

## PROJECT SPECIFICATIONS/MANUAL



# **New Railings at: Wilcoxson Elementary School**

600 Wilcoxson Avenue  
Stratford, CT

TOWN PROJECT NUMBER: 2011-012

ISSUED FOR BID: 3/3/2011

Architect

**THE GEDDIS PARTNERSHIP**

71 Old Post Road-Suite 101

P.O. Box 1020

Southport, CT 06890

Phone: (203) 256-8700

Fax: (203) 255-0004



New Railings at:		
<b>Wilcoxson Elementary School</b>		
Stratford, CT		
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**INVITATION TO BID**

Sealed bids will be received by the Town of Stratford Purchasing Department, Town Hall, Stratford, Connecticut 06615, until **Thursday, March 17, 2011, at 3:00pm**. Bids shall be publicly opened and read aloud on the day and hour specified above. Bids must be in a sealed envelope plainly marked:

**Window Repair/Refurbishment at:**  
**Wooster Middle School & Eli Whitney Elementary School**  
**Stratford, CT**  
**Bid No.: 2011-012**  
**Attention: Michael Bonnar**  
**Purchasing Agent**  
**DATE: March 3, 2011**

Each bid shall be accompanied by:

1. Bid Sheet
2. Insurance Procedure
3. Bid Bond \*

“\*A Bid Bond in the amount of five percent (5%) of the bid amount shall be made payable to the Town of Stratford. A certified check made out to The Town of Stratford is acceptable for the Bid Bond.

Plans, specifications, addenda, and other Contract Documents will be available as of **March 3, 2011** on the Town of Stratford website at [www.townofstratford.com](http://www.townofstratford.com), in the Purchasing Department link. All Addenda will be posted on the Towns website **up to 48 hours before the bid opening**, and it is the contractor’s responsibility to check the website often for Addenda. The Town of Stratford will not be responsible for full or partial sets of Contracts Documents, including addenda obtained from any other sources.

The Town of Stratford reserves the right to reject any and all bids not deemed to be in the best interest of the Town of Stratford or to accept any bids which appears to be in the best interest of the Town of Stratford. The Town of Stratford reserves the right to waive any informality in or reject any or all bids or any part of any bid.

By: Michael Bonnar  
Purchasing Agent/Purchasing Department



## INFORMATION FOR BIDDERS

### 1. Form and Submission of Bid

- a. One copy of this document will be furnished to the bidders. The Bid Sheet shall be completed and returned as part of the bid. The copy submitted by the successful bidder shall be completed in its entirety, executed and retained by the Town of Stratford, sometimes referred to as the Town. From this executed copy, three other conformed copies will be made, one of which will be sent to the Contractor.
- b. Bid Documents must be enclosed in a sealed opaque envelope plainly marked on the outside with the name and address of the Contractor; addressed to Michael Bonnar, Purchasing Department, Town of Stratford, 2725 Main Street, Stratford, CT 06615, and shall be labeled as indicated in Invitation to Bidders.
- c. It shall be the responsibility of each Bidder to have his Bid Proposal at the Purchasing Department at the time of Bid Opening; the Town of Stratford shall not be held in any way for failure of bidder to have his Bid Proposal submitted at such time and Bids arriving after the indicated Bid Opening time will not be accepted. Late bids arriving by mail shall be returned to the sender unopened.

### 2. Bid Bond / Bid Security

A Bid Bond in the amount of five percent (5%) of the bid amount shall be made payable to the Town of Stratford. A certified check made out to The Town of Stratford is acceptable for the Bid Bond. Each such Bid Bond may be held by the Town as security for the fulfillment of the Bidder's agreements as hereinabove set forth and as set forth in the Bid. Should the Bidder fail to fulfill such agreements, the Bid Bond shall become payable to the Town as liquidated damages; otherwise, the Bid Bond shall become null and void.

### 3. Withdrawal of Bids

Except as hereinafter in this subsection expressly provided, once his Bid is submitted and received by the Town for consideration and comparison with the other bids similarly submitted, the Bidder agrees that he may not and will not withdraw it within thirty (30) consecutive calendar days after the actual date of the opening of Bids unless extended by addendum.

Upon proper written request and identification, Bids may be withdrawn only as follows:

- a. At any time prior to the designated time for the opening of bids.
- b. Unless a Bid is withdrawn as provided above, the Bidder agrees that it shall be deemed

open for acceptance until the Agreement has been executed by both parties thereto or until the Town notifies a Bidder in writing that his Bid is rejected or that the Town does not intend to accept it. Notice of acceptance of a Bid shall not constitute rejection of any other Bid.

4. Bidders to Investigate

Where applicable, Bidders are required to submit their Bids upon the following express conditions which shall apply to and be deemed a part of every Bid received.

Bidders must satisfy themselves by personal examination of the site of the work and by such means as they may wish, as to the actual conditions there existing, the character and requirements of the work, and the difficulties attendant upon its execution, and the accuracy of all estimated quantities, if any, stated in the Bid.

a. ~~An informational meeting and pre-bid walk-thru will be held~~ N/A

5. Ability and Experience of Bidder

No award will be made to any Bidder who cannot satisfy the Town that he has sufficient ability and experience in this class of work and sufficient capital and plant to enable him to prosecute and complete the work successfully within the time named or where such time is not named, within a reasonable period of time as is determined by the contracting officer or agency. The Town's decision or judgment on these matters shall be final, conclusive and binding.

The Town may make such investigations as it deems necessary, and the Bidder shall furnish to the Town, under oath if so required, all such information and data for this purpose as the Town may request.

6. Interpretations

Questions Regarding Drawings and Documents – Questions must be directed to Brian Snyder of The Geddis Partnership Architects at [brians@tgparch.com](mailto:brians@tgparch.com). Questions and Answers, and Addenda will be posted on the Town of Stratford website under the Purchasing Department link ([www.townofstratford.com](http://www.townofstratford.com)). No phone questions will be accepted. It is the responsibility of the prospective bidder who is downloading this bid to check this website for any addenda issued **up to 48 hours before the deadline**.

The Contractor agrees to use the products and methods designated or described in the specifications or as amended by the addenda.

a. Bids. The Town of Stratford reserves the right to reject Bids which in its judgment are incomplete, conditional, obscure, or not responsible or which contain additions not called for, erasures not properly initialed, alterations or similar irregularities if deemed in the Town's best interest to do so.

- b. Right to Reject or Accept Bids. The Town of Stratford reserves the right to reject any and all bids not deemed to be in the best interest of the Town of Stratford. The Town of Stratford reserves the right to waive any informality in or reject any or all bids, or any part of any bid.
- c. Execution of Agreement. The Bidder whose Bid is accepted will be required and agrees to duly execute the Agreement and furnish the required Bond within such time as deemed reasonable by the Town or Contracting Officer.
- d. Non-Connecticut Contractors 5 % Tax.  
Pursuant to Connecticut General Statutes § 12-430(7), as amended by Public Act No. 03-147 (An Act Concerning Sales Tax Bond Requirements For Nonresident Contractors) and Public Act No. 03-6 (An Act Concerning General Budget and Revenue Implementation), Sec. 76, a nonresident contractor shall furnish the Department of Revenue Services (DRS) a guarantee bond for five (5%) percent of the total contract price using Form AU-766, copy attached.

The nonresident contractor must have completed and submitted to the DRS Form REG-1, *Business Taxes Registration Application*, to register with the DRS and have been issued a Connecticut Tax Registration Number. A copy of this form is attached. This form is also available on the State's web site: <http://www.drs.state.ct.us/pubs/newindx.html#NEWSLETTER>, for the purpose of online registration.

The nonresident contractor has one hundred twenty (120) days from the commencement of the contract to file the guarantee bond. As soon as the guarantee bond is filed with the DRS, a copy of such guarantee bond together with the nonresident contractor's Connecticut Tax Registration Number shall be submitted to the Town of Stratford.

After the nonresident contractor receives an Acceptance of Guarantee Bond form from the DRS confirming that the guarantee bond requirement has been met, the nonresident contractor shall submit a copy of said form, referencing the contract, to the Town of Stratford.

If the copy of the Acceptance of Guarantee Bond form is not received by the Town of Stratford within one hundred twenty (120) days from the commencement of the contract, the Town will be obligated under law to withhold payment in the amount of five (5%) percent of the contract total, including the price of all change orders and charges for add-ons, and remit the amount as a deposit to the DRS not later than thirty (30) days after the completion of the contract. The Town will also be obligated to withhold five percent (5%) from each contractor's invoice if the contractor has invoiced the Town before one hundred twenty (120) days from the commencement of the contract and has not supplied the Town with a copy of the Acceptance of Guarantee Bond.

## 7. Bid Bond

- a. The Bid Bond form given on the following pages shall be used.
  - b. The surety on the bond may be any corporation authorized to act as surety in the State of Connecticut.
  - c. The full name and business or residence address of each individual party to the bond shall be inserted in the space provided therefore, and each party shall sign the bond with his usual signature on the line opposite the scroll seal.
  - d. If the principals are partners, their individual names shall appear in the space provided therefore, with the recital that they are partners composing a firm, naming it, and the bond shall be executed by a general partner who has been authorized to act on behalf of the partnership.
  - e. If the principal or surety is a corporation, the name of the state in which incorporate shall be inserted in the space provided therefore, and said instrument shall be executed and attested under the corporate seal, the fact shall be stated, in which case a scroll or adhesive seal shall appear following the corporate name.
  - f. The official character and authority of the person or persons executing the bond for a corporation shall be certified by a proper officer. In lieu of such certificate, there may be attached to the bond copies of so much of the records of the corporation as will show the official character and authority of the officers signing duly certified by a proper officer, under the corporate seal, to be true copies.
  - g. The date of this bond must not be prior to the date of the instrument in connection with which it is given.
8. Minimum Wages and Payment to Subcontractors
- a. The work specified in this contract is subject to prevailing wage rates **if the total contract amount is \$100,000 or more** as fixed by the Labor Commissioner of the State of Connecticut and a schedule of such rates is deemed to be incorporated herein.
  - b. A general or prime contractor is required by Connecticut law to pay his subcontractors for labor performed or materials furnished within forty-five (45) days after payment to such general or prime contractor.
  - c. The contractor's attention is directed to Section 9 of the Agreement for additional requirements for Employment Preference and Minimum Wage.

