



Harvey Construction Corporation
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January 19, 2015

Capt. William Breault
Dover Police Department
Field Operations Division
Dover, NH Police Department

RE: Recommendation of Award
KONE, Inc.
PASSENGER ELEVATORS
Dover Police Facility and Public Parking Garage/Orchard Street Reconstruction

Dear Mr. Breault,

Harvey Construction is seeking approval to award the **PASSENGER ELEVATORS** contract for subject project to Northern Plasterwork for the total amount of **One Hundred Ninety Six Thousand One Hundred Dollars and 0.00/100 (\$196,100.00)**. Scope of work in accordance with the Dover Police Facility and Public Parking Garage Plans dated 11/17/14, Site Development Plans dated 6/30/14 and Orchard Street Reconstruction – Subdivision Plans dated June 2014 prepared by CLD Engineers and Lavallee Brensinger. The final contract amount subject to reconciliation of final VE accepted by City.

This award is based on the attached cost proposal and our bid tabulation spreadsheet.

If you have any question or concerns, please advise.

Very Truly Yours,

Harvey Construction Corporation

Andrew P. Martino, P.E., LEED AP
Project Manager

I hereby authorize Harvey Construction to enter into a contract agreement with the aforementioned subcontractor/supplier on behalf of the City of Dover for the amount stated above.

Capt. William Breault

1/20/15
Date

Harvey Construction
Job: DOVER PD/PARKING GARAGE

Bid Tabulation Sheet
Bid Date: 12/19/2014

Trade:	PASSENGER ELEVATORS	HCC Budget	Co. Contact:	KONE Ben Brennan 207-749-4251 12/19/2014	Co. Contact:	Stanley Randy Campbell 689-7085 12/19/2014	Co. Contact:	OTIS Carl Dick 207-856-2737 12/22/2014
Spec. Sections:	Division #14 14 20 11							
Scope Check List								
Base Bid								\$ 259,860
	POLICE STATION	\$ 90,000		\$ 90,000		\$ 132,200		
	PARKING GARAGE	\$ 104,000		\$ 104,000		\$ 154,300		
	100% Payment & Performance Bond							
Documents	Dover Police Facility and Public Parking Garage Vol #1, dated November 17, 2014. Dover Police Facility and Public Parking Garage Vol #2, dated November 17, 2014. Dover Police Facility and Public Parking Garage – Site Development Plans 6/30/14 Orchard Street Reconstruction – Subdivision Plans June 2014 Dover Police Facility and Public Parking Garage – Site Landscape Plan 6/25/14 Specifications: Dover Police Facility and Public Parking Garage, Dover New Hampshire, dated November 17, 2014. City of Dover Department of Public Works – Current Specs State of New Hampshire DOT Specs							
RFI's	1 to 11							
Addendum	RFI #12 - Issued 12/18/14 Post Bid Review 1 & 2							
SCHEDULE	Per HCC Project Schedule dated 12/10/14							
	Counter Weight Saftey			OK				
	Elevator Hoist Beam			Y				
	Warranty - 1 year			Y				
	Manufacturer			Kone Eco Space				
	Multi Stop Elevator			Y				
	Elevator Recall Wiring - Hoistway to Controller			Y				
	Finishes			ADD RIGIDIZED SS Panels \$ 2,100				
				GARAGE ONLY				
	Flooring by Others			OTHERS				
	Protective Pads			Y				
	SS Hoistway/Door Frames			Y				
	Rated Capacity			3500#				
	Rated Speed			150fpm				
	Elevator Cab Signage			Interior Only for Permit				
	Controls			ICS CONTROLLER				
CLOSEOUT								
	Main Contract			12mos				
	Diagnostic Tools			?				
	Extra Parts			?				
	Supervision for Flooring install			?				
CLARIFICATIONS								
	KONE - 8.4" Needed at top landing Front wall for ICS Controller; 14'3" Bottom hoist to top landing							
Total		\$ 194,000		\$ 196,100		\$ 286,500		\$ 259,860
Value Engineering								
	1 #4 SS Interior Cab Panels in Lieu of Rigidized @ PC			\$ (2,100)				
	2 PENDING							
	3 PENDING							

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Tender submission for: **Dover Police Station**

Date: 01.16.2015
Prepared by: Benjamin Brennan
Sales Representative

Tel: (207) 749-4251
Email: benjamin.brennan@kone.com
Tender number: **T-0000730215**

KONE Inc.
One New Boston Drive
Canton, MA 02021

www.kone.us



Ref: Dover Police Station (T-0000730215)

Dear Andrew,

Thank you for your invitation to tender the above project. We are proud to offer you a world class elevator solution that is a perfect match for your building and we also offer comprehensive services to support you throughout your project. The KONE solution includes design, manufacturing, supply and installation of the following:

Police Station - Group 1

Equipment Name	Solution	Load	Speed Stops	Net Price / unit
ECOSPACE - 1	1 X KONE EcoSpace	3500 LB	150 FPM 3 stops	\$ 90 000.00

Garage - Group 1₂₍₁₄₎

Equipment Name	Solution	Load	Speed Stops	Net Price / unit
ECOSPACE - 2	1 X KONE EcoSpace	3500 LB	150 FPM 5 stops	\$ 104 000.00

Total Sales Price, net excluding TAX **\$ 194 000.00**

Alternate:

1. **ADD: Provide Rigidized Stainless Steel in lieu of #4 stainless steel - \$2,100.00 per car**
 - a. **Cab Interior Side and Rear Walls**

Our proposal is based on the architectural drawings and specification (Division 14) and meets the general intent of the project. In case of any differences or contradictions between the contents of the documents contained in KONE's Tender Document, the Project Drawings or the Project Specifications, the KONE Tender Document shall prevail. This tender is based on the following documents:

- Tender and Pricing Summary (this page)
- Technical Specification
- Project Specific Clarifications
- General Conditions
- Tender Approval
- Appendices
 - Bid Attachment A KONE Terms and Conditions
 - Bid Attachment B Work by Others

Pricing is based on the content specified in the main body of the tender and the appendices which are an integral part of the tender documentation. This tender is valid for 30 days. Should you require any further information or clarification, please do not hesitate to contact us.

Yours Sincerely,
Benjamin Brennan

1 Technical Specification

Equipment Name	ECOSPACE - 1 / Group 1
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Main Data

KONE Solution	1 x KONE EcoSpace
Capacity	3500 LB
Travel Speed	150 FPM
Travel Height	28 ft 0 in
Stops	The elevator stops at 3 floors and has 3 entrances arranged on the main access side.
Applicable Code	Carrying out of the installation in accordance with the safety rules for the construction and installation of elevators per: ASME A17.1-2013

Shaft

Shaft Size	8 ft 8 in wide x 6 ft 11 in deep
Pit Depth	5 ft 0 in
Overhead	14 ft 3 in
Counterweight Safety	Accessible spaces under the counterweight's passageway are not permitted without additional safety measures - No counterweight safety gear included.

