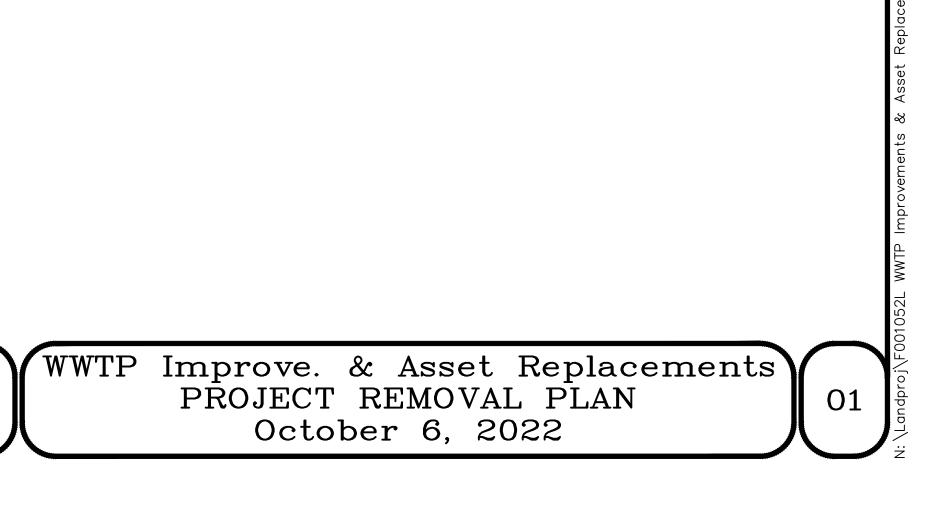


CONCRETE PAVEMENT REMOVAL (164 SQ. YDS.)

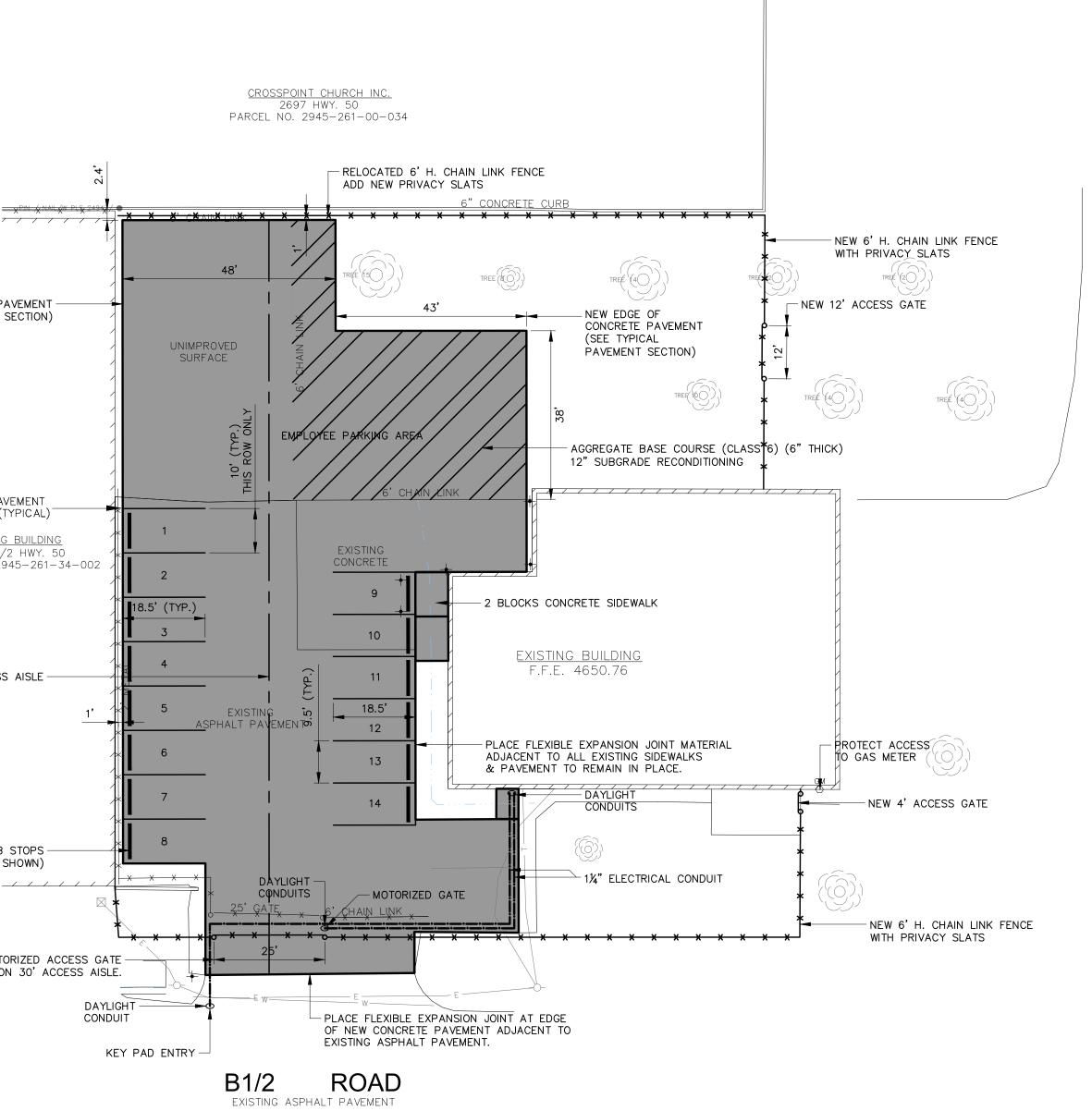
ASPHALT PAVEMENT REMOVAL (732 SQ. YDS.)



TREE & TRUNK REMOVAL (AS SHOWN)

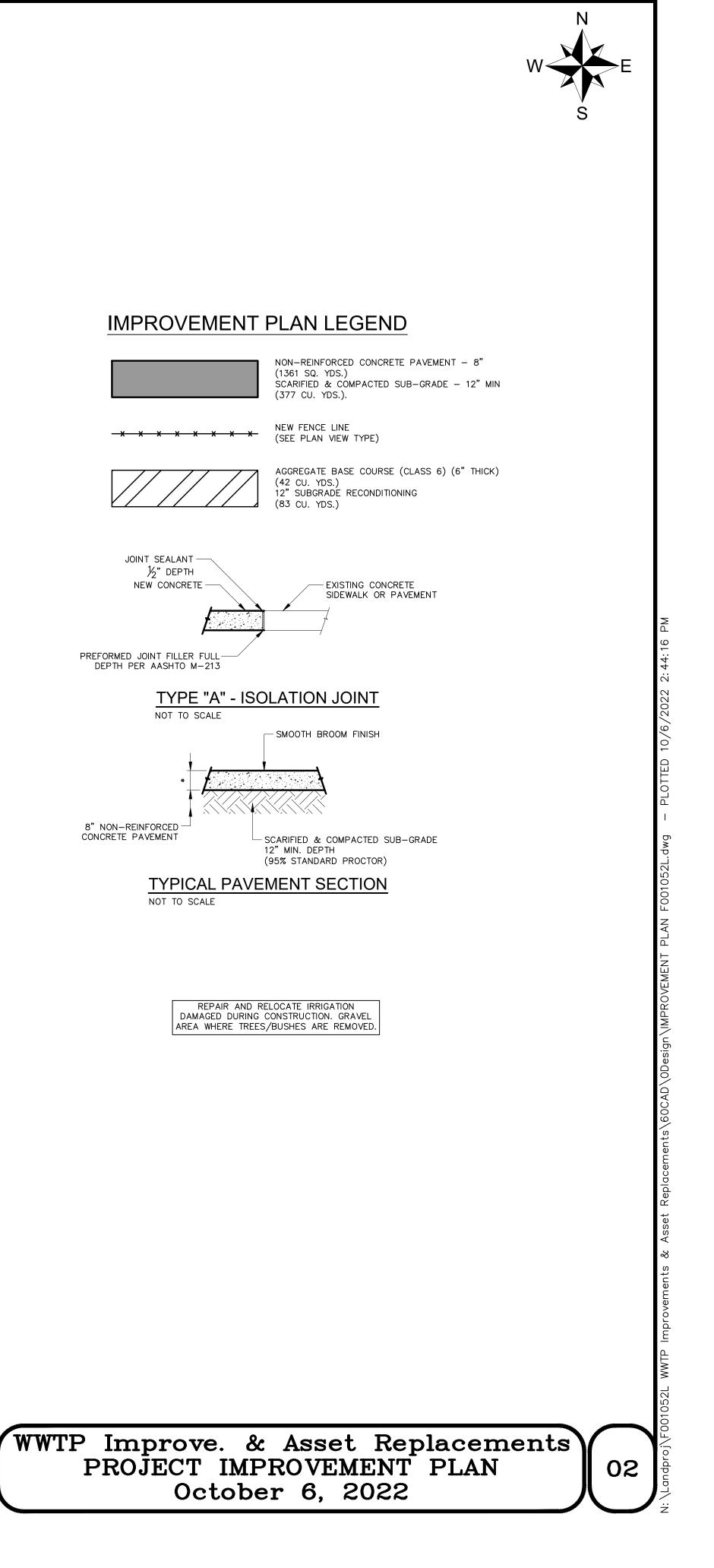


									
NEW EDGE OF CONCRETE PAVE (SEE TYPICAL PAVEMENT SEC									
4" WIDE WHITE PAVEM MARKING STRIPE (TYP									
<u>Existing B</u> 2693–1/2 F Parcel no. 2945									
PARCEL NO. 2945									
CL ACCESS A									
CONCRETE CURB ST									
(TYPICAL AS SHO									
NEW MOTORI CENTERED ON S									
0 5'10' 20'		_ DATE: _		DRAWN BY:	<u>DATE</u>		DESCRIPTION	1	
	2022 2022	_ DATE: _ DATF·	: <u>LMF</u> IMF	DESIGNED B	TE	D# D#		1 2	REVISION A REV REVISION A REV
SCALE: 1" = 20'	2022	DATE: _	Y: <u>LMF</u>	APPROVED	TE TE	D <i>A</i>		3	$\frac{1}{2} \mathbb{R} = \mathbb{R} \times \mathbb{R} \times$
				-					

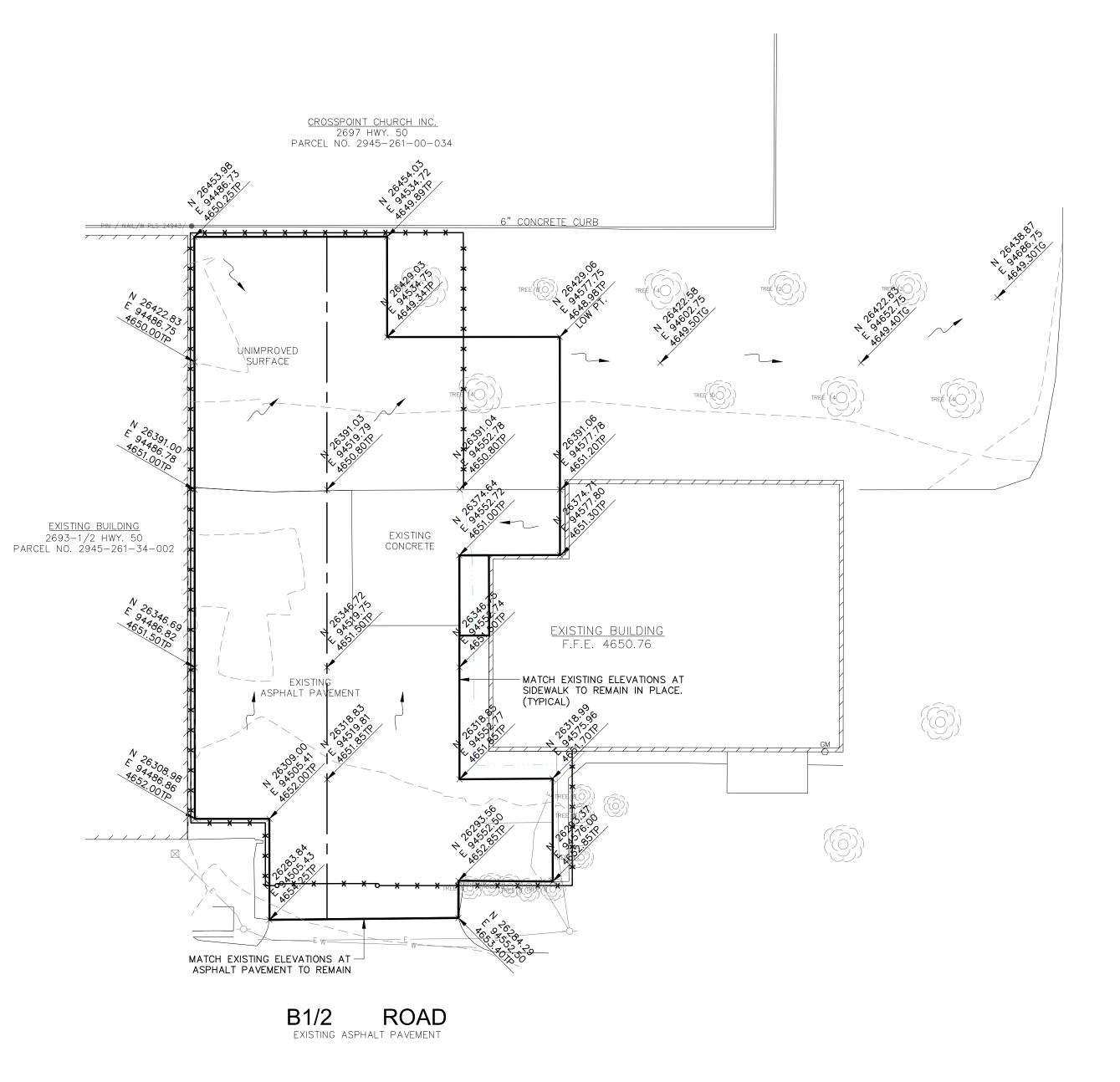




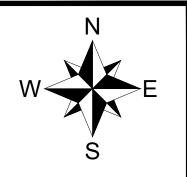




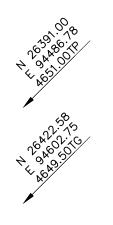
	DESCRIPTION		DATE	DRAWN BY:	НМС	_ DATE: _	2022		
	DESCRIPTION	DATE	DATE	DRAWN BY: DESIGNED BY:	HMC LMF	_ DATE: _		0 5'10'	' 20' ·
EVISION & REV 1 EVISION & REV 2 EVISION & REV 3	DESCRIPTION		DATE	-			2022		20' ALE: 1" = 20'







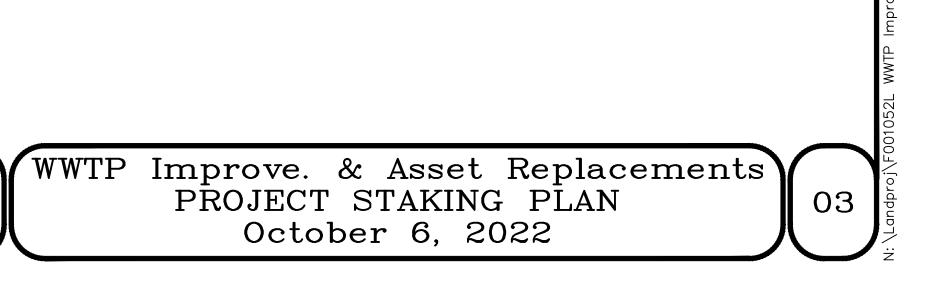
STAKING PLAN LEGEND

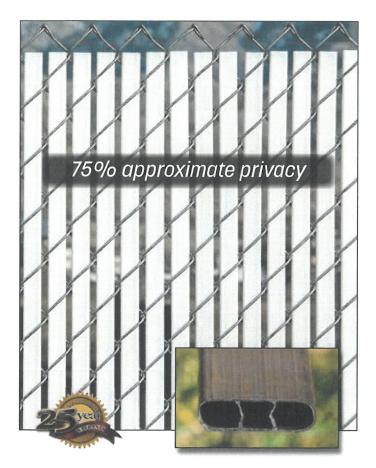


PROPOSED TOP OF FINISHED GRADE ELEVATION (TOP OF PAVEMENT)

PROPOSED TOP OF FINISHED GRADE ELEVATION (TOP OF GROUND)

PROPOSED DRAINAGE DIRECTION





Specifications

Slat Name	Slat Width	Mesh Size	Wire Gauge	Coverage Area	
Bottom Lock 2"	1 3/32″	2″	8, 9 or 11	10 linear feet	
Bottom Lock 2 1/4"	1 1/4″	2 1/4″	11 1/2 or 12	10 linear feet	
Bottom Lock 1 3/4"	7/8″	1 3/4″ 2″	8, 9, or 11 6	10 linear feet	

Available Colors (colors are approximations)



Exact representation of colors in printing is difficult. Please refer to actual color samples for accurate matching. **Samples available upon request.**

Bottom Locking Double Wall Slats

Bottom Locking Double Wall Slats are an economical and attractive way to enhance any chain link fence. The bottom locking design makes this one of the easiest slats to install and assures a clean level finish.

Design – Flat tubular shape with inside reinforced "legs" for extra durability. The locking channel creates a "snap-in" locking effect for security and deters vandalism.

Installation – Insert the locking channel horizontally through the bottom of the fence, then simply slide the slats vertically from the top towards the bottom channel and they will automatically lock into place.

Standard Chain Link Fence Heights – 4 ft., 5 ft., 6 ft., 7 ft., 8 ft., 10 ft., and 12 ft. (*Special heights available upon request*)

Slat Length – 3 1/2" shorter than the standard chain link fence height

Wind Load and Privacy Factor – Approximately 75% (Based on wire/mesh used-stretch tension)

Limited Warranty - 25 years pro-rata

Features and Benefits

Materials – *Slat***Source**[®] slats are extruded from High-Density Polyethylene (HDPE), color pigments and ultraviolet (UV) inhibitors specially formulated to retard the harmful effects of the sun and lengthen the life of the slats.

Durability – Our slats are also resistant to severe weather conditions, salt water, sand, road dirt, most acids, alcohol, alkaline, ammonia, petroleum distillates, and common environmental pollutants.

Maintenance – Our slats are nearly maintenance free. They may be pressure cleaned of surface contaminants with plain water.

Wind Load Disclaimer – We will not be held responsible for fence damage resulting from wind load conditions due to insufficient structural support.

Designations - Meets ASTM Designation: F3000/F3000M

HDPE Technical Properties

Property	Values
Melt Index	(.35) Optimum extrusion processing conditions for Fence Slats
Density	(.945) Polyethylene ranges anywhere from .914 to .960 in density
Minimum Temp.	(-70° F) Under no stress, HDPE remains flexible at this temperature
Maximum Temp.	(180° F) Under no stress, HDPE will not distort at this temperature
Strength	(4,000 psi) HDPE will not distort at lesser loads or impacts





1.888.806.7528 www.eprivacylink.com info@eprivacylink.com

Many patents and patents pending

	.≡ 0						DRAWING NO:	1	
	Step 3. Push the vertical slat into the horizontal channel until the locking catch snaps into the cutout notch.								©2018 PrivacyLink® All rights reserved
conditions)		COVERAGE AREA	10 LINEAR FEET	10 LINEAR FEET	10 LINEAR FEET		SUBMITTED BY:		©2018 Privacy
IS r job site	the ntil slat ttom FICATIONS	WIRE GAUGE	9 OR 11	11 1/2 OR 12	9 OR 11 6		SUBN	DATE:	-
ICTION vary pe	cally with with with the bo	MESH SIZE	2"	2 1/4"	1 3/4" 2"				
STRU	alats verti a end do erlocks v	SLAT WIDTH	1 3/32"	t" 11/4"	t" 7/8"				
INSTALLATION INSTRUCTIONS ation instructions. Instructions vary per j	Step 2. Insert slats vertically with the beveled/notched end downward until slat engages and interlocks with the bottom channel. BOTTOM LOCKING SLAT SPECIFICATIONS	SLAT NAME	BOTTOM LOCK 2"	BOTTOM LOCK 2 1/4"	BOTTOM LOCK 1 3/4"	(J)		ACTOR:	
INSTALLATION INSTRUCTIONS (Suggested installation instructions. Instructions vary per job site conditions)	Step 1. Insert the bottom channel horizontally into the first diamond at the bottom of the fence with open side facing up.				These easy to install slats provide a beautifully finished fence.	Bottom Locking Fence Slats	Slat Source	130 West 700 South, Smithfield, UT 84335 eprivacylink.com • 1-800-574-1076	

Appendix C: Gate Motor Specification

COMMERCIAL DC VEHICULAR SLIDE GATE OPERATOR

INSTALLATION MANUAL



Access installation and technical suppor guides or register this product



Take a photo of the camera icon including the points (☉).

2. Send it in by texting the photo to 71403.

Lift Master



LiftMaster 300 Windsor Drive Oak Brook, IL 60523

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SAFETY

Safety Symbol and Signal Word Review

When you see these Safety Symbols and Signal Words on the following pages, they will alert you to the possibility of *Serious Injury or Death* if you do not comply with the warnings that accompany them. The hazard may come from something mechanical or from electric shock. Read the warnings carefully.

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your gate and/or the gate operator if you do not comply with the cautionary statements that accompany it. Read them carefully.

IMPORTANT NOTE:

- BEFORE attempting to install, operate or maintain the operator, you must read and fully understand this manual and follow all safety instructions.
- DO NOT attempt repair or service of your gate operator unless you are an Authorized Service Technician.



MECHANICAL



ELECTRICAL





WARNING: This product can expose you to chemicals including lead, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to *www.P65Warnings.ca.gov*.

SAFETY

Usage Class

Class I - Residential Vehicular Gate Operator

A vehicular gate operator (or system) intended for use in garages or parking areas associated with a residence of one-to four single families.

Class II - Commercial/General Access Vehicular Gate

A vehicular gate operator (or system) intended for use in a commercial location or building such as a multi-family housing unit (five or more single family units), hotel, garages, retail store, or other buildings accessible by or servicing the general public.

Class III - Industrial/Limited Access Vehicular Gate

A vehicular gate operator (or system) intended for use in an industrial location or building such as a factory or loading dock area or other locations not accessible by or intended to service the general public.

Class IV - Restricted Access Vehicular Gate Operator

A vehicular gate operator (or system) intended for use in a guarded industrial location or building such as an airport security area or other restricted access locations not servicing the general public, in which unauthorized access is prevented via supervision by security personnel.

UL325 Entrapment Protection Requirements

- A minimum of two independent* monitored entrapment protection devices are required to be installed at each entrapment zone
- Every installation is unique. It is the responsibility of the installer to install external monitored entrapment protection devices in each entrapment zone
- This vehicular slide gate operator will operate only after installation
 of a minimum of two independent* monitored entrapment protection
 devices in each direction; two in the open direction and two in the
 close direction.
- Entrapment protection device types include inherent (built into the operator), monitored external photoelectric sensors or monitored external edge sensors
- This operator is provided with an inherent entrapment protection device built into the operator that serves as one of the two independent devices

* Independent - the same type of device shall NOT be used for both entrapment protection devices.

IMPORTANT SAFETY INSTRUCTIONS

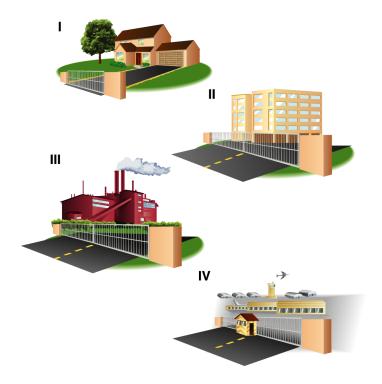
WARNING

To reduce the risk of INJURY or DEATH:

- READ AND FOLLOW ALL INSTRUCTIONS.
- NEVER let children operate or play with gate controls. Keep the remote control away from children.
- ALWAYS keep people and objects away from the gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
- Test the gate operator monthly. The gate MUST reverse on contact with an object or reverse when an object activates the noncontact sensors. After adjusting the force or the limit of travel, retest the gate operator. Failure to adjust and retest the gate operator properly can increase the risk of INJURY or DEATH.
- Use the emergency release ONLY when the gate is not moving.
- KEEP GATES PROPERLY MAINTAINED. Read the owner's manual. Have a qualified service person make repairs to gate hardware.
- The entrance is for vehicles ONLY. Pedestrians MUST use separate entrance.

SAVE THESE INSTRUCTIONS.

3



SAFETY

Safety Installation Information

- 1. Vehicular gate systems provide convenience and security. Gate systems are comprised of many component parts. The gate operator is only one component. Each gate system is specifically designed for an individual application.
- Gate operating system designers, installers and users must take into account the possible hazards associated with each individual application. Improperly designed, installed or maintained systems can create risks for the user as well as the bystander. Gate systems design and installation must reduce public exposure to potential hazards.
- 3. A gate operator can create high levels of force in its function as a component part of a gate system. Therefore, safety features must be incorporated into every design. Specific safety features include:
 - Edges Sensors (contact)
 - · Guards for Exposed Rollers
 - Photoelectric Sensors
 - Screen Mesh
 - Vertical Posts
 - Instructional and Precautionary Signage
- 4. Install the gate operator only when:
 - a. The operator is appropriate for the construction and the usage class of the gate.
 - b. All openings of a horizontal slide gate are guarded or screened from the bottom of the gate to a minimum of 6 feet (1.8 m) above the ground to prevent a 2-1/4 inches (6 cm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position.
 - c. All exposed pinch points are eliminated or guarded, and guarding is supplied for exposed rollers.
- 5. The operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separate access opening. The pedestrian access opening shall be designed to promote pedestrian usage. Locate the gate such that persons will not come in contact with the vehicular gate during the entire path of travel of the vehicular gate.
- 6. The gate must be installed in a location so that enough clearance is supplied between the gate and adjacent structures when opening and closing to reduce the risk of entrapment.
- 7. The gate must be properly installed and work freely in both directions prior to the installation of the gate operator.
- 8. Permanently mounted access controls intended for users to activate, must be located at least 6 feet (1.8 m) away from any moving part of the gate and where the user is prevented from reaching over, under, around or through the gate to operate the controls. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use. Exception: Emergency access controls only accessible by authorized personnel (e.g. fire, police) may be placed at any location in the line-of-sight of the gate.

- 9. The Stop and/or Reset (if provided separately) must be located in the line-of-sight of the gate. Activation of the reset control shall not cause the operator to start.
- 10. A minimum of two (2) WARNING SIGNS shall be installed in the area of the gate. Each placard is to be visible by persons located on the side of the gate on which the placard is installed.
- 11. For a gate operator utilizing a non-contact sensor:
 - Reference owner's manual regarding placement of non-contact sensor for each type of application. See Install Entrapment Protection section.
 - Care shall be exercised to reduce the risk of nuisance tripping, such as when a vehicle trips the sensor while the gate is still moving.
 - c. One or more non-contact sensors shall be located where the risk of entrapment or obstruction exists, such as the perimeter reachable by a moving gate or barrier.
- 12. For a gate operator utilizing a contact sensor such as an edge sensor:
 - One or more contact sensors shall be located where the risk of entrapment or obstruction exists, such as at the leading edge, trailing edge and post mounted both inside and outside of a vehicular horizontal slide gate.
 - b. A hard wired contact sensor shall be located and its wiring arranged so the communication between the sensor and the gate operator is not subject to mechanical damage.
 - c. A wireless device such as one that transmits radio frequency (RF) signals to the gate operator for entrapment protection functions shall be located where the transmission of the signals are not obstructed or impeded by building structures, natural landscaping or similar obstruction. A wireless device shall function under the intended end-use conditions.

SAFETY

Gate Construction Information

Vehicular gates should be installed in accordance with ASTM F2200: Standard Specification for Automated Vehicular Gate Construction. For a copy, contact ASTM directly at 610-832-9585 or www.astm.org.