**End of Information for Bidders**





**BID FORM**

Bids must be submitted to the Town of Stratford Purchasing Office, attention Michael Bonnar, Purchasing Agent, on the following form signed by an authorized company officer. Bids will be opened on **Thursday, March 17, 2011, at 3:00pm.**

Michael Bonnar, Purchasing Agent  
Town of Stratford  
2725 Main Street  
Stratford, CT 06615

**Re: New Railings at:  
Wilcoxson Elementary School  
Stratford, CT**

To Whom It May Concern:

(I, We) \_\_\_\_\_ the undersigned having visited the project site at the **Wilcoxson Elementary School**, and having familiarized ourselves with the local conditions affecting the cost of the work and with Contract Documents and all addenda thereto, hereby propose to furnish all labor, materials, tools, equipment, insurance to pay all applicable taxes, and to do and perform all things as provided in the Specifications for Toilet Partition Replacements for the following sum:

**BASEBID (Hot-Dipped Galvanized Steel Railings):**

Written

Form:

\_\_\_\_\_

Dollars: (\$ \_\_\_\_\_ )

**ADD ALTERNATE (Stainless Steel Railings):**

**“Additional cost”** to provide stainless steel railings in lieu of hot-dipped galvanized. Refer to drawing A-1 for additional information.

Written

Form:

\_\_\_\_\_

Dollars: (\$ \_\_\_\_\_ )

**ADDENDA**

In submitting this proposal, I have received and included in this Proposal, the following Addenda:

Addendum No.	Date
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Signed: \_\_\_\_\_

	Signature	Corporate Seal
Company Name	: _____	
Address	: _____	
City, St, Zip Code	: _____	
Phone	: (____) - ____ - _____	
Fax	: (____) - ____ - _____	

FORM OF BID BOND  
TOWN OF STRATFORD, CONNECTICUT

\_\_\_\_\_  
Date Bond Executed

\_\_\_\_\_  
BID BOND

\_\_\_\_\_  
Principal

\_\_\_\_\_  
Surety

\_\_\_\_\_  
Penal Sum of Bond (express in words and figures)

\_\_\_\_\_  
Date of Bid

\_\_\_\_\_  
KNOW ALL MEN BY THESE PRESENTS, that we, the principal and surety above named, are held and firmly bound unto the Town of Stratford, Connecticut, in the penal sum of the amount stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal has submitted the accompanying bid, dated as shown above\_\_\_\_\_.

\_\_\_\_\_  
NOW THEREFORE, if the principal shall not withdraw said bid within the period specified therein after the opening of the same, or if no period be specified, within ten (10) days after said opening, and shall within the period specified therefore, or if no period specified, within \_\_\_\_\_ days after the prescribed forms are presented to him for signature, by the terms of the bid accepted, and give bonds with good and sufficient surety or sureties as may be required, for the faithful performance and proper fulfillment of the resulting contract, and for the protection of all persons supplying labor and materials in the prosecution of the work provided for in such contract or in the event of the withdrawal of said bid within the period specified, if the principal shall pay the Town of Stratford, Connecticut, the difference between the amount specified in said bid and the amount for which said Town may procure the required work, supplies, and services, if the latter amount be in excess of the former, then the above obligation shall be void and of no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF the above-bounden parties have executed this instrument under their several seals on the date indicated above. The name and corporate seal of each corporate party being hereto affixed:

In Presence of:

WITNESS

INDIVIDUAL PRINCIPAL

1. \_\_\_\_\_ AS

TO \_\_\_\_\_ (SEAL)

2. \_\_\_\_\_ AS

TO \_\_\_\_\_ (SEAL)

3. \_\_\_\_\_ AS

TO \_\_\_\_\_ (SEAL)

4. \_\_\_\_\_ AS

TO \_\_\_\_\_ (SEAL)

\_\_\_\_\_  
CORPORATE PRINCIPAL

\_\_\_\_\_  
BUSINESS ADDRESS

\_\_\_\_\_  
BY AFFIX  
CORPORATE  
SEAL

\_\_\_\_\_  
TITLE

\_\_\_\_\_  
Attest

\_\_\_\_\_  
CORPORATE SURETY

\_\_\_\_\_  
BUSINESS ADDRESS

\_\_\_\_\_  
BY AFFIX  
CORPORATE  
SEAL

\_\_\_\_\_  
TITLE

## **COMPLIANCE WITH LOCAL ORDINANCE**

Pursuant to Section 8-1 of Chapter 8 of the Town Code, no changes in the terms, conditions or scope of contract that increase the cost of the contract shall be made without the approval of the Stratford Town Council except that the Mayor shall have the authority to approve a change order provided that the cost does not exceed \$5,000 and that it is in the best interest of the Town to avoid delay of the approval of the requested change. The contractor's attention is directed to the entire Chapter 8 of the code, an ordinance regarding change orders. Specifically, the following sections of this ordinance shall be made part of this contract.

### 8-4 Definitions

- a. Contractor means any individual or entity that performs work either as a subcontractor or contractor for the Town.

### 8-5 Additional Non-Contracted Work

Any contractor who does work for the Town of Stratford and needs to perform work not included in the contract for proper completion of the project must immediately inform the project Architect or the Town Engineer or his/her designee in the absence of an architect before work not included in the contract is commenced.

### 8-7 Liquidated Damages

All contracts for construction shall include a liquidated damage clause for violations of Section 8-1 of the Stratford Town Code in form and content as approved by the Town Attorney.

## **LIQUIDATED DAMAGES CLAUSE** (Re: 8-7 above)

In the event that any changes of whatever nature whatsoever are made to or upon any public work or improvement, including but not limited to, changes in the terms, conditions, scope of the contract, or deviations from specifications therein, which are not previously approved by the Stratford Town Council or provided in Chapter 8 of the Stratford Town Code, the contractor shall be solely responsible for any and all expenses thereof and shall indemnify and hold harmless the Town from and against any claim or demand arising out of or from such damages.

## **INDEMNIFICATION**

The Contractor agrees to indemnify and hold harmless the Town of Stratford from any and all claims or demands for damages or injuries to either person or property which arise out of the performance of this contract.

## A. General Liability

Occurrence limit \$1,000,000; aggregate limit \$2,000,000. The insurance carried by the proposer shall be on form CG 00 01, or equivalent. The Town of Stratford shall be named as an additional insured on the contractor's General Liability Insurance Policy with form CG 20 10 or CG 20 33, *and* CG 20 37.

## B. Automobile Liability

Combined single limit of \$1,000,000. Comprehensive automobile policy to cover all owned, hired or non-owned automobiles or vehicles.

## C. Workers Compensation

The proposer must have workers' compensation and employers liability insurance as required by Connecticut and federal law, plus employers liability limits of \$1,000,000 per accident, 1,000,000 disease each employee and \$1,000,000 disease policy limit.

## D. Umbrella Liability

The proposer shall have a minimum coverage of \$1,000,000 excess umbrella coverage, naming the Town as additional insured.

The proposer shall procure and pay for the insurance coverage described above and must maintain the indicated insurance for a period of two (2) years after completion of the contract. All policies shall provide for thirty (30) days written notice prior to cancellation, substantial change or nonrenewal. The successful bidder must file the required Performance Bond and an Insurance Certificate within two weeks of the date of notification of award. Failure or neglect to do so may be considered by the Town as proof that the proposer is unable to fulfill the contract. A current insurance certificate and a copy of the endorsement or policy wording adding the Town as Additional Insured must be in the Town's possession at all times. In addition, the selected firm shall require its subcontractors, if any, to meet the same insurance requirements and to furnish the Town with similar evidence of insurance.

In addition, the proposer shall, at all times, save, indemnify and hold harmless the Town of Stratford, its officers, agents, employees and servants from liability of any nature or kind, including costs and expenses for or on account of, any patented or copyrighted equipment, materials, articles, or processes used in the performance of this contract, or on account of any and all claims, damages, losses, litigation expense and counsel fees arising out of loss or injuries (including death) sustained by or alleged to have been sustained by the public or any persons affected by the proposer's work, or by the proposer or any subcontractor, or anyone directly or indirectly employed by them while engaged in the performance of their duties in connection with this contract.

**INSURANCE PROCEDURE**

**PLEASE NOTE:**

**THIS PAGE MUST BE RETURNED WITH YOUR BID/PROPOSAL. FAILURE TO DO SO MAY RESULT IN YOUR BID/PROPOSAL BEING REJECTED.**

Please take the insurance requirements of the Contract to your agent/broker immediately upon receipt of the bid documents to determine your existing coverage and any costs for new or additional coverage required for the work noted in this Request for Bid/Proposal. Any bids/proposals with deficient insurance requirements will be rejected.

**STATEMENT OF VENDOR:**

I have read the insurance requirements for this work and have taken the documentation to my insurance agent/broker. The bid/proposal cost reflects any additional costs relating to insurance requirements for this work.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contractor

**( SAMPLE ENDORSEMENT LETTER )**

**AGENT / BROKER  
(LETTERHEAD)**

(Date)

Mr. Michael Bonnar  
Purchasing Agent  
Purchasing Department  
Town of Stratford  
2725 Main Street  
Stratford, CT 06615

Re:

**Town of Stratford Contract # \_\_\_\_\_  
(Name of Contract)**

Dear Mr. Bonnar:

The undersigned hereby certifies as follows:

- (1) I am a duly licensed insurance agent under the laws of the State of [insert State] and an authorized representative of all companies affording coverage under the Acord form submitted herewith;
- (2) The Town of Stratford has been endorsed as an additional insured under the general liability policy no. [insert policy number], issued by [insert company affording coverage] to [name of insured];
- (3) The general liability policy referenced in paragraph (2) above meets or exceeds the coverage in Commercial General Liability ISO form CG 00 01 10 01, including contractual liability;
- (4) The policies listed in the Acord form submitted to the Town of Stratford in connection with the above-referenced contract have been issued to the insured in the amounts stated and for the periods indicated in the Acord form; and
- (5) The Town of Stratford shall be given thirty (30) days prior written notice of cancellation, lapse or restrictive amendment (except ten days notice of nonpayment) of the policies listed in the Acord form.

Sincerely,

Authorized Representative for all companies listed in the Acord form

**ACORD**

**CERTIFICATE OF LIABILITY INSURANCE**

PRODUCER	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER, THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
	INSUREERS AFFORDING COVERAGE
INSURED _____	<u>CONTRACT</u>
	INSURER A:
	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:

COVERAGES  
 THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OF 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.