Elevator Car

Interior Measurements	80 in wide x 66 in deep x 8 ft total cab height (not including ceiling)
Car Loading	The car is set up for loading on front side only.
Ceiling and Lighting	 LF88 - Round LED4SS, #4 Stainless Steel
Side & Rear Walls	Vertical Alignment Car Walls: 4SS, #4 Stainless Steel
Interior Front Wall Finish	4SS, #4 Stainless Steel
Car Flooring	Flooring provided by others (max 3 lb/ft ² - 1/2" thickness)

Handrail



Handrail is on Side Walls
ST, Round Steel
4SS-Brushed Stainless Steel

Car Lantern (jamb-mounted)

Car Lantern (jamb-mounted) included

Skirting

4SS, #4 Stainless Steel

Operating and Signal Elements (inside the car)



DOT-matrix
Satin Stainless (441)
Independent Service keyswitch in car

Doors

Door Measurements 42 (in) wide x 7 (ft) height

Door Design Single speed right hand

Elevator Car Door 4SS, #4 stainless steel

Car Door Sill Material Aluminium

Operating and Signal Elements (at the landings) Landing Call Station:
KSS570 series signalization

Landings

Landing Number	Floor Marking	Landing Wall Thickness	Landing Sill Material	Finish	HL/HLI
3 (Front)	2	8.4	AL, Aluminium	4SS, #4 stainless steel	None



2 (Front)	*1	8.4	AL, Aluminium	4SS, #4 stainless steel	None
1 (Front)	LL	8.4	AL, Aluminium	4SS, #4 stainless steel	None

Control System Accessories

[TYP_CAR_FAN(1)]
 Emergency Power Drive Included (generator by others)
 Fireman's drive
 KONE remote monitoring
 pit ladder included

Machinery

Machinery Specification	The machinery is designed as a gearless, three-phase synchronous motor with integrated traction sheave.
Machine Output	9.1 HP
Nominal Supply Current	42 A
Starting Supply Current	53 A
Power supply, Machinery	3 x 208 V, 60 Hz
Power Supply, Car Light	120VAC, 60 Hz

Control System

Control System Principle (grouping)	Full collective Simplex
Controller Location	Integrated control solution (MAP) 3rd floor

Equipment Name	ECOSPACE - 2 / Group 1
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Main Data

KONE Solution	1 x KONE EcoSpace
Capacity	3500 LB
Travel Speed	150 FPM
Travel Height	45 ft 4 in

Stops The elevator stops at 5 floors and has 5 entrances arranged on the main access side.

Applicable Code Carrying out of the installation in accordance with the safety rules for the construction and installation of elevators per: ASME A17.1-2013

Shaft

Shaft Size 8 ft 8 in wide x 6 ft 11 in deep

Pit Depth 5 ft 0 in

Overhead 14 ft 3 in

Counterweight Safety Accessible spaces under the counterweight's passageway are not permitted without additional safety measures - No counterweight safety gear included.

Elevator Car

Interior Measurements 80 in wide x 66 in deep x 8 ft total cab height (not including ceiling)

Car Loading The car is set up for loading on front side only.

Ceiling and Lighting  LF88 - Round LED4SS, #4 Stainless Steel

Side & Rear Walls Vertical Alignment
Car Walls: 4SS, #4 Stainless Steel

Interior Front Wall Finish 4SS, #4 Stainless Steel

Car Flooring Flooring provided by others (max 3 lb/ft² - 1/2 thickness)

Handrail  Handrail is on Side Walls
ST, Round Steel
4SS-Brushed Stainless Steel

Car Lantern (jamb-mounted) Car Lantern (jamb-mounted) included

Skirting 4SS, #4 Stainless Steel

Operating and Signal Elements (inside the car)



DOT-matrix
Satin Stainless (441)
Independent Service keyswitch in car

Doors

Door Measurements 42 (in) wide x 7 (ft) height
Door Design Single speed right hand
Elevator Car Door 4SS, #4 stainless steel

Car Door Sill Material Aluminium

Operating and Signal Elements (at the landings) Landing Call Station:
KSS570 series signalization

Landings

Landing Number	Floor Marking	Landing Wall Thickness	Landing Sill Material	Finish	HL/HLI
5 (Front)	5	8.4	AL, Aluminium	4SS, #4 stainless steel	None
4 (Front)	4	8.4	AL, Aluminium	4SS, #4 stainless steel	None
3 (Front)	3	8.4	AL, Aluminium	4SS, #4 stainless steel	None
2 (Front)	2	8.4	AL, Aluminium	4SS, #4 stainless steel	None
1 (Front)	*1	8.4	AL, Aluminium	4SS, #4 stainless steel	None

Control System Accessories

Control System Accessories

[TYP_CAR_FAN(1)]
 Emergency Power Drive Included (generator by others)
 Fireman's drive
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Power Supply, Car Light	120VAC, 60 Hz

Control System

Control System Principle (grouping)	Full collective Simplex
Controller Location	Integrated control solution (MAP) 5th floor



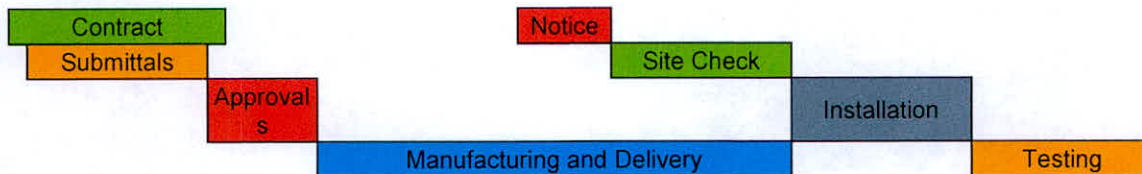
Project Specific Clarifications

- 12 Month Warranty from point of turnover, not substantial completion
- Car speed: 150 fpm, not 350 fpm
- 2 sets of keys provided with owner's manuals. If more are required, please let us know.
- Cab Side and Rear Walls: #4 stainless steel provide, not Scottish Quad Rigidized Stainless Steel
- Hoistbeam and Pit Ladder furnished by KONE
- 14'-3" Clear Overhead
- 8.4" front wall thickness at top landing

Schedule Proposal

Proper scheduling enables smooth, safe and on time installation. This proposal is based on the assumption that KONE is able to use our standard installation method. All work to be performed during normal business hours, excluding IUEC holidays (OT will be additional cost). Based on the information known at the Tender stage, we propose the following schedule:

