

INVITATION TO BID

Date: October 9, 2015

<u>To: Invited and interested Roofing Contractors</u>

INVITATION TO BID

You are invited to submit a stipulated sum proposal for the furnishing of all permitting, taxes, documentation, materials, equipment, services, labor and supervision necessary for and/or reasonably incidental to the Proposed Roof Replacement Project & Skylight Replacement, Seabrook, NH

A. PREBID MEETING

- 1.) A prebid meeting will be held at the project location on Friday October 16, 2015 at 11 AM. Bidders will meet at the front entrance to the Waste Water Treatment Plant.
- 2.) **Please confirm your attendance by email to Marc.lehoullier@tridentgrp.com.**
- 3.) Questions, attendance or additional information should be directed to the attention of Marc Lehoullier of Trident Building & Properties Group at (603) 898-6110 ext16, or by email Marc.lehoullier@tridentgrp.com.
- 4.) Questions/RFI's shall be taken up to 4 days after the pre-bid meeting.

B. DISCREPANCIES

- 1.) Should a Bidder find discrepancies or ambiguities in, or omissions from, the drawings or specifications, or should he be in doubt as to their meaning, he shall at once notify The HL Turner Group here after referred to as the consultant, who will send a written bulletin to all Bidders.
- 2.) Bidders are responsible for all dimensions, building areas, and verifying existing conditions.

C. FORMS

- 1.) All proposals must be submitted on prepared forms prepared and shall be subject to all requirements of the drawings, the specifications, and any other documents issued in connection with the above including this Invitation to Submit a Proposal.

- 2.) Voluntary alternates are not allowed unless prior approval from Trident & HL Turner.
- 3.) Attention is directed to the fact that the specifications include a set of bidding and contract forms. These are for bidding purposes on this project.
- 4.) A hard copy must be mailed.
- 5.) All blank spaces on forms must be filled in.
- 6.) The signature must be in longhand and executed by a principal duly authorized to make contracts. The Bidder's legal name must be fully stated.

D. **SUBMISSION OF PROPOSALS**

Sealed proposals will be received by the Owner no later than noon October 26, 2015:

Ms. Sahylia Marquis, Procurement Manager
Town of Seabrook
99 Lafayette Road
Seabrook, NH 03874

Not later than: as noted at prebid, or otherwise stated in addendum.

- 1.) The Owner reserves the right to reject any/all proposals without explanation, to waive all formality in connection with bid opening, and to waive any informality in the proposals.
- 2.) The opening of the bid proposals will be public. Determination will be based upon all pertinent data contained in the proposals.
- 3.) Proposals submitted by the Contractor, as a result of this invitation to submit a Proposal, shall not obligate the Owner in any way.

E. **THE BID**

The bid shall be for the completed job as specified herein.

F. **VALIDITY**

All bids submitted shall remain valid for a period of not less than 45 calendar days from the Not Later Than date indicated above.

I. PROJECT: **Roof Renovation Projects**
Seabrook Town Hall
Seabrook Rec Center
Seabrook WWTP

II. PROJECT DESCRIPTION:

A. Base Bid:

1. The project includes removal of the existing roof components including, roof membrane, insulation, flashings and miscellaneous roof components on the Town Hall roof and the WWTP roof. Examination of decking, and repairs, as specified. Installation of roof board and an adhered EPDM roof system, as specified. Replacement of existing drains and creation of sumps. At the Recreation Center the work includes the removal & replacement of skylight system, including all incidental and associated curbs, flashings and remedial work required for its proper installation and performance.

III. WORK SCHEDULE:

A. The project is to proceed at an agreed to date with Owner. The project is to be done on a continual day-to-day basis except in the case of inclement weather. The project must be completed as soon as possible. All work is to commence after an approved date from the Owner. Work must be done Monday through Friday during normal work hours.

IV. BID DUE DATE:

V.

A. All bids are due by noon on October 26, 2015

B. Bids must be delivered to the designated person in a timely manner to meet the bid deadline.

VI. BASE BID:

A. The Base Bid is the sum stated in the bid for which the bidder offers to perform the Work described in the Bidding Documents as the base, to which Work may be added or from which Work may be deleted for the sums stated in the Alternate Bids.

VII. ALTERNATE BID:

A. None.

VIII. UNIT PRICE BID:

A. As listed on bid form.

IX. CONTRACTORS:

- A. Each Bidder shall include in his bid an outline of the Work to be performed by the Bidder with his own personnel. Any subcontractor work shall be identified within the Bid Proposal, and is subject to Owner approval.
- B. Each bidder must provide with the Bid Form three project references with a minimum five-year history.