1. General Requirements

- 1.1 Gates shall be constructed in accordance with the provisions given for the appropriate gate type listed, refer to ASTM F2200 for additional gate types.
- 1.2 Gates shall be designed, constructed and installed to not fall over more than 45 degrees from the vertical plane, when a gate is detached from the supporting hardware.
- 1.3 Gates shall have smooth bottom edges, with vertical bottom edged protrusions not exceeding 0.50 inches (12.7 mm) when other than the exceptions listed in ASTM F2200.
- 1.4 The minimum height for barbed tape shall not be less than 8 feet (2.44 m) above grade and for barbed wire shall not be less than 6 feet (1.83 m) above grade.
- 1.5 An existing gate latch shall be disabled when a manually operated gate is retrofitted with a powered gate operator.
- 1.6 A gate latch shall not be installed on an automatically operated gate.
- 1.7 Protrusions shall not be permitted on any gate, refer to ASTM F2200 for Exceptions.
- 1.8 Gates shall be designed, constructed and installed such that their movement shall not be initiated by gravity when an automatic operator is disconnected, in accordance with the following.
- 1.8.1 Vehicular horizontal slide gate. Shall not result in continuous, unimpeded movement in either lineal direction of its travel.
- 1.9 For pedestrian access in the vicinity of an automated vehicular gate, a separate pedestrian gate shall be provided. The pedestrian gate shall be installed in a location such that a pedestrian shall not come in contact with a moving vehicular access gate. A pedestrian gate shall not be incorporated into an automated vehicular gate panel.

2. Specific Applications

- 2.1 Any non-automated gate that is to be automated shall be upgraded to conform to the provisions of this specification.
- 2.2 This specification shall not apply to gates generally used for pedestrian access and to vehicular gates not to be automated.
- 2.3 When the gate operator requires replacement, the existing gate shall be upgraded to conform to the provisions of this specification.
- 2.4 When the gate of an automated gate system requires replacement, the new gate shall conform to the provisions of this specification.

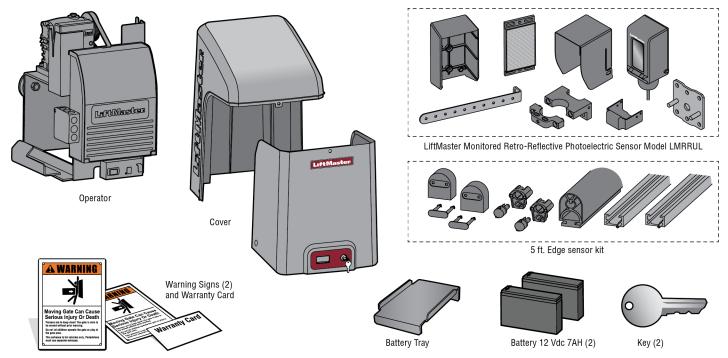
3. Vehicular Horizontal Slide Gates

- 3.1 The following provisions shall apply to Class I, Class II and Class III vehicular horizontal slide gates:
- 3.1.1 All weight bearing exposed rollers 8 feet (2.44 m), or less, above grade shall be guarded or covered.
- 3.1.2 All openings shall be designed, guarded, or screened from the bottom of the gate to the top of the gate or a minimum of 6 ft. (1.83 m) above grade, whichever is less, to prevent a 2 1/4 in. (57 mm) diameter sphere from passing through the openings anywhere in the gate, and in that portion of the adjacent fence that the gate covers in the open position. The gate panel shall include the entire section of the moving gate,including any back frame or counterbalance portion of the gate.
- 3.1.3 A gap, measured in the horizontal plane parallel to the roadway, between a fixed stationary object nearest the roadway, (such as a gate support post) and the gate frame when the gate is in either the fully open position or the fully closed position, shall not exceed 2 1/4 inches (57 mm). Exception: All other fixed stationary objects greater than 16 in. (406 mm) from the gate frame shall not be required to comply with this section.
- 3.1.4 Positive stops shall be required to limit travel to the designed fully open and fully closed positions. These stops shall be installed at either the top of the gate, or at the bottom of the gate where such stops shall horizontally or vertically project no more than is required to perform their intended function.
- 3.1.5 All gates shall be designed with sufficient lateral stability to assure that the gate will enter a receiver guide, refer to ASTM F2200 for panel types.
- 3.2 The following provisions shall apply to Class IV vehicular horizontal slide gates:
- 3.2.1 All weight bearing exposed rollers 8 feet (2.44 m), or less, above grade shall be guarded or covered.
- 3.2.2 Positive stops shall be required to limit travel to the designed fully open and fully closed positions. These stops shall be installed at either the top of the gate, or at the bottom of the gate where such stops shall horizontally or vertically project no more than is required to perform their intended function.

INTRODUCTION

Carton Inventory

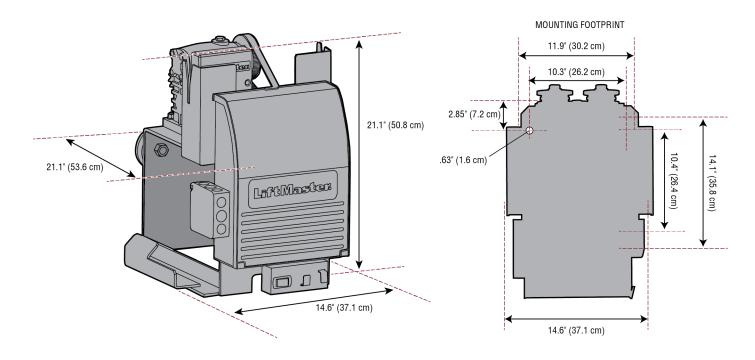
NOT SHOWN: Documentation Packet, Chain #41 - 30 feet, Eye Bolt Kit



INTRODUCTION

Operator Specifications

Usage Classification	Class I, II, III, & IV
Main AC Supply	120 Vac, 4 Amps (10 Amps including Accessory Outlets) OR 240 Vac, 2 Amps When Optional Transformer Kit Model 3PHCONV is installed in the field, operator is rated 208/240/480/575 VAC, 4.8/4.2/2.1/1.7 A, 60 Hz, 1 PH
System Operating Voltage	24 Vdc Transformer Run / Battery Backup
Accessory Power	24 Vdc, 500mA max. for ON + SW (switched)
Solar Power Max	24 Vdc at 60 watts max.
Maximum Gate Weight	1500 lbs. (680.4 kg)
Minimum Gate Travel Distance	4 feet (1.2 m)
Maximum Gate Travel Distance	50 feet (15.24 m)
Maximum Gate Travel Speed	1 foot/second
Maximum Daily Cycle Rate	Continuous
Maximum Duty Cycle	Continuous
Operating Temperature	Without Heater: -20°C to 60°C (-4°F to 140°F) With Optional Heater: -40°C to 60°C (-40°F to 140°F)
Expansion Board	Provided
External Entrapment Protection Device Inputs (non-contact and/or contact)	Main board - up to 2 close entrapment protection devices and 1 open entrapment protection device.
	Expansion board - up to 3 entrapment protection devices configurable to either close or open and up to 4 edge sensors using wireless edge sensor kit model LMWEKITU .



INTRODUCTION

Site Preparation

Check the national and local building codes **BEFORE** installation.

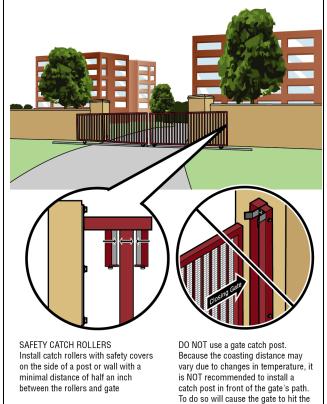
Conduit and Concrete Pad

Trench and install conduit. Before trenching, contact underground utility locating companies. Conduit must be UL approved for low and high voltage. Consider the operator placement BEFORE installing the pad or post.



Gate

Gate must be constructed and installed according to ASTM F2200 standards (refer to page 4). Gate must fit specifications of operator (refer to specifications).



post in certain instances.

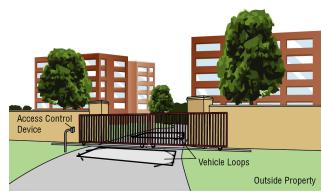
Safety

Entrapment protection devices are required to protect against any entrapment or safety conditions encountered in your gate application. Install a warning sign (two provided) on the inside and outside of the property, where easily visible.



Additional Accessories

The vehicle loops allow the gate to stay open when vehicles are obstructing the gate path. Suggested for vehicles 14 feet (4.27 m) or longer. Vehicle loops are not required but are recommended. Before installing your Access Control Device(s) be sure to complete a site survey and determine the best device for your site needs.

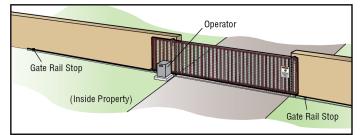


ACAUTION

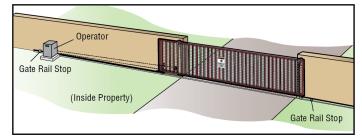
- To AVOID damaging gas, power or other underground utility lines, contact underground utility locating companies BEFORE digging more than 18 inches (46 cm) deep.
- ALWAYS wear protective gloves and eye protection when changing the battery or working around the battery compartment.

Types of Installations

Standard Installation



Rear Installation

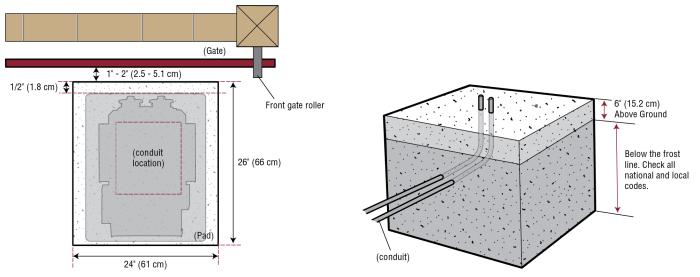


Step 1 Determine Location for Operator

Check the national and local building codes before installation.

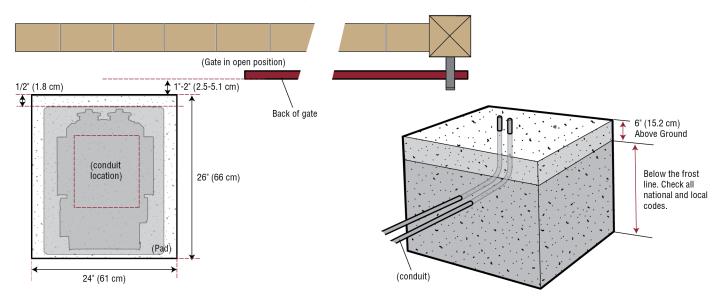
Standard Installation

- 1. The gate operator should be installed near the front roller of the gate. Lay out the concrete pad.
- 2. Install the electrical conduit.
- 3. Pour a concrete pad (reinforced concrete is recommended).



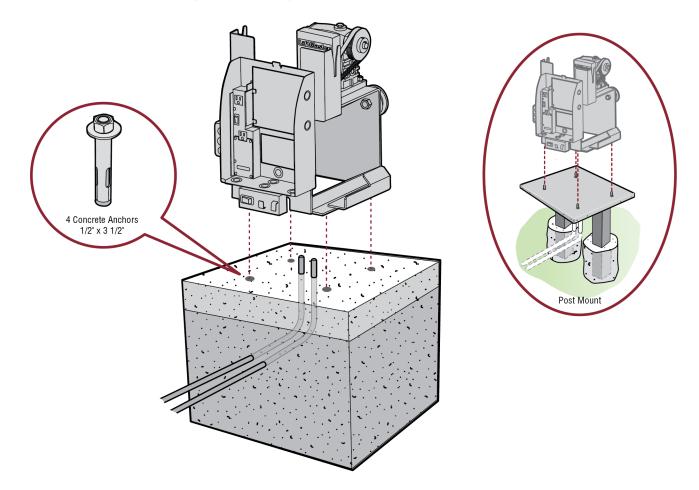
Rear Installation

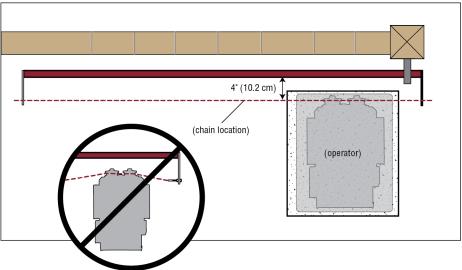
- 1. The gate operator should be installed near the back of the gate in the OPEN position. Lay out the concrete pad.
- 2. Install the electrical conduit.
- 3. Pour a concrete pad (reinforced concrete is recommended).



Step 2 Install the Operator

Attach the operator to the concrete pad with appropriate fasteners. The gate operator should be installed near the front roller of the gate or near the back of the gate (in the OPEN position). The space between the gate and the output sprocket must be a minimum of 4 inches (10.2 cm). *NOTE:* An alternative to a concrete pad is to post mount the operator (refer to Accessories).





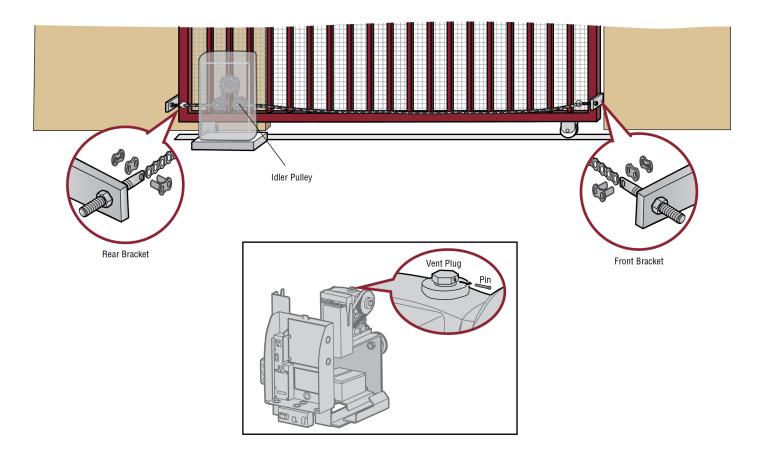
Step 3 Attach the Chain

Standard Installation

DO NOT run the operator until instructed.

- 1. Manually open the gate and line up the front bracket so the chain will be level with the idler pulley and parallel to the ground. Weld the front bracket in this position.
- 2. Manually close the gate and line up the rear bracket so the chain will be level with the idler pulley and parallel to the ground. Weld the rear bracket in this position.
- 3. Route the chain through the operator.
- 4. Connect the chain to the brackets using the eye bolt hardware. Chain should not be too tight or have excessive slack.
- 5. Remove the pin from the vent plug on the gear box.

NOTE: The chain should have no more than 1 inch (2.5 cm) of sag for every 10 feet (3 m) of chain length.



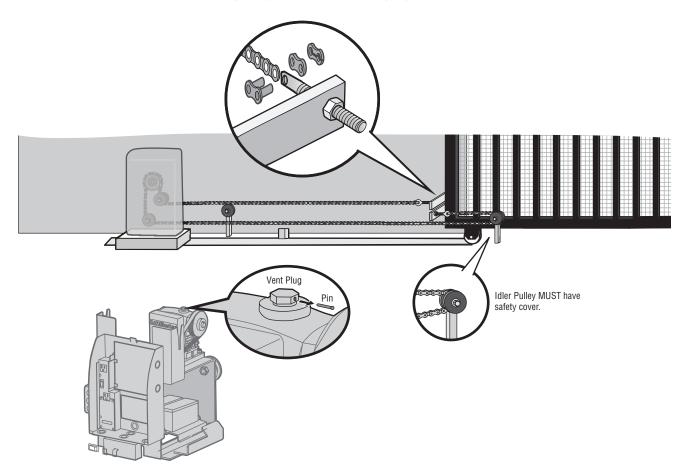
Rear Installation

DO NOT run the operator until instructed.

NOTE: This installation will require two extra idler pulleys. Make sure all exposed pinch points are guarded. Refer to Gate Construction Information on page 4.

- 1. Move the back pulley to the bottom hole in the operator.
- 2. Manually close the gate and align the bottom bracket so the chain will be level with the bottom idler pulley and parallel to the ground. Weld the bottom bracket in this position.
- 3. Align the top bracket so the chain will be level with the top idler pulley and parallel to the ground. Weld the upper bracket in this position.
- 4. Route the chain through the operator.
- 5. Connect the chain to the brackets using the eye bolt hardware. Chain should not be too tight or have excessive slack.
- 6. Remove the pin from the vent plug on the gear box.

NOTE: The chain should have no more than 1 inch (2.5 cm) of sag for every 10 feet (3 m) of chain length.



WARNING

To prevent SERIOUS INJURY or DEATH from a moving gate:

- ALL gate operator systems REQUIRE two independent entrapment protection systems for each entrapment zone.
- Entrapment protection devices MUST be installed to protect anyone who may come near a moving gate.
- Locate entrapment protection devices to protect in BOTH the open and close gate cycles.
- Locate entrapment protection devices to protect between moving gate and RIGID objects, such as posts, walls, pillars, columns, or operator itself.

Step 4 Install Entrapment Protection

Entrapment protection MUST be installed according to the following UL 325 requirements:

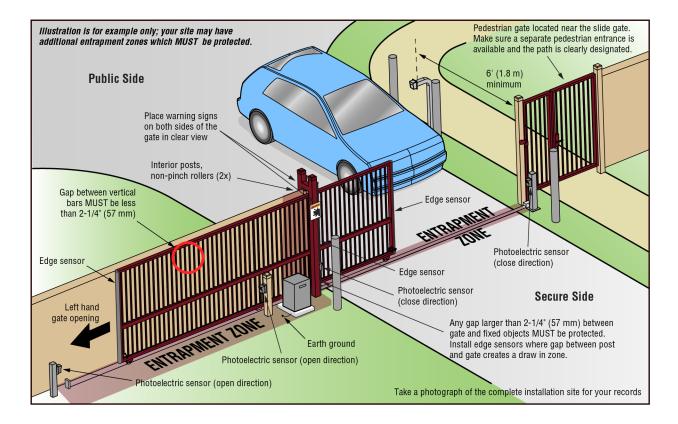
- Slide gate operators require a minimum of two external monitored entrapment protection devices to function; one in the open direction and one in the close direction.
- Every installation is unique. It is the responsibility of the installer to
 ensure that ALL entrapment zones are protected with an external
 monitored entrapment protection device, protecting both the open
 and close gate cycles.
- LiftMaster monitored external entrapment protection devices MUST be used with LiftMaster operators to meet UL325 requirements, see Accessories.
- Test ALL entrapment protection devices after completing installation of the operator. For testing instructions, refer to the manual provided with your entrapment protection device.

Definitions

ENTRAPMENT: The condition when a person is caught or held in a position that increases the risk of injury.

SLIDE GATE ENTRAPMENT ZONE: An entrapment zone exists if at any point during travel, the gap between the gate and any opposing fixed edge or surface such as posts, walls, pillars, columns or operator itself, is less than 16" (406 mm) in a location up to 6 ft. (1.8 m) above grade.

Illustrations provided by DASMA Gate Systems Safety Guide



Wire Entrapment Protection Devices

There are three options for wiring the entrapment protection devices depending on the specific device and how the device will function. Refer to the specific entrapment protection device manual for more information. These entrapment protection device inputs are for monitored devices, which include pulsed photoelectric sensors, resistive edge sensors, and pulsed edge sensors. **Only one** <u>monitored</u> entrapment protection device may be wired to each input. Additional entrapment protection devices may be wired to the expansion board.

Control Board

CLOSES EYES/INTERRUPT

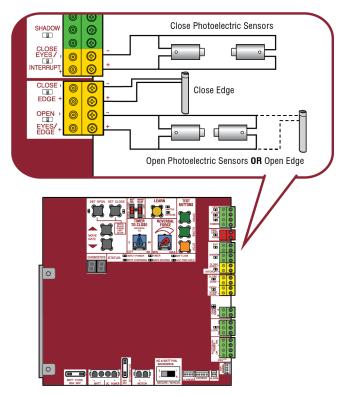
(2 Terminals) The CLOSE EYES/INTERRUPT input is for photoelectric sensor entrapment protection for the close direction. When an obstruction is sensed during gate closing the gate will open to the full open position and resets the Timer-to-Close. This input will be disregarded during gate opening.

CLOSE EDGE

(2 Terminals) The CLOSE EDGE input is for edge sensor entrapment protection for the close direction. When an obstruction is sensed during gate closing the gate will reverse to the full open position, disengaging the Timer-to-Close. This input will be disregarded during gate opening.

OPEN EYES/EDGE

(2 Terminals) The OPEN EYES/EDGE input is for photoelectric sensor or edge sensor entrapment protection for the open direction. When an obstruction is sensed during gate opening the gate will reverse for 4 seconds then stop. This input will be disregarded during gate closing.



Expansion Board

EYE ONLY and COM

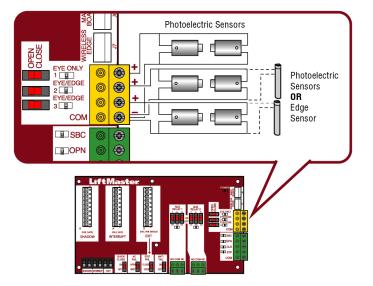
Open or Close Direction Photoelectric Sensors, the functionality is based on the switch settings (located next to the terminals)

Switch set to CLOSE: gate reverses fully when an obstruction is sensed Switch set to OPEN: gate reverses 4 seconds when an obstruction is sensed

EYE/EDGE and COM

Open or Close Direction Photoelectric Sensors or Edge Sensor, the functionality is based on the switch settings (located next to the terminals)

Switch set to CLOSE: gate reverses fully when an obstruction is sensed Switch set to OPEN: gate reverses 4 seconds when an obstruction is sensed

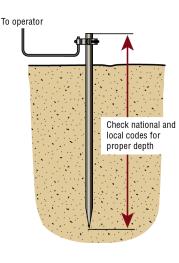


Step 5 Earth Ground Rod

Use the proper earth ground rod for your local area. The ground wire must be a single, whole piece of wire. Never splice two wires for the ground wire. If you should cut the ground wire too short, break it, or destroy its integrity, replace it with a single wire length.

- 1. Install the earth ground rod within 3 feet (.9 m) of the operator.
- 2. Run wire from the earth ground rod to the operator.

NOTE: If the operator is not grounded properly the range of the remote controls will be reduced and the operator will be more susceptible to lightning and surge damage.



Step 6 Power Wiring

A 🖄 WARNING

To reduce the risk of SEVERE INJURY or DEATH:

- ANY maintenance to the operator or in the area near the operator MUST NOT be performed until disconnecting the electrical power (AC or solar and battery) and locking-out the power via the operator power switch. Upon completion of maintenance the area MUST be cleared and secured, at that time the unit may be returned to service.
- Disconnect power at the fuse box BEFORE proceeding. Operator MUST be properly grounded and connected in accordance with national and local electrical codes. *NOTE: The operator should be on a separate fused line of adequate capacity.*
- · ALL electrical connections MUST be made by a qualified individual.
- DO NOT install ANY wiring or attempt to run the operator without consulting the wiring diagram.
- ALL power wiring should be on a dedicated circuit and well protected. The location of the power disconnect should be visible and clearly labeled.
- · ALL power and control wiring MUST be run in separate conduit.

The operator can be wired for either 120 Vac or 240 Vac or a solar panel (not provided). Follow the directions according to your application. An optional Transformer Kit (Model 3PHCONV) can be used to change the input voltage (208/240/480/575 Vac) to an output voltage of 120 Vac (refer to Accessories). For dual gate applications, power will have to be connected to each operator. Main power supply and control wiring MUST be run in separate conduits.

SOLAR APPLICATIONS: For solar applications refer to *Solar Panels* section in the Appendix. Follow the directions according to your application. **NOTE:** If using an external receiver use shielded wire for the connections and mount the receiver away from the operator to avoid interference from the operator.

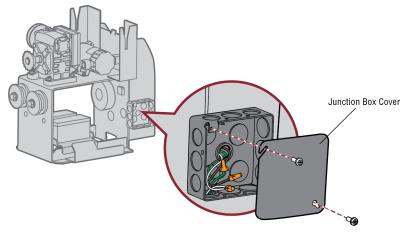
	MAXIMUM WIRE LENGTH										
AMERICAN	S	TANDARD OPERAT	OR	OPERATOR + ACCESSORIES POWERED BY TRANSFORMER KIT							
WIRE GAUGE (AWG)	120 VAC, 10A (includes fully loaded outlets)	120 VAC, 4A	240 VAC, 2A	208 VAC, 4.8A	240 VAC, 4.2A	480 VAC, 2.1A	575 VAC, 1.7A				
14	100 (30.5 m)	250 (76.2 m)	1,000 (304.8 m)	360 (109.7 m)	480 (146.3 m)	1,900 (579.1 m)	2,800 (853.4 m)				
12	160 (48.8 m)	400 (121.9 m)	1,600 (487.7 m)	570 (173.7 m)	750 (228.6 m)	3,000 (914.4 m)	4,500 (1,371.6 m)				
10	250 (76.2 m)	630 (192 m)	2,500 (762 m)	900 (274.3 m)	1,200 (365.8 m)	4,800 (1,463 m)	7,100 (2,164.1 m)				
8	400 (121.9 m)	1,000 (304.8 m)	4,000 (1,219.2 m)	1,400 (426.7 m)	1,900 (579.1 m)	7,600 (2,316.5 m)	11,300 (3,444.2 m)				
6	636 (193.9 m)	1,600 (487.7 m)	6,400 (1950.7 m)	2,300 (701 m)	3,000 (914.4 m)	12,100 (3,688.1 m)	18,000 (5,486.4 m)				
4	1,000 (304.8 m)	2,500 (762 m)	10,100 (3,078.5 m)	3,700 (1,127.8 m)	4,800 (1,463 m)	19,300 (5,882.6 m)	28,500 (8,686.8 m)				
Chart assum	es: copper wire, 65°	°C, 5% drop									

All control wiring used to connect external devices to Class 2 circuits of the operator must be (QPTZ) Power-Limited Circuit Cables, Type CL2, CL2P, CL2R, or CL2X or other cable with equivalent or better electrical, mechanical, and flammability ratings.

240 VAC only

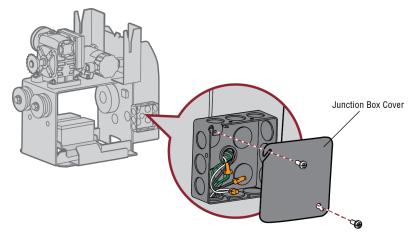
The accessory outlet is disabled and cannot be used with the 240 Vac option.

- 1. Remove the outlet housing from the electrical box by removing the screws (2).
- 2. Pull the outlet housing out and locate the power wiring connector on the EMI board.
- 3. Unplug the power wiring connector from the 120 Vac socket (factory default location) and plug it into the 240 Vac socket.
- 4. Replace the outlet housing by securing with the screws. The operator is now set for 240 Vac operation.



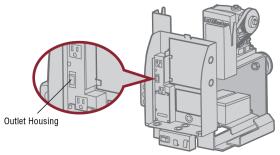
120 VAC and 240 VAC

- 1. Turn off the AC power from the main power source circuit breaker.
- 2. Run the AC power wires to the operator.
- 3. Remove the junction box cover.
- 4. Connect the green wire to the earth ground rod and AC ground using a wire nut. NOTE: The earth ground rod can be grounded to the chassis.
- 5. Connect the white wire to NEUTRAL using a wire nut.
- 6. Connect the black wire to HOT using a wire nut.
- 7. Replace the junction box cover. Ensure the wires are not pinched.



AC power switch

The AC Power switch on the operator will turn the incoming 120/240 Vac power ON or OFF. The operator's AC Power switch ONLY turns off AC power to the control board and DOES NOT turn off battery power.

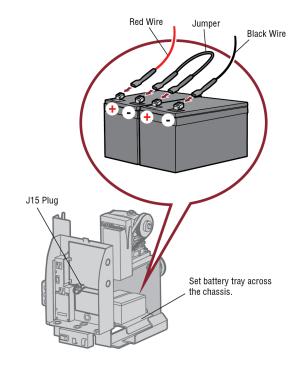


Step 7 Connect Batteries

7AH battery

The batteries are charged in the circuit by the integrated transformer. The batteries are for battery backup.