IN SR LT	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE(MM/DD/YY)	POLICY EXPIRATION DATE(MM/DD/YY)	LIMITS		
	GENERAL LIABILITY COMMERCIAL GENERAL <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> _____ <input type="checkbox"/> _____ GENERAL AGGREGATE LIMIT <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC				EACH OCCURENCE FIRE DAMAGE (Any one fire) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGRREGATE PRODUCTS-COMP/OP AGG		
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS <input type="checkbox"/> _____ <input type="checkbox"/> _____				COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)		
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> _____				AUTO ONLY-EA ACCIDENT OTHER THAN EA ACC AUTO ONLY: AGG		
	EXCESS LIABILITY <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE  <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURENCE AGGREGATE		
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY				<table border="1"> <tr> <td>WC STATUORY LIMITS</td> <td>OTHER</td> </tr> </table> E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	WC STATUORY LIMITS	OTHER
WC STATUORY LIMITS	OTHER						
	Professional Liability						

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS  
 Contract # \_\_\_\_\_

CERTIFICATE HOLDER  ADDITIONAL INSURED; INSURER LETTER: \_\_\_\_\_ CANCELLATION

Certificate Holder: <b>Town of Stratford</b> 2725 Main Street Stratford, CT 06615 & <b>The State of Connecticut</b>	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OF REPRESENTATIONS AUTHORIZED REPRESETNATIVE
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**A. M. BEST KEY RATING GUIDE FORM**

The \_\_\_\_\_ is licensed in

**The State of Connecticut as per listing in the 2008 edition of the**

**A.M. Best Key Rating Guide for Property and Casualty, page**

**Number \_\_\_\_\_.**

**Their rating is \_\_\_\_\_.**

**SECTION 01009  
MILESTONE SCHEDULE**

**PART 1 – GENERAL**

**1.01 MASTER SCHEDULE**

The following milestone schedule serves as a basis for bidding. A Master Schedule shall be developed at a general meeting of the successful bidder within fourteen (14) days of Letter of Intent to Award the Contracts. This Master Schedule will incorporate the milestones listed below.

**1.02 Milestone Dates:**

- A. Award Contracts – on or about – **April 1, 2011**
- B. Submittals & Shop Drawings – **April 8, 2011**
- C. Start Installation – **April 18, 2011**
- D. Substantial Completion – **April 22, 2011**
- E. Final Close-out of Contract – **May 2, 2011**
  - Final close out of all contracts shall be by or prior to the date established above. All work including, but not limited to punch lists, project closeout, testing, balancing, owners operation, warranties, etc. shall be complete.

**END OF MILESTONE SCHEDULE**



## SECTION 01100 - SUMMARY

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including the Agreement and other Division 1 Specification Sections, apply to this Section.

## 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Work covered by the Contract Documents.
  - 2. Type of the Contract.
  - 3. Use of premises.
  - 4. Owner's occupancy requirements.
  - 5. Work restrictions.
  - 6. Specification formats and conventions.

## 1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification:  
**New Railings at:**  
**Wilcoxson Elementary School**  
**Stratford, CT**
- B. Owner: The Town of Stratford
  - 1. Owner's Representative: Maurice McCarthy, Director of Public Works,  
(203) 385-4083
- C. Architect: Brian Snyder, The Geddis Partnership Architects – (203) 256-8700
- D. The Work consists of the following:
  - 1. The Work includes but not limited to:
    - a. Installation of new railings on the North side of Wilcoxson Elementary School per drawing A-1.

## 1.4 TYPE OF CONTRACT

- A. Project will be constructed under a single prime contract. Contractor to be referred to as "General Work Contractor" or "GC" or "Contractor".

## 1.5 USE OF PREMISES

- A. General: Contractor shall have limited use of premises for construction operations as required to perform work per Contract Documents. Contractor will coordinate access to project site with owner representative.

## 1.6 WORK RESTRICTIONS

- A. **On-Site Work Hours shall be coordinated with the Town of Stratford Department of Public Works and Stratford Public Schools.**

## 1.7 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format and CSI/CSC's "MasterFormat" numbering system.
  - 1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.
  - 2. Division 1: Sections in Division 1 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
  - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
  - 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
    - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

**PART 2 - PRODUCTS**

- **Contractor agrees to order long lead materials, submit submittals and shop drawings within 5 days of being awarded contract. “Or-equal” long lead materials will be considered during the bidding period (use attached substitution form).**

PART 3 - EXECUTION (Not Used)

END OF SECTION 01100



**SECTION 01250****REGULATORY REQUIREMENTS****PART 1.00 - GENERAL****1.01 RELATED DOCUMENTS**

- A. The General Contract Provisions and the General Requirements of Division 1 apply to the work of this Section.
- B. Particular coordination is required in connection with Sections for Mechanical and Electrical work which must be recognized as containing supplements to this Section of the Specifications.

**1.02 LAWS, CODES, ORDINANCES, PERMITS, FEES, ETC.**

- A. All necessary permits from the municipal or other public authorities shall be secured by the Contractor who shall give all notices required by Law, Municipal Ordinances, or the Rules and Regulations of the various Municipal Bureaus or Departments, and also as a part of the Contract, shall comply with all Federal and State laws and all Municipal Ordinances or Regulations that may be applicable to this work which shall be issued (in compliance with Ordinances or Regulations existing at the time of Notice to Proceed) by any or all of said Departments as applying to the work of the Contract.
- B. Wherever in these Specifications the name of an Official, Bureau or Department is mentioned, it is intended to mean that Official, Bureau, or Department having jurisdiction.
- C. The Contractor shall deliver to the Owner all permits or certificates of approval and inspections issued by all Agencies having jurisdiction in connection with this work, before the certificate for final payment is issued.
- D. Laws, Codes, Provisions - Comply with:
  - 1. Connecticut Building Code
  - 2. NFPA 101
  - 3. OSHA

4. See other codes and ordinances referenced therein.
  5. In case of conflicting requirements between the various codes, the Contract Documents or any other Local and State Codes or Ordinances having jurisdiction, the most stringent shall govern.
- E. It is the intention of these Contract documents that the contractor's work be fully in compliance with all applicable codes and ordinances and that the cost of such compliance is included in the Contract Price. If there are errors or omissions in the contract documents which would result in work that was not in compliance with all the applicable codes and ordinances then the contractor shall not proceed but shall notify the architect in writing. The Contractor shall have included in the contract price the cost of all such work even in the case of errors or omissions to the contract documents if such errors and omissions could have been readily ascertainable through the exercise of reasonable diligence by the contractors.

**END OF SECTION 01060**

**SECTION 01330****SUBMITTALS****PART 1.00 - GENERAL****1.01 GENERAL REQUIREMENTS**

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

**1.02 WORK INCLUDED**

- A. Work of this Section includes all labor, materials, equipment, and services necessary to complete submittal requirements as specified herein, including, but not limited to, the following:
  - 1. Construction schedules.
  - 2. Survey data.
  - 3. Shop drawings and samples.
  - 4. Manuals.
  - 5. Integrated drawings.

**1.03 RELATED WORK**

- A. Substitution requirements - Section 01600.
- B. General submittal requirements - General Conditions.

**PART 2.00 - PRODUCTS****2.01 CONSTRUCTION SCHEDULES**

- A. Refer to the *Agreement* for submission of a progress schedule.
- B. Contractor shall submit a Schedule of Submittals within thirty (30) days of award of contract.

## 2.02 SHOP DRAWINGS AND SAMPLES

### A. General:

1. Samples, shop drawings, manufacturer's literature, and other required information shall be submitted in sufficient time to permit proper consideration and action on same before any materials and items are delivered on the work. All samples of materials requiring laboratory tests shall be submitted to the laboratory for testing in sufficient time to obtain test results before such materials are required to be used in the work.
2. Shop drawings for each Section of the work shall be numbered consecutively, and the numbering system shall be retained throughout all revisions. Each drawing shall have a clear space for the stamps of the Contractor, Architect, and one of the Architect's consultants.
3. No work shall be fabricated, manufactured, or installed from shop drawings stamped "Revise and Resubmit" or "Rejected", and such shop drawings shall be corrected and resubmitted by the Contractor until accepted by the Architect. At least one complete set of "No Exceptions Taken" or "Exceptions Taken As Noted" shop drawings shall be kept at the site in the Contractor's field office for reference at all times. "Revise and Resubmit" or "Rejected" shop drawings shall not be permitted at the site.
4. Submittals marked "No Exceptions Taken" :
  - a. Submittals which require no corrections by the Architect will be marked "No Exceptions Taken".
5. Submittals marked "Exception Taken as Noted":
  - a. Submittals which require only a minor amount of correcting shall be marked "Exceptions Taken as Noted". This mark shall mean that checking is complete and all corrections are obvious without ambiguity. Fabrication will be allowed on work "Exceptions Taken as Noted", provided such action will expedite construction and noted corrections are adhered to. If fabrication is not made strictly in accordance with corrections noted, the item shall be rejected in the field, and the Contractor will be required to replace such work in

accordance with corrected submittals.

6. Submittals marked "Revise and Resubmit" or "Rejected":
  - a. When submittals are contrary to contract requirements or too many corrections are required, they shall be marked "Revise and Resubmit" or "Rejected". No work shall be fabricated under this mark. The Architect shall list his reasons for rejection on the submittals or in the transmittal letter accompanying their return. The submittals must be corrected and resubmitted for approval.
7. All shop drawings and samples shall be identified as follows:
  - a. Date of submittal.
  - b. Title of project.
  - c. Name of Contractor and date of his approval.
  - d. Name of subcontractor or supplier and date of submittal to Contractor.
  - e. Number of submission.
  - f. Any qualification, departure, or deviation from the requirements of the Contract.
  - g. Federal Specification or ASTM number where required.
  - h. Such additional information as may be required by the Specifications for the particular material being furnished.
8. The Architect will review and approve shop drawings and samples for approval with reasonable promptness, but only for conformance with the design concept of the work and with information contained in the Contract Documents.
9. The Contractor shall submit appropriate transmittal forms with every submittal of shop drawings, manufacturer's literature, and samples. All sepia reproducibles shall be rolled on cardboard tubes for resubmittal. The Contractor shall submit all required shop drawings, manufacturer's literature and samples in accordance with the following procedures noted herein.

10. Unless otherwise specifically directed by the Architect, make all shop drawings accurately to a scale sufficiently large to show all pertinent features of the item and its method of connection to the work.
11. The Contractor shall submit one copy of each standard referred to in the Specifications (ASTM, Fed. Spec., etc.) with the submission of each respective shop drawing, sample, or literature.