X. CLARIFICATIONS

- A. All bidders must conduct their own roof measurements as the roof plan included with the specifications is for reference only.
- B. All requests for clarification or interpretation of the Bidding Documents shall be made to The HL Turner Group with a copy to Marc Lehoullier, Owner's Project Manager to Mlehoullier@tridentgrp.com.

XI. SUBSTITUTIONS AND VOLUNTARY ALTERNATES

- A. The materials, products, and equipment described in the bidding documents establish the standard of required function, dimension, appearance, and quality to be met.
- B. No substitution will be considered prior to receipt of bids unless a written request for approval has been received by the aforementioned people at least three days prior to the date for receipt of bids. The Owners' decision regarding a proposed substitution shall be final.
- C. If a substitution is approved prior to bidding, such approval will be set forth in an Addendum. Bidders shall not rely on approvals made in any other manner.
- D. Voluntary alternates will not be accepted unless prior approval is given by the Owner or the Owner's representative. These may be rejected for any reason.

XII. PREVAILING WAGE

- A. None.

XIII. BID FORM:

- A. Your bid must be prepared on the Bid Form included with the Bidding Documents; additional copies may be obtained from Owner.
- B. All blanks on the Bid Form must be completed in ink or type.
- C. Bids by corporations must be executed in the corporate name by the President or Vice President.

- D. Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.
- E. All names must be typed or printed below the signature.
- F. The bid shall contain an acknowledgement of receipt of all Addenda (the numbers must be filled in on the Bid Form).
- G. The physical and e-mail address and telephone number for communications regarding your bid must be shown.

XIV. OPENING OF BID:

- A. All Bids received prior to the date and time designated for the Bid opening will be opened publically by the Awarding Authority.

XV. BID TO REMAIN SUBJECT TO ACCEPTANCE:

- A. All bids will remain subject to acceptance for 45 days after the Bid due date.

XVI. AWARD OF CONTRACT:

- A. The Owner reserves the right to reject any or all Bids, if it determines that is in its interest to do so.
- B. Award means the determination and selection of the lowest, responsible and eligible Bidder, by the Awarding Authority.
- C. The Awarding Authority will award the contract to the lowest responsible and eligible Bidder within thirty (30) days, Saturdays, Sundays, and legal holidays excluded after the opening of bids.
- D. The Awarding Authority reserves the right to waive any informalities in or to reject any or all bids if it be in the public interest to do so.
- E. The Awarding Authority also reserves the right to reject any bid if it determines that such bid does not represent the bid of a person competent to perform the work as specified or if less than three (3) available bids are received.
- F. The term "lowest responsible and eligible bidder" shall mean the Bidder (1) whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary for the faithful performance of the work; (2) who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (3) who obtains within ten days of the notification of contract award the security by bond, if required.

XVII. CONTRACT SECURITY:

- A. When the Successful Bidder delivers the executed Agreement to owner, it must be accompanied by the required Performance and Payment Bonds. This requirement may be waived by Owner.

II. INSURANCE:

- A. When the Successful Bidder delivers the executed Agreement to the Owner, it must be accompanied by the required insurance certificates.

III. SIGNING OF AGREEMENT:

- A. When Owner gives a Notice of Award to the Successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Agreement with all other written Contract Documents attached. Within five days thereafter Contractor shall sign and deliver the required number of counterparts of the Agreement and attached documents to Owner with required Bonds and insurance certificates. Owner shall deliver one fully signed counterpart to the Contractor.

IV. UNIT/ALTERNATE PRICES:

- A. Prices By Corresponding Unit Are to Be Included As Separate Line Items

V. SEALED BIDS marked "SEABROOK ROOF PROJECTS" shall be sent to:

Ms. Sahylia Marquis, Procurement Manager

Town of Seabrook

99 Lafayette Road

Seabrook, NH 03874

VI. ADDITIONAL INFORMATION:

- A. If you should need any additional information or have any questions regarding the project or specifications, all questions should be submitted in writing to the attention of Marc Lehoullier by email to Marc.lehoullier@tridentgrp.com

BID FORM

TOWN OF SEABROOK RECREATION BUILDING
SKYLIGHT REPLACEMENT PROJECT
SEABROOK, NEW HAMPSHIRE

TO: Town of Seabrook
99 Lafayette Road
Seabrook, NH 03874

Date: _____

SUBJECT: Recreation Building Skylight Replacement Project
311 Lafayette Road
Seabrook, New Hampshire

Proposal submitted by **(Bidder Name and Address Below)**:

The undersigned proposes to furnish all labor, material, tools and equipment in complete accordance with the provisions of the Contract Documents dated October 7, 2015 including all supplemental information provided and distributed by The H.L. Turner Group Inc.