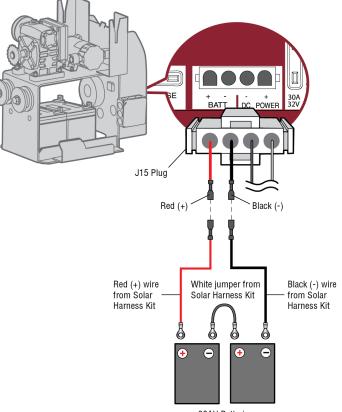
- 1. Turn OFF AC power to the operator.
- Unplug the J15 plug labeled BATT on the control board by squeezing the plug and pulling it from the control board. This disconnects the ac/dc power to the control board.
- 3. Connect a jumper between the positive (+) terminal of one battery to the negative terminal (-) of the other battery.
- 4. Connect the red wire from the J15 plug to the positive (+) terminal of the battery.
- 5. Connect the black wire from the J15 plug to the negative (-) terminal of the battery.
- 6. Plug the J15 plug back into the control board. This will power up the control board. *NOTE:* You may see a small spark when plugging the J15 plug into the board.
- 7. Turn ON AC power to the operator.
- 8. Turn ON the AC power switch on the operator.



33AH battery

The batteries are charged in the circuit by the integrated transformer. The batteries are for battery backup or solar installation. The 33AH application requires the Solar Harness Kit (Model K94-37236) and an additional battery tray (Model K10-34758-2).

- 1. Locate the J15 plug on the control board and disconnect it.
- 2. Connect the white jumper from the Solar Harness Kit between the positive (+) terminal of one battery and the negative (-) terminal of the other battery.
- 3. Connect one end of the red (+) wire from the Solar Harness Kit to the red wire from the J15 plug as shown. Connect the other end of the red (+) wire to the positive (+) terminal on the battery as shown.
- 4. Connect one end of the black (-) wire from the Solar Harness Kit to the black wire from the J15 plug as shown. Connect the other end of the black (-) wire to the negative (-) terminal on the battery as shown.
- 5. Turn ON AC power to the operator.
- 6. Turn ON the AC power switch on the operator.
- 7. Reconnect the J15 plug to the control board. *NOTE:* You may see a small spark when plugging the J15 plug into the board.



33AH Batteries

Step 8 Dual gate setup

There are two options for dual gate communication: wired or wireless. Follow the directions according to your application. Do not use wired and wireless communication simultaneously. Wired dual gate applications will have a longer battery standby time than wireless applications.

Wireless setup

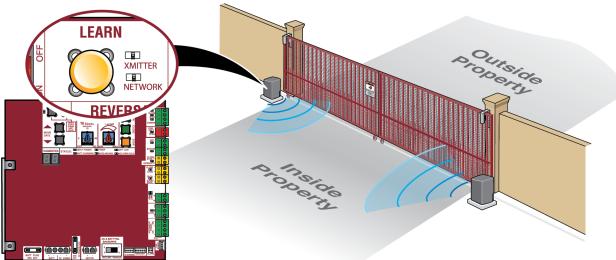
To activate the wireless feature:

- 1. Choose an operator to be the network primary operator. All wireless accessories will need to be programmed to the primary operator. **NOTE:** We recommend that all accessories and board configurations are set on the primary operator.
- 2. Press and release the LEARN button on the primary operator. The green XMITTER LED will light. *NOTE:* The operator will time out of programming mode after 180 seconds.
- 3. Press and release the LEARN button again on the primary operator. The yellow NETWORK LED will light.
- 4. Press and release the OPEN test button to assign this operator as network primary.
- 5. Press and release the LEARN button on the second operator. The green XMITTER LED will light.
- 6. Press and release the LEARN button again on the second operator. The yellow NETWORK LED will light.
- 7. Press and release the CLOSE test button to assign this operator as network second.

Both operators will beep and the yellow NETWORK LEDs will turn off indicating programming is successful.

To deactivate the wireless feature:

- 1. Press and release the LEARN button on either operator. The green XMITTER LED will light.
- 2. Press and release the LEARN button again on the same operator. The yellow NETWORK LED will light.
- 3. Press and hold the LEARN button for 5 seconds. The yellow NETWORK LED will blink (operator will beep) then turn off indicating successful deactivation.
- 4. Repeat the steps for the other operator.



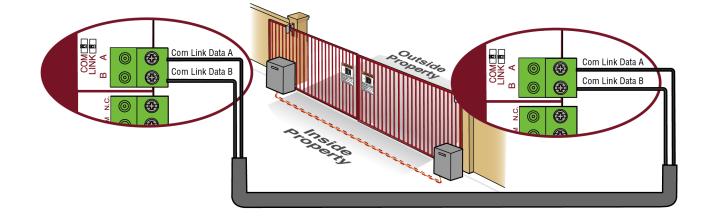
Wired setup

Before digging, contact local underground utility locating companies. Use PVC conduit to prevent damage to cables.

- 1. Disconnect ALL power to the operator and unplug the J15 plug from the control board.
- 2. Trench across driveway to bury the shielded twisted pair cable.
- 3. Connect the wires from the shielded twisted pair cable to the Com Link terminals on the primary gate operator control board. *NOTE: We recommend that all accessories and board configurations are set on the primary operator.*
- 4. Route the shielded twisted pair cable to the secondary gate operator's control board.
- Connect the wires from the shielded twisted pair cable to the Com Link terminals on the secondary control board (Com Link A to Com Link A and Com Link B to Com Link B). Ground the shield of the cable to the chassis ground of one operator.
- 6. Connect ALL power to the operator and plug the J15 plug into the control board.

DUAL GATE WIRE TYPE (SHIELDED TWISTED PAIR CABLE)

22AWG up to 200 feet (61 m) 18AWG - 200-1000 feet (61-305 m) Wire must be rated at 30 Volt minimum



Bipart delay/synchronized close

The LOCK/BIPART DELAY switch is used only with dual gate applications and serves two functions:

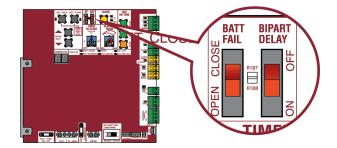
BIPART DELAY

SWING GATE APPLICATIONS: The BIPART DELAY is used in applications where a mag-lock, solenoid lock, or decorative overlay would require one gate to close before the other. The operator with the LOCK/BIPART DELAY switch ON will delay from the close limit when opening and be the first to close from the open limit.

SLIDE GATE APPLICATIONS: Not applicable, set to OFF.

SYNCHRONIZED CLOSE

The BIPART DELAY is also used in applications where one gate travels a longer distance than the other. To synchronize the closing of the gates, set the LOCK/BIPART DELAY switch to ON for both operators.

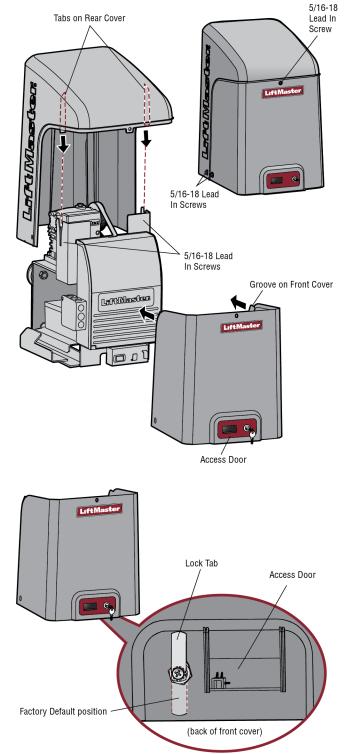


Step 9 Install the cover

Before installing the cover, follow the instructions in the Adjustment section to adjust the limits and force.

The operator cover consists of two pieces: a rear cover and a front cover. The front cover can easily be removed to access the electrical box. To access the reset switch slide the access door up. The front cover and access door can be locked with the key.

- 1. Align the tabs on the rear cover with the slots on the chassis and place the cover over the operator.
- 2. Secure both sides of the rear cover to the chassis with two 5/16-18 lead in screws.
- 3. Align the front cover with the back cover, making sure the grooves line up.
- 4. Secure the front cover to the chassis with two 5/16-18 lead in screws.
- 5. Secure the front cover to the rear cover using the 5/16-18 lead in screw.



To Lock the Access Door

From the factory the access door for the reset switch will not be locked. To lock the access door follow the steps below:

- 1. Locate the lock tab on the back of the front cover and remove the screw securing the tab to the cover.
- 2. Turn the tab 180 degrees, then secure with the screw. The access door can now be locked.

The basic installation is complete.

ADJUSTMENT

Limit and Force Adjustment

WARNING

To reduce the risk of SEVERE INJURY or DEATH:

- Without a properly installed safety reversal system, persons (particularly small children) could be SERIOUSLY INJURED or KILLED by a moving gate.
- Too much force on gate will interfere with proper operation of safety reversal system.
- NEVER increase force beyond minimum amount required to move gate.

Introduction

Your operator is designed with electronic controls to make travel limit and force adjustments easy. The adjustments allow you to program where the gate will stop in the open and close position. The electronic controls sense the amount of force required to open and close the gate. The force is adjusted automatically when you program the limits but should be fine tuned using the REVERSAL FORCE dial on the control board (refer to *Fine Tune the Force* section) to compensate for environmental changes. The limit setup LEDs (located next to the SET OPEN and SET CLOSE buttons) indicate the status of the limits, refer to the table to the right.

The limits can be set using the control board (below) or a remote control (refer to *Limit Setup with a Remote Control* in the Appendix). Setting the limits with a remote control requires a 3-button remote control programmed to OPEN, CLOSE, and STOP.

NOTE: The TEST buttons on the control board will not work until the limits have been set and the required entrapment protection devices are installed.

Initial Limits and Force Adjustment

For dual gate applications the limits will have to be set for each operator. The gate MUST be attached to the operator before setting the limits and force.

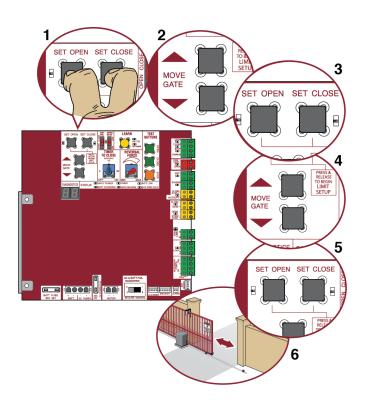
For slide gate applications the open limit and closed limit MUST be set at least four feet apart.

- 1. Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
- 2. Press and hold one of the MOVE GATE buttons to move the gate to the open or close limit.
- 3. Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
- 4. Press and hold one of the MOVE GATE button to move the gate to the other limit.
- 5. Press and release the SET CLOSE or SET OPEN button depending on which limit is being set.
- 6. Cycle the gate open and close. This automatically sets the force.

When limits are set properly the operator will automatically exit limit setting mode.

- NEVER use force adjustments to compensate for a binding or sticking gate.
- If one control (force or travel limits) is adjusted, the other control may also need adjustment.
- After ANY adjustments are made, the safety reversal system MUST be tested. Gate MUST reverse on contact with an object.

	LIMIT SETUP LEDS								
SET OPEN LED	SET Close Led	OPERATOR Mode	EXPLANATION						
OFF	OFF	NORMAL MODE	Limits are set						
BLINKING	BLINKING	LIMIT SETTING MODE	Limits are not set						
BLINKING	ON	LIMIT SETTING MODE	Open limit is not set						
ON	BLINKING	LIMIT SETTING MODE	Close limit is not set						
ON	ON	LIMIT SETTING MODE	Limits are set						



ADJUSTMENT

Fine Tune the Force

Once the initial limits have been set, the REVERSAL FORCE DIAL on the control board is used for fine tuning the force where wind or environmental changes may affect the gate travel. The REVERSAL FORCE DIAL is set to minimum at the factory.

Based on the length and weight of the gate it may be necessary to make additional force adjustments. The force setting should be high enough that the gate will not reverse by itself nor cause nuisance interruptions, but low enough to prevent serious injury to a person. The force setting is the same for both the open and close gate directions.

- 1. Open and close the gate with the TEST BUTTONS.
- If the gate stops or reverses before reaching the fully open or closed position, increase the force by turning the force control slightly clockwise.
- 3. Perform the "Obstruction Test" after every limit and force setting adjustment (see below).

Adjust the Limits

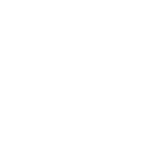
After both limits are set and the operator is ready to run, one limit can be adjusted independently from the other by following steps 1-3 of the Initial Limit and Force Adjustment section.

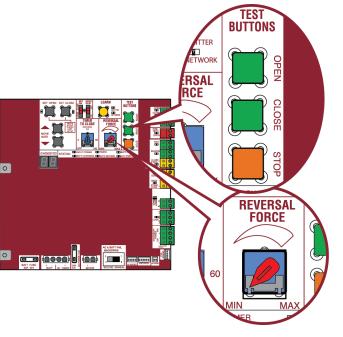
Obstruction Test

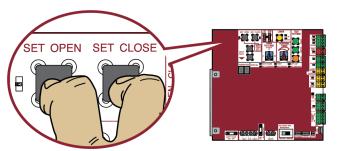
The operator is equipped with an inherent (built in to the operator) obstruction sensing device. If the gate encounters an obstruction during motion, the operator will reverse direction of the gate and then stop. The following procedure will test ONLY the inherent (built in to the operator) obstruction sensing device:

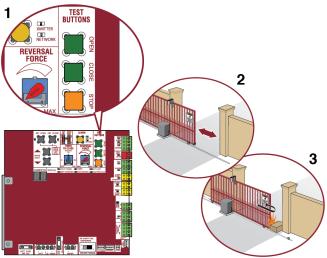
- 1. Open and close the gate with the TEST BUTTONS, ensuring that the gate is stopping at the proper open and close limit positions.
- Place an object between the open gate and a rigid structure. Make sure that any external entrapment protection devices will NOT be activated by the object.
- Run the gate in the close direction. The gate should stop and reverse upon contact with the object. If the gate does not reverse off the object, reduce the force setting by turning the force control slightly counter-clockwise. The gate should have enough force to reach both the open and close limits, but MUST reverse after contact with an object.
- 4. Repeat the test for the open direction.

Test the operator after any adjustments are made.





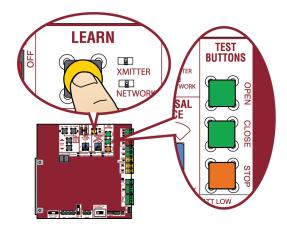




PROGRAMMING

Remote Controls (Not Provided)

A total of 50 Security+ 2.0[®] remote controls or KPW250 keypads and 2 keyless entries (1 PIN for each keyless entry) can be programmed to the operator. When programming a third keyless entry to the operator, the first keyless entry will be erased to allow the third keyless entry to be programmed. When the operator's memory is full it will exit the programming mode and the remote control will not be programmed. The memory will need to be erased before programming any additional remote controls. **NOTE:** *If installing an 86LM to extend the range of the remote controls DO NOT straighten the antenna.*



There are 3 different options for programming the remote control depending on how you would like the remote control to function. Choose a programming option:

OPTION DESCRIPTION		PROGRAMMING STEPS		
Single button as OPEN only	Program a single button on the remote control for open only. The Timer-to-Close can be set to close the gate.	 Press and release the LEARN button (operator will beep and green XMITTER LED will light). <i>NOTE:</i> The operator will time out of programming mode after 30 seconds. 		
		2. Press the OPEN button.		
		3. Press the remote control button that you would like to program.		
Single button (SBC) as OPEN, CLOSE, and STOP	Program one remote control button as an open, close, and stop.	 Press and release the LEARN button (operator will beep and green XMITTER LED will light). NOTE: The operator will time out of programming mode after 30 seconds. 		
		2. Press the remote control button that you would like to program.		
Three separate buttons as OPEN, CLOSE, and STOP	Program each remote control button as an open, close, and stop.	 Press and release the LEARN button (operator will beep and green XMITTER LED will light). <i>NOTE: The operator will time out of</i> <i>programming mode after 30 seconds.</i> Press the OPEN, CLOSE, or STOP button, depending on the desired function. 		
		3. Press the remote control button that you would like to program.		

The operator will automatically exit learn mode (operator will beep and green XMITTER LED will go out) if programming is successful. To program additional Security+ 2.0[®] remote controls or remote control buttons, repeat the programming steps above.

Entering programming mode using external reset button or 3-button control station:

- 1. Make sure gate/door is closed.
- 2. Give the operator an OPEN command.
- 3. Within 30 seconds, when the gate/door is at the open limit press and release the RESET/STOP button twice to put the operator into programming mode. *NOTE:* The operator will time out of programming mode after 30 seconds.

NOTICE: This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device must be installed to ensure a minimum 20 cm (8 in.) distance is maintained between users/bystanders and device.

- Reorient or relocate the receiving antenna.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules and Industry Canada ICES standard. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

⁻ Increase the separation between the equipment and receiver.

⁻ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

⁻ Consult the dealer or an experienced radio/TV technician for help.

LiftMaster Internet Gateway (not provided)

To program the operator to the LiftMaster Internet Gateway:

Using the learn button on the opertaor's control board

- 1. Connect the ethernet cable to the LiftMaster Internet Gateway and the router.
- 2. Connect power to the LiftMaster Internet Gateway.
- 3. Create an online account by visiting www.myliftmaster.com.
- 4. Register the LiftMaster Internet Gateway.
- 5. Use an internet enabled computer or smartphone to add devices. The LiftMaster Internet Gateway will stay in learn mode for three minutes.
- 6. Press the Learn button twice on the primary operator (the operator will beep as it enters learn mode). The LiftMaster Internet Gateway will pair to the operator if it is within range and the operator will beep if programming is successful.

Using the reset button on the operator

- 1. Connect the ethernet cable to the LiftMaster Internet Gateway and the router.
- 2. Connect power to the LiftMaster Internet Gateway.
- 3. Create an online account by visiting www.myliftmaster.com.
- 4. Register the LiftMaster Internet Gateway.
- 5. Use an internet enabled computer or smartphone to add devices. The LiftMaster Internet Gateway will stay in learn mode for three minutes.
- 6. Ensure gate is closed.
- 7. Give the operator an OPEN command.
- 8. Within 30 seconds, when the gate is at the open limit press and release the reset button 3 times (on primary gate) to put primary operator into High Band Learn Mode (the operator will beep as it enters learn mode). The LiftMaster Internet Gateway will pair to the operator if it is within range and the operator will beep if programming is successful.

The status as shown by the LiftMaster Internet Gateway app will be either "open" or "closed". The gate operator can then be controlled through the LiftMaster Internet Gateway app.

Erase All Codes

- 1. Press and release the LEARN button (operator will beep and green XMITTER LED will light).
- Press and hold the LEARN button again until the green XMITTER LED flashes and then release the button (approximately 6 seconds). All remote control codes are now erased.

Erase Limits

- 1. To erase the limits, press and hold the SET OPEN and SET CLOSE buttons simultaneously (5 seconds) until both the SET OPEN and SET CLOSE LEDs blink rapidly and the operator beeps.
- 2. Release the buttons and the SET OPEN and SET CLOSE LEDs will blink slowly indicating the limits will need to be set.

Constant Pressure Override (CPO)

Constant Pressure Override is for use with KPW5 and KPW250 keypads (not provided). The KPW5/KPW250 wireless commercial keypads are security keypads and can only be programmed to ONE gate operator (see the KPW5/KPW250 manual for complete programming instructions).

The Constant Pressure Override feature is intended to temporarily override a fault in the entrapment protection system, in order to operate the gate until the external entrapment protection device is realigned or repaired. Use the feature only in line of sight of the gate when no obstructions to travel are present. External entrapment protection devices include LiftMaster monitored photoelectric sensors and LiftMaster monitored wired and wireless edge sensors. Be sure to repair or replace these devices promptly if they are not working properly.

To use Constant Pressure Override:

- 1. Enter a valid 4-digit PIN.
- Press and hold # for 5 seconds to enter CPO. Continue to hold # to keep the operator in motion. A continuous tone will sound until limit is met and/or # is released.
- 3. The operator will stop when either the operator reaches a limit or the user releases #.

Gate Hold Open Feature

The gate hold open feature will disable the timer and keep the gate at the open limit. The gate hold open feature can be activated through the Reset Button as described on Page 29 or through the KPW5 and KPW250 keypads (not provided).

To use the gate hold open feature:

- 1. Enter a valid 4-digit PIN when the gate is at the Open Limit and the timer is running
- 2. The Operator will chirp indicating the timer is canceled.

To restart the gate:

- 1. Re-enter the 4-digit PIN
- 2. Activate a Hard input or a programmed remote

To Remove and Erase Monitored Entrapment Protection Devices

- 1. Remove the entrapment protection device wires from the terminal block.
- Press and release the SET OPEN and SET CLOSE buttons simultaneously. The SET OPEN and SET CLOSE LEDs will turn on (entering learn limit mode).
- Press and release both SET OPEN and SET CLOSE buttons again to turn off the SET OPEN and SET CLOSE LEDs (exiting learn limit mode).

OPERATION

Gate operator setup examples

The following are example setups for the gate operator. Your specific site requirements may be different. Always setup the operator system to the site requirements, including all necessary entrapment protection devices.

RESIDENTIAL: One to four residential homes sharing a gated entrance/exit, allowing vehicle access trumps security concerns

COMMERCIAL/GENERAL ACCESS: A residential community (more than four homes) having one or more gated entrances/exits, allowing vehicle access trumps security concerns

COMMERCIAL: Business site where security (gate closed) is important

INDUSTRIAL: Large business site where security is required

SETTING	RESIDENTIAL	COMMERCIAL/GENERAL Access	COMMERCIAL	INDUSTRIAL
Quick Close switch setting	Normally set to OFF. Normal gate close (timer or control).	Normally set to OFF. Normal gate close (timer or control).	Normally set to OFF. Normal gate close (timer or control).	Set to ON, so that gate closes immediately after vehicle passes CLOSE EYES/Interrupt loop.
AC Fail Open switch setting	Normally set to BATT. Run on battery if AC power fails.	Normally set to BATT. For local jurisdiction requirement, set to OPEN so that the gate will open approximately 15 seconds after AC power fail.	Normally set to BATT. Run on battery if AC power fails.	Normally set to BATT. Run on battery if AC power fails.
Low Battery switch setting	Normally set to OPEN. If powered from battery and battery is low, gate automatically opens and stays open.	Normally set to OPEN. If powered from battery and battery is low, gate automatically opens and stays open.	Normally set to CLOSE. If powered from battery and battery is low, gate stays closed.	Normally set to CLOSE. If powered from battery and battery is low, gate stays closed.
Anti-Tail switch setting	Normally set to OFF. CLOSE EYES/Interrupt loop reverses a closing gate.	Normally set to OFF. CLOSE EYES/Interrupt loop reverses a closing gate.	Set to ON. In attempt to prevent vehicle tail-gating, CLOSE EYES/ Interrupt loop pauses a closing gate.	Set to ON. In attempt to prevent vehicle tail-gating, CLOSE EYES/ Interrupt loop pauses a closing gate.
Bipart Delay switch setting	For DUAL-GATE site, set to ON for gate that delays upon opening.	For DUAL-GATE site, set to ON for gate that delays upon opening.	For DUAL-GATE site, set to ON for gate that delays upon opening.	For DUAL-GATE site, set to ON for gate that delays upon opening.
Aux Relay Out – Open Limit Switch	Typically not required.	Use with SAMS (Sequence Access Management System).	 Use with SAMS (Sequence Access Management System). Connect "Gate Open" indicator (e.g. light). 	 Use with SAMS (Sequence Access Management System). Connect "Gate Open" indicator (e.g. light).
Aux Relay Out – Close Limit Switch	Typically not required.	Typically not required.	Connect "Gate Close/Secure" indicator (e.g. light).	Connect "Gate Close/Secure" indicator (e.g. light).
Aux Relay Out – Gate Motion	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).
Aux Relay Out – Pre- Motion Delay	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).	Attach alert signal (audible or visual alert system).
Aux Relay Out – Power	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).	Attach visual alert to know when system is charging batteries (i.e. not running on batteries).
Aux Relay Out – Tamper (Slide Gates Only)	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.	Attach alert signal (audible or visual alert system) to indicate if gate is manually tampered with by being pushed off of close limit.
Cycle Quantity Feedback	Use during servicing only to determine operator cycles.	Use during servicing only to determine operator cycles.	Use during servicing only to determine operator cycles.	Use during servicing only to determine operator cycles.
Fire Dept Open Input	Typically not required.	Connect emergency access system (Knox box switch, SOS system, etc.).	Typically not required.	Typically not required.
Heater Accessory (Model HTR)	The heater keeps the gearbox and batteries at a suitable temperature when the outside temperature is below -4°F. The thermostat MUST be set between 45°F and 60°F to ensure proper gate operation.	The heater keeps the gearbox and batteries at a suitable temperature when the outside temperature is below -4°F. The thermostat MUST be set between 45°F and 60°F to ensure proper gate operation.	The heater keeps the gearbox and batteries at a suitable temperature when the outside temperature is below -4°F. The thermostat MUST be set between 45°F and 60°F to ensure proper gate operation.	The heater keeps the gearbox and batteries at a suitable temperature when the outside temperature is below -4°F. The thermostat MUST be set between 45°F and 60°F to ensure proper gate operation.

OPERATION

Control Board Overview

1 SET OPEN Button: The SET OPEN button sets the OPEN limit. See Adjust Limits section.

2 SET CLOSE Button: The SET CLOSE button sets the CLOSE limit. See Adjust Limits section.

3 MOVE GATE Buttons: The MOVE GATE buttons will either open or close the gate when the operator is in Limit setting mode. See Adjust Limits section. 4 BATT FAIL:

- When AC power is OFF and battery voltage is critically low the gate will latch at a limit until AC power is restored or batteries voltage increases.
- Option select switch set to OPEN forces gate to automatically open and then latch at the OPEN limit until AC power is restored or battery voltage increases.
- Option select switch set to CLOSE forces gate to latch at CLOSE limit if at CLOSE limit or on next CLOSE command until AC power restored or battery voltage increases.
- Constant pressure on a hard command input overrides to open or close the gate.
- Critically low battery is less than 23 V

5 BIPART DELAY Switch: The LOCK/BIPART DELAY switch is used only for dual gates. See Bipart Delay section.

6 LEARN Button: The LEARN button is for programming remote controls and the network.

7 TIMER-TO-CLOSE dial: The TIMER-TO-CLOSE (TTC) dial can be set to automatically close the gate after a specified time period. The TTC is factory set to OFF. If the TTC is set to the OFF position, then the gate will remain open until the operator receives another command from a control. Rotate the TIMER-TO-CLOSE dial to the desired setting. The range is 0 to 180 seconds, 0 seconds is OFF. *NOTE:* Any radio command, single button control, or CLOSE command on the control board prior to the TTC expiring will close the gate. The TTC is reset by any signals from the open controls, loops, close edges, and close photoelectric sensors (IR's).

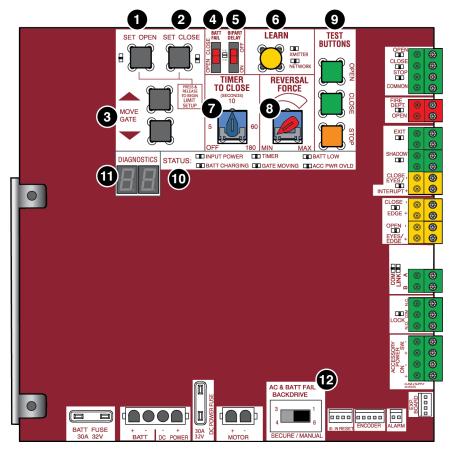
8 REVERSAL FORCE dial: The REVERSAL FORCE dial fine tunes the force. See *Force Adjustment* section.

9 TEST BUTTONS: The TEST BUTTONS will operate the gate (OPEN, STOP and CLOSE).

10 STATUS LEDs: The STATUS LEDs indicate the status of the operator. See Status LED Chart in the Troubleshooting section.

11 DIAGNOSTICS Display: The diagnostics display will show the operator type, firmware version, and codes. The operator type will display as "SL" followed by a "24" which indicates the operator type as CSL24UL. The firmware version will show after the operator type, example "1.2".

12 BACKDRIVE Switch: Set to MANUAL will allow the gate to be manually pushed open or closed if there is a loss of AC and battery power. Set to SECURE makes the gate difficult to push open or closed if there is a loss of AC and battery power.