**B. Submission of Shop Drawings:**

1. **Architectural Work:** Submit one (1) sepia reproducible and two (2) black line prints of each shop drawing to the Architect for approval. If approved, the Architect will return one (1) sepia stamped "No Exceptions Taken" or "Exceptions Taken as Noted", and the Contractor shall print the required number of copies. In the event the Architect returns one (1) sepia stamped "Revise and Resubmit" or "Rejected", the Contractor shall make indicated changes and resubmit one (1) sepia reproducible and two (2) black line prints to the Architect.
2. **Structural Work and Mechanical Work:** Submit one (1) sepia reproducible and two (2) black line prints of each shop drawing to the Engineer, with one (1) black line print and copy of the transmittal form to the Architect. If accepted, the Architect shall return one (1) sepia stamped "No Exceptions Taken" or "Exceptions Taken as Noted", and the Contractor shall print the required number of copies. In the event the Architect returns one (1) sepia stamped "Revise and Resubmit" or "Rejected", the Contractor shall make indicated changes and resubmit one (1) sepia reproducible and two (2) black line prints to the Engineer, with a copy of the transmittal form and one (1) black line print to the Architect.
3. **Prints:** The Contractor shall provide all prints of shop drawings as reasonably required by subcontractors, material suppliers, superintendents, inspectors, and others as required for the work, or as directed by the Architect. The Contractor shall pay all costs in connection with printing and distribution of shop drawings.

**C. Submission of Manufacturer's Literature, Including Catalog, Catalog Cuts, Brochures, Charts, Test Data, and Similar Information:**

1. Manufacturers literature will receive consideration only when accompanied by the transmittal form properly filled out, as the Specification Section and paragraph numbers describing such materials. Any deviations from contract requirements shall be stated on the above form or attached to it.
2. Architectural Work: Submit six (6) copies of manufacturer's literature to the Architect for acceptance. If accepted, the Architect will return four (4) copies stamped "No Exceptions Taken" or "Exceptions Taken as Noted". In the event the Architect returns the literature stamped "Revise and Resubmit" or "Rejected", he will return two (2) copies only. The Contractor shall resubmit six (6) copies of correct or corrected literature of all submissions stamped "Revise and Resubmit" or "Rejected", with one (1) copy of correct or corrected literature with copy of the transmittal form to the Architect.
3. Structural Work and Mechanical Work: Submit six (6) copies of manufacturer's literature to the Engineer, with one (1) copy of the literature and copy of the transmittal form to the Architect. If accepted, the Architect will return four (4) copies stamped "No Exceptions Taken" or "Exceptions Taken as Noted". In the event the Architect stamps the literature "Revise and Resubmit" or "Rejected", he will return two (2) copies only. The Contractor shall resubmit six (6) copies of correct or corrected literature to the Engineer for all submissions stamped "Revised and Resubmit" or "Rejected", with one (1) copy of correct or corrected literature with copy of the transmittal form to the Architect.
4. All copies of manufacturer's literature required to be resubmitted hereunder shall be original printed material. Reproductions of printed material will not receive consideration.

D. Submissions of Samples:

1. All samples shall be submitted in triplicate unless otherwise indicated in the Specifications.
2. Samples will receive consideration only when accompanied by the transmittal form properly filled out, as indicated, and listing each sample, as well as the listing of any ASTM, Federal or other standard references specified or applicable and such additional information as may be required by the Specifications for the materials being submitted. Any deviation from the contract requirements shall be so stated on the above form or attached to it.

3. The Architect shall have the right to require submission of samples of any materials, whether or not specifically indicated in the various Sections of the Specifications.
4. Unless otherwise specified, samples of sufficient size to indicate general visual effect shall be submitted. Where samples must show a range of color, texture, finish, graining, or other similar property, the Contractor shall submit sets or pairs illustrating the full scope of the range.
5. One (1) sample of each submission will be returned to the Contractor. Samples stamped "Revise and Resubmit" or "Rejected" by the Architect shall be resubmitted in triplicate by the Contractor.
6. All samples stamped "No Exceptions Taken" or "Exceptions Taken as Noted" shall be kept at the site in the Contractor's field office facilities for reference at all times. "Revise and Resubmit" or "Rejected" samples shall not be kept at the site.

## 2.03 MANUALS

- A. Where manuals are required to be submitted covering included in this work, prepare all such manuals in durable plastic binders approximately 8-1/2 x 11" in size and with at least the following:
  1. Identification on, or readable through, the front cover stating general nature of the manual.
  2. Neatly typewritten index near the front of the manual furnishing immediate information as to location in the manual of all emergency data regarding the installation.
  3. Complete instructions regarding operation and maintenance of all equipment involved.
  4. Complete nomenclature of all replaceable parts, their part numbers, current cost, and name and address of nearest vendor of parts.
  5. Copy of all guarantees and warranties issued.
  6. Copy of the approved shop drawings with all data concerning changes made during construction.

- B. Where contents of manuals include manufacturer's catalog pages, clearly indicate the precise items included in this installation and delete or otherwise clearly indicate all manufacturer's data with which this installation is not concerned.
- C. Number of Copies Required: Refer to Section 01770 - Contract Closeout.

#### 2.04 INTEGRATED DRAWINGS

- A. The HVAC subcontractor shall prepare a Drawing or Drawings showing duct work, heating and sprinkler piping. This Drawing shall include location of grilles, registers, etc., and access doors in hung ceilings. Locations shall be fixed by elevations and dimensions from column center lines and/or walls.
- B. The HVAC subcontractor shall prepare and distribute to the Plumbing and Electrical subcontractors, the General Contractor, the Construction Manager, and to the Architect a sepia of the above.
- C. The HVAC subcontractor shall lay out on his sepia the reflected ceiling plan, beam soffit elevations, ceiling heights, roof openings, etc.
- D. The Plumbing subcontractor shall lay out on his sepia the piping, valves, cleanouts, etc., indicating locations and elevations and shall indicate the necessary access doors.
- E. The Electrical subcontractor shall indicate on his sepia the fixtures, large conduit runs, clearances, pull boxes, junction boxes, sound system speakers, etc.
- F. The General Contractor shall indicate on his sepia any structural framing, ceiling hangers, etc.
- G. The General Contractor shall call as many meetings with the subcontractors as are necessary to resolve any conflicts that become apparent. He will call on the services of the Consultant Engineer or Architect where necessary. Any conflicts which result in a relocation of a finished surface are to be brought to the attention of the Architect prior to installation.
- H. On resolution of the conflicts, each subcontractor shall enter his own work on the HVAC subcontractor's sepia, which shall become the master or integrated Drawing. The master sepia shall be signed by each contributing subcontractor to indicate his acceptance of the arrangement of the work.
- I. A reproducible copy of the master integrated Drawing will be prepared by the HVAC subcontractor. The Construction Manager will make distribution to the contractors and the Architect.

- J. Each subcontractor shall prepare his shop Drawings in accordance with the integrated Drawings. No work will be permitted without approved shop Drawings. It is therefore essential that this procedure be instituted as quickly as possible.

## 2.05 SURVEY DATA

- A. Be responsible for properly laying out the work and for the lines and measurements for the work executed under the Contract Documents. Verify the figures shown on the Drawings before laying out the work.
- B. Be responsible for the proper location and level of the work and for maintenance of the reference lines and bench marks. Establish bench marks and axis lines at each floor showing partition layout lines and dimensional reference points as required for the information and guidance of all trades.
- C. The mechanical and electrical trades shall be responsible for the layout of the duct work, piping, and conduit based on the reference lines and bench marks established.

## **PART 3.00 - EXECUTION**

### 3.01 COORDINATION OF SUBMITTALS

- A. Prior to submittal for Architect's review, use all means necessary to fully coordinate all material, including the following procedures:
  - 1. Determine and verify all field dimensions and conditions, materials, catalog numbers and similar data.
  - 2. Coordinate as required with all trades and with public agencies involved.
  - 3. Secure all necessary approvals from public agencies and others and signify by stamp, or other means, that they have been secured.
  - 4. Clearly indicate all deviations from the Contract Documents.
- B. Unless otherwise specifically permitted by the Architect, make all submittals in groups containing all associated items; the Architect may reject partial submittals as not complying with the provisions of the Contract Documents.

**END OF SECTION 01300**

**SECTION 01400****QUALITY REQUIREMENTS****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, and other Division 1 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. This Section includes administrative and procedural requirements for quality-control services.
- B. Quality-control services include inspections, tests, and related actions, including reports performed by Contractor, by independent agencies, and by governing authorities. They do not include contract enforcement activities performed by Architect.
- C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with Contract Document requirements.
- D. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard products.
  - 1. Specific quality-control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
  - 2. Specified inspections, tests, and related actions do not limit Contractor's quality-control procedures that facilitate compliance with Contract Document requirements.
  - 3. Requirements for Contractor to provide quality-control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
- E. Related Sections: The following Sections contain requirements that relate to this Section:
  - 1. Division 1 Section "Submittals" specifies requirements for development of a schedule of required tests and inspections.

### 1.3 RESPONSIBILITIES

- A. Contractor Responsibilities: Unless otherwise indicated as the responsibility of another identified entity, Contractor shall provide inspections, tests, and other quality-control services specified elsewhere in the Contract Documents and required by authorities having jurisdiction. Costs for these services are included in the Contract Sum.
1. Where individual Sections specifically indicate that certain inspections, tests, and other quality-control services are the Contractor's responsibility, the Contractor shall employ and pay a qualified independent testing agency to perform quality-control services. Costs for these services are included in the Contract Sum.
  2. Where individual Sections specifically indicate that certain inspections, tests, and other quality-control services are the Owner's responsibility, the Owner will employ and pay a qualified independent testing agency to perform those services.
- B. Retesting: The Contractor is responsible for retesting where results of inspections, tests, or other quality-control services prove unsatisfactory and indicate noncompliance with Contract Document requirements, regardless of whether the original test was Contractor's responsibility.
1. The cost of retesting construction, revised or replaced by the Contractor, is the Contractor's responsibility where required tests performed on original construction indicated noncompliance with Contract Document requirements.
- C. Associated Services: Cooperate with agencies performing required inspections, tests, and similar services, and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations to permit assignment of personnel. Auxiliary services required include, but are not limited to, the following:
1. Provide access to the Work.
  2. Furnish incidental labor and facilities necessary to facilitate inspections and tests.
  3. Take adequate quantities of representative samples of materials that require testing or assist the agency in taking samples.
  4. Provide facilities for storage and curing of test samples.
  5. Deliver samples to testing laboratories.
  6. Provide the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
  7. Provide security and protection of samples and test equipment at the Project

## Site.

- D. Duties of the Testing Agency: The independent agency engaged to perform inspections, sampling, and testing of materials and construction specified in individual Sections shall cooperate with the Architect and the Contractor in performance of the agency's duties. The testing agency shall provide qualified personnel to perform required inspections and tests.
1. The agency shall notify the Architect and the Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
  2. The agency is not authorized to release, revoke, alter, or enlarge requirements of the Contract Documents or approve or accept any portion of the Work.
  3. The agency shall not perform any duties of the Contractor.
- E. Coordination: Coordinate the sequence of activities to accommodate required services with a minimum of delay. Coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.
1. The Contractor is responsible for scheduling times for inspections, tests, taking samples, and similar activities.