The Bidder acknowledges receipt of and includes the requirements of the following Addenda:

<u>Number</u>	<u>Date</u>
_____	_____
_____	_____

In submitting this Bid, the undersigned agrees:

1. The Bidder shall not have defaulted on, or failed to execute, enter into, or perform a contract for services with the Town of Seabrook, New Hampshire during the past five (5) years.
2. The Bid shall remain in full force and will not be withdrawn for a period of thirty (30) calendar days after the actual date of Bid opening thereof.
3. To enter into and execute a contract, if awarded on the basis of this Bid.
4. To provide a Payment and Performance Bond for the contract amount.
5. To successfully accomplish the work in accordance with the Contract Documents.

6. Work to be substantially completed by June 15, 2016 and finally complete by June 30, 2016.
7. To provide the Insurances required, as defined in the Summary of Work.
8. To **not unbalance** the Bid prices, as the Town of Seabrook reserves the right to delete items in the Bid at any time.
9. The Bid prices submitted on this project shall include all material, labor, taxes, fees, permits, disposal, and all freight charges, for a total cost to the Town of Seabrook.
10. Bidder is to include with his Bid a short summary of their approach to the work, as well as any variations from the specification in a letter attached to the Bid.
11. The Town of Seabrook, New Hampshire reserves the right to accept any and all Bids and to waive any informalities.

Recreation Building Skylight Replacement Project:

<u>Item</u>	<u>Description</u>	<u>Bid Price</u>
1.	General Conditions	(L.S.) \$ _____
	Bond	(L.S.) \$ _____
2.	Mobilization	(L.S.) \$ _____
3.	Demolition and Disposal	(L.S.) \$ _____
4.	Installation of New Skylight Units Including All Materials and Labor	(L.S.) \$ _____
5.	Demobilization & Clean-Up	(L.S.) \$ _____
TOTAL BASE BID		(L.S.) \$ _____

The undersigned agrees to complete the work for the Total Lump Sum Price of:
(Base Bid includes all work shown in the project documents.)

\$ _____

In words: _____

Show above amount in both words and numerals. In the event of error, amount in words shall govern.

Unit Prices (if needed):

It is anticipated that the existing wood curbs and blocking, etc. to which the new skylight units are to be installed are in good condition and suitable for application of the new units. In the event that specific portions or sections of the wood blocking and curbing is deteriorated and must be replaced, the Contractor shall provide a unit price for replacement of these elements with pieces to match in kind as close as possible. The Contractor shall provide a unit price for blocking and curbing replacement based on a total quantity of 200 linear feet. As a minimum, the replacement substrate shall be select spruce dimension lumber in the sizes shown on the plans.

Unit Price for Substrate Replacement: \$ /linear foot

During the removal of the existing skylight units and preparation for mounting the new units, the shingles around the openings may get damaged and may require replacement in kind. The Contractor shall provide a unit price for shingle replacement based on a total quantity of 100 square feet.

Unit Price for Shingle Replacement: \$ /square foot

Markup for bond on change orders: %

Note: The following Items are Required as Part of the “Bid Form” Submission:

1. Bidder accepts the Town of Seabrook’s general terms and conditions as outlined in the forms contained in the Project Manual.
 - a. Circle One (1) of these: **Yes** **No**If **No** is circled, mark-up of acceptable terms must be provided with Bid.
2. Provide written short summary of the approach to the work and schedule as part of the Bid Form Submission and include the written short summary with the “Bid Form”.
3. Complete the information below:

Bidder: _____

Business Address: _____

Authorized Signature: _____

Name (Print Clearly): _____

Title: _____

**PROJECT MANUAL
TECHNICAL SPECIFICATIONS**

**TOWN OF SEABROOK
RECREATION BUILDING
SKYLIGHT REPLACEMENT PROJECT**

**311 LAFAYETTE ROAD
SEABROOK, NEW HAMPSHIRE**

TTG PROJECT NO. 4306-03

OCTOBER 7, 2015

The H.L. Turner Group Inc.