OPERATION

Manual Disconnect

Press the reset switch to RESET/DISCONNECT. Release the handle on the operator arm to allow the gate to be opened and closed manually. On a dual gate application the handle must be released on both operators. To resume normal function tighten the handle by pushing it down.

Reset Switch

The reset switch is located on the front of the operator and serves several functions.

Toggling the reset switch will stop a moving gate during a normal open/ close cycle, like a stop button. The operator does not need to be reset after doing this. The reset switch will disable the gate in the present position and will energize the solenoid lock for two minutes and disable the maglock for two minutes.

Normal operation

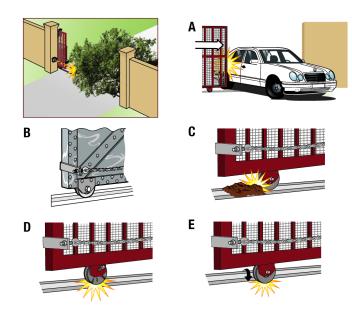
Operator Alarm

If a contact sensor detects an obstruction twice consecutively the alarm will sound (up to 5 minutes) and the operator will need to be reset. When the inherent force of the operator (RPM/current sensor) detects the following (twice consecutively) the alarm will sound (up to 5 minutes) and the operator will need to be reset.

- A. The gate is hitting a wall or vehicle.
- B. The gate does not meet specifications.
- C. Debris is on the gate's track such as mud, rocks, dirt, etc.
- D. The gate has one or more broken axles or wheels.
- E. The gate wheel is off the gate rail.

Remove any obstructions. Press the reset button to shut off the alarm and reset the operator. After the operator is reset, normal functions will resume.

The operator alarm will beep 3 times with a command if the battery is low.



Remote control

Single Button Control (SBC) Functionality

Once the remote control has been programmed the operator will operate as follows:

When gate is in the closed position, activation of the remote control button will open the gate. During the open cycle another activation of the remote control will stop the gate and the next activation of the remote control will close the gate.

When the gate is in the open position, activation of the remote control button will close the gate. If the remote control is activated while the gate is closing, the gate will stop and the next activation will open the gate.

ACCESSORY WIRING

All control wiring used to connect external devices to Class 2 circuits of the operator must be (QPTZ) Power-Limited Circuit Cables, Type CL2, CL2P, CL2R, or CL2X or other cable with equivalent or better electrical, mechanical, and flammability ratings.

External control devices

EXIT (2 Terminals)

This input is a soft open command (maintained switch does not override external safeties and does not reset alarm condition). Used for exit probe, telephone entry, external exit loop detector, or any device that would command the gate to open.

 Opens a closing gate and holds open an open gate, if maintained, pauses Timer-to-Close at OPEN limit.

SHADOW (2 Terminals)

This input is used for external shadow loop detector when loop is positioned under the swing of the gate.

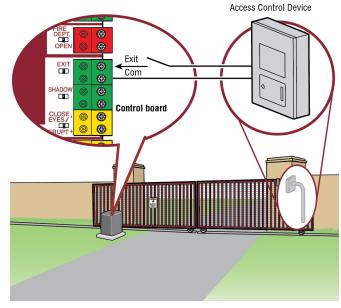
- Holds open gate at open limit
- Only active when the gate is at the OPEN limit, disregarded at all other times
- Pauses Timer-to-Close at OPEN limit

INTERRUPT (2 Terminals)

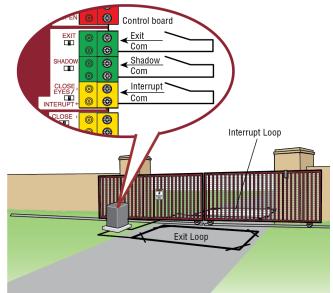
This input is used for photoelectric sensors and external interrupt loop detector when loop is on the outside of the gate.

- Holds open gate at open limit
- · Stops and reverses a closing gate to open limit
- Pauses Timer-to-Close at OPEN limit, activates quick close and antitailgate features when enabled on the expansion board

Access control device wiring



Loop wiring



ACCESSORY WIRING

Locks

Maglock (2 Terminals, N.C. and COM)

Relay contact output, Normally - closed (N.C.) output for maglocks. Relay activates prior to motor activation and during motor run. Relay is off when motor is off.



Three button control station (4 Terminals)

- OPEN and COM: Opens a closed gate. Hard open (maintained switch overrides external safeties and resets alarm condition). If maintained, pauses Timer-to-Close at OPEN limit. Opens a closing gate and holds open an open gate (within line-of-sight).
- CLOSE and COM: Closes an open gate. Hard close (maintained switch overrides external safeties and resets alarm condition within line-of-sight)
- STOP and COM: Stops a moving gate. Hard stop (maintained switch overrides Open and Close commands and resets alarm condition). If maintained, pauses Timer-to-Close at OPEN limit. Overrides Open and Close commands (within line-of-sight).

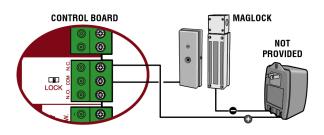
Fire department open input (2 Terminals)

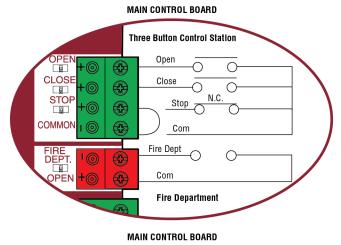
Acts as hard open.

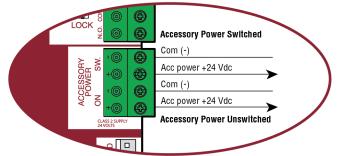
Maintained input overrides (ignores) external safeties (photoelectric sensor and edge), pauses Timer-to-Close momentary input logic as single button control and safeties remain active, re-enables Timer-to-Close.

Accessory power 24 VDC, MAX 500 mA (4 Terminals)

- SWITCHED: Switched ON with gate motion and at the open limit when Timer-to-Close is active. Turns off 5 seconds after motion.
- UNSWITCHED: 24 Vdc voltage out to power accessories, always ON.







EXPANSION BOARD

ACAUTION

• To AVOID damaging the circuit board, relays or accessories, DO NOT connect more than 42 Vdc (32 Vac) to the AUX relay contact terminal blocks.

Expansion board overview

1. QUICK CLOSE switch:

OFF: No change to the gate's normal operation.

ON: When CLOSE EYES/Interrupt loop is deactivated it causes an opening or a stopped gate to close (ignores the Timer-to-Close).

2. AC FAIL switch:

OPEN: Loss of AC power will cause the gate to open approximately 15 seconds after AC power fail and remain OPEN until AC power is restored (enabling the Timer-to-Close).

BATT: With loss of AC power, gate will remain in present position and operator is powered from batteries.

3. EXIT FAIL switch:

When set to OPEN, if the EXIT plug-in loop detector (Model LOOPDETLM) detects a fault, then the gate will open and remain open until fault is cleared. When set to CLOSE, then plug-in EXIT loop detector faults are ignored (EXIT loop is faulted and inoperative).

4. ANTI-TAIL switch:

OFF: When CLOSE EYES/Interrupt loop is activated it causes a closing gate to stop and reverse.

ON: When CLOSE EYES/Interrupt loop is activated it causes a closing gate to pause. Once the vehicle is clear the gate will continue to close.

5. AUX RELAY switches:

Set the AUX RELAY switches as needed to obtain the desired function as shown on the following page.

6. EYE/EDGE switches:

Set the EYE/EDGE switches as needed to obtain the desired OPEN or CLOSE functionality.

7. 1, 2, and 3 LEDs:

LEDs indicating the status of the EYE/EDGE inputs. Also used to check the firmware version of the expansion board:

- 1. Locate the 1, 2, and 3 LEDs on the expansion board.
- 2. Disconnect AC/DC power to the main control board for 15 seconds.
- 3. Connect power. The 1, 2, and 3 LEDs will flash in sequence until the main control board firmware revision is displayed. When the green POWER LED glows solid the LED 1 will flash the version number, then stop, then the LED 2 will flash the revision number (for example: For version 5.1 when the green POWER LED is solid the LED 1 will flash 5 times, then stop, then the LED 2 will flash once).

8. MAIN BOARD input:

Input Connection for the main board connector.

9. Input LEDs:

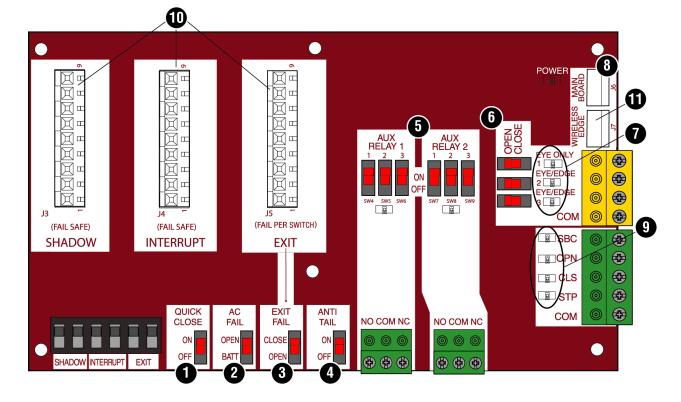
LEDs indicating the status of the SBC, OPN, CLS, and STP inputs.

10. Loop detector inputs:

Inputs for the Plug-In Loop Detectors (Model LOOPDETLM)

11. Wireless edge input:

Input for the Wireless Edge Kit (Model LMWEKITU)



EXPANSION BOARD

Auxiliary relay 1 and 2

Normally Open (N.O.) and Normally Closed (N.C.) relay contacts to control external devices, for connection of Class 2, low voltage (42 Vdc [34 Vac] max 5 Amps) power sources only. Function of relay contact activation determined by switch settings.

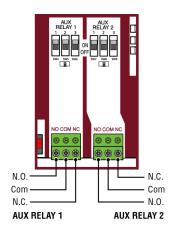
AUX RELAY	SWIT	CH SET	TINGS		
SETTING	1	2	3	AUX RELAY 1	AUX RELAY 2
Off (no feature selected)	OFF	OFF	OFF	Relay always off. Use this Aux Relay setting to conserve battery power.	
Open Limit Switch	OFF	OFF	ON	Energizes at open limit. Use with SAMS (Sequenced gate).	Access Management System, jointly with barrier
Close Limit Switch	OFF	ON	OFF	Energizes when not at close limit. For an additional a voltage).	udible or visual display, connect an external light (low
Gate Motion	OFF	ON	ON	Energizes when motor is on (gate in motion). For an external buzzer or light (low voltage).	additional audible or visual display, connect an
Pre-Motion Delay	ON	OFF	OFF	Energizes 3 seconds before gate motion and remains energized during gate motion. The onboard alarm will sound. For an additional audible or visual display, connect an external buzzer or light (low voltage).	Energizes 3 seconds before gate motion and remains energized during gate motion. For an additional audible or visual display, connect an external buzzer or light (low voltage).
Power	ON	ON	OFF	Energizes when AC power or solar power is present. There is approximately a 10-12 second delay before relay cutoff, after AC shutdown.	Energizes when on battery power. There is approximately a 10-12 second delay before relay cutoff, after AC shutdown.
Tamper	ON	OFF	ON	Energizes if gate is manually tampered with by being pushed off of close limit. For an additional audible visual display, connect an external buzzer or light (low voltage).	
Cycle Quantity Feedback*	ON	ON	ON	The 1, 2, and 3 LEDs will blink out the cycle count (cycle count is stored on the control board). See below.	Red/green light functionality, see below.

* Cycle count

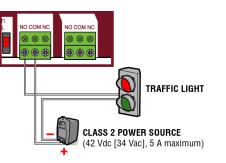
First, note the current Aux Relay switch positions. To determine the actual cycles that the gate operator has run (in thousands), set all three Aux Relay switches to the ON setting for Aux Relay 1. The Expansion Board's 1, 2, and 3 LEDs will blink out the cycle count, with 1 LED blinking 1000's, 2 LED blinking 10,000's, 3 LED blinking 100,000's, and simultaneously all three LED's blink 1,000,000's (e.g. 1 LED blinks 3 times, 2 LED blinks 6 times, and 3 LED blinks once. Cycle count is 163,000.). Cycle count displayed is between 1,000 and 9,999,000 cycles. After servicing, set Aux Relay switches back to their appropriate positions. Cycle count cannot be reset or changed. If under 1,000 cycles the 1, 2, and 3 LEDs will turn on for 10 seconds, then turn off.

NOTE: The expansion board will flash the cycle count 3 times then all the LEDs will turn on solid for 10 seconds then turn off.

Auxiliary relay wiring example



RED/GREEN LIGHT FUNCTIONALITY						
Red light wired to AUX RELAY 1. Green light wired to AUX RELAY 2.						
GATE STATE	AUX RELAY 1 SWITCHES		AUX RELAY 2 SWITCHES			
	1 OFF	2 OFF	3 OFF	1 ON	2 ON	3 ON
Closed	Re	d light O	FF*	Gre	en light	OFF
Opening	Red	light ON/	Flash	Gre	en light	OFF
Open	R	Red light OFF G		Gr	reen light ON	
Closing	Red	Red light ON/Flash		Green light OFF		
Defined Mid Stop	n/a		n/a			
Undefined Mid Stop	Red light ON Green light (OFF			
Timer more than 5 seconds	Bed light UFF Green light UN			ON		
Timer less than 5 seconds	Bed light UN/Flash Green light UFF			OFF		
* For red light ON when gate is closed, set switch 1 on AUX RELAY 1 to ON						

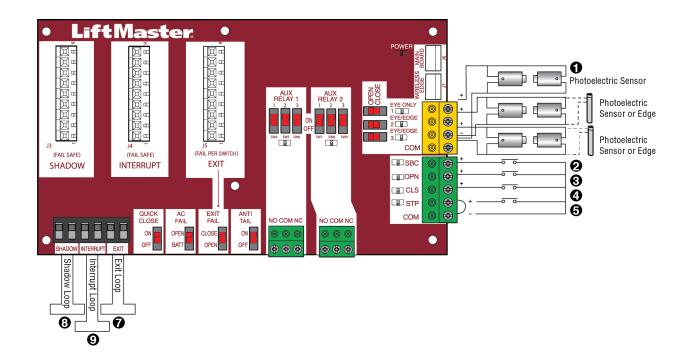


EXPANSION BOARD

Wiring accessories to the expansion board

Refer to the chart below and the corresponding image for a description of the expansion board inputs.

1	Wireless edge	Connection for wireless edge receiver
2	Entrapment Protection Device Inputs (4 terminals total), Open or Close Direction based on switch setting next to inputs	EYES ONLY Input: Open or Close Direction Photoelectric Sensors, Close: reverses fully, Open: reverses 4 seconds EYES/EDGE Input(s): Open or Close Direction Photoelectric Sensors, Infra-red detector wired or Edge Sensor, reverses 4 seconds
3	Single Button Control, SBC (2 terminals)	Gate command sequence - Open, Stop, Close, Stop, Soft Open ,Soft Close, Soft Stop (maintained switch does not override external safeties and does not reset alarm condition)
4	Open Input (& common) (3-Button Control Station, 4 terminals total)	Open command - opens a closed gate. Soft open (maintained switch does not override external safeties and does not reset alarm condition) If maintained, pauses Timer-to-Close at OPEN limit. Opens a closing gate and holds open an open gate.
5	Close Input (& common) (3-Button Control Station, 4 terminals total)	Close command - closes an open gate. Soft close (maintained switch does not override external safeties and does not reset alarm condition).
6	Stop Input (& common) (3-PB station, 4 terminals total)	Stop command - stops a moving gate. Hard stop (maintained switch overrides Open and Close commands and resets alarm condition) If maintained, pauses Timer-to-Close at OPEN limit. Overrides an Open or Close command.
7	Exit Loop Input (2 terminals)	Loop wire connection for plug-in loop detector when loop is inside secured area near gate. Open command - opens a closed gate. Soft open (maintained switch does not override external safeties and does not reset alarm condition) If maintained, pauses Timer-to-Close at OPEN limit. Opens a closing gate and holds open an open gate.
8	Shadow Loop Input (2 terminals)	 Loop wire connection for plug-in loop detector when loop is positioned under the gate. Holds open gate at open limit Disregarded during gate motion Pauses Timer-to-Close at Open Limit
9	Interrupt Loop Input (2 terminals)	 Loop wire connection for plug-in loop detector when loop is along the side of the gate. Holds open gate at open limit Stops and reverses a closing gate Pauses Timer-to-Close at Open Limit



MAINTENANCE

IMPORTANT SAFETY INSTRUCTIONS

A WARNING

To reduce the risk of SEVERE INJURY or DEATH:

- READ AND FOLLOW ALL INSTRUCTIONS.
- ANY maintenance to the operator or in the area near the operator MUST NOT be performed until disconnecting the electrical power (AC or solar and battery) and locking-out the power via the operator power switch. Upon completion of maintenance the area MUST be cleared and secured, at that time the unit may be returned to service.
- Disconnect power at the fuse box BEFORE proceeding. Operator MUST be properly grounded and connected in accordance with national and local electrical codes. *NOTE:* The operator should be on a separate fused line of adequate capacity.
- NEVER let children operate or play with gate controls. Keep the remote control away from children.
- ALWAYS keep people and objects away from the gate. NO ONE SHOULD CROSS THE PATH OF THE MOVING GATE.
- The entrance is for vehicles ONLY. Pedestrians MUST use separate entrance.

- Test the gate operator monthly. The gate MUST reverse on contact with an object or reverse when an object activates the noncontact sensors. After adjusting the force or the limit of travel, retest the gate operator. Failure to adjust and retest the gate operator properly can increase the risk of INJURY or DEATH.
- Use the manual disconnect release ONLY when the gate is NOT moving.
- KEEP GATES PROPERLY MAINTAINED. Read the owner's manual. Have a qualified service person make repairs to gate hardware.
- ALL maintenance MUST be performed by a LiftMaster professional.
- Activate gate ONLY when it can be seen clearly, is properly adjusted and there are no obstructions to gate travel.
- To reduce the risk of FIRE or INJURY to persons use ONLY LiftMaster part 29-NP712 for replacement batteries.

SAVE THESE INSTRUCTIONS.

ACAUTION

• ALWAYS wear protective gloves and eye protection when changing the battery or working around the battery compartment.

Maintenance Chart

Disconnect all power (AC, solar, battery) to the operator before servicing. The operator's AC Power switch ONLY turns off AC power to the control board and DOES NOT turn off battery power. ALWAYS disconnect the batteries to service the operator.

DESCRIPTION	TASK		CHECK AT LEAST ONCE EVERY		
		MONTH	6 MONTHS	3 YEARS	
Entrapment Protection Devices	Check and test inherent (built into the operator) and external devices for proper operation	Х			
Warning Signs	Make sure they are present and replace if worn or broken, see Accessories	Х			
Manual Disconnect	Check and test for proper operation		Х		
Sprockets and Chains	Check for excessive slack and lubricate		Х		
Gate	Inspect for wear or damage; ensure it still complies with ASTM F2200, see page 5	Х			
Accessories	Check all for proper operation		Х		
Electrical	Inspect all wire connections		Х		
Chassis Mounting Bolts	Check for tightness		Х		
Operator	Inspect for wear or damage		Х		
Batteries	Replace			Х	

NOTES:

- Severe or high cycle usage will require more frequent maintenance checks.
- · Limits may have to be reset after any major drive chain adjustments.
- If lubricating chain, use only lithium spray. Never use grease or silicone spray.
- It is suggested that while at the site voltage readings be taken at the operator. Using a digital voltmeter, verify that the incoming voltage to the operator is within ten percent of the operator's rating.

Batteries

Batteries will degrade over time depending on temperature and usage. The operator alarm will beep 3 times with a command if the battery is low. Batteries do not perform well in extremely cold temperatures. For best performance, the batteries should be replaced every 3 years. Use only LiftMaster part 29-NP712 for replacement batteries. The batteries contain lead and need to be disposed of properly.

The operator comes with two 7AH batteries. Two 33AH batteries (A12330SGLPK), with Solar Harness Kit (K94-37236) may be used in place of the 7AH batteries.

Drive Train

Over time, the drive chain on the operator will stretch and need to be tightened. To tighten the drive chain adjust either of the two chain eye bolts. *NOTE: The chain should have no more than 1 inch of sag for every 10 feet of chain length.*

A WARNING

To protect against fire and electrocution:

For continued protection against fire:

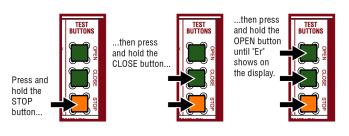
- Replace ONLY with fuse of same type and rating.
- DISCONNECT power (AC or solar and battery) BEFORE installing or servicing operator.

Diagnostic Codes

NOTE: When cycling or disconnecting power (ac/dc) to the control board, it is recommended that you unplug the J15 plug.

To View the Codes

The codes will show on the diagnostic display.



The operator will show the code sequence number followed by the code number:

A SECOND

LATER....

CODE SEQUENCE NUMBER

DIAGNOSTICS

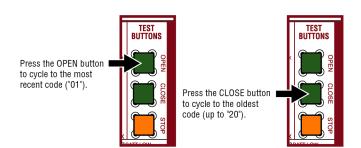
The first number shown is the most recent code (example: "01"). The display will show the sequence of codes that occurred starting with "01" and going up to code "20".



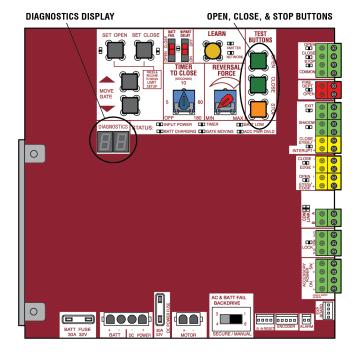
The second number shown after the code sequence number is the code itself (31-99, example" "31"). Refer to the chart on the following page for an explanation of each code.



To Scroll Through the Saved Codes



The operator will only keep track of up to 20 codes, then will start saving over the oldest codes as new codes occur.



To Exit

Press and release the STOP button to exit. The display will also time out after two minutes of inactivity.

To Reset the Code History

- 1. Press and hold the STOP button for six seconds. The display will show "Er" then "CL" alternately for six seconds.
- 2. Release the STOP button. The code history has now been reset and the display will show "- -" until a new code occurs.
- 3. Press and release the STOP button to exit.

Diagnostic Codes Table

Some codes are saved in the code history and some are not. If a code is not saved it will briefly appear on the display as it occurs, then disappear.

LiftMaster System

Installed System

em

Informational

External Entrapment Protection Inherent Entrapment Protection

Code	Meaning	Solution	Saved
31	Main control board has experienced an internal failure.	Disconnect all power, wait 15 seconds, then reconnect power (reboot). If issue continues, replace main control board.	NO
34	Absolute Position Encoder Error, not getting position information from encoder	Check APE assembly and wiring connections. Replace the APE assembly if necessary.	YES
35	Max-Run-Time Exceeded Error	Check for an obstruction, then reprogram the limits.	YES
36	Product ID Error	Was the control board just replaced? If so, erase limits, enter limit setup mode and set limits. If not, disconnect all power, wait 15 seconds, then reconnect power before changing product ID harness.	YES
37	Product ID Failure	Unplug product ID harness then plug back in. Disconnect all power, wait 15 seconds, then reconnect power before replacing product ID harness.	YES
38	Hard Stop Limit (Arm 1)	Limit may be set too tightly against a non-resilient hard stop (re-adjust limit). Operator may be at end of travel (re-adjust mounting).	NO
40	Battery overvoltage	Too much voltage on the battery. Check harness. Make sure there is NOT a 24V battery on a 12V system.	YES
41	Battery overcurrent	Possible short of the battery charge harness. Check harness. Make sure you do NOT have a 12V battery on a 24V system.	YES
42	No battery at boot up	Check battery connections and installation. Replace batteries if depleted to less than 20V on a 24V system or less than 10V on a 12V system. Make sure there is NOT a single 12V battery on a 24V system.	YES
43	Exit Loop Error	Failure or missing loop (SHORT or OPEN - LiftMaster Plug-in Loop	YES
44	Shadow Loop Error	Detector only) Check loop wiring throughout connection. May be a short in the loop, or an open connection in the loop.	
45	Interrupt Loop Error		
46	Wireless edge battery low	Replace batteries in wireless edge.	YES
50	Run-Distance Error	The limits are less than the minimum requirement or longer than what was learned. Check limit positions and proper switch function. Run- distance can be re-learned by setting the handing again.	YES
53	Brownout occurred	AC/DC board supply dipped below allowable level. Review power supply and wiring. If rebooting, ensure enough time for discharge of power to force a fresh boot.	YES
54	Wireless Second Operator Communication Error	Check the second operator for power. If OFF, restore power and try to run the system. If powered, deactivate the wireless feature and then re-learn the second operator.	YES
60	Minimum number of monitored entrapment protection devices not installed.	Review monitored entrapment protection device connections. Slide gate operators require a minimum of two external safety devices; one in the close and one in the open direction.	NO
61	CLOSE EYE/INTERRUPT held more than 3 minutes		
62	CLOSE EDGE held more than 3 minutes	Check wired input on main control board; check for alignment or obstruction.	YES
63	OPEN EYE/EDGE held more than 3 minutes		
64	CLOSE EYE/INTERRUPT held more than 3 minutes	Check wind input on avanaion board, shock for alignment or	
65	CLOSE EYE/EDGE held more than 3 minutes	Check wired input on expansion board; check for alignment or obstruction.	YES
66	OPEN EYE/EDGE held more than 3 minutes		
67	Wireless edge triggered more than 3 minutes	Check wired input for wiring issue or obstruction.	YES
68	Wireless edge loss of monitoring	Check wireless edge inputs.	YES

Code	Meaning	Solution	Saved
69	Wireless edge triggered	IF an obstruction occurred, no action required. If an obstruction did NOT occur, check inputs and wiring.	NO
70	CLOSE EYE/INTERRUPT triggered, causing reversal, preventing close, or resetting TTC		
71	CLOSE EDGE triggered, causing reversal, NO preventing close, or canceling TTC	IF an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on main control board	NO
72	OPEN EYE/EDGE triggered, causing reversal or preventing opening		
73	CLOSE EYE/INTERRUPT triggered, causing reversal, preventing close, or resetting TTC		
74	CLOSE EYE/EDGE triggered, causing reversal and preventing close or canceling TTC	IF an obstruction occurred, no action required. If an obstruction did NOT occur, check alignment, inputs, and wiring on expansion board.	NO
75	OPEN EYE/EDGE triggered, causing reversal or preventing opening]	
80	Close input (EYE/EDGE) communication fault from other operator	Check inputs and communication method between operators, either wired bus or radio. Ensure operator is powered. May have to erase the wireless	YES
81	Open input (EYE/EDGE) communication fault from other operator	communication and reprogram the two operators.	TES
82	Close input (EYE/EDGE) communication fault (expansion board)	Check the connections between the main board and the expansion board.	YES
83	Open input (EYE/EDGE) communication fault (expansion board)	Check the connections between the main board and the expansion board.	TES
84	Non-monitored device detected on the wireless safety system	Non-monitored contact closure devices are not supported. Make sure connected devices are monitored. Check edges for proper orientation and resistive end cap connection.	YES
91	Force Reversal (Operator 1)	Check for obstruction. If no obstruction, check that the mechanical assembly is engaged and free to move. See section on Limit and Force Adjustment, and Obstruction Test.	YES
93	RPM / STALL Reversal (Operator 1)	Check for obstruction. If no obstruction, check the operator wiring and that the mechanical assembly is engaged and free to move. Replace APE assembly.	YES
99	Normal Operation	No action required	YES