## 1.4 SUBMITTALS

- A. Unless the Contractor is responsible for this service, the independent testing agency shall submit a certified written report, in duplicate, of each inspection, test, or similar service to the Architect. If the Contractor is responsible for the service, submit a certified written report, in duplicate, of each inspection, test, or similar service through the Contractor.
1. Submit additional copies of each written report directly to the governing authority, when the authority so directs.
  2. Report Data: Written reports of each inspection, test, or similar service include, but are not limited to, the following:
    - a. Date of issue.
    - b. Project title and number.
    - c. Name, address, and telephone number of testing agency.
    - d. Dates and locations of samples and tests or inspections.
    - e. Names of individuals making the inspection or test.
    - f. Designation of the Work and test method.
    - g. Identification of product and Specification Section.
    - h. Complete inspection or test data.
    - i. Test results and an interpretation of test results.
    - j. Ambient conditions at the time of sample taking and testing.

- k. Comments or professional opinion on whether inspected or tested Work complies with Contract Document requirements.
- l. Name and signature of laboratory inspector.
- m. Recommendations on retesting.

## 1.5 QUALITY ASSURANCE

- A. Qualifications for Service Agencies: Engage inspection and testing service agencies, including independent testing laboratories, that are pre-qualified as complying with the American Council of Independent Laboratories' "Recommended Requirements for Independent Laboratory Qualification" and that specialize in the types of inspections and tests to be performed.
  - 1. Each independent inspection and testing agency engaged on the Project shall be authorized by authorities having jurisdiction to operate in the state where the Project is located.

## **PART 2 - PRODUCTS (Not Applicable)**

## **PART 3 - EXECUTION**

### 3.1 REPAIR AND PROTECTION

- A. General: Upon completion of inspection, testing, sample taking and similar services, repair damaged construction and restore substrates and finishes. Comply with Contract Document requirements for Division 1 Section "Cutting and Patching."
- B. Protect construction exposed by or for quality-control service activities, and protect repaired construction.
- C. Repair and protection is Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing, or similar services.

**END OF SECTION 01400**

## SECTION 01600

### PRODUCT REQUIREMENTS

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, and other Division 1 Specification Sections, apply to this Section.

##### 1.2 SUMMARY

- A. This Section includes the following administrative and procedural requirements: selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; product substitutions; and comparable products.
- B. Related Sections include the following:
  - 1. Division 1 Section "Allowances" for products selected under an allowance.
  - 2. Division 1 Section "Alternates" for products selected under an alternate.
  - 3. Division 1 Section "Closeout Procedures" for submitting warranties for contract closeout.
  - 4. Divisions 2 through 16 Sections for specific requirements for warranties on products and installations specified to be warranted.

##### 1.3 DEFINITIONS

- A. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.
  - 1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation, shown or listed in manufacturer's published product literature, that is current as of date of the Contract Documents.
  - 2. New Products: Items that have not previously been incorporated into another project or facility, except that products consisting of recycled-content materials are allowed, unless explicitly stated otherwise. Products salvaged or recycled from other projects are not considered new products.
  - 3. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service

performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

- B. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
- C. Basis-of-Design Product Specification: Where a specific manufacturer's product is named and accompanied by the words "basis of design," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of other named manufacturers.
- D. Manufacturer's Warranty: Preprinted written warranty published by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
- E. Special Warranty: Written warranty required by or incorporated into the Contract Documents, either to extend time limit provided by manufacturer's warranty or to provide more rights for Owner.

#### 1.4 SUBMITTALS

- A. Product List: Submit a list, in tabular form, showing specified products. Include generic names of products required. Include manufacturer's name and proprietary product names for each product.
  1. Coordinate product list with Contractor's Construction Schedule and the Submittals Schedule.
  2. Form: Tabulate information for each product under the following column headings:
    - a. Specification Section number and title.
    - b. Generic name used in the Contract Documents.
    - c. Proprietary name, model number, and similar designations.
    - d. Manufacturer's name and address.
    - e. Supplier's name and address.
    - f. Installer's name and address.
    - g. Projected delivery date or time span of delivery period.
    - h. Identification of items that require early submittal approval for scheduled delivery date.
  3. Completed List: Within 60 days after date of commencement of the Work, submit 3 copies of completed product list. Include a written explanation for omissions of data and for variations from Contract requirements.

4. Architect's Action: Architect will respond in writing to Contractor within 15 days of receipt of completed product list. Architect's response will include a list of unacceptable product selections and a brief explanation of reasons for this action. Architect's response, or lack of response, does not constitute a waiver of requirement that products comply with the Contract Documents.
- B. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
1. Substitution Request Form: Use form provided at end of Section.
  2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
    - a. Statement indicating why specified material or product cannot be provided.
    - b. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
    - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
    - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
    - e. Samples, where applicable or requested.
    - f. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
    - g. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
    - h. Research/evaluation reports evidencing compliance with building code in effect for Project, from a model code organization acceptable to authorities having jurisdiction.
    - i. Detailed comparison of Contractor's Construction Schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating lack of availability or delays in delivery.
    - j. Cost information, including a proposal of change, if any, in the Contract Sum.
    - k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents and is appropriate for applications indicated.

- I. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
  - 3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a request for substitution. Architect will notify Contractor through Construction Manager of acceptance or rejection of proposed substitution within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
    - a. Form of Acceptance: Change Order.
    - b. Use product specified if Architect cannot make a decision on use of a proposed substitution within time allocated.
- C. Basis-of-Design Product Specification Submittal: Comply with requirements in Division 1 Section "Submittal Procedures." Show compliance with requirements.

## 1.5 QUALITY ASSURANCE

- A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, product selected shall be compatible with products previously selected, even if previously selected products were also options.
  - 1. Each contractor is responsible for providing products and construction methods compatible with products and construction methods of other contractors.
  - 2. If a dispute arises between contractors over concurrently selectable but incompatible products, Architect will determine which products shall be used.

## 1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
  - 1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
  - 2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
  - 3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system,

- complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.
  5. Store products to allow for inspection and measurement of quantity or counting of units.
  6. Store materials in a manner that will not endanger Project structure.
  7. Store products that are subject to damage by the elements, under cover in a weathertight enclosure above ground, with ventilation adequate to prevent condensation.
  8. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
  9. Protect stored products from damage.
- B. Storage: Provide a secure location and enclosure at Project site for storage of materials and equipment by Owner's construction forces. Coordinate location with Owner.

## 1.7 PRODUCT WARRANTIES

- A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
- B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. Submit a draft for approval before final execution.
1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
  2. Specified Form: Forms are included with the Specifications. Prepare a written document using appropriate form properly executed.
  3. Refer to Divisions 2 through 16 Sections for specific content requirements and particular requirements for submitting special warranties.
- C. Submittal Time: Comply with requirements in Division 1 Section "Closeout Procedures."

## PART 2 - PRODUCTS

### 2.1 PRODUCT OPTIONS

- A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged, and unless otherwise indicated, that are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
  2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
  3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
  4. Where products are accompanied by the term "as selected," Architect will make selection.
  5. Where products are accompanied by the term "match sample," sample to be matched is Architect's.
  6. Descriptive, performance, and reference standard requirements in the Specifications establish "salient characteristics" of products.
  7. Or Equal: Where products are specified by name and accompanied by the term "or equal" or "or approved equal" or "or approved," comply with provisions in "Comparable Products" Article to obtain approval for use of an unnamed product.
- B. Product Selection Procedures: Procedures for product selection include the following:
1. Product: Where Specification paragraphs or subparagraphs titled "Product" name a single product and manufacturer, provide the product named.
    - a. Substitutions may be considered, unless otherwise indicated.
  2. Manufacturer/Source: Where Specification paragraphs or subparagraphs titled "Manufacturer" or "Source" name single manufacturers or sources, provide a product by the manufacturer or from the source named that complies with requirements.
    - a. Substitutions may be considered, unless otherwise indicated.
  3. Products: Where Specification paragraphs or subparagraphs titled "Products" introduce a list of names of both products and manufacturers, provide one of the products listed that complies with requirements.
    - a. Substitutions may be considered, unless otherwise indicated.
  4. Manufacturers: Where Specification paragraphs or subparagraphs titled "Manufacturers" introduce a list of manufacturers' names, provide a

product by one of the manufacturers listed that complies with requirements.

- a. Substitutions may be considered, unless otherwise indicated.
5. Available Products: Where Specification paragraphs or subparagraphs titled "Available Products" introduce a list of names of both products and manufacturers, provide one of the products listed or another product that complies with requirements. Comply with provisions in "Comparable Products" Article to obtain approval for use of an unnamed product.
  6. Available Manufacturers: Where Specification paragraphs or subparagraphs titled "Available Manufacturers" introduce a list of manufacturers' names, provide a product by one of the manufacturers listed or another manufacturer that complies with requirements. Comply with provisions in "Comparable Products" Article to obtain approval for use of an unnamed product.
  7. Product Options: Where Specification paragraphs titled "Product Options" indicate that size, profiles, and dimensional requirements on Drawings are based on a specific product or system, provide either the specific product or system indicated or a comparable product or system by another manufacturer. Comply with provisions in "Product Substitutions" Article.
  8. Basis-of-Design Products: Where Specification paragraphs or subparagraphs titled "Basis-of-Design Product[s]" are included and also introduce or refer to a list of manufacturers' names, provide either the specified product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with provisions in "Comparable Products" Article to obtain approval for use of an unnamed product.
    - a. Substitutions may be considered, unless otherwise indicated.
  9. Visual Matching Specification: Where Specifications require matching an established Sample, select a product (and manufacturer) that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches satisfactorily.
    - a. If no product available within specified category matches satisfactorily and complies with other specified requirements, comply with provisions of the Contract Documents on "substitutions" for selection of a matching product.
  10. Visual Selection Specification: Where Specifications include the phrase "as selected from manufacturer's colors, patterns, textures" or a similar phrase, select a product (and manufacturer) that complies with other specified requirements.