Preparation of Submittals	2 weeks	From receipt of contract and first payment.
Contract Review	4 weeks	From receipt of full contract package. EVERY referenced document required.
Approval of Submittals	TBD (customer contingent)	Mutually agreeable time to incorporate changes to the layout and approve the submittals. Submittal Approval means notification in writing that all submittals are approved and manufacturing can commence. All finishes and features are to be decided at the time of submittal approval.
Manufacturing and Delivery	10-14 weeks	From receipt of submittal approval and an executed contract. KONE's policy is NOT to release equipment to Manufacturing until the contract is fully executed by both parties. Note: Our factory has 2 week shutdown over the months of July and December. Any manufacturing duration that falls during these months shall add 2 weeks to the manufacturing time.
Notice to commence on site and Site Check	2 weeks	Prior to starting the installation, KONE requires 2 week notice to inspect the shaft to ensure it fulfills the requirements set by KONE for commencing installation. Site Check will be performed in the 2 weeks before installation begins.
Installation	6 weeks per car	Only after the site has passed the Site Check inspection, the installation can start. Duration is per elevator. If multiple elevators need to be installed at the same time, a Foreman will be required at additional cost - based on availability.
Testing and Commissioning	1-2 weeks	Sufficient, clean 3-phase power, active phone line to the controller and all life safety provided by others is needed for testing/commissioning.



Payment Terms

Proposal price is valid with the following payment terms (Payment due date is 30 days net):

- 30% Engineering & Site Management
- 50% Material
- 20% Installation

KONE reserves the right to delay and/or suspend the work, including manufacturing, delivery, installation and/or final turnover of the equipment for non-payment. Prior to equipment turnover, KONE must be paid in full including all change orders. Additionally, prior to turnover KONE requires a signed Final Acceptance and receipt of a Final Punchlist from all parties. Should you have a requirement other than that shown above; we will be pleased to discuss it with you.

General Conditions

Contract terms shall be in accordance with the AIA A201, General Conditions, 1997 Edition, which are incorporated by reference. In the event of conflict between this Tender and the terms of the AIA General Conditions, this Tender shall prevail. The pricing included in this Tender is submitted with the understanding that all documents referenced within will be signed without alteration (please see Attachment A for complete General Conditions):

TERMS & CONDITIONS:

If this contract format is not acceptable, contract terms and project schedule are to be mutually agreeable between KONE Inc. and your firm. If referenced within the subcontract, KONE respectfully requests a copy of the General Contractor's prime contract, General Conditions, any other subcontract documents/exhibits/sections referenced within the subcontract for terms & conditions review. Any pictures or images included in this tender are for information purposes only.

SOURCING:

This proposal is made without regard to compliance with any special purchasing and/or manufacturing requirements including, but not limited to, Buy America, Buy American, U.S. Steel, FAR clauses, minority/disadvantaged supplier requirements or similar state procurement laws. Should such requirements be applicable to this project, KONE reserves the right to modify and/or withdraw our proposal.

INSURANCE:

We agree to provide evidence of insurance coverage but cannot name others as additional insured or waive our rights of subrogation. All coverage afforded you or others shall terminate upon final acceptance of our work.

CODES:

The proposal is based on our understanding of current code requirements. KONE cannot be held responsible for varying interpretation, future clarification or changes to current code requirements (after contract date).

Site Preparation



To ensure the agreed schedule and safety on site, KONE requires the following conditions fulfilled two (2) weeks prior to our commencement on site (please see Attachment B for more detailed site requirements):

ACCESS & STORAGE: Adequate access for delivery of elevator material + clean/dry storage space.

HOISTWAY CONSTRUCTION: The hoistway, pit, and machine room must be clean, dry, and constructed per the approved KONE final layout drawings. Any required support for guide rail brackets, divider beams and divider screens from pit floor to the top of the hoistway will be provided by others.

BARRICADES: Removable, OSHA approved barricades must be provided around all hoistway openings. Provide and install full entrance protection, made of nylon mesh or reinforced plastic at all hoistway openings per OSHA 1346 1926.502(j). In Canada, enclose the front of the hoistway with removable hoarding or screening to prevent material from entering the hoistway. Design and install entrance protection in such a way as to allow quick accessibility in and out of the hoistway.

POWER: Permanent or temporary 3-phase and single phase power of permanent characteristics with disconnect switches.

HOISTBEAM: A hoist beam and safety beam (furnished by KONE) must be installed in the elevator overhead per the approved KONE final layout drawings (hoistbeam capable of supporting the load requirement noted in our shop drawings).

LIGHTING: Applicable work areas must have adequate lighting.

FINISHED FLOOR MARKS: Visible from the hoistway openings at all landings.

Additional Considerations

The following items should be considered when planning for the elevator delivery, installation and complete project construction:

COMPLETION: The contract price is based on all work being completed in 2015, and a material manufacturing start, no later than 6 months from the date of this proposal. The standard wage rate is assumed. If KONE's on-site work is not completed in the above calendar year (due to delays by others), the contractor will be responsible for the labor rate increase that will occur on January 1st of the following year.

REMOBILIZATION: A \$4000 remobilization fee may be charged for each occurrence where KONE must return to the jobsite, due to causes beyond our control, in order to perform or complete our work.

STORAGE/DELIVERY: Our offer is based on elevator shafts being handed over to KONE in accordance with KONE requirements on the agreed dates. Any changes to such dates are considered a variation to contract and KONE shall be entitled to recover all substantiated costs related to such changes, including but not limited to costs related to additional manpower or other resources and/or storage costs. If the jobsite requirements are not complete, KONE will not deliver the elevator to the job site. If we are unable to unload at the



jobsite on the scheduled date, it will be the purchaser's responsibility for additional costs for off-site storage (\$1,600/month per elevator) and/or labor for double handling of the materials (\$4,000). Additionally, the proposal is based upon the ability of KONE to unload materials at the job site and begin installation at that time. If these items are not in place at time of delivery KONE may not be available to begin the installation for up to an additional 6 weeks (after site preparation is complete) due to labor re-allocation. Any labor associated with relocation of material (once stored onsite) is not included in this proposal.

OPERATOR TIME: KONE is unable to estimate the amount of operator time needed by other trades. Unless a specific amount is specified elsewhere in this proposal, KONE has not included any operator time. If the General Contractor (or other subcontractors) requires access to the shaft or the use of the elevator platform for any reason (prior to Final Acceptance – after which, standard KONE service rates will apply), KONE will provide an operator for an additional charge of \$250/hour (straight time) or \$500/hour (OT). Availability of an operator will be determined at the time of the request. The agreed schedule shall be extended by the time needed by other trades for access to the shaft.