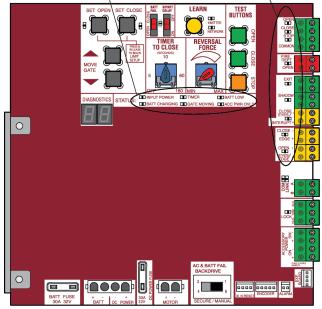
Control Board LEDs

STATUS LEDS			
INPUT	OFF	OFF state	
POWER	ON	AC charger or Solar power available	
BATT	OFF	Not charging	
CHARGING	ON	Three stage battery charging	
TIMER	OFF	The timer is disabled	
	ON	The timer is enabled	
	MEDIUM BLINK (1 blink per second)	The timer is running	
	FAST BLINK (2 blinks per second)	The timer is paused	
	FASTEST BLINK (8 blinks per second)	The timer is canceled	
GATE	OFF	The gate is stopped	
MOVING	ON	The gate is opening or closing	
	MEDIUM BLINK (1 blink per second)	Operator is in E1 (single entrapment)	
	FASTEST BLINK (8 blinks per second)	The operator is in E2 (double entrapment)	
BATT LOW	OFF	No battery error	
	ON	Battery low	
	MEDIUM BLINK (1 blink per second)	Battery critically low	
ACC PWR	OFF	Accessory power is okay	
OVLD	ON	Accessory overload protector opened	

	INP	PUT LEDS
OPEN, CLOSE,	OFF	Input inactive
STOP INPUT	ON	Input active
	BLINK	Input active on other operator
FIRE DEPT INPUT	OFF	Input inactive
	ON	Input active
	BLINK	Input active on other operator
EXIT	OFF	Input inactive
	ON	Input active
	BLINK	Input active on other operator
SHADOW	OFF	Input inactive
	ON	Input active
	BLINK	Input active on other operator
CLOSE	OFF	Input inactive
EYES/INTERRUPT	ON	Input active
	BLINK	Input active on other operator
CLOSE EDGE	OFF	Input inactive
	ON	Input active
	BLINK	Input active on other operator
OPEN EYES/EDGE	OFF	Input inactive
	ON	Input active
	BLINK	Input active on other operator
LOCK	OFF	Maglock relay inactive
	ON	Maglock relay active

STATUS LEDS

INPUT LEDS



Troubleshooting Chart

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Operator does not run and diagnostic display not on.	 a. No power to control board b. Open fuse c. If on battery power only, low or dead batteries d. Defective control board 	 a. Check AC and battery power b. Check fuses c. Charge batteries by AC or solar power or replace batteries d. Replace defective control board
Control board powers up, but motor does not run.	 a. Reset switch is stuck b. Stop button active or jumper not in place for stop circuit c. If on battery power only, low or dead batteries d. Open or Close input active e. Entrapment Protection Device active f. Vehicle loop detector or probe active g. Defective control board 	 a. Check reset switch b. Check Stop button is not "stuck on", or verify that the stop button is a normally closed circuit, or put a jumper on the stop circuit. c. Charges batteries by AC or solar power or replace batteries d. Check all Open and Close inputs for a "stuck on" input e. Check all Entrapment Protection Device inputs for a "stuck on" sensor f. Check all vehicle detector inputs for a "stuck on" detector g. Replace defective control board
Gate moves, but cannot set correct limits.	 a. Gate does not move to a limit position b. Gate is too difficult to move c. Limits are set too close (slide gate applications only) 	 a. Use manual disconnect, manually move gate, and ensure gate moves easily limit to limit. Repair gate as needed. b. Gate must move easily and freely through its entire range, limit to limit. Repair gate as needed. c. Ensure the gate moves at least four feet between the OPEN limit and the CLOSE limit.
Gate does not fully open or fully close when setting limits.	a. Gate does not move to a limit positionb. Gate is too difficult to move	a. Use manual disconnect, manually move gate, and ensure gate moves easily limit to limit. Repair gate as needed.b. Gate must move easily and freely through its entire range, limit to limit. Repair gate as needed.
Operator does not respond to a wired control/command (example: Open, Close, SBC, etc.)	 a. Check Open and Close command input LEDs b. Stop button is active c. Reset button is stuck d. If on battery power only, low or dead batteries e. Entrapment Protection Device active f. Vehicle loop detector or vehicle probe active 	 a. Check all Open and Close inputs for a "stuck on" input b. Check Stop button is not "stuck on" c. Check Reset button d. Charges batteries by AC or solar power or replace batteries e. Check all Entrapment Protection Device inputs for a "stuck on" sensor f. Check all vehicle detector inputs for a "stuck on" detector
Operator does not respond to a wireless control or transmitter	 a. Check XMITTER LED when wireless control is active b. Stop button is active c. Reset button is stuck d. Poor radio reception 	 a. Activate wireless control and check XMITTER LED is on. Re-learn wireless control/transmitter to control board. Replace wireless control as needed. b. Check Stop button is not "stuck on" c. Check Reset button d. Check if similar wired control operates correctly. Check if wireless controls works properly when within a few feet of operator. Check operator's antenna and antenna wire. Check other wireless controls or devices.
Gate stops during travel and reverses immediately.	a. Control (Open, Close) becoming activeb. Vehicle loop detector activec. Low battery voltage	 a. Check all Open and Close inputs for an active input b. Check all vehicle detector inputs for an active detector c. Battery voltage must be 23.0 Vdc or higher. Charge batteries by AC or solar power or replace batteries

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Gate opens, but will not close with transmitter or Timer-to-Close.	 a. Open control active b. Vehicle loop detector active c. Loss of AC power with AC FAIL set to OPEN d. Low battery with LOW BATT set to OPEN e. Fire Dept input active f. Timer-to-Close not set g. Close Entrapment Protection Device active 	 a. Check all Open inputs for an active input b. Check all vehicle detector inputs for an active detector c. Check AC power and AC Fail option setting d. Check if AC power is available. If no AC power, then running on batteries and battery voltage must be 23.0 Vdc or higher. Charge batteries by AC or solar power or replace batteries. e. Check Fire Dept input f. Check all Entrapment Protection Device inputs for an active sensor
Gate closes, but will not open.	 a. Vehicle loop detector active b. Low battery with LOW BATT option set to CLOSE 	 a. Check all vehicle detector inputs for an active detector b. Check if AC power is available. If no AC power, then running on batteries and battery voltage must be 23.0 Vdc or higher. Charge batteries by AC or solar power or replace batteries.
Exit loop activation does not cause gate to open.	 a. Exit vehicle detector setup incorrectly b. Defective Exit loop detector c. Low battery with LOW BATT option set to CLOSE 	 a. Review Exit loop detector settings. Adjust settings as needed. b. Replace defective Exit loop detector. c. Check if AC power is available. If no AC power, then running on batteries and battery voltage must be 23.0 Vdc or higher. Charge batteries by AC or solar power or replace batteries.
Interrupt loop does not cause gate to stop and reverse.	a. Vehicle detector setup incorrectlyb. Defective vehicle loop detectorc. Anti-tail set to ON	a. Review Interrupt loop detector settings. Adjust settings as needed.b. Replace defective Interrupt loop detector.c. Set anti-tail to OFF.
Shadow loop does not keep gate at open limit.	a. Vehicle detector setup incorrectlyb. Defective vehicle loop detector	a. Review Shadow loop detector settings. Adjust settings as needed.b. Replace defective Shadow loop detector.
Obstruction in gate's path does not cause gate to stop and reverse.	a. Force adjustment needed	a. Refer to the Adjustment section to conduct the obstruction test and perform the proper force adjustment that is needed.
Photoelectric sensor does not stop or reverse gate.	a. Incorrect photoelectric sensor wiringb. Defective photoelectric sensor	a. Check photoelectric sensor wiring. Retest that obstructing photoelectric sensor causes moving gate to stop, and may reverse direction.b. Replace defective photoelectric sensor. Retest that obstructing photoelectric sensor causes moving gate to stop, and may reverse direction.
Edge Sensor does not stop or reverse gate.	a. Incorrect edge sensor wiringb. Defective edge sensor	a. Check edge sensor wiring. Retest that activating edge sensor causes moving gate to stop and reverse direction.b. Replace defective edge sensor. Retest that activating edge sensor causes moving gate to stop and reverse direction.
Alarm sounds for 5 minutes or alarm sounds with a command.	 Double entrapment occurred (two obstructions within a single activation) 	a. Check for cause of entrapment (obstruction) detection and correct. Press the reset button to shut off alarm and reset the operator.
Alarm beeps three times with a command.	a. Low battery	 Check if AC power is available. If no AC power, then running on batteries and battery voltage must be 23.0 Vdc or higher. Charge batteries by AC or solar power or replace batteries
On dual-gate system, incorrect gate opens first or closes first.	a. Incorrect Bipart switch setting	a. Change setting of both operator's Bipart switch settings. One operator should have Bipart switch ON (operator that opens second) and the other operator should have Bipart switch OFF (operator that opens first).
Alarm beeps when running.	a. Expansion board settingb. Constant pressure to open or close is given	a. Pre-warning is set to "ON"b. Constant pressure to open or closed is given

SYMPTOM	POSSIBLE CAUSES	SOLUTIONS
Expansion board function not controlling gate.	 a. Defective main board to expansionboard wiring b. Incorrect input wiring to expansion board c. Defective expansion board or defective main board 	a. Check main board to expansion board wiring. If required, replace wire cable.b. Check wiring to all inputs on expansion board.c. Replace defective expansion board or defective main board
Maglock not working correctly.	a. Maglock wired incorrectly	a. Check that Maglock is wired to N.C. and COM terminals. Check that Maglock has power (do not power maglock from control board accessory power terminals). If shorting lock's NO and COM wires does not activate Maglock, then replace Maglock or Maglock wiring (refer to Wiring Diagrams).
Solenoid lock not working correctly.	a. Solenoid wired incorrectly	a. Check that Solenoid is wired to N.O. and COM terminals. Check that Solenoid has power (do not power solenoid from control board accessory power terminals). If shorting lock's NC and COM wires does not activate Solenoid, then replace Solenoid lock or Solenoid wiring (refer to Wiring Diagrams).
Switched (SW) Accessory power remaining on.	a. In limit setup mode	a. Learn the limits
Accessories connected to Switch (SW) Accessory power not working correctly, turning off, or resetting.	a. Normal behavior	a. Move accessory to accessory power "ON"
Accessories connected to Accessory power not working correctly, turning off, or resetting.	 a. Accessory power protector active b. Defective control board 	 a. Disconnect all accessory powered devices and measure accessory power voltage (should be 23 – 30 Vdc). If voltage is correct, connect accessories one at a time, measuring accessory voltage after every new connection. b. Replace defective control board
Quick Close not working correctly.	a. Quick Close setting incorrectb. Interrupt loop detectorc. Defective Expansion board	a. Check that Quick Close setting is ONb. Check operation of Interrupt Loop detectorc. Replace defective Expansion board
Anti-Tailgating not working correctly.	a. Anti-Tail setting incorrectb. Interrupt loop detectorc. Defective Expansion board	 a. Check that Anti-Tail setting is ON b. Check operation of Interrupt Loop detector c. Replace defective Expansion board
AUX Relay not working correctly.	a. AUX Relay setting incorrectb. AUX Relay wiring incorrectc. Defective Expansion board	 a. Check AUX Relay switches settings b. Check that wiring is connected to either N.O. and COM or to N.C. and COM. c. Set AUX Relay to another setting and test. Replace defective expansion board.
Solar operator not getting enough cycles per day.	 a. Insufficient panel wattage b. Excessive accessory power draw c. Old batteries d. Solar panels are not getting enough sunlight 	 a. Add more solar panels b. Reduce the accessory power draw by using LiftMaster low power accessories c. Replace batteries d. Relocate the solar panels away from obstructions (trees, buildings, etc.)
Solar operator, insufficient standby time.	a. Insufficient panel wattageb. Excessive accessory power drawc. Battery capacity too low	 a. Add more solar panels b. Reduce the accessory power draw by using LiftMaster low power accessories c. Use batteries with higher amp hour (AH) rating

Step 6 Solar Panel(s)

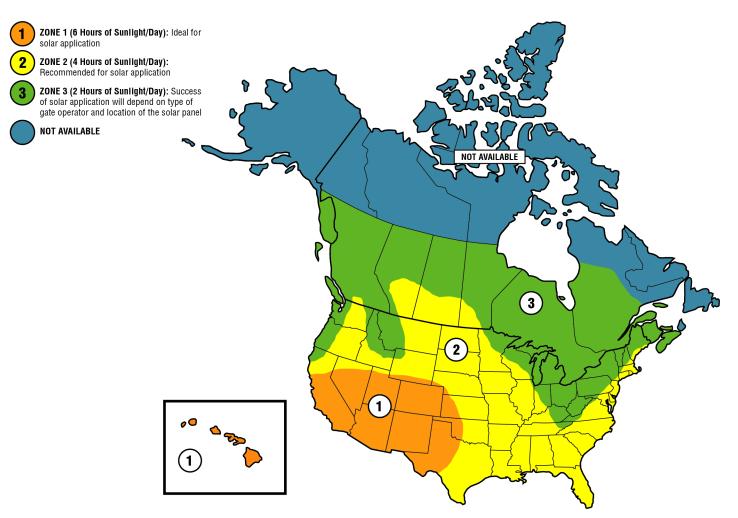
SOLAR PANELS ARE NOT PROVIDED. SEE ACCESSORIES

Solar Application Requirements

- A minimum of two 10W solar panels in series (Model SP10W12V).
- A maximum of six 10W solar panels (Model SP10W12V).
- Solar Harness Kit (Model K94-37236).
- · A heater cannot be used with a solar application.

Solar Zones

Solar panel recommendations are based upon the average solar radiation and the temperature effects on batteries in the given zones as shown on the map below. Local geography and weather conditions may require additional solar panels. Solar powered gate operator installations are not supported in northern climates due to cold weather and a reduced number of hours of sunlight during the winter months. The cycles/day ratings are approximations. Ratings vary based on gate construction, installation, and temperature. Solar panels cannot be installed in areas that experience long periods of heavy fog, lake effect snow, or rain.



Solar usage guide

Typical System Standby Battery Current Consumption (mA)			
System voltage	24V		
Main board with no radios programmed	2.7 mA		
One or more LiftMaster [®] remote controls programmed	+1 mA		
MyQ [®] device or wireless dual gate programmed	+2.4 mA		
Expansion board +11.1 mA			
Per loop detector LOOPDETLM (up to 3 loop detectors can be plugged in to the expansion board) +3.8 mA			
Add up current draw by feature and accessory to determine total current draw			

NOTE: The use of photoelectric sensor heaters (models LMRRUL and LMTBUL) is NOT recommended in solar applications.

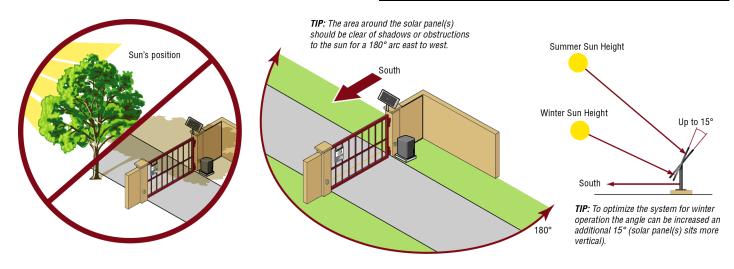
SOLAR GATE CYCLES PER DAY							
	BATTERY CURRENT DRAW (mA)	ZO	NE 1	ZONE 2		ZONE 3	
		7AH batteries	33AH batteries	7AH batteries	33AH batteries	7AH batteries	33AH batteries
	5	26	28	15	17		
	15	22	24	12	13		
10W SOLAR PANEL	20	20	22		11		
	40	12	14				
	60						
	5	57	67	34	40	14	16
20W SOLAR PANEL	15	52	62	30	36	10	12
(Two 10W 12V panels	20	50	60	28	33		11
in series)	50	36	45	15	20		
	100	15	23				
	5	108	152	65	92	27	38
40W SOLAR PANEL	15	103	147	60	87	23	34
(Two 20W 12V panels	20	100	144	58	84	21	32
in series)	100	58	99	21	44		
	200	14	47				
	5	134	240	81	146	34	61
	15	128	234	76	140	29	56
60W SOLAR PANEL	20	125	231	73	137	27	54
	100	82	181	34	92		18
	250	12	95		20		

Position

The location of the panel(s) is critical to the success of the installation. In general, the panel(s) should be mounted using the provided angle bracket facing **due south**. The solar panel(s) should be mounted in an area clear of all obstructions and shade from buildings and trees. If the panel(s) is not casting a shadow, the battery is not being charged.

NOTE: Tall trees or buildings that do not shade the solar panel(s) in the summer could shade the solar panel(s) during the winter months when the sun sits lower in the sky.

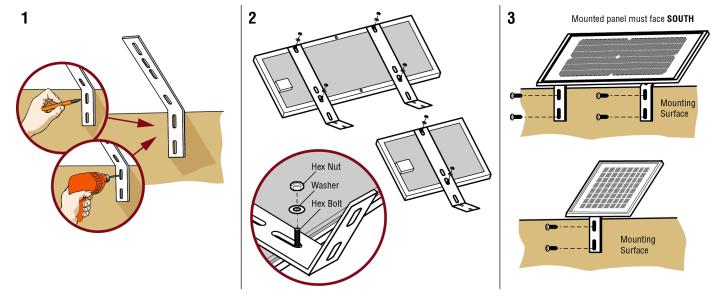
	MAXIMUM WIRE LENGTH				
AMERICAN WIRE GAUGE (AWG)	20 WATTS OF Panels	40 WATTS OF Panels	60 WATTS OF Panels		
16	235 (71.6 m)	115 (35.1 m)	80 (24.4 m)		
14	375 (114.3 m)	190 (57.9 m)	125 (38.1 m)		
12	600 (182.9 m)	300 (91.4 m)	200 (61 m)		
10	940 (286.5 m)	475 (144.8 m)	315 (96 m)		
Chart assumes: copper wire, 65°C, 5% drop, 30V nominal					



Installation

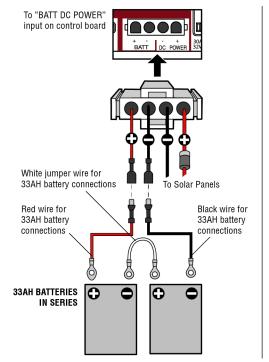
Solar panel(s) MUST be installed facing south. Use a compass to determine direction. Below are general instructions for installing the solar panel(s). Your installation may vary slightly depending on the solar panel purchased.

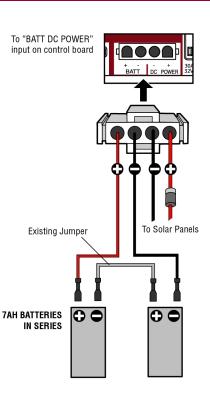
- 1. Position the mounting bracket on the mounting surface. Mark and drill holes.
- 2. Secure the solar panel to the mounting bracket using the hex bolts, hex nuts and washers provided.
- 3. Secure the solar panel to the mounting surface using lag screws provided.



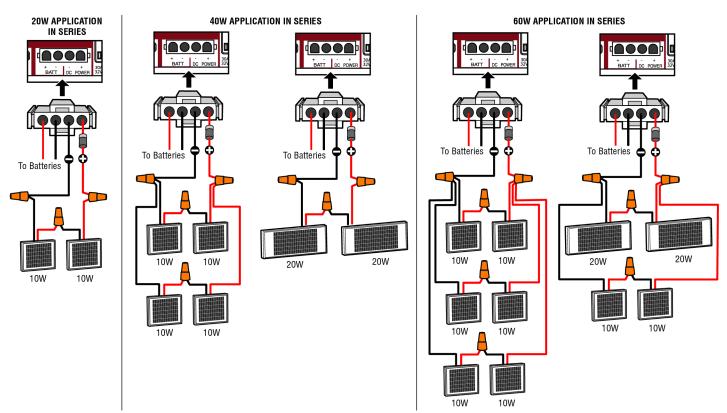
Wire the Batteries

Solar panel applications require the Solar Harness Kit model K94-37236, see *Accessories*.



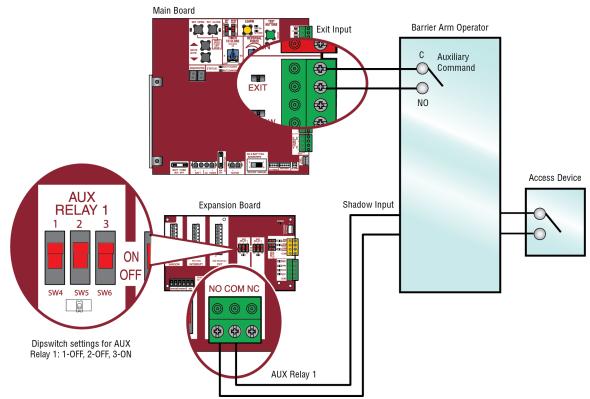


Wire the solar panels



Proceed to the Dual Gate section (if applicable) or proceed to the Adjustment section.

SAMS wiring with relays not energized



Dual Gate Settings

NOTE: We recommend that all accessories and board configurations are set on the primary operator.

Main control board

FEATURE	PRIMARY OPERATOR	SECONDARY OPERATOR
Timer-to- Close	Set the TTC dial to desired setting	OFF
Bi-Part Delay	Bi-Part Delay: ON (will open last and close first)	Bi-Part Delay: OFF (will open first and close last)
Switch	Tandem Mode: OFF	Tandem Mode: OFF
	Synchronized Close: ON	Synchronized Close: ON

Expansion board

FEATURE	PRIMARY OPERATOR	SECONDARY Operator
QUICK CLOSE Switch	ON	OFF
ANTI-TAIL Switch	ON	OFF
LOW BATT Switch	Battery Fail OPEN: OPEN	Battery Fail OPEN: OPEN
	Battery Fail CLOSE: CLOSE	Battery Fail CLOSE: CLOSE
AC FAIL OPEN/BATT Switch	OPEN	OPEN

Accessories

ACCESSORY	PRIMARY OPERATOR	SECONDARY Operator
Remote Controls	Program remote controls 1 to 50 to the primary operator.	Program remote controls 51 to 100 to the secondary operator
LiftMaster Internet Gateway	Program to primary operator.	
Garage and Gate Monitor	Program to primary operator.	

Limit Setup with a Remote Control

To set the limits using a remote control, first you will need a 3-button remote control that has been programmed for OPEN, CLOSE, and STOP. Refer to the Programming section.

Initial Limits and Force Adjustment

For dual gate applications the limits will have to be set for each operator. The gate MUST be attached to the operator before setting the limits and force.

Ensure the gate is closed.

- 1. Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
- 2. Press and hold the OPEN or CLOSE button on the remote control until the gate reaches the desired open position. The gate can be jogged back and forth using the OPEN and CLOSE buttons on the remote control.
- 3. Once the gate is in the desired open position, press and release the STOP button on the remote control.
- 4. Press and release the OPEN button on the remote control again to set the open limit.
- 5. Press and hold the CLOSE or OPEN button on the remote control until the gate reaches the desired close position. The gate can be jogged back and forth using the OPEN and CLOSE buttons on the remote control.
- 6. Once the gate is in the desired close position, press and release the STOP button on the remote control.
- 7. Press and release the CLOSE button on the remote control again to set the close limit.
- 8. Cycle the gate open and close. This automatically sets the force.

When limits are set properly the operator will automatically exit limit setting mode.

Refer to the *Adjustment* section and follow the instructions for *Fine Tune the Force* and *Obstruction Test*. Perform the "Obstruction Test" after every limit and force setting adjustment.

Adjust the limits

If the limits have already been set the operator will exit the limit setting mode after resetting each limit.

Set the Close Limit Only

- 1. Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
- 2. Press and hold the CLOSE button on the remote control until the gate reaches the desired close position. The gate can be jogged back and forth using the OPEN and CLOSE buttons on the remote control.
- 3. Once the gate is in the desired close position, press and release the STOP button on the remote control.
- 4. Press and release the CLOSE button on the remote control again to set the close limit.

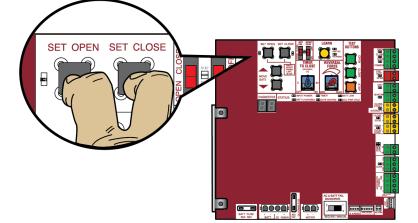
When the close limit is set properly the operator will automatically exit limit setting mode.

Set the Open Limit Only

- 1. Press and release the SET OPEN and SET CLOSE buttons simultaneously to enter limit setting mode.
- 2. Press and hold the OPEN button on the remote control until the gate reaches the desired open position. The gate can be jogged back and forth using the OPEN and CLOSE buttons on the remote control.
- 3. Once the gate is in the desired open position, press and release the STOP button on the remote control.
- 4. Press and release the OPEN button on the remote control again to set the open limit.

When the open limit is set properly the operator will automatically exit limit setting mode.

3-Button Remote Control programmed for OPEN, CLOSE, and STOP





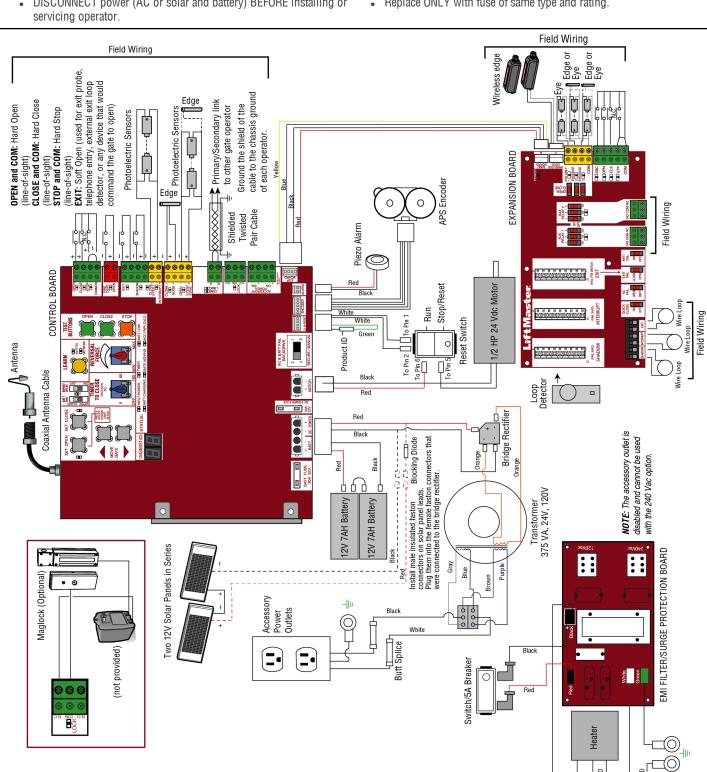
WIRING DIAGRAM

A WARNING

To protect against fire and electrocution:

For continued protection against fire:

- · Replace ONLY with fuse of same type and rating.
- DISCONNECT power (AC or solar and battery) BEFORE installing or servicing operator.