- a. Standard Range: Where Specifications include the phrase "standard range of colors, patterns, textures" or similar phrase, Architect will select color, pattern, or texture from manufacturer's product line that does not include premium items.
  - b. Full Range: Where Specifications include the phrase "full range of colors, patterns, textures" or similar phrase, Architect will select color, pattern, or texture from manufacturer's product line that includes both standard and premium items.
11. Allowances: Refer to individual Specification Sections and "Allowance" provisions in Division 1 for allowances that control product selection and for procedures required for processing such selections.

## 2.2 PRODUCT SUBSTITUTIONS

- A. Timing: Architect will consider requests for substitution if received within 21 days after commencement of the Work. Requests received after that time may be considered or rejected at discretion of Architect.
- B. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
  1. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
  2. Requested substitution does not require extensive revisions to the Contract Documents.
  3. Requested substitution is consistent with the Contract Documents and will produce indicated results.
  4. Substitution request is fully documented and properly submitted.
  5. Requested substitution will not adversely affect Contractor's Construction Schedule.
  6. Requested substitution has received necessary approvals of authorities having jurisdiction.
  7. Requested substitution is compatible with other portions of the Work.
  8. Requested substitution has been coordinated with other portions of the Work.
  9. Requested substitution provides specified warranty.
  10. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is

uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

## 2.3 COMPARABLE PRODUCTS

- A. Where products or manufacturers are specified by name, submit the following, in addition to other required submittals, to obtain approval of an unnamed product:
1. Evidence that the proposed product does not require extensive revisions to the Contract Documents, that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
  2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
  3. Evidence that proposed product provides specified warranty.
  4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
  5. Samples, if requested.

## **PART 3 - EXECUTION (Not Used)**

**END OF SECTION 01600**

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SUBSTITUTION REQUEST (After the Bidding Phase)

Project: Substitution Request Number: From: To: Date: A/E Project Number: Re: Contract For:

Specification Title: Description: Section: Page: Article/Paragraph:

Proposed Substitution: Manufacturer: Address: Phone: Trade Name: Model No.: Installer: Address: Phone:

History: [ ] New product [ ] 2-5 years old [ ] 5-10 yrs old [ ] More than 10 years old

Differences between proposed substitution and specified product:

[ ] Point-by-point comparative data attached - REQUIRED BY A/E

Reason for not providing specified item:

Similar Installation:

Project: Architect: Address: Owner: Date Installed:

Proposed substitution affects other parts of Work: [ ] No [ ] Yes; explain

Savings to Owner for accepting substitution: (\$ )

Proposed substitution changes Contract Time: [ ] No [ ] Yes [Add] [Deduct] days.

Supporting Data Attached: [ ] Drawings [ ] Product Data [ ] Samples [ ] Tests [ ] Reports [ ]

**SUBSTITUTION  
REQUEST  
(Continued)**

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted by: \_\_\_\_\_

Signed by: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_

Attachments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**A/E's REVIEW AND ACTION**

- Substitution approved - Make submittals in accordance with Specification Section 01330.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by:

Date:

\_\_\_\_\_

Additional Comments:     Contractor     Subcontractor     Supplier     Manufacturer     A/E     \_\_\_\_\_

\_\_\_\_\_

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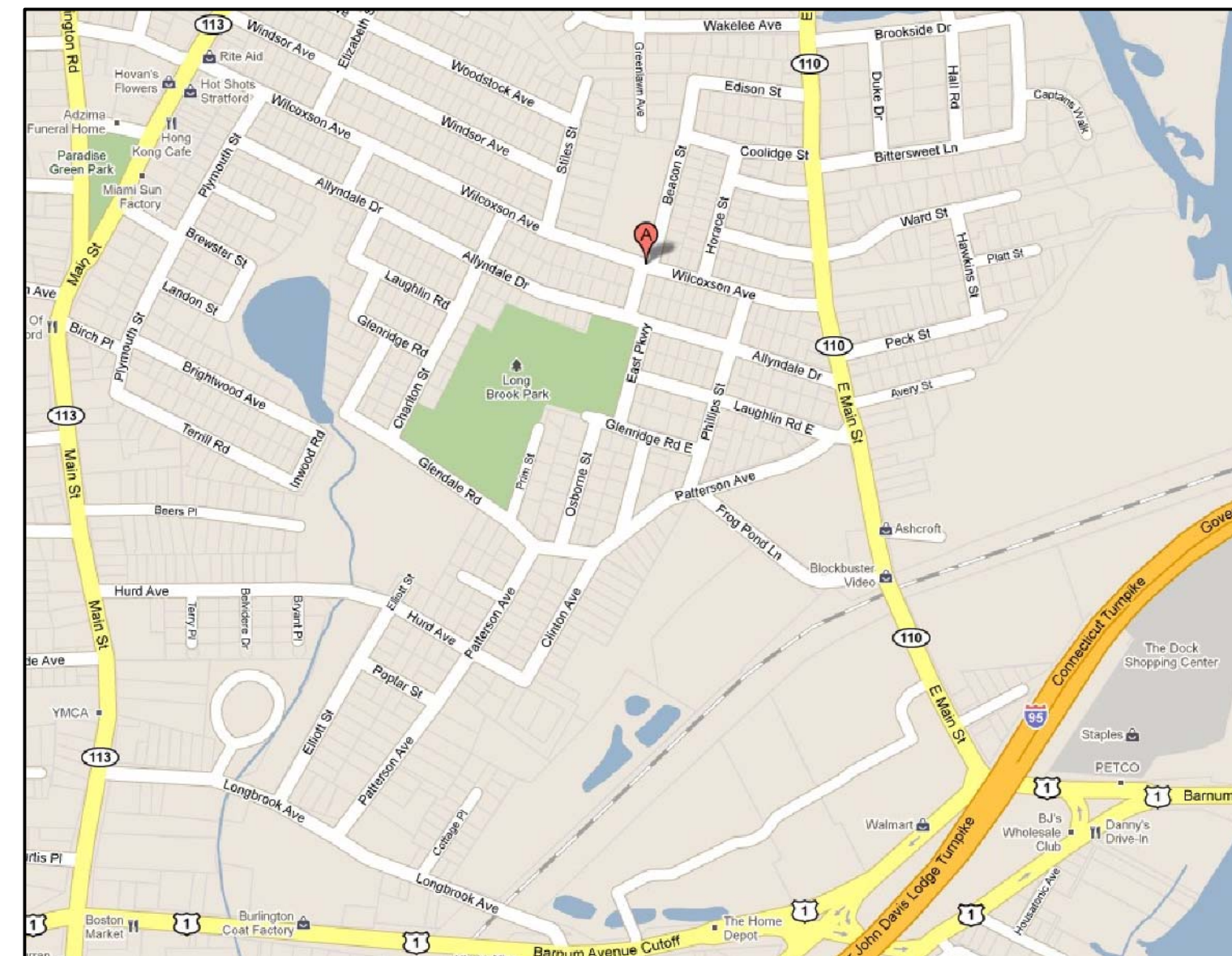
# New Railings at: Wilcoxson Elementary School

600 Wilcoxson Avenue  
Stratford, CT 06614



2725 Main Street  
Stratford, CT 06614

## LOCATION MAP



## GENERAL NOTES:

- ALL DETAILS AND/OR PART OF DETAILS ARE SIMILAR FOR SIMILAR LOCATIONS IN ALL OR PART OF THE DETAIL.
- ALL WORK IS NEW UNLESS NOTED OTHERWISE.
- EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE.
- INDICATED DIMENSIONS ARE TO :  
A. FACE OF MASONRY OR CONCRETE AND FACE OF FINISH TO FINISH ARE EXACT.  
B. CENTER LINES.
- WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- ANY VARIATION FROM CONDITIONS SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ARCHITECT. AFFECTED WORK SHALL NOT PROCEED UNTIL CLARIFICATION HAS BEEN RECEIVED.
- ALL WORK IS TO CONFORM TO ALL APPLICABLE CONNECTICUT BUILDING CODES.
- USE ONLY NEW MATERIALS AND EQUIPMENT WITHOUT DEFECTS.
- DISCREPANCIES AND OMISSIONS ON DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND ARCHITECT IN WRITING FOR CLARIFICATION.
- SET ALL WORK STRAIGHT, PLUMB AND LEVEL OR WITH INDICATED SLOPE.
- EACH CONTRACTOR IS TO USE THE APPROVED STANDARDS: A.I.S.C. FEDERAL, U.S., ETC. STANDARDS OF THEIR TRADES. ALL CONSTRUCTION SHALL BE PERFORMED TO THESE STANDARDS.
- IF AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE MORE EXPENSIVE METHOD OF WORK.
- THE GENERAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS.
- LARGE SCALE DETAILS HAVE PRECEDENCE, HOWEVER WORK INDICATED ON SMALL SCALE DRAWINGS SHALL NOT BE OMITTED. SIMILARLY, NOTES TAKE PRECEDENCE OVER SCHEDULES, PIPING AND WIRE DIAGRAMS. HOWEVER WORK SHOWN OR DESCRIBED BY OTHER METHODS SHALL NOT BE OMITTED.
- CUT AND PATCH ALL EXISTING FINISHES AS REQUIRED BY NEW WORK. MATCH AND FINISH TO PRESENT FINISHED SURFACES OR AS INDICATED.
- FLASH PATCH EXISTING CONCRETE SLABS THAT ARE TO RECEIVE FINISH FLOORING AS REQUIRED.
- ALL PIPING IN FINISHED SPACES TO BE FURRED OUT AND FINISHED TO MATCH EXISTING ADJACENT FINISHES.
- BY SUBMISSION OF THE BID OR PROPOSAL THE UNDERSIGNED BIDDER AND THE PERSON OR PERSONS SIGNING ON BEHALF OF THE BIDDER, AND SHOULD THIS BID BE A JOINT BID, EACH PARTY THERETO, CERTIFIES AS TO ITS OWN ORGANIZATION, UNDER PENALTY OF PERJURY, THAT TO THE BEST OF KNOWLEDGE AND BELIEF:

THE PRICES IN THIS BID HAVE BEEN ARRIVED AT INDEPENDENTLY WITHOUT COLLUSION, CONSULTATION, COMMUNICATION, OR AGREEMENT FOR THE PURPOSE OF RESTRICTING COMPETITION, AS TO ANY MATTER RELATING TO SUCH PRICES WITH ANY OTHER BIDDER OR WITH ANY COMPETITOR.