TEMPORARY USE: Our bid does not include any provisions for temporary use of the elevator. Should temporary use be required, a monthly fee of \$1500/elevator, plus a fee of \$2,500 for each temporary inspection will be applicable. A fee of \$2,000 for screening the hoistway (only applicable on multi-car hoistways) & any costs for readjusting/refurbishment will be paid by purchaser. In addition, the General Contractor will protect the elevators, provide electrical service, a temporary car enclosure, protection of elevator hoistway openings, an operator (if needed) and will clean down and turnover the elevator in a "like new" condition upon completion of temporary use. Furthermore, the KONE Temporary Acceptance Form shall be executed before any elevator is placed into temporary service. Please note that we will require 1-2 weeks of uninterrupted use of these elevators prior to final turnover.

HOISTWAY CLEANING: KONE is unable to estimate the cleanliness of an elevator hoistway on a construction site, as the amount of debris/dust is dependent on work completed by other trades within the building. As such, KONE has not included for clean down of the elevator shaft, but can provide a price if conditions warrant.

OTHER TRADE WORK: KONE is unable to estimate the amount of on-site mechanic labor required to coordinate the work of other trades. Thus, KONE has not included any additional time and/or costs (outside of the equipment installation and inspection time) for coordination with the life safety system, security system, or any other trades. KONE shall be entitled to an extension of the contract time and/or additional costs incurred by additional time expended for coordination with other trades.

PHONE: We are offering our standard, one hands-free ADA compliant speakerphone per cab; it will automatically dial to a determined location. A KONE KRMS monitoring agreement must be completed, (either accepting or denying KONE's monitoring service) 2 weeks prior to inspections.



INSPECTIONS:

Our proposal includes one final inspection by the elevator code authority, per elevator, during normal working hours. If the final inspection fails due to KONE's sole responsibility, KONE will be accountable for the cost of re-inspection(s). Should re-inspection be required due to work by others, the General Contractor will be responsible for the cost of re-inspection(s). All other testing will be provided for additional cost, at normal KONE billing rates. During the final testing, a representative of the fire-life-safety contractors will be required (at no cost to KONE) while testing the elevators. No OT has been included in this proposal.

**WARRANTY/
MAINTENANCE:**

Our proposal includes 12 months of complete KONE standard maintenance including regular time callback service, which utilizes periodic preventative maintenance. Our limited one (1) year warranty begins once the elevator has been final inspected and accepted by execution of our Uniform Final Acceptance, which may be prior to the substantial completion of the building. For long-term reliability, a continuing maintenance agreement will be necessary. This proposal is based on KONE receiving a ten (10) year KONE maintenance contract.

Bid Attachment "A" / KONE Inc. General Terms and Conditions

1. APPLICATION OF THESE TERMS

The parties agree to be bound by the terms and conditions contained in the Proposal, together with the terms and conditions contained herein. No amendment or other change to this Proposal is binding on KONE unless it is in writing and is signed by an authorized KONE officer. KONE shall not release equipment for manufacturing prior to execution of a contract by both parties.

2. SPECIAL PURCHASING REQUIREMENTS

This proposal is made without regard to compliance with any special purchasing and/or manufacturing requirements including, but not limited to, Buy America, Buy American, U.S. Steel, FAR clauses, minority/disadvantaged supplier requirements or similar state procurement laws. Should such requirements be applicable to this project, KONE reserves the right to modify and/or withdraw our proposal.

3. QUOTATION CONDITIONS

Our offer is based on obtaining a 10 (ten) year KONE Maintenance Agreement. Your assistance in facilitating a meeting with the owner for this purpose is appreciated. The Proposal shall be open for acceptance within the period stated in the Proposal, or when no period is stated, for a period of thirty (30) days from the date of the Proposal.

4. WORK AND SERVICES NOT INCLUDED

The Proposal is exclusive of all preparatory work, civil works, and all materials and services other than those clearly specified. Wiring and conduit outside of the hoistway and machine room are not included. The installation, maintenance, and the operating costs of the phone line for monitoring services shall be borne by the Customer. Temporary use of the equipment may be granted, if required by contract, provided the use period allows adequate time for equipment restoration for final delivery. Temporary use will be invoiced separately per the KONE Temporary Use Agreement and is subject to payment terms indicated in Part 6 of this document. The Customer shall assume all risk of temporary use and operation, supply its own operator and, at the end of the temporary use period, return the equipment to KONE in "like new" condition. Specific noise ratings cannot be guaranteed, due to the different building characteristics and ambient noise levels. If certified payroll reporting is required, KONE will submit the requested reporting in the format of the U.S. Department of Labor form WH 347 & WH 348.

5. PRICE

Unless otherwise stated, pricing for labor and material shall remain firm, but under no circumstances shall KONE be responsible for labor and material cost adjustments resulting from project delays which extend beyond the end of the current calendar year.

6. INSTALLATION

The work shall be performed during regular I.U.E.C. working hours of regular working days, Monday to Friday, statutory holidays excluded. If overtime work is mutually agreed upon and performed, the additional price for such work shall be added to the Proposal price at KONE's standard overtime rates. KONE will not commence overtime work without an executed change order. The installation will start only after the site is ready and the Customer has completed all the KONE site requirements. If the installation work and final acceptance cannot be performed in an uninterrupted manner for any reason beyond KONE's control, the Customer shall store and protect the supplied equipment at the Customer's risk and cost and separately compensate KONE for any costs caused by such delay including, but not limited to, double handling of equipment. Within five (5) business days prior to the scheduled delivery date for KONE's materials, KONE will verify whether or not Customer has met the KONE site requirements as set forth in the Proposal. If Customer has not met the KONE site requirements, KONE will so notify Customer. If KONE notifies Customer that KONE is unable to begin installation as scheduled because the Customer has not met KONE's site requirements as set forth in the Proposal, the Customer is responsible for all additional costs incurred by KONE arising from or in connection with Customer's failure to meet such site requirements as schedules. Such costs may include without limitation costs associated with labor reallocation (costs associated with scheduling and rescheduling labor), the cost to re-direct materials to a KONE distribution center or Customer's designated storage facility, additional labor costs for double handling of the materials, costs for additional trucking, freight and insurance, and the reasonable cost for storage in a KONE distribution center. KONE is also entitled to delay the start of the installation, and start of installation is subject to availability of labor. KONE will provide the Customer with such costs in a change order.