ARCHITECTS ■ ENGINEERS ■ BUILDING SCIENTISTS

TOWN OF SEABROOK RECREATION BUILDING
SKYLIGHT REPLACEMENT PROJECT
TECHNICAL SPECIFICATIONS

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SECTION 01010

SUMMARY OF WORK

PART 1 GENERAL

1.1 PROJECT IDENTIFICATION

- A. The name of the project is "Recreation Building Skylight Replacement Project".
- B. The project is located at 311 Lafayette Road, Seabrook, New Hampshire.
- C. The contract documents for this project, prepared by The H.L. Turner Group Inc., 27 Locke Road, Concord, New Hampshire, are dated **October 7, 2015.**
- D. The Owner of the project is the Town of Seabrook, 99 Lafayette Road, Seabrook, New Hampshire 03874; Telephone: 603-474-3252, Fax: 603-474-8007.
- E. The Architect/Engineer for this project is The H.L. Turner Group Inc., 27 Locke Road, Concord, New Hampshire 03301; Telephone: 603-228-1122, Fax: 603-228-1126.

1.2 DESCRIPTION OF WORK

- A. This project consists of, but is not limited to:
 - 1. Construction activities for the Building Improvements to the Town of Seabrook Recreation Building at 311 Lafayette Road, Seabrook, New Hampshire as enumerated in the contract documents and the Project Manual.
 - a. Provide all required permits and approvals.
 - b. Replacement of the existing translucent skylight units on the shed roofs on the south and east sides of the building.
 - c. Replacement of designated curb and counter flashings.
 - d. Application of caulking and sealants as required.
 - e. Covering all landscaping, lawns, etc. around entire perimeter of the building during construction.
 - f. Final clean-up and restoration of damaged items (if any).
 - g. Replacement of all deteriorated or rotted substrates or underlayment, if necessary.

- h. Covering all landscaping, lawns, etc. around entire perimeter of the building during construction.
 - i. Final clean-up and restoration of damaged items (if any).
 - B. Since the Recreation Building will be occupied during the implementation of the project.
 - 1. Dust and noise control as well as keeping all building contents dry will be a major requirement for this project. It is explicitly understood that this requirement will be the sole responsibility of the Contractor.
 - 2. The use of foul language, smoking anywhere on the project site, operation of loud radios, consumption of alcohol or illegal drugs, etc., is strictly prohibited and will be cause for immediate removal of those responsible from the project.
 - C. The Contractor is responsible for all aspects of work on this project. All damages to any portions of the existing buildings and to the existing properties are to be repaired at no cost to the Town of Seabrook and to the satisfaction of the Town of Seabrook and the Architect/Engineer.
 - D. The Contractor is to be responsible for:
 - 1. Proper disposal of all materials and debris.
 - 2. The maintenance and protection of personnel and vehicular traffic at all times during the implementation of this work.
 - E. Refer to project drawings as well as these project specifications for additional descriptions of work to be performed.

1.3 COORDINATION OF WORK EFFORTS

- A. The Contractor shall coordinate its work efforts with the Town of Seabrook during all phases of work.

1.4 CONSTRUCTION SAFETY/HEALTH

- A. The Contractor, in all cases, shall be responsible for the safety of all persons involved on this project, and shall comply with OSHA, EPA, and all other applicable local, state, and federal agencies, laws and requirements.

1.5 POTABLE WATER

- A. The Contractor shall provide all potable water necessary to accomplish the work on this project.

1.6 PERMITTING

- A. The Contractor shall be responsible for obtaining all permits necessary to accomplish the work on this project.

1.7 SANITARY FACILITIES

- A. Portable sanitary facilities shall be provided by the Contractor in numbers adequate for the work force on-site, all according to OSHA Standard 29 CFR, in a location approved by the Owner.

1.8 FIRE PROTECTION

- A. The Contractor shall provide fire extinguishers on-site in adequate numbers for protection of materials and equipment. The Contractor shall take all precautions necessary for the protection of all existing materials, furnishings, etc. as necessary during the implementation of the work.

1.9 INSTALLATION

- A. All work shall conform to the contract documents, and applicable local, state, and federal requirements. Unless specified herein, contract work shall conform to manufacturer's recommendations.

1.10 ELECTRICAL USE

- A. The Contractor shall be responsible for providing electrical power if necessary to accomplish the work. Electrical power to be acquired from the Owner as may be available. The Owner will determine locations where power is available. If required, the Contractor is responsible for providing and installing all panels, subpanels, breakers, etc., all in accordance with governing codes and regulations. Coordinate location(s) with the Owner.