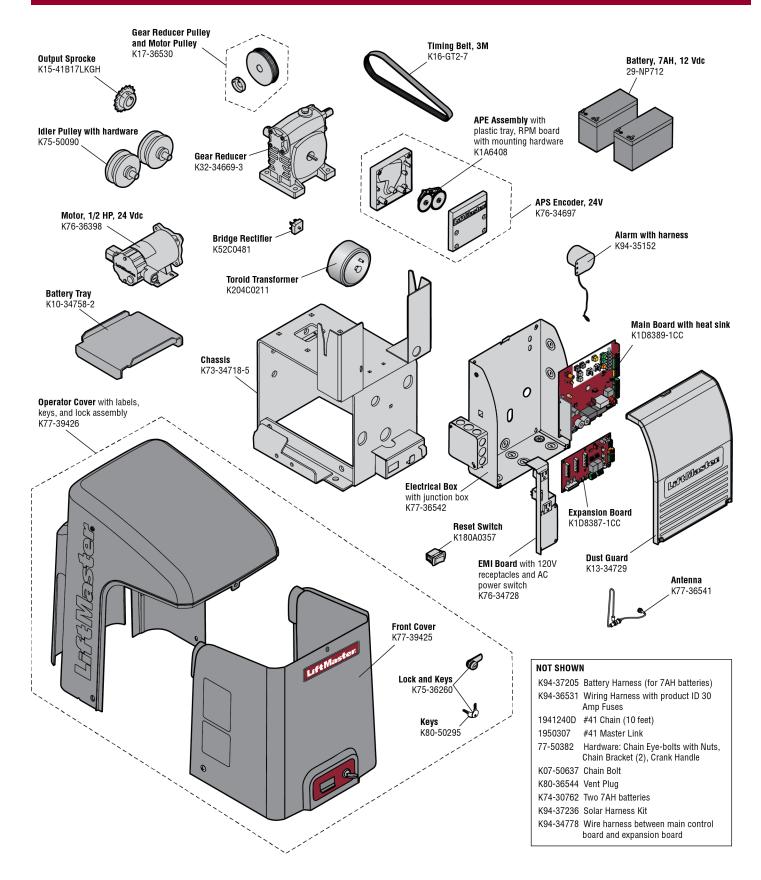


GND

z Input Power Connection

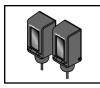
GND

REPAIR PARTS



ACCESSORIES

Entrapment Protection



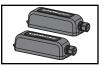
LiftMaster monitored through beam photoelectric sensor Model LMTBUL



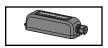




LiftMaster Monitered Commercial Protector System® Models CPS-UN4 and CPSUN4G



LiftMaster monitored wireless edge kit (transmitter and receiver) Model LMWEKITU



LiftMaster monitored wireless edge transmitter Model LMWETXU



Large profile monitored edge (82 ft. roll) Model L50 Large profile ends kit (10 pair) Model L50E Small profile monitored edge (82 ft. roll) Model S50 Small profile ends kit (10 pair) Model S50E

Plastic channel

8 ft. (2.4 m) for both small and large profile edges (pack of 10). Model L50CHP

Aluminum channel

LiftMaster large profile monitored edges (4ft.,5ft., 6ft.) Model L504AL, L505AL, L506AL

Wraparound round monitored edge (4 ft., 5 ft., 6 ft.) Models WR4. WR5. WR6

Wraparound square monitored edge (4 ft., 5 ft., 6 ft.)

Models WS4, WS5, WS6

Edge cutting tool

Model ETOOL



LiftMaster offers a variety of LiftMaster remote controls to satisfy your application needs. Single-button to 4-button, visor or key chain. The following remote controls are compatible with operators manufactured by LiftMaster after 1993. Contact your authorized LiftMaster dealer for additional details and options.

3-button mini-remote control

Models 892LT and 894LT

Models 811LM and 813LM

The 3-button remote control can be programmed to

The 3-button remote control can be programmed to

control the operator. Includes key ring and fastening

One button can control a gate operator and the other

programmed to Security+® or Security+ 2.0® code

control the operator. Includes visor clip.

Security+ 2.0[®] learning remote controls

(s) can control garage door(s). It can also be

Universal single and 3-button remote controls

Ideal for applications requiring a large number of

3-button remote control

Model 893MAX

Model 890MAX

strip.

format.













Keyless entry

remote controls.

Enables homeowner to operate gate operator from outside by entering a 4-digit code on a specially designed keypad. Model 877MAX

Wireless commercial keypad

Durable wireless keypad with blue LED backlight metal keypad, zinc-alloy metal front cover and 5 year 9V lithium battery. Security+ 2.0[®] compatible. Model KPW250

Commercial access control receiver

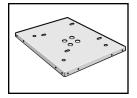
Access control receiver for up to 1,000 devices (any combination of remote controls and wireless keyless entries). Model STAR1000





ACCESSORIES

Miscellaneous





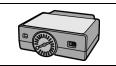
Post-mounting plate

For post-mounting models CSL24UL, CSW24UL CSW200UL and SL3000UL commercial gate operators. Posts not included.

Model MPEL

Remote antenna extension kit

The remote antenna extension kit allows the antenna to be remotely installed. Model 86LM

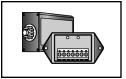


Plug-in loop detector Low power. Conveniently plugs into existing control board. Model LOOPDETLM

Low power loop detectors mounted and

wired separately inside control box.

LiftMaster low power accessory.



Vehicle sensing probe

Model LD7LP

Loop Detector

The vehicle sensing probe is buried in the ground and can detect a car as it approaches and will then open the gate. Model CP3



Solar panel kit

Magnetic gate lock

be powered separately.

Model MG1300

This kit is to replace or add a solar panel to the operator application. 60W maximum for 24 Vdc operators and 30W maximum for 12 Vdc operators. Requires a 33AH battery harness.

Models SP10W12V (10 Watt, 12V) and SP20W12V (20 Watt, 12V)

Outdoor magnetic lock, transformer.

junction box, mounting plate and hardware.

Not for use with Solar Applications. Must





The heater keeps the gearbox and batteries at a suitable temperature when the outside temperature is below -4°F (-20°C). The thermostat MUST be set between 45°F and 60°F (7°C and 15.5°C) to ensure proper gate operation. The heater can be powered by 110 to 250 Vac. Model HTR





LiftMaster[®] internet gateway

Internet enabled accessory which connects to the computer and allows you to monitor and control gate operators and lighting accessories enabled by MyQ[®] technology. Model 828LM

LiftMaster Cloud™ connected access protocol high capacity Model CAPXL



Warning sign Model 40-39235



Changes input voltage (208/240/480/575 Vac) to an output voltage of 120 Vac. Rated 208/240/480/575 Vac, 4.8/4.2/2.1/1.7 A, 60 Hz, 1 PH Model 3PHCONV

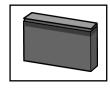
Solenoid lock harness kit Model K77-37972

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Batteries

Gate access system batteries replace or upgrade the gate operator batteries. Two identical 12 Vdc batteries are required for each gate operator. Do not mix 7AH and 33AH batteries within a gate operator.



7AH batteries

Standard 7 AMP-Hour Battery, 12 Vdc, to replace original batteries provided with operator. Reuse existing harnesses. Models 29-NP712 (1) and K74-30762 (2)

33AH batteries

Upgrade 33 AMP-Hour Battery, 12 Vdc. Ideal for solar applications and extended battery backup. Two required.

Model A12330SGLPK

Battery tray



Two required for 33AH applications. Model K10-34758-2

Universal solar wire harness kit

For 7AH and 33AH applications. Model K94-37236



WARRANTY

LiftMaster 7 year residential / 5 year commercial Limited Warranty

LiftMaster ("Seller") warrants to the first purchaser of this product, for the structure in which this product is originally installed, that it is free from defect in materials and/or workmanship for a period of 7 year residential / 5 year commercial from the date of purchase [and that the CSL24UL is free from defect in materials and/or workmanship for a period of 7 year residential / 5 year commercial from the date of purchase]. The proper operation of this product is dependent on your compliance with the instructions regarding installation, operation, maintenance and testing. Failure to comply strictly with those instructions will void this limited warranty in its entirety.

If, during the limited warranty period, this product appears to contain a defect covered by this limited warranty, call **1-800-528-2806**, toll free, before dismantling this product. Then send this product, pre-paid and insured, to our service center for warranty repair. You will be advised of shipping instructions when you call. Please include a brief description of the problem and a dated proof-of-purchase receipt with any product returned for warranty repair. Products returned to Seller for warranty repair, which upon receipt by Seller are confirmed to be defective and covered by this limited warranty, will be repaired or replaced (at Seller's sole option) at no cost to you and returned pre-paid. Defective parts will be repaired or replaced with new or factory-rebuilt parts at Seller's sole option.

ALL IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE 7 YEAR RESIDENTIAL / 5 YEAR COMMERCIAL LIMITED WARRANTY PERIOD SET FORTH ABOVE [EXCEPT THE IMPLIED WARRANTIES WITH RESPECT TO THE CSL24UL, WHICH ARE LIMITED IN DURATION TO THE 7 YEAR RESIDENTIAL / 5 YEAR COMMERCIAL LIMITED WARRANTY PERIOD FOR THE CSL24UL, AND NO IMPLIED WARRANTIES WILL EXIST OR APPLY AFTER SUCH PERIOD. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. THIS LIMITED WARRANTY DOES NOT COVER NON-DEFECT DAMAGE, DAMAGE CAUSED BY IMPROPER INSTALLATION, OPERATION OR CARE (INCLUDING, BUT NOT LIMITED TO ABUSE, MISUSE, FAILURE TO PROVIDE REASONABLE AND NECESSARY MAINTENANCE, UNAUTHORIZED REPAIRS OR ANY ALTERATIONS TO THIS PRODUCT), LABOR CHARGES FOR REINSTALLING A REPAIRED OR REPLACED UNIT, OR REPLACEMENT OF BATTERIES.

THIS LIMITED WARRANTY DOES NOT COVER ANY PROBLEMS WITH, OR RELATING TO, THE GATE OR GATE HARDWARE, INCLUDING BUT NOT LIMITED TO THE GATE SPRINGS, GATE ROLLERS, GATE ALIGNMENT OR HINGES. THIS LIMITED WARRANTY ALSO DOES NOT COVER ANY PROBLEMS CAUSED BY INTERFERENCE. ANY SERVICE CALL THAT DETERMINES THE PROBLEM HAS BEEN CAUSED BY ANY OF THESE ITEMS COULD RESULT IN A FEE TO YOU.

UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES ARISING IN CONNECTION WITH USE, OR INABILITY TO USE, THIS PRODUCT. IN NO EVENT SHALL SELLER'S LIABILITY FOR BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE OR STRICT LIABILITY EXCEED THE COST OF THE PRODUCT COVERED HEREBY. NO PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THIS PRODUCT.

Some states do not allow the exclusion or limitation of consequential, incidental or special damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

NOTES

300 Windsor Drive Oak Brook, IL 60523 LiftMaster.com

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01-39381B



Purchasing Division

ADDENDUM NO. 1

DATE:October 27, 2022FROM:City of Grand Junction Purchasing DivisionTO:All OfferorsRE:WWTP Improvements & Asset Replacement IFB-5131-22-KH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

- Q: Is there flexibility to begin construction after the Christmas Holiday?
 A: Yes, construction may begin after Christmas, but no later than Monday January 9th.
- Q: Does the City want a 5-code or 250-code keypad system for the gate?
 A: The keypad should support a 5-code system.
- Q: How many remotes does the City want for the gate?
 A: 24 remotes will be required for the motorized gate entry.
- Q: What color privacy slats are specified for the chain link fence?
 A: Beige.
- 5. Q: How would the City like the chain link fence, north of the existing gravel parking lot, to be reset?
 A: The contractor can utilize either core drilling or a metal plate to reset the existing fence.
- Q: What type of tree protection will be required during construction?
 A: Please, refer to the City's tree protection standard details and specifications for requirements regarding the tree protection.
- Q: Can the City perform the required tree removal before project construction?
 A: Yes, the City will perform the tree removal in advance of the construction contract. This task will be eliminated from the project scope. The bid schedule has been amended to reflect these changes.
- Q: How will the project connect to the existing asphalt on B ½ Road?
 A: A 2' minimum of Cold Patch Asphalt should be applied. The bid schedule has been amended to reflect these changes.

Q: Is the contractor permitted to utilize the Crosspoint Church parking lot for construction staging and equipment storage?
 A: All overnight construction staging, and equipment storage should occur at 251 B ½ Road. Crews may park their vehicles during normal business hours at Crosspoint Church.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Kassy Hackett, Buyer City of Grand Junction, Colorado



Purchasing Division

ADDENDUM NO. 2

DATE:November 2, 2022FROM:City of Grand Junction Purchasing DivisionTO:All OfferorsRE:WWTP Improvements & Asset Replacement IFB-5131-22-KH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

- 1. **Q:** Want to confirm there are no required ADA compliant parking spots? **A:** There are no ADA compliant spots required.
- Q: Is the Concrete pavement specification Class P?
 A: Concrete shall conform to the requirements for Class P.
- Q: Is there a specification or suggested manufacturer for the concrete curb stops. What length 6',7', or 8'. Natural gray or painted yellow.
 A: Concrete curb stops shall be precast 6' natural gray. We do not have a specification or suggested manufacturer for the product.
- Q: Are the thermoplastic lines inlaid, what mil thickness for the lines?
 A: An amendment has been made to the Bid Schedule to change the parking lot striping from thermoplastic lines to Pavement Marking Paint.
- Q: Can the landscape restoration and asphalt patching (no bid item) be completed after the scheduled completion date when weather allows for these items to be properly completed?
 A: Landscape restoration and asphalt patching may occur no later than April 30th, 2023.
- 6. The address listed in Question 9, from Addendum 1, should be corrected to state "251 27 Road".
- 7. The bid schedule has been updated to include Hot Mix Asphalt for asphalt patching and the changes from Addendum 1.
- 8. Final Completion has been amended to April 30th, 2023.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Kassy Hackett, Buyer City of Grand Junction, Colorado

Bid Schedule: WWTP Improvements & Asset Replacement (Addendum 2)

1		Description	Quantity	Units	Unit Price	Total Price
•	202	Removal of Concrete (Includes unclassified excavation)	164.	SY _		
2	202	Removal of Asphalt Mat (Includes unclassified excavation)	732.	SY _		
3	202	Removal of Fence	31.	LF _		
4	202	Removal of Bollard	2.			
5	202	Concrete Washout Facility	1.			
6	208	Reset Gate	1.			
7	210	Reset Chain Link Fence (6')	237.	. –		
8	210	Reset Landscape Ground Cover (Includes sprinkler system)	1.	LS		
9	210	Aggregate Base Course (Class 6) (6" Thick)	42 .	CY _		
10	304	Reconditioning (12" Deep)	83.	SY		
11	401	Hot Bituminous Pavement (Patching) (4" Thick) (Grading SX, PG 64-22) (GYR.=75)(Two 2" Lifts)	50.	SY _		
12	406	Concrete Pavement (8")	1,360.	SY _		
13	412	Concrete Sidewalk (4")	16.	SY _		
14	608	Concrete Curb Stop	14.	EACH _		
15	627	Pavement Marking Paint (4" White Solid)	278.			
16	627	Fence Chain Link (6')	136.			
17	607	Privacy Fance Slats (Beige)	361.			
18	607	Mororized Gate (Includes electrical wiring, motor, fire department access box, 24 remotes, and keypad entry for existing 25'	1.			
19	607	Gate (4' x 6')	1.	EACH _		
20	607	Gate (12' x 6')	1.	EACH _		
21	607	1 1/4" Electrical Conduit	189.			
22	613	Sanitary Facility	1.			
23	620	Construction Surveying (Includes As-Built Drawings)	1.			
23	625	Mobilization	1.	LS _		
24	626	Traffic Control (Complete in Place)	1.			
ИС R		Minor Contract Revisions				\$ 15,000.00
-			Bid An	nount:	\$_	

Bid Amount:

dollars

Did Date: 11/13/2022

4. Contractor's Bid Form

Bid Date. Thronzozz			
Project: IFB-5131-22-KH "WWTP Improv	ements & Asset Replacement"	62	
Bidding Company: Agave Construct	ion, LLC		
Name of Authorized Agent: Leo Pace Email leo@agave-construction.cor			
Telephone (970) 245-1407	Address 623 25 Rd		
city_Grand Junction	State_CO		

The undersigned Bidder, in compliance with the Invitation for Bids, having examined the Instruction to Bidders, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed work, hereby proposes to furnish all labor, materials and supplies, and to perform all work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Bidders, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

Prices in the bid proposal have not knowingly been disclosed with another provider and will not be prior to award.

- Prices in this bid proposal have been arrived at independently, without consultation, communication or agreement for the
 purpose of restricting competition.
- No attempt has been made nor will be to induce any other person or firm to submit a bid proposal for the purpose of restricting competition.
- The individual signing this bid proposal certifies they are a legal agent of the offeror, authorized to represent the offeror and
 is legally responsible for the offer with regard to supporting documentation and prices provided.
- Direct purchases by the City of Grand Junction are tax exempt from Colorado Sales or Use Tax. Tax exempt No. 98-03544. The undersigned certifies that no Federal, State, County or Municipal tax will be added to the above quoted prices.
- City of Grand Junction payment terms shall be Net 30 days.
- Prompt payment discount of <u>N/A</u> percent of the net dollar will be offered to the Owner if the invoice is paid within <u>N/A</u> days after the receipt of the invoice. The Owner reserves the right to take into account any such discounts when determining the bid award that are no less than Net 10 days.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: 2____.

It is the responsibility of the Bidder to ensure all Addenda have been received and acknowledged.

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: Agave Cor	struction, LLC	
Authorized Signature:	Leo face	
Title: President	0,	

The undersigned Bidder proposes to subcontract the following portion of Work:

Name & address of Sub-Contractor	Description of work to be performed	% of Contract
Rolland Consulting Engineers	Surveying	2
Straight Edge Striping	Striping	.5
Straight Edge Striping	Striping	

The undersigned Bidder acknowledges the right of the City to reject any and all Bids submitted and to waive informalities and irregularities therein in the City's sole discretion.

By submission of the Bid, each Bidder certifies, and in the case of a joint Bid each party thereto certifies as to his own organization, that this Bid has been arrived at independently, without collusion, consultation, communication, or agreement as to any matter relating to this Bid with any other Bidder or with any competitor.

Bid Schedule: WWTP Improvements & Asset Replacement (Addendum 2)

Agave Construction, LLC

No.	CDOT, City Ref.	Description	Quantity	Units	Unit Price	Total Price
1	202	Removal of Concrete (Includes unclassified excavation)	164.	SY	38.00	6,232.00
2	202	Removal of Asphalt Mat (Includes unclassified excavation)	732.	SY	36.00	26,352.00
3	202	Removal of Fence	31.	LF	8.00	248.00
4	202	Removal of Bollard	2.	EACH	55.00	110.00
5	202	Concrete Washout Facility	1.		800.00	800.008
6	208	Reset Gate	1.	EACH		800.00
7	210	Reset Chain Link Fence (6')	237.	LF	21.00	4,977.00
8	210	Reset Landscape Ground Cover (Includes sprinkler system)	1.	LS	3,000.00	3,000.00
9	210	Aggregate Base Course (Class 6) (6" Thick)	42.	CY	70.50	2,961.00
10	304	Reconditioning (12" Deep)	83.	SY	12.00	996.00
11	401	Hot Bituminous Pavement (Patching) (4" Thick) (Grading SX, PG 64-22) (GYR.=75)(Two 2" Lifts)	50.	SY	103.50	5,175.00
12	406	Concrete Pavement (8")	1,360.	SY	100.00	136,000.00
13	412	Concrete Sidewalk (4")	16.	SY	82.00	1,312.00
14	608	Concrete Curb Stop	14.	EACH	600.00	8,400.00
15	627	Pavement Marking Paint (4" White Solid)	278.	LF	5.00	1,390.00
16	627	Fence Chain Link (6')	136.	LF	28.00	3,808.00
17	607	Privacy Fance Slats (Beige)	361.	LF	5.00	1,805.00
18	607	Mororized Gate (Includes electrical wiring, motor, fire department access box, 24 remotes, and keypad entry for existing 25'	1.	LS	16,500.00	16,500.00
19	607	Gate (4' x 6')	1.	EACH	800.00	800.00
20	607	Gate (12' x 6')	1.	EACH	1,200.00	1,200.00
21	607	1 1/4" Electrical Conduit	189.	LF	17.50	3,307.50
22	613	Sanitary Facility	1.	EACH	650.00	650.00
23	620	Construction Surveying (Includes As-Built Drawings)	1.	LS	6,500.00	6,500.00
23	625	Mobilization	1.	LS	30,000.00	30,000.00
24	626	Traffic Control (Complete in Place)	1.	LS	1,200.00	1,200.00
AC R		Minor Contract Revisions				\$ 15,000.0
			Bid An	nount:	\$	279,523.50

Two hundred seventy nine thousand, five hundred twenty three and fifty cents

dollars

ATA Document A310[™] – 2010

Bid Bond

CONTRACTOR:

(Name, legal status and address) Agave Construction, LLC 623 25 Road Grand Junction, CO 81505

OWNER:

(Name. legal status and address) City of Grand Junction 250 North Fifth Street Grand Junction, CO 81501

SURETY:

(Name, legal status and principal place of business) American Southern Insurance Company 365 Northridge Road, Suite 400 Atlanta, GA 30350

BOND AMOUNT: FIVE Percent of Amount Bid Penal Sum Not to Exceed Twenty Thousand and 00/100 Dollars (5% NTE \$20,000.00)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

PROJECT:

(Name, location or address, and Project number, if any) IFB-5131-22-KH WWTP Improvements & Asset Replacement

Project Number, if any: IFB-5131-22-KH

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and scaled this	14th	day of November , 2022 .
		Agave Construction, LLC
		(Principal) feo face - President
(Witness)		Alo race - President
1.		(Think)
Mr. NA		Amercian Southern Insurance Company
Alici AD	uarly /	(Seal)
(Witness)	1	Stefan E. Tauger , Attorney In Fact
	V	(Title)

AMERICAN SOUTHERN INSURANCE COMPANY

Home Office: 3715 Northside Parkway, NW Suite 4-800 Atlanta, Georgia 30327

Mailing Address: P O Box 723030 Atlanta, GA 31139-0030

GENERAL POWER OF ATTORNEY

Know all men by these Presents, that the American Southern Insurance Company had made, constituted and appointed, and by these presents does make, constitute and appoint Stefan E. Tauger of Parker, Colorado; Scott E. Stoltzner of Hoover, Alabama, Arthur S. Johnson of Atlanta, Georgia; Andrew C. Heaner of Atlanta, Georgia, Jeffery L. Booth of Blacklick, Ohio, James E. Feldner of West Lake, Ohio; David R. Brett of Columbia, South Carolina, Melanie J. Stokes of Atanta, Georgia, Jason S. Centrella of Jacksonville, Florida, Michael J. Brown of Cumming, Georgia; Tamara D. Johnson of Atanta, Georgia: or Omar G. Guerra of Overland Park, Kansas, James A. Mallis of Charlotte, North Carolina, EACH as its true and lawful attorney for it and its name, place and stead to execute on behalf of the said company, as surety, bonds, undertakings and contracts of suretyship to be given to all obligees provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount of the sum of \$1,000,000 (one million dollars), including but not limited to consents of surety for the release of retained percentages and/or final estimates on construction contracts or similar authority requested by the Department of Transportation. State of Florida; and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of the presents, shall be as binding upon the Company as if they had been duly signed by the President and attested by the Secretary of the Company in their own proper persons.

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted pursuant to due authorization by the Executive Committee of the Board of Directors of the American Southern Insurance Company on the 26th day of May, 1998:

RESOLVED, that the Chairman, President or any Vice President of the Company be, and that each or any of them hereby is, authorized to execute Powers of Attorney qualifying the attorney named in the given Power of Attorney to execute in behalf of the American Southern Insurance Company bonds, undertakings and all contracts of suretyship; and that any Secretary or any Assistant Secretary be, and that each or any of them hereby is, authorized to attest the execution of any such Power of Attorney, and to attach thereto the seal of the Company.

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company when so affixed and in the future. with respect to any bond undertaking or contract of suretyship to which it is attached.

In Witness Whereof, the American Southern Insurance Company has caused its official seal to be hereto affixed, and these presents to be signed by its President and attested by its Secretary this 25th day of February ERN INSURA 2021 aniller,

By

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Attest mould Melonie A. Coppola, Secretary

\$5

STATE OF GEORGIA

SS COUNTY OF FULTON

2021 before me personally came Scott G. Thompson to me known, who being by me duly sworn, did On this 25th day of February depose and say that he resides in Atlanta, in the County of Fullon. State of Georgia, at 421 Hollydale Court, that he is the President of American Southern insurance Company the corporation described in and which executed the above instrument; that he knows the seal of the said corporation, that the seal Johce innin affixed to the said instrument is such corporate seal; that it was so affixed and that he signed his name thereto pursuant to due authorgade τ EAN

Scott G

STATE OF GEORGIA

COUNTY OF FULTON

han andac Candace T Cheatham Notary Public, State of Georgia Qualified in DeKalb County

Commission Expires May 3, 2022

American Southern Insurance Company

hompson, President

Commissio,

NOTARL

UBLIC

I, the undersigned, a Vice President of American Southern Insurance Company, a Kansas Corporation, DO HEREBY CERCIPY that the and attached Power of Attorney remains in full force and has not been revoked, and, furthermore, that the Resolution of the Executive Contributes of the (I JI HILLING VI Board of Directors set forth in the Power of Attorney is row in force

Sign	ed and sealed at the City of Atlanta, Dated the		2022	
		John R. Huot	Narat -	
Power No.	52816	Vice Presiden	t	

1936

Sol



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 11/02/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED DEEDEESENTATIVE OF PRODUCCED AND THE CERTIFICATE HOLDER											
REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER. IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on											
this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).											
					NAME: NOOdy-valley insurance Agency						
	ody-Valley Insurance Agency, Inc.				(A/C, No; Ext): (A/C, No): (A/C,						
760 Horizon Drive, Suite 302					ADDRESS: Controlocity in Story						
Gra	and Junction			CO 81506	INSURER(S) AFFORDING COVERAGE				NAIC # 19259		
	URED			00 01000					41190		
	Agave Construction LL	С				INSURER B : Pinnacoi Assurance 41 INSURER C :					
	623 25 Rd				INSURE						
					INSURE						
	Grand Junction			CO 81505-1201	INSURE						
со	VERAGES	CERTIFI	CATE	NUMBER: 22/23 Master	REVISION NUMBER:				ł		
	THIS IS TO CERTIFY THAT THE POLI										
INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.											
INSR LTR	TYPE OF INSURANCE		SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s		
							· · · ·	EACH OCCURRENCE	\$ 1,00	00,000	
		JR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 500	,000	
								MED EXP (Any one person)	\$ 15,0	000	
Α		Y		S2325567		05/10/2022	05/10/2023	PERSONAL & ADV INJURY	φ	0,000	
		E .						GENERAL AGGREGATE	\$ 3,00	0,000	
		c						PRODUCTS - COMP/OP AGG	\$ 3,00	0,000	
	OTHER:								\$		
								COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000		
\times							05/10/2023	BODILY INJURY (Per person)	\$		
Α	OWNED SCHEDU AUTOS ONLY AUTOS			S2325567		05/10/2022		BODILY INJURY (Per accident)	\$		
	AUTOS ONLY AUTOS C							PROPERTY DAMAGE (Per accident)	\$		
									\$		
•		JR		00005567		05/40/2022	05/10/2022	EACH OCCURRENCE	¥	0,000	
Α		MS-MADE		S2325567		05/10/2022	05/10/2023	AGGREGATE	\$ 1,00	0,000	
DED X RETENTION \$ 0							X PER OTH-	\$			
AND EMPLOYERS' LIABILITY Y/N ANY PROPRIETOR/PARTNER/EXECUTIVE N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		<u>Y/N</u>							\$ 1,000,000		
				4192296	05/01/2022	05/01/2023		1 000 000			
								E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	s 1,000,000		
								Limit ACV	50,000		
Α	Leased & Rented Equipment			S2325567		05/10/2022	05/10/2023	Deductible	1,00	0	
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) City of Grand Junction and its elected and appointed officals, employees, and volunteers are included as additional insured in regards to the appropriate policies only.											
CERTIFICATE HOLDER CANCELLATION											
City of Grand Junction 250 N 5th St					SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.						
Grand Junction				CO 81501	Noody-Valley Insurance Agenary						

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AGENCY CUSTOMER ID: _____



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ADDITIONAL		RKS SCHEDULE	Page	_ of
AGENCY		NAMED INSURED		
Moody-Valley Insurance Agency, Inc.		Agave Construction LLC		
POLICY NUMBER		-		
CARRIER	NAIC CODE			
		EFFECTIVE DATE:		
ADDITIONAL REMARKS				
THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACOR	D FORM,			
FORM NUMBER: 25 FORM TITLE: Certificate of Liabilit		otes		
CONTRACTUAL LIABILITY APPLIES PER POLICY TERMS AND COND	ITIONS			
General Liability: Blanket Additional Insured status applies only to the extent provided in for Blanket Waiver of Subrogation applies only to the extent provided in form Primary and Non-Contributory status only to the extent provided in form C Designated Project & Location General Aggregate applies only to the exter contract.	CG 7300 0119 CG 7300 0119 v) when required by written contract. when required by written contract.		
Auto Liability: Blanket Additional Insured status applies only to the extent provided in for Blanket Waiver of Subrogation applies only to the extent provided in form Primary and Non-Contributory status only to the extent provided in form C	CA 7809 0117	when required by written contract.		
Excess Liability: Excess Liability policy is on a follow form basis for the following underlying Liability. Additional insured status will follow when required by written con contract.				
Worker's Compensation: 359-B From Attached Includes Blanket Waiver of Subrogation. Status app	blies when requ	ired by written contract.		
IMPORTANT: The policy forms referenced will be sent via email only. To obtain copies,	please send yo	our request with the email address to certrequestgj@moodyins.co) m	



7501 E. Lowry Blvd. Denver, CO 80230-7006 303.361.4000 / 800.873.7242 Pinnacol.com

NCCI #: WC000313B Policy #: 4192296

Agave Construction, LLC 623 25 Road Grand Junction, CO 81505 Moody-Valley Insurance Agency, Inc. 760 Horizon Drive #302 Grand Junction, CO 81506-1509 (970) 243-3421

ENDORSEMENT: Blanket Waiver of Subrogation

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

SCHEDULE

To any person or organization when agreed to under a written contract or agreement, as defined above and with the insured, which is in effect and executed prior to any loss.