7. ASBESTOS

Notwithstanding anything contained to the contrary within this bid or contract, KONE's work shall not include any abatement or disturbance of asbestos containing material (ACM) or presumed asbestos containing materials (PACM). Any work in a regulated area as defined by Section 1910 or 1926 of the Federal OSHA regulations

is excluded from KONE's scope of work without an applicable change order to reflect the additional costs and time. In accordance with OSHA requirements, the Customer shall inform KONE and its employees who will perform work activities in areas which contain ACM and/or PACM of the presence and location of ACM and/or PACM in such areas which may be contacted during work before entering the area. Other than as expressly disclosed in writing, Customer warrants that KONE's work area at all times meets applicable OSHA permissible exposure limits (PELs). KONE shall have the right to discontinue its work in any location where suspected ACM or PACM is encountered or disturbed. Any asbestos removal or abatement, or delays caused by such, required in order for KONE to perform its work shall be the Customer's sole responsibility and expense. After any removal or abatement, customer shall provide documentation that the asbestos has been abated from the KONE work area and air clearance reports shall be made available upon request prior to the start of KONE's work.

8. PAYMENT TERMS

Payments are due 30 days from invoice date, based on work progress as follows:

- 30% of Contract Value for Engineering, Site Management, Project Overhead, billable and due at the receipt of the subcontract.
- 50% of Contract Value for Material and Shipping, billable and due upon delivery of the material to the jobsite, Customer designated storage facility, or KONE Distribution Center.
- 20% of Contract Value for Equipment Installation, billable and due at the billing cycle following the start of our installation.

KONE reserves the right to delay and/or suspend the work and services, including manufacturing, delivery, installation and/or final turnover of the equipment, for non-payment. Simple interest at 1.5% per month will be charged on amounts not paid when due. In states requiring notice prior to filing a lien, this notice requirement is deemed satisfied through this paragraph.

Prior to equipment turnover, KONE must be paid in full, less 10% maximum retention, the Contract Value including all change orders. Additionally, prior to turnover, KONE requires a signed Final Acceptance Form and receipt of a Final Punchlist for the project from all parties.

9. PROPERTY RIGHTS

The delivered material shall remain the property of KONE and KONE shall retain title thereto until final payment is made. The proprietary rights to any drawings, technical documentation or other intellectual property, shall remain solely with KONE. Any software delivered shall remain the property of KONE or the respective supplier.

10. WARRANTY

KONE warrants the materials and workmanship of the equipment for one (1) year after acceptance. Customer's remedy is limited to repair or replacement of a defective part, in KONE's sole discretion. The warranty is limited to the replacement or repair of the part itself, and excludes labor. In no event shall KONE be responsible for damage due to normal wear and tear, vandalism, abuse, misuse, neglect, work or repairs or modifications by others, or any other cause beyond the control of KONE. KONE disclaims any other warranty of any kind; either expressed or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose, or non-infringement.

11. LIABILITY LIMITATION

The Customer agrees to indemnify, defend and hold harmless KONE from any loss, damage or claim for damages or injuries, including death, connected with the use or operation of the Equipment. Should damage occur to KONE material or work on the premises, where work is to be or is being performed, by fire, theft or otherwise, the Customer is to compensate KONE for said damages. KONE's obligation to defend, indemnify and hold Customer harmless shall be limited to the extent a claim for damages or injuries results from KONE's negligent acts or omission or willful misconduct, but not the negligent acts or omissions or willful misconduct of others. KONE will not name any party as additional insured to their policy.

12. DAMAGES

KONE shall not be responsible for liquidated damages or any indirect, incidental, or consequential damages. KONE's liability under any circumstances shall be no more than 5% of the Proposal value of the equipment concerned.

13. FORCE MAJEURE

KONE shall not be liable for any loss, damage, claim or delay due to any cause beyond KONE's control including, but not limited to, acts of government, strikes, lockouts, work interruption or other labor disturbance, fire, explosion, theft, floods, riot, civil commotion, war, malicious mischief, or acts of God.

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Site Safety Requirements/ Work by Others

Purchaser to provide the following in accordance with code requirements-

NOTE: All site preparation that is required to be in place prior to KONE's start must be ready two (2) weeks prior to the start of installation.

General

1. Provide sufficient on-site refuse containers for the disposal of the elevator packing material. Should sufficient containers not be provided, the removal of the elevator packing material shall become the responsibility of others.
2. Provide forklift for KONE's exclusive use during the unloading of the elevator at time of delivery.
3. Provide any cutouts to accommodate the elevator equipment (see notes below).
4. Provide and install finished elevator cab flooring. Owner must provide certification that flooring meets flame spread and smoke density requirements. (ASME A17.1/CSA B44 sec 2.14.2.1)
5. Provide permanent elevator lobby lighting, ceiling and flooring prior to inspection date.
6. Owner must provide certification (to the elevator inspector at time of inspection) that owner-supplied elevator interior finishes meet flame spread and smoke density requirements. (ASME A17.1/CSA B44 sec 2.14.2.1, ASME A17.1/CSA B44 sec 2.14.1.8, ASME Z97.1/ CGSB 12.1 in Canada)
7. Provide cutting/ coring of all openings and penetrations required to install hall push buttons, signal fixtures, wiring duct and piping, and sleeves. Sleeves will be required in the hoistway wall for EACH elevator.
8. Provide any repairs such as grouting, patching and painting made necessary by such cutting/ coring. Provide fire caulking around all fixtures and as needed to satisfy NFPA 70 article 300.21, or any applicable local code.
9. Please note that none of the elevator components are weather-proof and that the elevator entrances do not seal the hoistway from inclement weather. The entire elevator and controls must remain protected from inclement weather at all times.

Safety

10. Provide adequate, roll-able access into the building for delivery of the elevator material. Clean, safe, secure and dry storage is required adjacent to the hoistway with minimum space of 20' x 20' [6m x 6m] per elevator, or as specified by KONE representative: ___ft x ___ft (___m x ___m)
11. Provide free-standing, removable, OSHA-compliant barricades capable of withstanding 200lb (890N) of force in all directions around all hoistway openings per OSHA 29 CFR 1926.502, and/or any applicable local code.
12. Provide and install full-covering entry protection, made of nylon mesh or reinforced plastic, at all hoistway openings to prevent materials or tooling from falling into the elevator shaft during installation per Federal OSHA requirements listed in 29 CFR 1926.502(j). In Canada, where required by Provincial regulation, enclose the front of the hoistway with removable hoarding or screening to

prevent material from entering the hoistway. Design and install entrance protection in such a way as to allow quick accessibility in and out of the hoistway.

13. Provide two (2) lifeline attachments at the top, front of the hoistway. Each must be capable of withstanding a 5000 lb [2250 Kg] load per OSHA 29 CFR 1926.502, or any applicable local code. For machine-room-less applications, provide attachments as described above, or install KONE-provided 4" x 4" x 3/8" (100mm x 100mm x 9.6mm) tube steel lifeline beam in the elevator hoistway overhead 10 inches (254 mm) from front of hoistway to center line, with bottom of lifeline beam at same elevation as bottom of hoisting I-beam. Lifeline tube steel supplied by KONE by request at no additional cost on US installations only.
14. Provide proper lighting in all work areas and stairways, including access to all floors and machine rooms per OSHA 29.CFR1926.1052 or any applicable local code.
15. Provide and maintain 6-foot (1800 mm) clear work area in front of all entrance openings per OSHA 29.CFR1926.502 or any applicable local code.