UNLESS OTHERWISE REQUIRED BY LAW, THE PRICES WHICH HAVE BEEN QUOTED IN THIS BID HAVE NOT BEEN KNOWINGLY DISCLOSED BY THE BIDDER PRIOR TO OPENING, DIRECTLY OR INDIRECTLY, TO ANY OTHER BIDDER NOR TO ANY COMPETITOR; AND NO ATTEMPT HAS BEEN MADE OR WILL BE MADE BY THE BIDDER TO INDUCE ANY OTHER PERSON, PARTNERSHIP OR CORPORATION TO SUBMIT OR NOT TO SUBMIT A BID FOR THE PURPOSE OF RESTRICTING COMPETITION.

## LIST OF DRAWINGS

### ARCHITECTURAL

- T-1 TITLE SHEET
- C-1 DRAINAGE IMPROVEMENT PLAN

## Revisions

8/20/2010	ISSUED TO CLIENT
2/28/2011	ISSUED FOR BID

## The Geddiss Partnership

Architecture Planning Interiors  
71 Old Post Road, Southport, CT 06890  
(203) 256-8700

## Project



2725 Main Street  
Stratford, CT 06614

## New Railings at: Wilcoxson Elementary School

600 Wilcoxson Avenue  
Stratford, CT 06614

## Drawing Title

TITLE SHEET

## MATERIALS LEGEND:

	BRICK		STONE
	BATT INSULATION		CRUSHED STONE
	CONTINUOUS WOOD FRAMING THROUGH MEMBER.		CONCRETE MASONRY UNITS
	CONCRETE		NEW PARTITION
	METALS		WOOD FRAMING - INTERRUPTED MEMBER
	PARTICLE BOARD		FINISHED WOOD
	RIGID INSULATION		
	COMPACTED GRAVEL		
	EARTH/UNDISTURBED SOIL		

## GRAPHIC LEGEND:

	INTERIOR WALL ELEVATION NUMBERS		REMOVE EXISTING CONSTRUCTION
	SECTION REFERENCE		EXISTING CONSTRUCTION
	DETAIL REFERENCE		REVISION MARK
	ROOM NUMBER		COLUMN GRID LINES
	CEILING HEIGHT		BUILDING SECTION
	PARTITION TYPE		INDICATES HIDDEN LINE - ABOVE, BELOW, BEHIND OR ITEMS TO BE REMOVED
	EXTERIOR ELEVATIONS		EXISTING DOOR ASSEMBLY
	CENTERLINE OR N.I.C.		EXISTING DOOR TO BE REMOVED
	WINDOW TYPE		DOOR TO BE INSTALLED - INDICATES DOOR NUMBER (SEE SCHEDULE)
	HOLLOW METAL TYPE		FURNITURE

NOTE: ROOM NUMBERS DESIGNATED DO NOT CORRESPOND TO EXISTING SCHOOL SIGNAGE & ARE FOR CONSTRUCTION PURPOSE ONLY

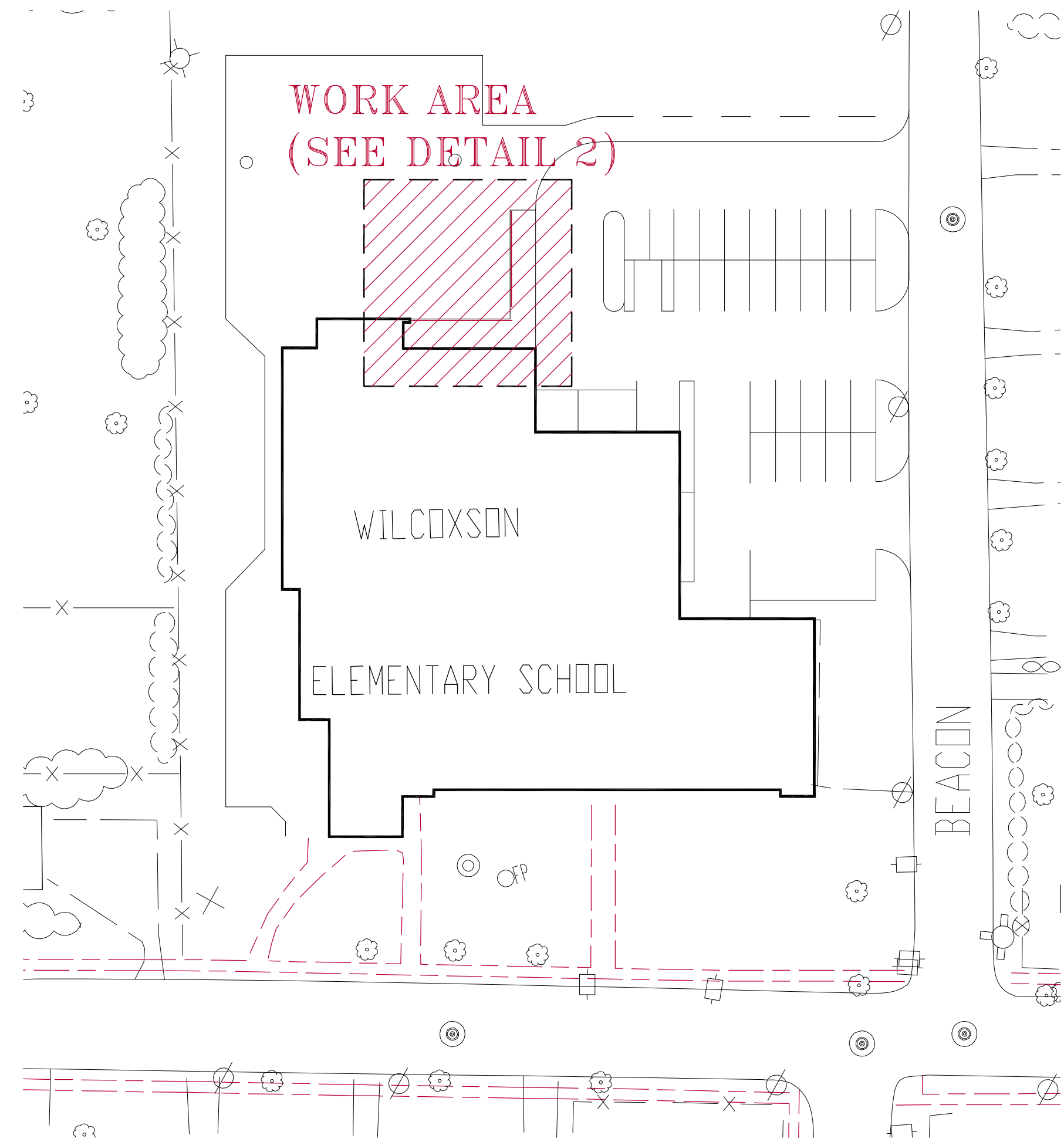
Issued 2/28/2011

Scale AS INDICATED

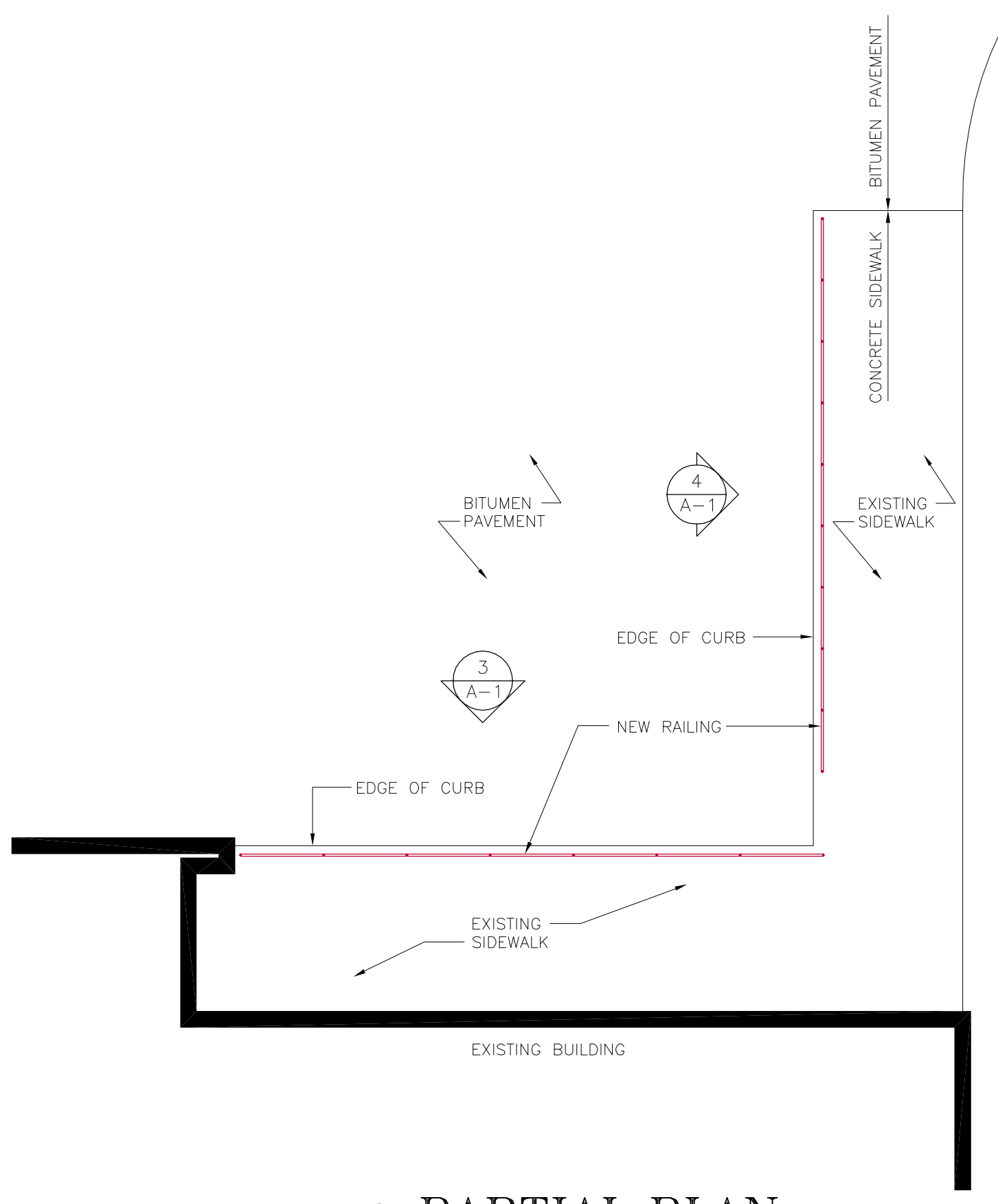
Job No. 6400.1021

Drawing No.