Effective Date: May 1, 2022 Expires on: May 1, 2023 Pinnacol Assurance has issued this endorsement May 2, 2022

DESIGNATED CONSTRUCTION PROJECT(S) GENERAL AGGREGATE LIMIT

POLICY NUMBER: s 2325567

COMMERCIAL GENERAL LIABILITY CG 25 03 05 09

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Designated Construction Project(s): ALL CONSTRUCTION PROJECTS OF YOURS AND LOCATIONS AT WHICH YOU ARE PERFORMING SERVICE WORK FOR WHICH COVERAGE IS PROVIDED UNDER THIS POLICY.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

- A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section I Coverage A, and for all medical expenses caused by accidents under Section I Coverage C, which can be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:
 - 1. A separate Designated Construction Project General Aggregate Limit applies to each designated construction project, and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
 - The Designated Construction Project General Aggregate Limit is the most we will pay for the sum of all damages under Coverage A, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under Coverage C regardless of the number of:
 - a. Insureds;
 - **b.** Claims made or "suits" brought; or
 - c. Persons or organizations making claims or bringing "suits".
 - 3. Any payments made under Coverage A for damages or under Coverage C for medical expenses shall reduce the Designated Construction Project General Aggregate Limit for that designated construction project. Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Construction Project General Aggregate Limit for any other designated construction project shown in the Schedule above.

- 4. The limits shown in the Declarations for Each Occurrence, Damage To Premises Rented To You and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Construction Project General Aggregate Limit.
- B. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section I Coverage A, and for all medical expenses caused by accidents under Section I Coverage C, which cannot be attributed only to ongoing operations at a single designated construction project shown in the Schedule above:
 - Any payments made under Coverage A for damages or under Coverage C for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-completed Operations Aggregate Limit, whichever is applicable; and
 - 2. Such payments shall not reduce any Designated Construction Project General Aggregate Limit.
- C. When coverage for liability arising out of the "products-completed operations hazard" is provided, any payments for damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard" will reduce the Products-completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Construction Project General Aggregate Limit.

- D. If the applicable designated construction project has been abandoned, delayed, or abandoned and then restarted, or if the authorized contracting parties deviate from plans, blueprints, designs, specifications or timetables, the project will still be deemed to be the same construction project.
- E. The provisions of SECTION III Limits Of Insurance not otherwise modified by this endorsement shall continue to apply as stipulated.

DESIGNATED LOCATION(S) GENERAL AGGREGATE LIMIT

POLICY NUMBER: s 2325567

COMMERCIAL GENERAL LIABILITY CG 25 04 05 09

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Designated Location(s): SUBJECT TO THE TERMS AND CONDITIONS OF THIS POLICY, EACH DESIGNATED LOCATION LISTED ON THE SCHEDULE OF LOCATIONS SHOWN ON THE DECLARATION PAGE FOR THIS POLICY.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

- A. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section I Coverage A, and for all medical expenses caused by accidents under Section I Coverage C, which can be attributed only to operations at a single designated "location" shown in the Schedule above:
 - 1. A separate Designated Location General Aggregate Limit applies to each designated "location", and that limit is equal to the amount of the General Aggregate Limit shown in the Declarations.
 - The Designated Location General Aggregate Limit is the most we will pay for the sum of all damages under Coverage A, except damages because of "bodily injury" or "property damage" included in the "products-completed operations hazard", and for medical expenses under Coverage C regardless of the number of:
 - a. Insureds;
 - b. Claims made or "suits" brought; or
 - c. Persons or organizations making claims or bringing "suits".
 - 3. Any payments made under Coverage A for damages or under Coverage C for medical expenses shall reduce the Designated Location General Aggregate Limit for that designated "location". Such payments shall not reduce the General Aggregate Limit shown in the Declarations nor shall they reduce any other Designated Location General Aggregate Limit for any other designated "location" shown in the Schedule above.

- 4. The limits shown in the Declarations for Each Occurrence, Damage To Premises Rented To You and Medical Expense continue to apply. However, instead of being subject to the General Aggregate Limit shown in the Declarations, such limits will be subject to the applicable Designated Location General Aggregate Limit.
- B. For all sums which the insured becomes legally obligated to pay as damages caused by "occurrences" under Section I Coverage A, and for all medical expenses caused by accidents under Section I Coverage C, which cannot be attributed only to operations at a single designated "location" shown in the Schedule above:
 - Any payments made under Coverage A for damages or under Coverage C for medical expenses shall reduce the amount available under the General Aggregate Limit or the Products-completed Operations Aggregate Limit, whichever is applicable; and
 - 2. Such payments shall not reduce any Designated Location General Aggregate Limit.
- C. When coverage for liability arising out of the "products-completed operations hazard" is provided, any payments for damages because of "bodily injury' or "property damage" included in the "products-completed operations hazard" will reduce the Products-completed Operations Aggregate Limit, and not reduce the General Aggregate Limit nor the Designated Location General Aggregate Limit.

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D. For the purposes of this endorsement, the **Definitions** Section is amended by the addition of the following definition:

"Location" means premises involving the same or connecting lots, or premises whose connection is interrupted only by a street, roadway, waterway or right-of-way of a railroad.

E. The provisions of SECTION III — Limits Of Insurance not otherwise modified by this endorsement shall continue to apply as stipulated.

ElitePac[®] General Liability Extension Endorsement

COMMERCIAL GENERAL LIABILITY CG 73 00 01 19

SUMMARY OF COVERAGES (including index)

This is a summary of the various additional coverages and coverage modifications provided by this endorsement. No coverage is provided by this summary. Refer to the actual endorsement (Pages 3-through-9) for changes affecting your insurance protection.

DESCRIPTION	PAGE FOUND
Additional Insureds - Primary and Non-Contributory Provision	Page 8
Blanket Additional Insureds - As Required By Contract	Page 5
 Owners, Lessees or Contractors (includes Architects, Engineers or Surveyors Lessors of Leased Equipment Managers or Lessors of Premises Mortgagees, Assignees and Receivers Any Other person or organization other than a joint venture Grantors of Permits 	
Broad Form Vendors Coverage	Page 7
Damage To Premises Rented To You (Including Fire, Lightning or Explosion)	Page 3
Electronic Data Liability (\$100,000)	Page 4
Employee Definition Amended	Page 9
Employees As Insureds Modified	Page 5
Employer's Liability Exclusion Amended (Not applicable in New York)	Page 3
Incidental Malpractice Exclusion modified	Page 7
Knowledge of Occurrence, Claim, Suit or Loss	Page 7
Liberalization Clause	Page 8
Mental Anguish Amendment (Not applicable to New York)	Page 9
Newly Formed or Acquired Organizations	Page 5
Non-Owned Aircraft	Page 3
Non-Owned Watercraft (under 60 feet)	Page 3
Not-for-profit Members - as additional insureds	Page 5
Personal And Advertising Injury - Discrimination Amendment (Not applicable in New York)	Page 8
Products Amendment (Medical Payments)	Page 4
Supplementary Payments Amended - Bail Bonds (\$5,000) and Loss of Earnings (\$1,000)	Page 4
Two or More Coverage Parts or Policies Issued By Us	Page 8
Unintentional Failure to Disclose Hazards	Page 8
Waiver of Transfer of Rights of Recovery (subrogation)	Page 8
When Two or More Coverage Parts of this Policy Apply to a Loss	Page 3
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CG 73 00 01 19 Page 2 of 9

ElitePac[®] General Liability Extension Endorsement

COMMERCIAL GENERAL LIABILITY CG 73 00 01 19

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies the insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

The **SECTIONS** of the Commercial General Liability Coverage Form identified in this endorsement will be amended as shown below. However, **if (a) two or more Coverage Parts of this policy, or (b) two or more forms or endorsements within the same Coverage Part apply to a loss,** coverage provision(s) with the broadest language will apply, unless specifically stated otherwise within the particular amendment covering that loss.

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

COVERAGES - Amendments

SECTION I - COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY

EXCLUSIONS

Employer's Liability Amendment

(This provision is not applicable in the State of New York).

The following is added to Exclusion e. Employer's Liability under COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY, 2. Exclusions:

This exclusion also does not apply to any "temporary worker".

Non-Owned Aircraft, Auto or Watercraft

- A. Paragraph (2) of Exclusion g. Aircraft, Auto Or Watercraft under COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY, 2. Exclusions is deleted in its entirety and replaced with the following:
 - (2) A watercraft you do not own that is:
 - (a) Less than 26 feet long and not being used to carry persons or property for a charge; or
 - (b) At least 26 feet, but less than 60 feet long, and not being used to carry persons or property for a charge. Any person is an insured who uses or is responsible for the use of such watercraft with your expressed or implied consent. However, if the insured has any other valid and collectible insurance for "bodily injury" or "property damage" that would be covered under this provision, or on any other basis, this coverage is then excess, and subject to Condition 4. Other Insurance, b. Excess Insurance under SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS.

B. The following is added to Exclusion g. Aircraft, Auto Or Watercraft under COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY, 2. Exclusions:

This exclusion does not apply to:

(6) Any aircraft, not owned or operated by any insured, which is hired, chartered or loaned with a paid crew. However, if the insured has any other valid and collectible insurance for "bodily injury" or "property damage" that would be covered under this provision, or on any other basis, this coverage is then excess, and subject to Condition 4. Other Insurance, b. Excess Insurance under SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS.

Damage To Premises Rented to You

A. The last paragraph of Paragraph 2. Exclusions under COVERAGE A BODILY INJURY AND PROPERTY DAMAGE is deleted in its entirety and replaced with the following:

Exclusions c. through n. do not apply to damage by fire, lightning or explosion to premises rented to you or temporarily occupied by you with the permission of the owner. A separate limit of insurance applies to this coverage as described in SECTION III -LIMITS OF INSURANCE.

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- B. Paragraph 6. under SECTION III LIMITS OF INSURANCE is deleted in its entirety and replaced with the following:
 - 6. Subject to Paragraph 5. above, the most we will pay under COVERAGE A for damages because of "property damage" to any one premises, while rented to you, or in the case of damage caused by fire, lightning or explosion, while rented to you or temporarily occupied by you with permission of the owner, for all such damage caused by fire, lightning or explosion proximately caused by the same event, whether such damage results from fire, lightning or explosion or any combination of the three, is the amount shown in the Declarations for the Damage To Premises Rented To You Limit.
- C. Paragraph a. of Definition 9. "Insured contract" under SECTION V - DEFINITIONS is deleted in its entirety and replaced with the following:
 - a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire, lightning or explosion to premises while rented to you or temporarily occupied by you with the permission of the owner is not an "insured contract";

Electronic Data Liability

- A. Exclusion p. Access or Disclosure Of Confidential Or Personal Information And Data-related Liability under COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY, 2. Exclusions is deleted in its entirety and replaced by the following:
 - p. Access or Disclosure Of Confidential Or Personal Information And Data-related Liability

Damages arising out of:

- (1) Any access to or disclosure of any person's or organization's confidential or personal information, including patents, trade secrets, processing methods, customer lists, financial information, credit card information or any other type of nonpublic information; or
- (2) The loss of, loss of use of, damage to, corruption of, inability to access, or inability to manipulate "electronic data" that does not result from physical injury to tangible property.

This exclusion applies even if damages are claimed for notification costs, credit monitoring expenses, forensic expenses, public relations expenses or any other loss, cost or expense incurred by you or others arising out of that which is described in Paragraph (1) or (2) above.

B. The following paragraph is added to SECTION III - LIMITS OF INSURANCE:

Subject to 5. above, the most we will pay under **COVERAGE A** for "property damage" because of all loss of "electronic data" arising out of any one "occurrence" is a sub-limit of \$100,000.

SECTION I - COVERAGE C MEDICAL PAYMENTS EXCLUSIONS

Any Insured Amendment

Exclusion **a.** Any Insured under COVERAGE C MEDICAL PAYMENTS, 2. Exclusions is deleted in its entirety and replaced with the following:

- a. Any Insured
 - To any insured.

This exclusion does not apply to:

- (1) "Not-for-profit members";
- (2) "Golfing facility" members who are not paid a fee, salary, or other compensation; or
- (3) "Volunteer workers".

This exclusion exception does not apply if **COVERAGE C MEDICAL PAYMENTS** is excluded by another endorsement to this Coverage Part.

Product Amendment

Exclusion f. Products-Completed Operations Hazard under COVERAGE C MEDICAL PAYMENTS, 2. Exclusions is deleted in its entirety and replaced with the following:

f. Products-Completed Operations Hazard

Included within the "products-completed operations hazard".

This exclusion does not apply to "your products" sold for use or consumption on your premises, while such products are still on your premises.

This exclusion exception, does not apply if **COVERAGE C MEDICAL PAYMENTS** is excluded by another endorsement to this Coverage Part.

SECTION I - SUPPLEMENTARY PAYMENTS -COVERAGES A AND B

Expenses For Bail Bonds And Loss Of Earnings

- A. Subparagraph 1.b. under SUPPLEMENTARY PAYMENTS - COVERAGES A AND B is deleted in its entirety and replaced with the following:
 - **b.** Up to \$5,000 for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

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- B. Subparagraph 1.d. under SUPPLEMENTARY PAYMENTS - COVERAGES A AND B is deleted in its entirety and replaced with the following:
 - d. All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to \$1,000 a day because of time off from work.

SECTION II - WHO IS AN INSURED - Amendments

Not-for-Profit Organization Members

The following paragraph is added to **SECTION II - WHO IS AN INSURED**:

If you are an organization other than a partnership, joint venture, or a limited liability company, and you are a not-for-profit organization, the following are included as additional insureds:

- 1. Your officials;
- 2. Your trustees;
- 3. Your members;

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- 4. Your board members;
- 5. Your commission members;
- 6. Your agency members;
- 7. Your insurance managers;
- 8. Your elective or appointed officers; and
- 9. Your "not-for-profit members".

However only with respect to their liability for your activities or activities they perform on your behalf.

Employees As Insureds Modified

- A. Subparagraph 2.a.(1)(a) under SECTION II WHO IS AN INSURED does not apply to "bodily injury" to a "temporary worker" caused by a co-"employee" who is not a "temporary worker".
- B. Subparagraph 2.a.(2) under SECTION II WHO IS AN INSURED does not apply to "property damage" to the property of a "temporary worker" or "volunteer worker" caused by a co-"employee" who is not a "temporary worker" or "volunteer worker".
- C. Subparagraph 2.a.(1)(d) under SECTION II WHO IS AN INSURED does not apply to "bodily injury" caused by cardio-pulmonary resuscitation or first aid services administered by a co-"employee".

With respect to this provision only, Subparagraph (1) of Exclusion 2. e. Employer's Liability under SECTION I - COVERAGES, COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY does not apply.

Newly Formed Or Acquired Organizations

A. Subparagraph 3.a. under SECTION II - WHO IS AN INSURED is deleted in its entirety and replaced with the following:

- a. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier. However, **COVERAGE A** does not apply to "bodily injury" or "property damage" that occurred before you acquired or formed the organization.
- B. The following paragraph is added to SECTION II - WHO IS AN INSURED, Paragraph 3:

If you are engaged in the business of construction of dwellings three stories or less in height, or other buildings three stories or less in height and less than 25,000 square feet in area, you will also be an insured with respect to "your work" only, for the period of time described above, for your liability arising out of the conduct of any partnership or joint venture of which you are or were a member, even if that partnership or joint venture is not shown as a Named Insured. However, this provision only applies if you maintain or maintained an interest of at least fifty percent in that partnership or joint venture for the period of that partnership or joint venture.

This provision does not apply to any partnership or joint venture that has been dissolved or otherwise ceased to function for more than thirty-six months.

With respect to the insurance provided by this provision, **Newly Formed or Acquired Organizations**, the following is added to **SECTION IV - COMMERCIAL GENERAL LIABILITY**, Paragraph 4. Other Insurance, Subparagraph b. Excess Insurance:

The insurance provided by this provision, **Newly Formed or Acquired Organizations**, is excess over any other insurance available to the insured, whether primary, excess, contingent or on any other basis.

(All other provisions of this section remain unchanged)

Blanket Additional Insureds - As Required By Contract

Subject to the **Primary and Non-Contributory** provision set forth in this endorsement, **SECTION II - WHO IS AN INSURED** is amended to include as an additional insured:

A. Owners, Lessees or Contractors/Architects, Engineers and Surveyors

1. Any person or organization for whom you are performing operations when you and such person or organization have agreed in a written contract, written agreement or written permit that such person or organization be added as an additional insured on your commercial general liability policy; and 2. Any other person or organization, including any architects, engineers or surveyors not engaged by you, whom you are required to add as an additional insured under your policy in the contract or agreement in Paragraph 1. above:

Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

- a. Your acts or omissions; or
- **b.** The acts of omissions of those acting on your behalf;

in the performance of your ongoing operations performed for the additional insured in Paragraph 1., above.

However, this insurance does not apply to:

"Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services by or for you, including:

- a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; and
- **b.** Supervisory, inspection, architectural or engineering activities.

Professional services do not include services within construction means, methods, techniques, sequences and procedures employed by you in connection with your operations in your capacity as a construction contractor.

A person or organization's status as an additional insured under this endorsement ends when your operations for the person or organization described in Paragraph **1**. above are completed.

B. Other Additional Insureds

Any of the following persons or organizations with whom you have agreed in a written contract, written agreement or written permit that such persons or organizations be added as an additional insured on your commercial general liability policy:

1. Lessors of Leased Equipment

Any person or organization from whom you lease equipment, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your maintenance, operation or use of equipment leased to you by such person or organization. With respect to the insurance afforded to these additional insureds, this insurance does not apply to any "occurrence" which takes place after the equipment lease expires.

2. Managers or Lessors of Premises

Any person or organization from whom you lease premises, but only with respect to liability arising out of the ownership, maintenance or use of that part of the premises leased to you.

This insurance does not apply to any "occurrence" which takes place after you cease to be a tenant of that premises.

3. Mortgagees, Assignees or Receivers

Any person or organization with respect to their liability as mortgagee, assignee or receiver and arising out of the ownership, maintenance or use of your premises.

This insurance does not apply to any "occurrence" which takes place after the mortgage is satisfied, or the assignment or receivership ends.

4. Any Person or Organization Other Than A Joint Venture

Any person or organization (other than a joint venture of which you are a member), but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts of omissions of those acting on your behalf in the performance of your ongoing operations or in connection with property owned by you.

5. State or Governmental Agency or Political Subdivision - Permits or Authorizations

Any state or governmental agency or subdivision or political subdivision, but only with respect to:

- Operations performed by you or on your behalf for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization; or
- b. The following hazards for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization in connection with premises you own, rent or control and to which this insurance applies:

- (1) The existence, maintenance, repair, construction, erection or removal of advertising signs, awnings, canopies, cellar entrances, coal holes, driveways, manholes, marquees, hoist away openings, sidewalk vaults, street banners or decorations and similar exposures;
- (2) The construction, erection or removal of elevators; or
- (3) The ownership, maintenance or use of any elevators covered by this insurance.

This insurance does not apply to:

- (a) "Bodily injury" or "property damage" arising out of operations performed for the federal government, state or municipality; or
- (b) "Bodily injury" or "property damage" included within the "products-completed operations hazard".

With respect to Paragraphs **2**. through **4.**, this insurance does not apply to structural alterations, new construction or demolition operations performed by or on behalf of such person or organization.

The provisions of this coverage extension do not apply unless the written contract or written agreement has been signed by the Named Insured or written permit issued prior to the "bodily injury" or "property damage" or "personal and advertising injury".

Broad Form Vendors Coverage

Subject to the **Primary and Non-Contributory** provision set forth in this endorsement, **SECTION II** -**WHO IS AN INSURED** is amended to include as an additional insured any person or organization (referred to below as vendor) for whom you have agreed in a written contract or written agreement to provide coverage as an additional insured under your policy. Such person or organization is an additional insured only with respect to "bodily injury" or "property damage" arising out of "your products" which are distributed or sold in the regular course of the vendor's business. However, the insurance afforded the vendor does not apply to:

- a. "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement; however this exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;
- b. Any express warranty unauthorized by you;

- **c.** Any physical or chemical change in the product made intentionally by the vendor;
- d. Repackaging, unless unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;
- e. Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business in connection with the sale of the product; or
- f. Products which, after distribution or sale by you, have been labeled or re-labeled or used as a container, part of ingredient of any other thing or substance by or for the vendor; however this insurance does not apply to any insured person or organization, from who you have acquired such products, or any ingredient, part or container, entering into, accompanying or containing such products.

The provisions of this coverage extension do not apply unless the written contract or written agreement has been signed by the Named Insured prior to the "bodily injury" or "property damage".

Incidental Malpractice

Subparagraph 2.a.(1)(d) under SECTION II - WHO IS AN INSURED is deleted in its entirety and replaced with the following:

(d) Arising out of his or her providing or failing to provide professional health care services.

This does not apply to nurses, emergency medical technicians or paramedics if you are not in the business or occupation of providing any such professional services.

This also does not apply to "bodily injury" caused by cardio-pulmonary resuscitation or first aid services administered by a co-"employee".

This provision does not apply if you are a Social Service or Senior Living risk.

SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS - Amendments

Knowledge Of Occurrence, Claim, Suit Or Loss

The following is added to Paragraph 2. Duties in the Event of Occurrence, Offense, Claim or Suit under SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:

The requirements under this paragraph do not apply until after the "occurrence" or offense is known to:

- 1. You, if you are an individual;
- 2. A partner, if you are a partnership;

- **3.** An "executive officer" or insurance manager, if you are a corporation;
- 4. Your members, managers or insurance manager, if you are a limited liability company; or
- 5. Your elected or appointed officials, officers, members, trustees, board members, commission members, agency members, or your administrator or your insurance manager if you are an organization other than a partnership, joint venture, or limited liability company.

Primary and Non-Contributory Provision

The following is added to Paragraph 4. Other Insurance, b. Excess Insurance under SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:

This insurance is primary to and we will not seek contribution from any other insurance available to an additional insured under this policy provided that:

- (1) The additional insured is a Named Insured under such other insurance; and
- (2) You have agreed in a written contract, written agreement or written permit that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.

Unintentional Failure To Disclose Hazards

The following is added to Paragraph 6. Representations under SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:

However, if you should unintentionally fail to disclose any existing hazards in your representations to us at the inception date of the policy, or during the policy period in connection with any additional hazards, we shall not deny coverage under this Coverage Part based upon such failure to disclose hazards.

Waiver Of Transfer Of Rights Of Recovery

The following is added to Paragraph 8. Transfer of Rights Of Recovery Against Others To Us under SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:

We will waive any right of recovery we may have against a person or organization because of payments we make for "bodily injury" or "property damage" arising out of your ongoing operations or "your work" done under a written contract or written agreement and included in the "products-completed operations hazard", if:

- 1. You have agreed to waive any right of recovery against that person or organization in a written contract or written agreement;
- 2. Such person or organization is an additional insured on your policy; or

3. You have assumed the liability of that person or organization in that same contract, and it is an "insured contract".

The section above only applies to that person or organization identified above, and only if the "bodily injury" or "property damage" occurs subsequent to the execution of the written contract or written agreement.

Liberalization

The following condition is added to SECTION IV - COMMERCIAL GENERAL LIABILITY CONDITIONS:

If we revise this Coverage Part to provide more coverage without additional premium charge, subject to our filed company rules, your policy will automatically provide the additional coverage as of the day the revision is effective in your state.

Two or More Coverage Parts or Policies Issued By Us

(This provision is not Applicable in the state of New York or Wisconsin).

The following condition is added to **SECTION IV** - **COMMERCIAL GENERAL LIABILITY CONDITIONS:**

It is our intention that the various coverage parts or policies issued to you by us, or any company affiliated with us, do not provide any duplication or overlap of coverage. We have exercised diligence to draft our coverage parts and policies to reflect this intention. However, if the facts and circumstances that will respond to any claim or "suit" give rise to actual or claimed duplication or overlap of coverage between the various coverage parts or policies issued to you by us or any company affiliated with us, the limit of insurance under all such coverage parts or policies combined shall not exceed the highest applicable limit under this coverage, or any one of the other coverage forms or policies.

This condition does not apply to any Excess or Umbrella policy issued by us specifically to apply as excess insurance over this coverage part or policy to which this coverage part is attached.

SECTION V - DEFINITIONS

Discrimination

(This provision does not apply in New York).

A. The following is added to Definition **14.** "Personal and advertising injury":

"Personal and advertising injury" also means "discrimination" that results in injury to the feelings or reputation of a natural person, however only if such "discrimination" or humiliation is:

- 1. Not done by or at the direction of:
 - a. The insured; or

- b. Anyone considered an insured under SECTION II WHO IS AN INSURED;
- 2. Not done intentionally to cause harm to another person.
- 3. Not directly or indirectly related to the employment, prospective employment or termination of employment of any person or persons by any insured.
- 4. Not arising out of any "advertisement" by the insured.
- B. The following definition is added to SECTION V DEFINITIONS:

"Discrimination" means:

- a. Any act or conduct that would be considered discrimination under any applicable federal, state, or local statute, ordinance or law;
- **b.** Any act or conduct that results in disparate treatment of, or has disparate impact on, a person, because of that person's race, religion, gender, sexual orientation, age, disability or physical impairment; or
- **c.** Any act or conduct characterized or interpreted as discrimination by a person based on that person's race, religion, gender, sexual orientation, age, disability or physical impairment.

It does not include acts or conduct characterized or interpreted as sexual intimidation or sexual harassment, or intimidation or harassment based on a person's gender.

Electronic Data

The following definition is added to **SECTION V** - **DEFINITIONS**:

"Electronic data" means information, facts or programs stored as or on, created or used on, or transmitted to or from computer software, including systems and applications software, hard or floppy disks, CD-ROMS, tapes, drives, cell, data processing devices or any other media which are used with electronically controlled equipment. For the purpose of the Electronic Data Liability coverage provided by this endorsement, Definition **17**. "Property damage" is deleted in its entirety and replaced by the following:

17. "Property damage" means:

a. Physical injury to tangible property, including all resulting loss of use of that property. All such loss of use shall be deemed to occur at the time of the physical injury that caused it; or **b.** Loss of, loss of use of, damage to, corruption of, inability to access, or inability to properly manipulate "electronic data", resulting from physical injury to tangible property. All such loss of "electronic data" shall be deemed to occur at the time of the "occurrence" that caused it.

For the purpose of the Electronic Data Liability coverage provided by this endorsement, "electronic data" is not tangible property.

Employee Amendment

Definition 5. "Employee" under SECTION V - DEFINITIONS is deleted in its entirety and replaced by the following:

5. "Employee" includes a "leased worker", or a "temporary worker". If you are a School, "Employee" also includes a student teacher.

Golfing Facility

The following definition is added to **SECTION V** - **DEFINITIONS:**

"Golfing facility" means a golf course, golf club, driving range, or miniature golf course.

Mental Anguish Amendment

(This provision does not apply in New York).

Definition **3.** "Bodily injury" under **SECTION V** - **DEFINITIONS** is deleted in its entirety and replaced with the following:

 "Bodily injury" means bodily injury, sickness or disease sustained by a person, including death resulting from any of these at any time. This includes mental anguish resulting from any bodily injury, sickness or disease sustained by a person. (In New York, mental anguish has been determined to be "bodily injury").