Hoistway

16. Provide a clear and plumb hoistway of size shown on approved KONE final layout drawings. Any variations from the detailed dimensions may not exceed 2" [50 mm] greater and may not be less than the clear dimensions detailed. (Tolerance: -0" + 2" [-0 mm +50 mm]).
17. Provide hoistway ventilation per code requirements (eg., IBC sec 3004.1). For proper equipment operation, the machine space in machine room or at the top of the hoistway must maintain a temperature between 41° F [5° C] and 104° F [40° C]. Maximum allowed humidity is 95% non-condensing.
18. Provide for installation of hoisting I-beam in the elevator hoistway overhead per the KONE final layout drawings. Beam supplied by KONE unless otherwise noted on the layout drawings.
19. Provide any partitions between common hoistways if applicable.
20. In cases where multiple elevators are in a common hoistway, and the counterweights are located between elevators, the entire length of counterweight runway must be guarded. The guard shall extend at least 6 inches (150mm) horizontally beyond each counterweight rail. The guard shall be made from wire-mesh material equal to or stronger than .048-inch diameter wire with openings not exceeding 1/2 inch (13 mm), securely fastened to keep the guard taut and plumb. (ASME A17.1/CSA B44 : §3141.7. General Requirements.)
21. On applications where working platforms are required, working platforms provided shall comply with the requirements of the current ASME A17.1 / CSA-B44

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- code edition in effect at the time of installation and /or any applicable local code.
22. Provide adequate support for guide rail brackets from pit floor to the top of the hoistway. Locate rail backing per KONE final approved layout drawings. When maximum bracket span is exceeded, additional support shall be provided at purchaser's expense. Any bracket mounting surface that is not in line with the clear hoistway dimension detailed on the approved KONE final layout drawings may need to be corrected to meet the proper dimension at purchaser's expense.
 23. If guide rail brackets are to attach to steel, ensure all brackets are installed prior to applying fireproofing to the steel. Otherwise, removal and reapplication of fireproofing will be at purchaser's expense.
 24. All offsets, ledges or projections within the hoistway greater than 4 inches (100mm) must be tapered to not less than 75 degrees (ASME A17.1/CSA B44 sec 2.1.6.2). Maximum ledge or projection is 2 inches (50mm) in California and District of Columbia.
 25. If concrete block wall construction, refer to the approved KONE final approved layout drawings for proper installation of rail bracket attachments. Inserts provided by KONE unless otherwise noted on the approved KONE final approved layout drawings. Insert type must be approved by KONE. Concrete masonry units, mortar and grout, shall conform to IBC 2000 or any applicable local code. Concrete masonry units shall have a minimum compressive strength of 1500 PSI (10.5 MPa). Mortar and grout shall have a minimum compressive strength of 2000 PSI (13.8 MPa).
 26. Arrange for entrance walls to be constructed at the time doorframes and sills are installed to facilitate timely installation of hall fixture faceplates. Entire front wall must be left open at top and bottom landings until elevator equipment is installed. Intermediate landings must have rough openings of the size and location shown on KONE final approved layout drawings to allow installation of entrances. All entrance openings must be aligned vertically. Adequate support for entrance attachment points shall be provided at all landings. Any marble, stone or similar wall material must be prepared after the entrance frames are installed. Provide corridor lines for any marble or "special finish" walls.
 27. Provide elevator landings suitably prepared to accept entrance sill installation per KONE final layout drawings. Grouting to be done by purchaser after sills are installed. Note: Traditional angle or concrete sill support is not required.
 28. Provide finished-floor height marks visible from hoistway openings at all landings. Placing floor height mark on hoistway wall is desirable. Complete "Contractor Verification Form of Sill to Sill Heights and Remote Machine Piping," CONSTR-07-0675.
 29. Fire service access elevators per code requirement (IBC 406.3.1) shall be provided with hoistway lighting per code requirement (IBC 3007.6.2). The hoistway lighting shall illuminate the entire height of the hoistway and shall be located such that it does not interfere with the operation of the elevator or reduce any clearances below applicable code requirements. (applicable only in jurisdictions enforcing the IBC Building Code)
 30. Provide suitable lighting for machine space with light switch located in the hoistway on the strike jamb side of top landing door where practical. Illumination to be equivalent to 19 foot-candles (200lx) at machine (ASME A17.1/CSA B44 sec 2.7.9.1) [See Notes 29a & 29b]
 31. If the control space is located remote from the elevator hoistway top landing the following may apply:
 - a. If applicable, provide machine space access door of the size and in the location shown on the KONE final layout drawings. The access door shall be secured against unauthorized access. It shall be self-closing, self-locking and operable from the inside without a key.
 - b. Provide suitable lighting in or above the machine space access with light switch located within 18" [457 mm] of strike jamb side of access space door where practical. When permitted by state and local code the light switch should also control the machine space lighting.
 - c. Conductors and cables located outside of the elevator hoistway, machine space and control space, that provide normal or standby power, car lighting power, car ventilation power, car heating power, car air conditioning power, control signals, communication with the car and fire/heat-detecting systems control signals to Fire Service Access Elevators, shall be protected by construction having a fire-resistance rating of not less than 2 hours. (APPLICABLE ONLY IN JURISDICTIONS ENFORCING THE IBC BUILDING CODE OR ANY APPLICABLE LOCAL CODES.)
 32. Provide and install GFCI-type receptacle located at machine in the top of the hoistway or in machine room as applicable (NFPA 70 article 620.85 or CEC article 38.85 whichever is applicable).
 33. Provide and install light switch located at manual brake release location: may also be required in control space per local jurisdiction.
 34. Where a single elevator is installed in a hoistway and a portion of the travel extends higher than 11m (36 ft.) between entrances (single blind hoistway), emergency door(s) must be provided. Emergency doors and their electrical contacts shall comply with the current ASME A17.1/CSA-B44 code edition in effect at the time of installation and/or any applicable local code. ASME A17.1/CSA-B44 Section 2.11.1.2 covers "Emergency Doors in Blind Hoistways" and Section 2.26.2 covers "Electrical Protective Devices". Each emergency door must be provided with an electrical contact with minimum UL/CSA NEMA A300 rating suitable for use in a 230VAC @ 3 amp circuit. Consult KONE representative if there are any questions concerning the code requirements.