1.11 TESTING

- A. Except as herein provided, all testing shall be paid for by the Contractor. All special testing called for by the Owner's Representative to confirm quality of installation which results in confirmation of work not meeting the specifications of the contract shall be paid for by the Contractor.

1.12 RESTORATION

- A. All structures, facilities, finishes, utilities, etc., or landscaped or paved areas damaged during the duration of the work shall be restored by the Contractor to a condition acceptable to the Owner prior to final payment.

1.13 PROTECTION

- A. Contractor to be responsible for the protection of all existing roadway components, utilities, fencing, concrete pads, building finishes, building components, hydrants, trees, shrubs, grassed areas, etc., during all phases of the work.

1.14 BOND

- A. The Contractor shall provide a Payment and Performance Bond for this project.

1.15 INSURANCES

- A. The Contractor shall, at its sole expense, obtain and maintain in force, and shall require any subconsultant or assignee to obtain and maintain in force, for the benefit of the Town of Seabrook, the following insurance:

Minimum insurance requirements will be as follows:

1. Comprehensive General Commercial Liability per occurrence:
 - a. General Aggregate: \$2,000,000.
 - b. Products - Comp/OP Agg: \$2,000,000.
 - c. Personal & Adv. Injury: \$2,000,000.
 - d. Each Occurrence: \$2,000,000.
 - e. Fire: \$2,000,000.
 - f. Medical Expense: \$2,000,000.
2. Automobile Liability:
 - a. Combined Single Limit: \$1,000,000.
3. Worker's Compensation and Employer's Legal Liability:
 - a. New Hampshire Statutory.
 - b. Each Accident - \$ 1,000,000.
 - c. Disease Policy - Limit \$1,000,000.
 - d. Disease Each Employee - \$1,000,000.

- B. The policies described above shall be the standard form employed in the State of New Hampshire, issued by underwriters acceptable to the State, and authorized to do business in the State of New Hampshire.
- C. With the exception of workers compensation coverage, a statement that a waiver of subrogation is included with respect to applicable coverages.
- D. Each such policy or certificate therefor issued by the insurer shall contain an agreement by the insurer that such policy shall not be cancelled without at least sixty days prior to written notice by registered mail to the Owner.
- E. The Contractor shall either (a) require each of its subcontractors to procure and to maintain during the life of his subcontract the type and amounts of insurance specified above or (b) insure the activities of its subcontractor in the Contractor's policy.
- F. A Certificate of Insurance indicating above coverages must be submitted prior to commencement of work. The Certificate Holder is to be: Town of Seabrook, 99 LaFayette Road, Seabrook, New Hampshire.

1.16 TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- A. The work to be performed under the General Contract shall be finally complete on or before **June 30, 2016.**
- B. It is expressly understood and agreed, by the Contractor and the Owner, that the time for completion of the work stated is reasonable for the completion of this project.
- C. The Owner reserves the right to implement Liquidated Damages in the amount of **\$500 per calendar day** for the work on this project not substantially completed within the agreed upon limits.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

- 3.1 During the performance of this work, the Contractor shall inspect all substrates and underlayments to which the new products will be attached. It is anticipated that all such substrates and underlayments are in good condition and that no repairs or remedial work will be necessary. If the Contractor determines that the substrates and/or underlayments are unsuitable for the proper performance of the work he shall notify the Architect immediately.

END OF SECTION

SECTION 01340

SUBMITTALS

PART 1 GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Each Trade Contractor shall prepare and submit Shop Drawings, Product Data and Samples required by contract documents, and revise and resubmit as necessary to establish compliance with the specified requirements.

PART 2 PRODUCTS

2.1 PRODUCT SUBMISSION

- A. Products shall be submitted from the items listed in the specifications and drawings.
- B. Other suppliers or manufacturers may qualify as equals only when the Architect agrees to waive the specifications based upon the suppliers or the manufacturers' ability to prove that their product is equal for the purpose of a particular product.
- C. The Owner must approve all substitutions to insure the ability to obtain service and stock replacement parts.
- D. When three or more products are specified, no substitutions therefore will be considered.
- E. Otherwise, the Owner and Architect will consider a formal request for the substitution of a product specified, only under the following conditions:
 - 1. Requests for substitutions when forwarded by the Trade Contractor to the Architect are understood to mean that the Trade Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified. The burden of proof of equality or superiority of any proposed substitution is totally the responsibility of the Trade Contractor.
 - a. The Trade Contractor will provide the same warranty for the substitution that would have been provided for that specified.
 - b. Certifies that the cost data presented is complete and includes all related costs under the Trade Contract, and that the Trade Contractor waives all claims for additional costs related to the substitution which subsequently becomes apparent.