T-1



1 KEY PLAN



2 PARTIAL PLAN

GENERAL NOTES

- GENERAL:
- All details shall be considered typical and shall apply at all same and similar conditions.
  - The Contractor shall field measure and verify all dimensions of the existing building and all dimensions related thereto.
  - All work shall be in accordance with Connecticut State Building Code (CSBC) which includes the 2003 International Building Code, the 2005 Connecticut Supplement.
  - The Contractor shall be solely responsible for construction site safety.
  - Contractor shall provide ADD ALTERNATE price to provide stainless steel railings in lieu of hot dipped galvanized.

PIPE AND TUBE RAILINGS

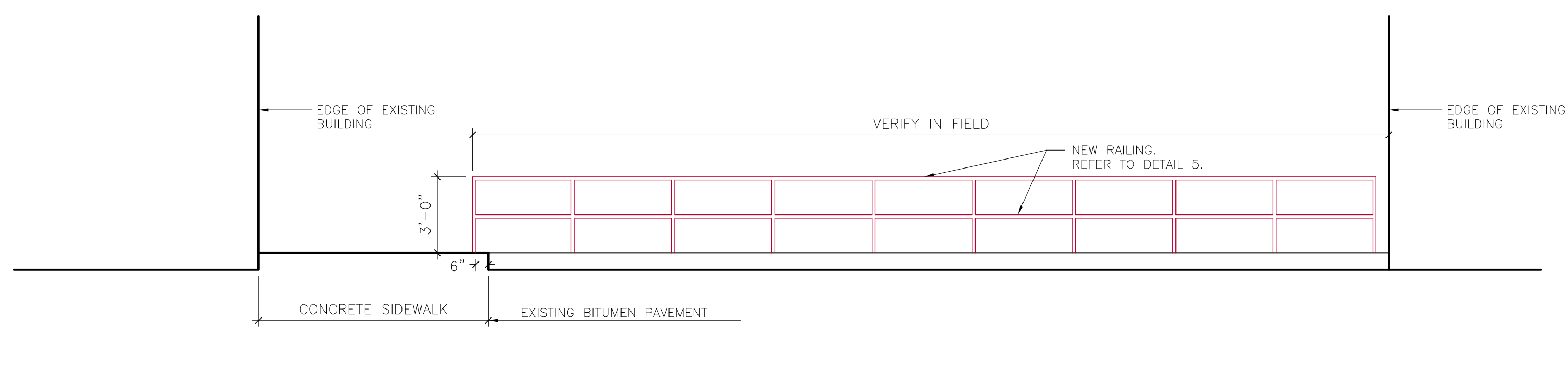
- SUMMARY
  - BASEBID: Hot-dipped galvanized steel railings: Galvanized after fabrication
  - ADD ALTERNATE: Stainless-steel pipe and tube railings, Type 304 316L.
- PERFORMANCE REQUIREMENTS
  - A. Engineering design of railings by Contractor.

Structural Performance: Railings shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

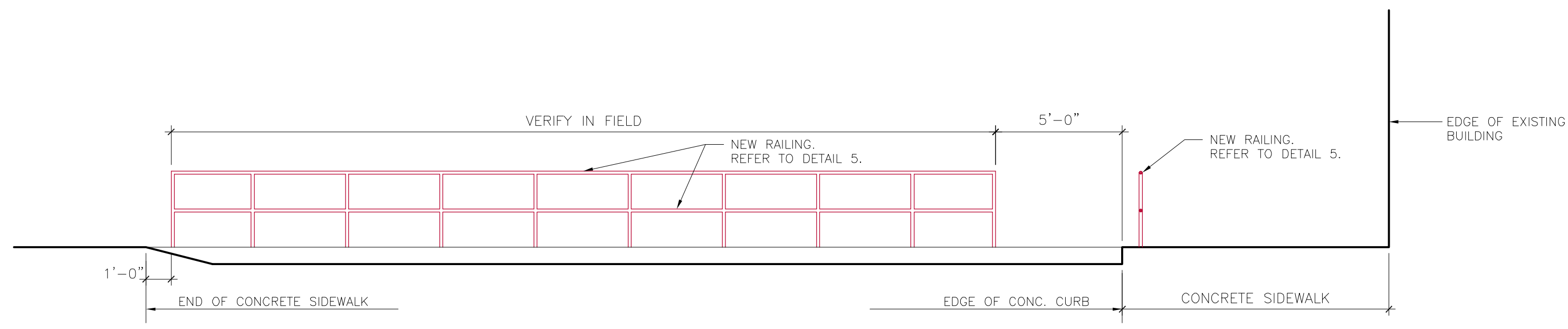
  - Handrails and Top Rails of Guards:
    - Uniform load of 50 lbf/ft. applied in any direction.
    - Concentrated load of 200 lbf applied in any direction.

Pipe: ASTM A 53/A 53M, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.
- FABRICATION
  - A. Changes in Direction of Members: By bending.
  - B. Connections: Welded smooth and level with adjacent surface to provide finished appearance.
- FINISHES
  - A. BASEBID: Hot-dipped galvanized steel: Galvanized after fabrication.
  - B. ADD ALTERNATE: Stainless Steel: Dull satin, No. 6.

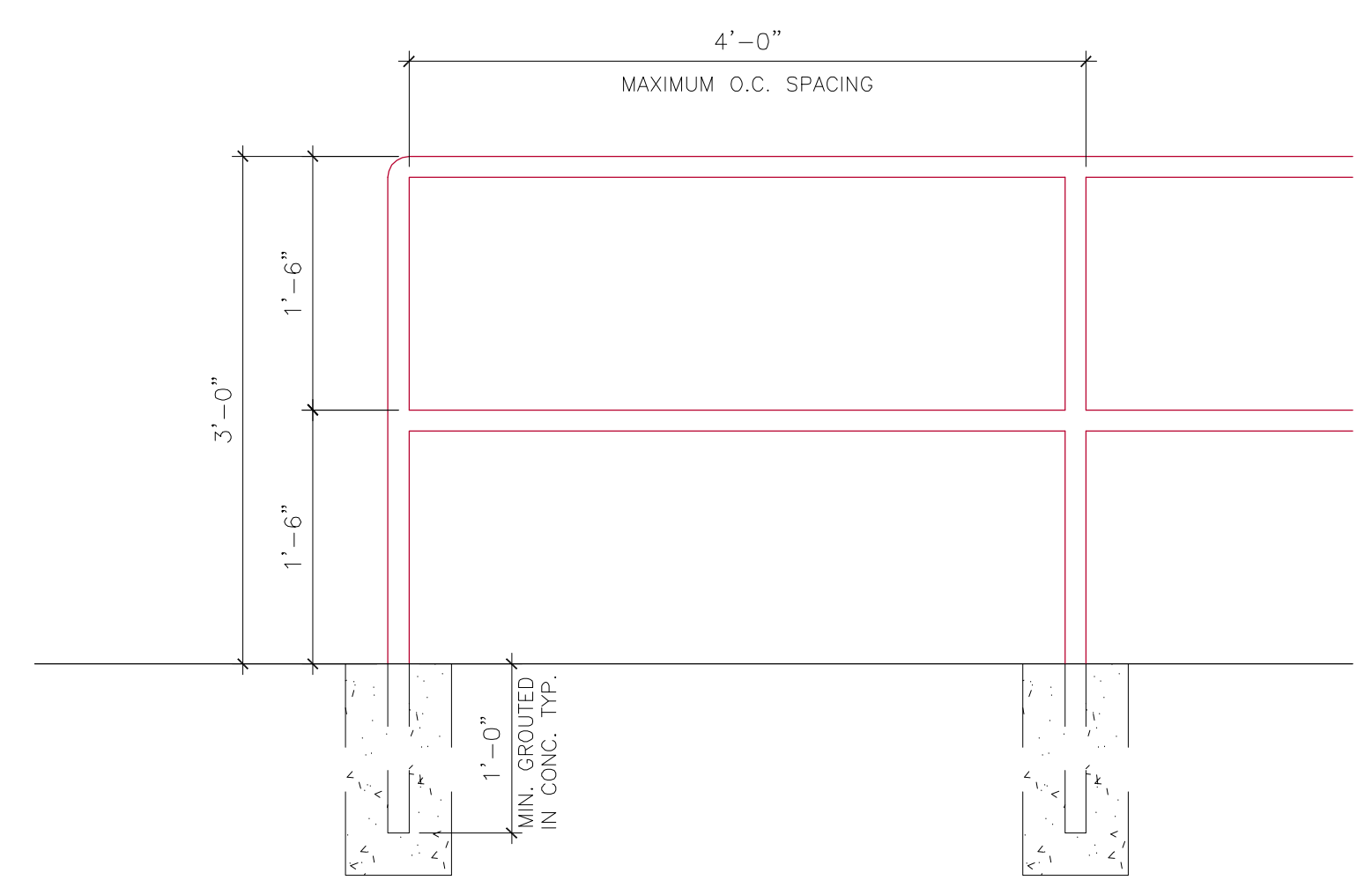
BASEBID / ALTERNATES:  
 BASEBID: All railings shall be 1 1/2" diameter hot-dipped galvanized steel.  
 ADD ALTERNATE: All railings shall be 1 1/2" diameter stainless steel, Type 304-316L, dull satin, No. 6 finish.



3 ELEVATION



4 ELEVATION



- NOTES
- ALL RAILS SHALL BE 1 1/2" DIA. HOT DIPPED GALV. TUBE RAILING.
  - CONTRACTOR SHALL PROVIDE ADD ALTERNATE PRICING TO PROVIDE 1 1/2" DIA. STAINLESS STEEL RAILS IN LIEU OF HOT DIPPED GALV.

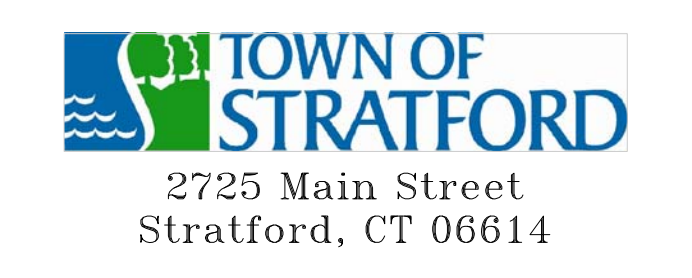
5 TYPICAL RAILING DETAIL

Revisions

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2/28/2011	ISSUED FOR BID

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 Architecture Planning Interiors  
 71 Old Post Road, Southport, CT 06890  
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Project



New Railings at:  
**Wilcoxson Elementary School**  
 600 Wilcoxson Avenue  
 Stratford, CT 06614

Drawing Title

PLANS, ELEVATIONS, AND DETAILS

Issued	2/28/2011	Drawing No.	A-1
Scale	AS INDICATED	Job No.	
		6400.1021	