Not-for-profit Member

The following definition is added to SECTION V - DEFINITIONS:

"Not-for-profit member" means a person who is a member of a not-for-profit organization, including clubs and churches, who receives no financial or other compensation.

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OTHER INSURANCE CONDITION FOR ADDITIONAL INSUREDS — NON-CONTRIBUTORY - BLANKET BASIS

COMMERCIAL UMBRELLA LIABILITY CXL 449 06 17

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

COMMERCIAL UMBRELLA LIABILITY COVERAGE PART

The following is added to SECTION IV — CONDITIONS, Paragraph H. Other Insurance:

With respect to each additional insured under **SECTION II, WHO IS AN INSURED**, Paragraph **A.5.**, this insurance is (i) excess over any "underlying policy", and (ii) primary to, and we will not seek contribution from, any other insurance providing coverage to any such additional insured whether primary or excess. However, we will not waive our right to seek contribution from other insurance unless:

- a. The additional insured is a Named Insured under such other insurance;
- b. The additional insured is included as an additional insured on an "underlying policy";
- c. You have agreed in a written contract, written agreement or written permit that this insurance would be primary to and/or would not seek contribution from any other insurance provided to the additional insured; and
- **d.** The written contract or written agreement has been executed (executed means signed by the Named Insured) or written permit issued prior to the "bodily injury" or "property damage" or "personal and advertising injury".

The most we will pay on behalf of the additional insured is the amount of insurance required by the written contract, written agreement or written permit, less any amounts payable by any "underlying insurance", subject to **SECTION III** — LIMITS OF INSURANCE.

This provision is included within and does not act to increase the Limits of Insurance stated in the Declarations.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US — BLANKET BASIS

COMMERCIAL UMBRELLA LIABILITY CXL 456 03 20

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

COMMERCIAL UMBRELLA LIABILITY COVERAGE FORM

A. The following is added to Paragraph M. Transfer Of Rights Of Recovery Against Others To Us under SECTION IV - CONDITIONS:

We will waive any right of recovery we may have against a person or organization because of payments we make for "bodily injury" or "property damage" arising out of your ongoing operations or "your work" done under a written contract or written agreement and included in the "products-completed operations hazard". This waiver applies only if, in that same written contract or agreement, you have agreed:

- **1.** To waive any right of recovery against that person or organization;
- 2. To include such person or organization as an additional insured on an "underlying policy"; or
- 3. To assume the liability of that person or organization and that written contract or agreement qualifies as an "insured contract"; and
- **4.** The "underlying insurance" contains a substantially similar waiver of recovery rights.

This endorsement applies only if the "bodily injury" or "property damage" occurs subsequent to all parties' execution of the written contract or written agreement.

B. The following Definition is added to SECTION V - DEFINITIONS:

"Insured contract" means:

- a. A contract for a lease of premises. However, that portion of the contract for a lease of premises that indemnifies any person or organization for damage by fire to premises while rented to you or temporarily occupied by you with permission of the owner is not an "insured contract";
- b. A sidetrack agreement;
- c. Any easement or license agreement, except in connection with construction or demolition operations on or within 50 feet of a railroad;

- **d.** An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;
- e. An elevator maintenance agreement;
- f. That part of any other contract or agreement pertaining to your business (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for "bodily injury" or "property damage" to a third person or organization. Tort liability means a liability that would be imposed by law in the absence of any contract or agreement.

Paragraph f. does not include that part of any contract or agreement:

- (1) That indemnifies a railroad for "bodily injury" or "property damage" arising out of construction or demolition operations, within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, roadbeds, tunnel, underpass or crossing;
- (2) That indemnifies an architect, engineer or surveyor for injury or damage arising out of:
 - (a) Preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 - (b) Giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage; or
- (3) Under which the insured, if an architect, engineer or surveyor, assumes liability for an injury or damage arising out of the insured's rendering or failure to render professional services, including those listed in (2) above and supervisory, inspection, architectural or engineering activities.

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ElitePac[®] Commercial Automobile Extension

COMMERCIAL AUTO CA 78 09 11 17

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Business Auto Coverage Form apply unless modified by the endorsement.

AMENDMENTS TO SECTION II - LIABILITY COVERAGE

A. If this policy provides Auto Liability coverage for Owned Autos, the following extensions are applicable accordingly:

NEWLY ACQUIRED OR FORMED ORGANIZATIONS

The following is added to SECTION II, A.1. - Who Is An Insured:

Any organization you newly acquire or form, other than a partnership, joint venture or limited liability company over which you maintain ownership or majority interest, will qualify as a Named Insured if there is no similar insurance available to that organization. However:

- Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier;
- 2. Coverage does not apply to "bodily injury" or "property damage" resulting from an "accident" that occurred before you acquired or formed the organization.

No person or organization is an "insured" with respect to the conduct of any current or past partnership, joint venture or limited liability company that is not shown as a Named Insured in the Declarations.

EXPENSES FOR BAIL BONDS AND LOSS OF EARNINGS

Paragraphs (2) and (4) of SECTION II, A.2.a. -Supplementary Payments are deleted in their entirety and replaced with the following:

- (2) Up to the Limit of Insurance shown on the ElitePac Schedule for the cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" covered under this policy. We do not have to furnish these bonds.
- (4) All reasonable expenses incurred by the "insured" at our request. This includes actual loss of earnings because of time off from work, which we will pay up to the Limit of Insurance shown on the ElitePac Schedule.

EMPLOYEE INDEMNIFICATION AND EMPLOYER'S LIABILITY AMENDMENT

The following is added to SECTION II, B.4. - Exclusions:

This exclusion does not apply to a "volunteer worker" who is not entitled to workers compensation, disability or unemployment compensation benefits.

FELLOW EMPLOYEE COVERAGE

The Fellow Employee Exclusion, SECTION II, B.5. - is deleted in its entirety.

CARE, CUSTODY OR CONTROL AMENDMENT

The following is added to SECTION II, B.6. - Exclusions:

This exclusion does not apply to property owned by anyone other than an "insured", subject to the following:

- The most we will pay under this exception for any one "accident" is the Limit of Insurance stated in the ElitePac Schedule; and
- **2.** A per "accident" deductible as stated in the ElitePac Schedule applies to this exception.
- **B.** If this policy provides Auto Liability coverage for Owned Autos or Non-Owned Autos, the following extension is applicable accordingly:

LIMITED LIABILITY COMPANIES

The following is added to SECTION II, A.1. - Who Is An Insured:

If you are a limited liability company, your members and managers are "insureds" while using a covered "auto" you don't own, hire or borrow during the course of their duties for you.

BLANKET ADDITIONAL INSUREDS - As Required By Contract

The following is added to SECTION II, A.1. - Who Is An Insured:

Any person or organization whom you have agreed in a written contract, written agreement or written permit that such person or organization be added as an additional "insured" on your policy. Such person or organization is an additional "insured" only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by your ownership, maintenance or use of a covered "auto". This coverage shall be primary and non-contributory with respect to the additional "insured". This provision only applies if:

- 1. It is required in the written contract, written agreement or written permit identified in this section;
- 2. It is permitted by law; and
- 3. The written contract or written agreement has been executed (executed means signed by a named insured) or written permit issued prior to the "bodily injury" or "property damage".
- **C.** If this policy provides Auto Liability coverage for Non-Owned Autos, the following extension is applicable accordingly:

EMPLOYEES AS INSUREDS

If this policy provides Auto Liability coverage for Non-Owned Autos, the following is added to SECTION II, A.1. - Who Is An Insured:

Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow in your business or your personal affairs.

An "employee" of yours is an "insured" while operating an "auto" hired or rented under a contract or agreement in that "employee's" name with your permission, while performing duties related to the conduct of your business.

AMENDMENTS TO SECTION III - PHYSICAL DAMAGE COVERAGE

If this policy provides Comprehensive, Specified Causes of Loss or Collision coverage, the following extensions are applicable for those "autos" for which Comprehensive, Specified Causes of Loss or Collision coverage is purchased:

TOWING AND LABOR

SECTION III, A.2. - Towing is deleted in its entirety and replaced with the following:

We will pay all reasonable towing and labor costs up to the maximum Limit of Insurance shown on the ElitePac Schedule per tow each time a covered "Private Passenger Auto", "Social Service Van or Bus" or "Light Truck" is disabled and up to the maximum Limit of Insurance per tow each time a covered "Medium Truck", "Heavy Truck" or "Extra Heavy Truck" is disabled. For labor charges to be eligible for reimbursement the labor must be performed at the place of disablement.

This coverage extension does not apply to Emergency Services Organizations and Governmental Entities.

GLASS BREAKAGE DEDUCTIBLE

The following is added to SECTION III, A.3. - Glass Breakage - Hitting A Bird Or Animal - Falling Objects or Missiles:

If damaged glass is repaired rather than replaced, no deductible will apply for such repair. This extension does not apply to Emergency Services Organizations and Governmental Entities.

ADDITIONAL TRANSPORTATION EXPENSES SECTION III, A.4.a. - Transportation Expenses is deleted in its entirety and replaced with the following:

We will pay up to the maximum Limit of Insurance shown on the ElitePac Schedule for temporary transportation expenses that you incur because of any "loss" to a covered "auto", but only if the covered "auto" carries the coverages and meets the requirements described in **1**. or **2**. below:

- We will pay temporary transportation expenses for total theft of a covered "auto". We will only pay for such expenses incurred during the period beginning 24 hours after the theft and ending, regardless of the policy's expiration, when the covered "auto" is returned to use or we pay for its "loss".
- 2. For "loss" other than total theft of a covered "auto" under Comprehensive or Specified Causes of Loss Coverage, or for any "loss" under Collision Coverage to a covered "auto", we will only pay for those temporary transportation expenses incurred during the policy period beginning 24 hours after the "loss" and ending, regardless of the policy's expiration, with the lesser of the number of days reasonably required to repair or replace the covered "auto" or 30 days.

Paragraph **2**. of this extension does not apply while there are spare or reserve "autos" available to you for your operations.

This coverage extension does not apply to Emergency Services Organizations and Governmental Entities.

HIRED AUTO PHYSICAL DAMAGE COVERAGE

The following is added to SECTION III, A.4. - Coverage Extensions:

Physical Damage coverage is hereby extended to apply to Physical Damage "loss" to "autos" leased, hired, rented or borrowed without a driver. We will provide coverage equal to the broadest coverage available to any covered "auto" shown in the Declarations. But, the most we will pay for "loss" to each "auto" under this coverage extension is the lesser of:

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- 1. The Limit of Insurance stated in the ElitePac Schedule: or
- 2. The actual cash value of the damaged or stolen property as of the time of the "loss"; or
- 3. The actual cost of repairing or replacing the damaged or stolen property with other property of like kind and quality. A part is of like kind and quality when it is of equal or better condition than the pre-accident part. We will use the original equipment from the manufacturer when:
 - (a) The operational safety of the vehicle might otherwise be impaired;
 - (b) Reasonable and diligent efforts to locate the appropriate rebuilt, aftermarket or used part have been unsuccessful; or
 - (c) A new original equipment part of like kind and quality is available and will result in the lowest overall repair cost.

For each leased, hired, rented or borrowed "auto" our obligation to pay "losses" will be reduced by a deductible equal to the highest deductible applicable to any owned "auto" for that coverage. No deductible will be applied to "losses" caused by fire or lightning.

SECTION IV, B.5. Other Insurance Condition. Paragraph 5.b. is deleted in its entirety and replaced by the following:

For Hired Auto Physical Damage Coverage, the following are deemed to be covered "autos" you own:

- 1. Any covered "auto" you lease, hire, rent, or borrow; and
- 2. Any covered "auto" hired or rented by your "employee" under a contract or agreement in that "employee's" name, with your permission, while performing duties related to the conduct of your business.

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

This coverage extension does not apply to Emergency Services Organizations and Governmental Entities.

HIRED AUTO LOSS OF USE COVERAGE

The following is added to SECTION III, A.4. - Coverage **Extensions:**

We will pay expenses for which you are legally responsible to pay up to the Limit of Insurance shown on the ElitePac Schedule per "accident" for loss of use of a leased, hired, rented or borrowed "auto" if it results from an "accident".

This coverage extension does not apply to Emergency Services Organizations, Governmental Entities, and Schools.

AUTO LOAN/LEASE GAP COVERAGE (Not Applicable in New York)

The following is added to SECTION III, A.4. - Coverage Extensions:

In the event of a total "loss" to a covered "auto" we will pay any unpaid amount due on the lease or loan for a covered "auto", less:

- 1. The amount paid under the Physical Damage Coverage Section of the policy; and
- 2. Anv:
 - a. Overdue lease/loan payments at the time of "loss";
 - b. Financial penalties imposed under a lease for excessive use, abnormal wear and tear, high mileage or similar charges;
 - c. Security deposits not refunded by the lessor or financial institution;
 - d. Costs for extended warranties, credit life, health, accident, or disability insurance purchased with the loan or lease: and
 - e. Carry-over balances from previous leases or loans.

You are responsible for the deductible applicable to the "loss" for the covered "auto".

PERSONAL EFFECTS

The following is added to SECTION III, A.4. - Coverage Extensions:

If this policy provides Comprehensive Coverage for a covered "auto" you own and that covered "auto" is stolen, we will pay up to the Limit of Insurance shown on the ElitePac Schedule, without application of a deductible, for lost personal effects that were in the covered "auto" at the time of theft. Personal effects do not include jewelry, tools, money, or securities. This coverage is excess over any other collectible insurance.

AIRBAG COVERAGE

The following is added to SECTION III, B.3.a. -Exclusions:

Mechanical breakdown does not include the accidental discharge of an airbag.

This coverage extension does not apply to Emergency Services Organizations and Governmental Entities.

EXPANDED AUDIO. VISUAL. AND DATA ELECTRONIC EQUIPMENT COVERAGE

SECTION III. B.4. - Exclusions

This exclusion does not apply to the following:

- 1. Global positioning systems;
- 2. "Telematic devices"; or
- 3. Electronic equipment that reproduces, receives or transmits visual or data signals and accessories used with such equipment, provided such equipment is:

- a. Permanently installed in or upon the covered "auto" at the time of the "loss";
- b. Removable from a housing unit that is permanently installed in the covered "auto" at the time of the "loss";
- **c.** Designed to be solely operated by use of power from the "auto's" electrical system; or
- d. Designed to be used solely in or upon the covered "auto".

For each covered "loss" to such equipment, a deductible of \$50 shall apply, unless the deductible otherwise applicable to such equipment is less than \$50, at which point the lower deductible, if any, will apply.

COMPREHENSIVE DEDUCTIBLE - LOCATION TRACKING DEVICE

The following is added to **SECTION III, D. - Deductible**:

Any Comprehensive Coverage Deductible shown in the Declarations will be reduced by 50% for any "loss" caused by theft if the covered "auto" is equipped with a location tracking device and that device was the sole method used to recover the "auto".

PHYSICAL DAMAGE LIMIT OF INSURANCE

SECTION III, C. - Limit Of Insurance is deleted in its entirety and replaced with the following:

The most we will pay for a "loss" in any one "accident" is the lesser of:

- 1. The actual cash value of the damaged or stolen property as of the time of the "loss"; or
- 2. The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality.

This coverage extension does not apply to Emergency Services Organizations and Governmental Entities.

AMENDMENTS TO SECTION IV - BUSINESS AUTO CONDITIONS

DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS

The following is added to SECTION IV, A.2.a. - Duties In The Event Of Accident, Claim, Suit Or Loss:

The notice requirements for reporting "accident" claim, "suit" or "loss" information to us, including provisions related to the subsequent investigation of such "accident", claim, "suit" or "loss" do not apply until the "accident", claim, "suit" or "loss" is known to:

- 1. You, if you are an individual;
- 2. A partner, if you are a partnership;

- **3.** An executive officer or insurance manager, if you are a corporation;
- 4. Your members, managers or insurance manager, if you are a limited liability company;
- 5. Your elected or appointed officials, trustees, board members or your insurance manager, if you are an organization other than a partnership, joint venture or limited liability company.

But, this section does not amend the provisions relating to notification of police or protection or examination of the property that was subject to the "loss".

WAIVER OF SUBROGATION

SECTION IV, A.5. - Transfer Of Rights Of Recovery Against Others To Us is deleted in its entirety and replaced with the following:

We waive any right of recovery we may have against any person or organization because of payments we make for "bodily injury" or "property damage" resulting from the ownership, maintenance or use of a covered "auto" but only when you have assumed liability for such "bodily injury" or "property damage" in an "insured contract". In all other circumstances, if a person or organization to or for whom we make payment under this Coverage Form has rights to recover damages from another, those rights are transferred to us.

MULTIPLE DEDUCTIBLES

The following is added to SECTION IV, A. - Loss Conditions:

If a "loss" from one event involves two or more covered "autos" and coverage under Comprehensive or Specified Causes of Loss applies, only the highest applicable deductible will be applied.

CONCEALMENT, MISREPRESENTATION OR FRAUD

The following is added to SECTION IV, B.2. - Concealment, Misrepresentation Or Fraud:

If you should unintentionally fail to disclose any existing hazards in your representations to us prior to the inception date of the policy or during the policy period in connection with any newly discovered hazards, we will not deny coverage under this Coverage Form based upon such failure.

POLICY PERIOD, COVERAGE TERRITORY

SECTION IV, B.7. - Policy Period, Coverage Territory is deleted in its entirety and replaced with the following:

Under this Coverage Form, we cover "accidents" and "losses" occurring:

- a. During the policy period shown in the Declarations; and
- **b.** Within the "Coverage Territory".

We also cover "loss" to or "accidents" involving a covered "auto" while being transported between any of these places.

TWO OR MORE COVERAGE FORMS OR POLICIES ISSUED BY US - DEDUCTIBLES

The following is added to SECTION IV, B.8. - Two Or More Coverage Forms Or Policies Issued By Us:

If a "loss" covered under this Coverage Form also involves a "loss" to other property resulting from the same "accident" that is covered under this policy or another policy issued by us or any member company of ours, only the highest applicable deductible will be applied.

AMENDMENTS TO SECTION V - DEFINITIONS

BODILY INJURY INCLUDING MENTAL ANGUISH (Not Applicable in New York)

The definition of bodily injury is deleted in its entirety and replaced by the following:

"Bodily injury" means bodily injury, sickness, or disease sustained by a person, including death resulting from any of these. "Bodily injury" includes mental anguish resulting from bodily injury, sickness or disease sustained by a person.

ADDITIONS TO SECTION V - DEFINITIONS COVERAGE TERRITORY

"Coverage Territory" means:

- The United States of America (including its territories and possessions), Canada and Puerto Rico; and
- 2. Anywhere in the world, except for any country or jurisdiction that is subject to trade or other economic sanction or embargo by the United States of America, if a covered "auto" is leased, hired, rented, or borrowed without a driver for a period of 30 days or less, and the insured's responsibility to pay "damages" is determined in a "suit" on the merits in and under the substantive law of the United States of America (including its territories and possessions), Puerto Rico, or Canada, or in a settlement we agree to.

If we are prevented by law, or otherwise, from defending the "insured" in a "suit" brought in a location described in Paragraph 2. above, the insured will conduct a defense of that "suit". We will reimburse the "insured" for the reasonable and necessary expenses incurred for the defense of any such "suit" seeking damages to which this insurance applies, and that we would have paid had we been able to exercise our right and duty to defend.

EXTRA HEAVY TRUCK

"Extra Heavy Truck" means a truck with a gross vehicle weight rating of 45,001 pounds or more.

HEAVY TRUCK

"Heavy Truck" means a truck with a gross vehicle weight rating of 20,001 pounds to 45,000 pounds.

LIGHT TRUCK

"Light Truck" means a truck with a gross vehicle weight rating of 10,000 pounds or less.

MEDIUM TRUCK

"Medium Truck" means a truck with a gross vehicle weight rating of 10,001 pounds to 20,000 pounds.

PRIVATE PASSENGER AUTO

"Private Passenger Auto" means a four-wheel "auto" of the private passenger or station wagon type. A pickup, panel truck or van not used for business is included within the definition of a "private passenger auto".

SOCIAL SERVICE VAN OR BUS

"Social Service Van or Bus" means a van or bus used by a government entity, civic, charitable or social service organization to provide transportation to clients incidental to the social services sponsored by the organization, including special trips and outings.

TELEMATIC DEVICE

"Telematic Device" includes devices designed for the collection and dissemination of data for the purpose of monitoring vehicle and/or driver performance. This includes Global Positioning System technology, wireless safety communications and automatic driving assistance systems, all integrated with computers and mobile communications technology in automotive navigation systems.

VOLUNTEER WORKER

"Volunteer worker" means a person who performs business duties for you, for no financial or other compensation.

Contracting, Installation, Service and Repair General Liability Extended ElitePac[®] Endorsement

COMMERCIAL GENERAL LIABILITY CG 79 88 01 19

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

1. BLANKET ADDITIONAL INSUREDS

a. Ongoing Operations

SECTION II — WHO IS AN INSURED is amended to include as an additional insured:

- 1. Any person or organization for whom you are performing operations when you and such person or organization have agreed in a written contract, written agreement or written permit that such person or organization be added as an additional insured on your commercial general liability policy; and
- 2. Any other person or organization, including any architects, engineers or surveyors not engaged by you, whom you are required to add as an additional insured under your policy in the contract or agreement in Paragraph 1. above;

Such person or organization is an additional insured only with respect to liability arising out of your ongoing operations performed under that contract, agreement, or permit when that contract, agreement, or permit requires the additional insured be added with respect to liability arising out of your ongoing operations.

If the written contract, written agreement, or written permit does not require that the additional insured be added with respect to liability arising out of your ongoing operations, then such person or organization is an additional insured only with respect to "bodily injury", "property damage" or "personal and advertising injury" caused in whole or in part by your ongoing operations performed under that contract, agreement, or permit.

b. Completed Operations

SECTION II — WHO IS AN INSURED is amended to include as an additional insured:

- Any person or organization for whom you are performing or have performed operations when you and such person or organization have agreed in a written contract, written agreement or written permit that such person or organization be added as an additional insured on your commercial general liability policy; and
- Any other person or organization, including any architects, engineers or surveyors not engaged by you, whom you are required to add as an additional insured under your policy in the contract or agreement in Paragraph 1. above;

Such person or organization is an additional insured only with respect to their liability arising out of "your work" performed under that contract, agreement, or permit and included in the "products-completed operations hazard" when that contract, agreement, or permit requires the additional insured be added with respect to liability arising out of "your work" performed under that contract, agreement, or permit and included in the "products-completed operations hazard". If the written contract, written agreement, or written permit does not require that the additional insured be added with respect to liability arising out of "your work" performed under that contract, agreement, or permit and included in the "products-completed operations hazard", then such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by "your work" performed under that contract, agreement, or permit and included in the "products-completed operations hazard".

c. The coverages provided in Paragraphs **a**. and **b**. do not apply unless the written contract or written agreement has been signed by the Named Insured or written permit issued prior to the "bodily injury", "property damage" or "personal and advertising injury".

d. Exclusions

 (1) With respect to the insurance afforded to additional insureds under a. Ongoing Operations the following is added to 2.
 Exclusions under SECTION I — COVERAGE A — BODILY INJURY AND PROPERTY DAMAGE LIABILITY:

This insurance does not apply to "bodily injury", "property damage", or "personal and advertising injury" occurring after:

- (a) All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the site of the covered operations has been completed; or
- (b) That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.
- (2) With respect to the insurance afforded to these additional insureds under a. Ongoing Operations and b. Completed Operations, the following is added to 2. Exclusions under SECTION I COVERAGE A —BODILY INJURY AND PROPERTY DAMAGE LIABILITY:

This insurance does not apply to:

"Bodily injury", "property damage", or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

- (a) The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- (b) Supervisory, inspection, architectural or engineering activities.

e. Conditions

With respect to the insurance afforded to these additional insureds under a. Ongoing Operations and b. Completed Operations the following is added to Paragraph 4. Other Insurance, a. Primary Insurance under SECTION IV — COMMERCIAL GENERAL LIABILITY CONDITIONS:

This insurance is primary and will not contribute with any other insurance available to an additional insured under this coverage part provided that:

- (1) The additional insured is a Named Insured under such other insurance.
- (2) You have agreed in a written contract, written agreement or written permit to include that additional insured on your General Liability policy on a primary and/or non-contributory basis.

2. PROPERTY DAMAGE CARE, CUSTODY OR CONTROL

The following is added to **Exclusion j.** under **SECTION I — COVERAGE A BODILY INJURY AND PROPERTY DAMAGE LIABILITY:**

Paragraphs (4) and (5) do not apply for the limited purpose of providing the coverage and sub-limits of liability as set forth below.

We will pay those sums that the insured becomes legally obligated to pay as damages arising out of "property damage" to:

(1) Personal property in the care, custody or control of the insured; and

(2) That particular part of real property on which you or any contractors or subcontractors working directly or indirectly on your behalf are performing operations, if the "property damage" arises out of those operations.

The most we will pay under (1) and (2) above in any one "occurrence" or for all damages during any one policy period is a sub-limit of \$100,000.

These limits are included in and not in addition to the Limits of Insurance shown in the Declarations of the Commercial General Liability Policy.

Our right and duty to defend the insured against any "suit" for damages under (1) and (2) above ends when we have used up the applicable sub-limit of liability in the payment of judgments or settlements under it.

3. OTHER INSURANCE AMENDMENT — SUPPLEMENTAL COVERAGE FOR INSURED'S INVOLVEMENT IN A CONSOLIDATED (WRAP-UP) IN SURANCE PROGRAM OR SIMILAR PROJECT

The following is added to SECTION IV — COMMERCIAL GENERAL LIABILITY CONDITIONS, Paragraph 4. Other Insurance b. Excess Insurance (1)(a):

(v) That is covered by a consolidated (wrap-up) or similar insurance program provided by the prime contractor/project manager or owner of the construction project in which you are involved for your ongoing operations or operations included within the "products-completed operations hazard", unless such consolidated (wrap-up) or similar program is specifically excluded from coverage on this policy.

4. FELLOW EMPLOYEE EXTENSION

Under SECTION II — WHO IS AN INSURED Paragraphs 2.a. and 2.a. (1) are replaced by the following:

a. Your "volunteer workers" only while performing duties related to the conduct of your business, or your "employees", other than either your "executive officers" (if you are an organization other than a partnership, joint venture, or limited liability company) or your managers (if you are a limited liability company), but only for acts within the scope of their employment by you or while performing duties related to the conduct of vour business. The Employers Liability exclusion (SECTION I - COVERAGES; COVERAGE A, exclusion e.) does not apply to this provision. However, none of these "employees" or "volunteer workers" are insureds for:

- (1) "Bodily injury" or "personal and advertising injury":
 - (a) Arising out of his or her providing or failing to provide professional health care services.

5. CONTRACTUAL LIABILITY (RAILROADS)

Definition 9. Insured Contract is amended as follows:

Paragraph **c.** is deleted in its entirety and replaced with the following:

Any easement or license agreement;

Paragraph f.(1) is deleted in its entirety.

6. CONTRACTUAL LIABILITY AMENDMENT — (PERSONAL AND ADVERTISING INJURY)

If it is required in a written contract, written agreement or written permit with the insured that any contractual liability exclusion for Personal Injury be removed from the policy, then Exclusion e. Contractual Liability under COVERAGE B PERSONAL AND ADVERTISING INJURY, 2. Exclusions is deleted in its entirety and replaced with the following:

e. Contractual Liability

"Personal and advertising Injury" for which the insured has assumed liability in a contract or agreement arising out of an "advertisement". This exclusion does not apply to liability for damages that the insured would have in the absence of the contract or agreement"

7. WAIVER OF GOVERNMENTAL IMMUNITY

We will waive, both in the adjustment of claims and in the defense of "suits" against the insured, any governmental immunity of the insured, unless the insured requests in writing that we not do so.

Waiver of immunity as a defense will not subject us to liability for any portion of a claim or judgment in excess of the applicable limit of insurance.

8. DAMAGE TO PREMISES RENTED TO YOU

The Limit of Insurance for Damage To Premises Rented To You is increased to \$1,000,000.

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