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Pit

35. Provide a legal, dry and clean pit, built per KONE final layout drawings. Pit shall be reinforced to sustain vertical forces detailed on KONE final layout drawings (vertical forces detailed are two times the static loads.)
36. Sumps and/or sump pumps (where permitted) located within the pit may not interfere with the elevator equipment. Sumps to be covered with flush mounted, non-combustible cover capable of withstanding 150 lbs per square foot (7 kPa). The sump pump/drain must, at minimum, remove 3,000 gal/h (11.4 m³/h) per elevator.
37. Provide a pit light fixture with switch and guards with an illumination level equal to or greater than that required by ASME A17.1/CSA B44 2000, or applicable version. Recommended to provide minimum 4-foot double tube fluorescent fixture, with suitable guard and mounted to rear wall of pit per KONE installation representative's direction.
38. Provide a dedicated pit circuit with GFCI-protected 15 or 20-amp 120V AC duplex outlet. Locate per KONE final approved layout drawings (NFPA 70 article 620.85 or CEC article 38.85).
39. Provide non-GFCI-protected single receptacle for sump pumps (NFPA 70 article 620.85, NFPA 70 article 620.85 or CEC article 38.85 whichever is applicable).
40. Pit ladder to be constructed of non-combustible material extending from pit floor to 48" [1200 mm] above the sill of the access landing. Pit ladder is supplied by KONE with EcoSpace units; provided by purchaser on other KONE products unless otherwise noted on the layout drawing. Locate per KONE final layout drawings. Coordinate ladder sizing with KONE representative to assure proper fit in hoistway.

Electrical

41. US Applications - Purchaser provides in accordance with National Electrical Code, NFPA 70 (NEC) Article 620 or any applicable local code.
42. Canadian Applications – Purchaser provides in accordance with Canadian Electrical Code, C22.1 Section 38 or any applicable local code.
43. Provide for all electrical branch circuits/disconnects to be labeled (NFPA 70 article 620.54 / 620.53 / 620.51d, CEC articles 38.54/ 38.53/ 36.51d).
44. Provide 480/208 VAC (USA) or 575/208 VAC (Canada) three-phase permanent power, including piping, wiring and fused disconnect, to controller location to facilitate elevator installation prior to start of project.
45. Provide 220 VAC single-phase temp. power and 115 VAC single-phase temp. power, of permanent characteristics at each elevator landing for lighting and installation method tools. Locate connection points at elevator hoistway. Consult your KONE representative for confirmation of location and type of temporary power.
46. When generator is used to provide 3-phase 480/ 208 VAC (USA) or 575/208 VAC (Canada) power for installation,

purchaser to accept change notice for additional costs, estimated locally by installing office, to cover inefficiencies and any damages resulting from installing without permanent power present.

NOTE: Our elevator controllers require Wye configuration transformers. It is also the responsibility of the purchaser to provide consistent three-phase voltages balanced within +/-10% when measured phase-to-phase and +/-10% when measured phase-to-ground.

47. Provide a dedicated 115VAC, 20 amp circuit in the fire command room piped and wired to the lobby panel where applicable.
48. Provide a dedicated 15 amp 120V AC fused service with ground (supplied through automatic emergency lighting supply if available in building) connected to each elevator signal control cabinet for car lighting. Must include the means to disconnect this service and lock-off in the "open" position (NFPA 70 article 620.22 and 620.53 or CEC article 38.22 and 38.53).
49. Provide separate 115 VAC 15 amp branch circuit for KGC (KONE Group Control), when specified, powered by building emergency power system, when applicable.

Control Space/ Machine Room

50. Provide a legal control space/ machine room with access as indicated on the KONE final layout drawings. To include a temporary or permanent door that can be locked from outside. Permanent door must be self-closing, self-locking, and require a key to open from outside. Must have adequate temporary or permanent lighting for installation purposes. For proper equipment operation, the temperature in the control space must maintain between 41° F [5° C] and 104° F [40° C]. Maximum allowed humidity is 95% non-condensing.
51. Provide safe and convenient access to machine room (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1/CSA B44 sec 2.7.3)
52. If control space is adjacent to the hoistway, provide all applicable sleeves, or penetrations, located per control space plan view on the KONE final layout drawings.
53. Provide a clean and dry elevator machine room.
54. If applicable, provide a governor access door of size and location shown on the KONE final layout drawings. The access door shall be secured against unauthorized access. It shall be self-closing, self-locking and operable from the inside without a key.
55. Provide suitable lighting for control space with light switch located within 18" [457 mm] of strike jamb side of control space door where practical. When permitted by state and local code the light switch should also control the machine space lighting if control space is adjacent to the hoistway at the top landing.
56. Provide dedicated GFCI-protected 120VAC 20-amp duplex (15 amp in Canada) outlet next to each signal control cabinet.

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57. Provide a single means of disconnecting all ungrounded main power conductors for each elevator by an enclosed, externally operable, fused motor circuit switch or circuit breaker. Must be lockable in the open position. This disconnecting means shall disconnect the normal power service as well as emergency power service, when provided.
Note 1: If a circuit breaker is to be provided in lieu of fuses, an adjustable time-delay style is recommended.
Note 2: If a battery-powered rescue device is required, the above-mentioned disconnect must have an auxiliary contact monitored by elevator controller that is positively opened mechanically and is normally closed (NC) when the main power is in the ON position, and is normally open (NO) when power is in the OFF position.
Note 3: If a battery-powered rescue device is required and a separate shunt trip breaker which is subject to either the hoistway or control space sprinkler system is provided, the shunt trip breaker must have an auxiliary contact that is positively opened mechanically and is NC when the main power is in the ON position.
58. Provide a Direct-in-dial (DID) analog phone line, activated at least one week prior to inspection, terminated at the appropriate phone jacks in the elevator machine room. GC/ Owner may elect to have a separate analog line installed (one per elevator), or GC/ Owner may elect to provide DID lines from an Analog Station Card in the building's PBX system. If GC/Owner provides a Direct-in-Dial analog phone line or lines off an existing PBX phone system, a backup power source must also be provided. All phone and associated equipment provided by GC/ Owner shall be in compliance with the requirements of ASME A17.1/ CSA B44, local codes and applicable law, as amended.
59. Provide all fire alarm initiating signals as required by all national, state and local codes for termination at the primary elevator signal control cabinet in each group.
60. Provide emergency power transfer switch and power change pending signals as required- 2 Normally open dry contacts from transfer switch to controller (2 pairs plus ground wire). 1 Contact closes to signal emergency power is present, 1 contact closes to give 30 second pre-signal prior to transfer switch change. Termination of these wires is at the primary elevator signal control cabinet in each group (2 pairs plus ground wire.)
61. Furnish and install smoke detectors and fire operation per ASME A17.1/CSA B44 sec 2.27.3.2, NFPA 72; one for lobby detector, machine room detector, hoistway detector, and one for all grouped non-lobby detectors are required. Provide normally-closed dry contacts, with wiring, to controller for each group listed above.
62. Provide and install smoke detector in hoistway as required per local codes, and in all elevator lobbies, machine room and controller space.
63. Provide heat detectors and "shunt-trip operation" when sprinklers are to be provided in machine room or hoistway, (ASME A17.1 sec 2.8.2.1.2, NFPA 13 sec 4-13.5, ASME A17.1 sec 2.8.2.3.1, ASME A17.1 sec 2.8.2.3.2, NFPA 72).
64. Non-elevator related piping and equipment is prohibited in machine room or hoistway (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1/CSA B44 sec 2.8.2).
65. Provide and mount at minimum a 10-pound, ABC-type fire extinguisher in control space (ASME A17.1 sec 8.6.1.6.5). (Not required in Canada)
- Integrated Control Solution (ICS)**
66. Provide a completely open front wall at top landing with access as indicated on the KONE final layout drawings. Must have adequate temporary or permanent lighting for installation purposes.
67. Provide environment for proper equipment operation during installation and after acceptance, the temperature at the top floor elevator lobby must maintain between 41°F [5°C] and 104°F [40°C]. Maximum allowed humidity is 95% non-condensing.
68. Provide safe and convenient rollable access to top floor elevator lobby area. (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1/CSA B44 sec 2.7.3)
69. Provide all applicable sleeves, or penetrations, located per ICS panel plan view on the KONE final approved layout drawings.
70. Provide a clean and dry elevator lobby at top landing.
71. If applicable, provide an access door of size and location shown on the KONE final layout drawings. The access door shall be secured against unauthorized access. It shall be self-closing, self-locking and operable from the inside without a key (if seismic conditions exist)
72. Provide suitable lighting for ICS panel area with light switch located within 18" [457 mm] of elevator entrance door where practical. When permitted by state and local code the light switch should also control the machine space lighting.
73. Provide dedicated GFCI-protected 120VAC 20-amp duplex (15 amp in Canada) outlet next to each ICS panel control cabinet located as shown on layouts.
74. Provide 480/208 VAC (USA) or 575/208 VAC (Canada) three-phase permanent power, including piping, wiring and fused disconnect, to non-fused disconnect located in hoistway at top landing to facilitate elevator installation prior to start of project.
75. Provide, In hoistway at top landing, 480/208 VAC (USA) or 575/208 VAC (Canada) three-phase permanent power, including piping, wiring and non-fused disconnect with 1¼" knock-outs (Eaton DH362UGK or similar). Coordinate installation with KONE Supervisor. Note: If a battery-powered rescue device is required, the above mentioned disconnect must have an auxiliary contact monitored by elevator controller that is positively opened mechanically and is normally closed (NC) when the main power is in the ON position, and is normally open (NO) when power is in the OFF position.

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76. Provide a single means of disconnecting all ungrounded main power conductors for each elevator by an enclosed, externally operable, fused motor circuit switch or circuit breaker. Must be lockable in the open position. This disconnecting means shall disconnect the normal power service as well as emergency power service, when provided. Note 1: If a circuit breaker is to be provided in lieu of fuses, an adjustable time-delay style is recommended. Note 2: If a battery-powered rescue device is required, the above-mentioned disconnect must have an auxiliary contact monitored by elevator controller that is positively opened mechanically and is normally closed (NC) when the main power is in the ON position, and is normally open (NO) when power is in the OFF position. Note 3: If a battery-powered rescue device is required and a separate shunt trip breaker which is subject to either the hoistway or control space sprinkler system is provided, the shunt trip breaker must have an auxiliary contact that is positively opened mechanically and is NC when the main power is in the ON position.
77. Provide a Direct-in-dial (DID) analog phone line, activated at least one week prior to inspection, terminated at the top landing ICS location. GC/ Owner may elect to have a separate analog line installed (one per elevator), or GC/ Owner may elect to provide DID lines from an Analog Station Card in the building's PBX system. If GC/Owner provides a Direct Dial analog phone line or lines off an existing PBX phone system, a backup power source must also be provided. All phone and associated equipment provided by GC/ Owner shall be in compliance with the requirements of ASME A17.1/ CSA B44, local codes and applicable law, as amended.
78. Provide all fire alarm initiating signals as required by all national, state and local codes for termination at the primary elevator ICS Panel in each group.
79. Provide emergency power transfer switch and power change pending signals as required- 2 Normally open dry contacts from transfer switch to primary elevator ICS panel (2 pairs plus ground wire). 1 Contact closes to signal emergency power is present, 1 contact closes to give 30 second pre-signal prior to transfer switch change.
80. Furnish and install smoke detectors and fire operation per ASME A17.1/CSA B44 sec 2.27.3.2, NFPA 72; one for lobby detector, machine room detector, hoistway detector, and one for all grouped non-lobby detectors are required. Provide normally-closed dry contacts, with wiring, to primary elevator ICS Panel for each group listed above.
81. Provide and install smoke detector in hoistway as required per local codes, and in all elevator lobbies.
82. Provide heat detectors and "shunt-trip operation" when sprinklers are to be provided in top floor elevator lobby or hoistway, (ASME A17.1 sec 2.8.2.1.2, NFPA 13 sec 4-13.5, ASME A17.1 sec 2.8.2.3.1, ASME A17.1 sec 2.8.2.3.2, NFPA 72).
83. Non-elevator related piping and equipment is prohibited in hoistway (ASME A17.1/CSA B44 sec 2.8.1, ASME A17.1/CSA B44 sec 2.8.2).
- Access Integration/Security**
84. Our proposal includes KONE logic and provisions for the specified Touchscreen(s), Keypad Destination Operating Panel(s), Monitoring System(s) and Multi-Media Equipment.
85. Card Readers and/or any additional required hardware & software for proper functionality of access control/security system(s) shall be furnished and installed by others.
86. Any required interface software to ensure proper communication between KONE control system(s) and building system(s) shall be the responsibility of others.
87. A designated 115V 15A circuit is required at each of the remote monitoring stations.
88. KONE recommends a minimum 100 Mbit/s Ethernet for each of the following application(s): Integrated Touchscreen/Keypad Destination Operating Panels, Monitoring System, Multi-Media Equipment, and Card Readers.



Tender Approval

We have read in full and approved the content of this tender and its appendices for project Dover Police Station, Tender No. T-0000730215.

Customer

Place, date

Place, date

Signature

Signature

Clarification

Clarification

Contractor KONE Inc.

Boston Office

Place, date

Place, date

Signature

Signature