- c. The Trade Contractor will coordinate the installation of the accepted substitute, making such changes as may be required for the work to be complete in all respects for all trades.

F. The decision of the Architect relative to substitutions shall be final.

2.2 SUBMISSION REQUIREMENTS

A. Submittals shall be accompanied with a multi-copy Contractor Transmittal Form containing the following information:

1. Submittal date.
2. Project title and number.
3. Trade Contractor's name and address.
4. Number of each drawing and a description of material submitted.
5. Notification of deviations from contract documents.

B. Submittals shall include:

1. Respective project drawing numbers.
2. Relation to adjacent structure or materials.
3. Field dimensions, clearly identified as such.
4. Applicable specification section numbers.
5. Applicable standards, such as ASTM or federal specification number.
6. Identification of known deviations from the project drawings and specification sections.
7. Manufacturers' installation instructions.
8. Trade Contractor's stamp, initialed or signed, certifying:
 - a. Verification of field measurements.
 - b. Review of submittals for compliance with all contract requirements except those specifically indicated.
 - c. Compatibility of the work shown thereon with that of all affected trades.

- C. Changes in those products for which shop drawings have been accepted will not be permitted unless those changes have been accepted in writing by the Architect.
- D. Shop Drawings:
 - 1. Shop drawings may be submitted in electronic or paper format.
- E. Product Data:
 - 1. Edit product data to identify pertinent products or models and submit a minimum of five (5) bound brochures of related equipment.
 - 2. The five (5) copies shall be returned as follows: one (1) for the Architect, three (3) for the General Contractor, and one (1) for the Owner.
 - 3. Surplus copies will be forwarded to the Trade Contractor for distribution.
- F. Submission of Samples:
 - 1. Samples will be provided to the General Contractor for the Architect's review and approval, and stored on-site through the construction of work.
 - 2. All samples shall be delivered to the General Contractor with sample identification tag attached and properly filled in.
 - 3. Three (3) specimens of each sample requested shall be submitted, unless otherwise specified in the individual sections of the specifications.
- G. Supplementary Drawings:
 - 1. As work progresses, in addition to the shop drawings required, drawings shall be prepared by the Trade Contractor at a suitable scale not less than $1/4" = 1'-0"$ for changes in the work, where an approved substitution for equipment requires such changes.

2.3 RESUBMISSION REQUIREMENTS

- A. Resubmittals shall be submitted in a time which will avoid delaying the project. Changes which are made, other than those suggested by the Architect, shall be indicated. If the General Contractor considers any alteration to shop drawings suggested by the Architect to constitute a change to the contract documents, the Trade Contractor shall submit to the General Contractor notice as required in the General Conditions.

PART 3 EXECUTION

3.1 COORDINATION OF SUBMITTALS

A. General:

Prior to submittal for approval, use all means necessary to fully coordinate all material including, but not necessarily limited to:

1. Determine and verify all interface conditions, catalog numbers and similar data.
2. Coordinate with other trades as required.
3. Clearly indicate all deviations from the requirements of the contract documents.

B. Grouping of Submittals:

1. Unless otherwise specified, make all submittals in groups containing all associated items to ensure that information is available for checking each item when it is received. Partial submittals may be rejected as not complying with the provisions of the contract documents, and the Contractor shall be strictly liable for all delays so occasioned.

3.2 TIMING OF SUBMITTALS

A. General:

1. Make all submittals far enough in advance of scheduled dates for installation to provide all time required for reviews, for securing necessary approvals, for possible revisions and resubmittals, and for placing orders and securing delivery.

B. Architect Review Time:

1. In scheduling, allow at least 14 calendar days for review by the Architect following the receipt of the submittal, except in the case of structural submittals.

C. Structural submittals review will begin within seven (7) days of receipt, and continue until completion in recognition of the Trade Contractors' need to submit a complete coordinated set of documents.

D. The Architect reserves the right to review submissions in a proper sequence reflecting the logical sequence and relative priority of the construction components, so as to insure the preparation of a properly coordinated set of drawings. The Architect further reserves the right to keep related samples that have been submitted.

E. Delays:

1. Delays caused by tardiness in receipt of submittals will not be an acceptable basis for extension of the contract completion date.

3.3 ARCHITECT'S REVIEW ACTION

A. The Architect will take one of the following actions on each submission.

"Action 1 - No Exceptions Taken"; this action means the fabrication, manufacture or construction may proceed providing submittal complies with contract documents.

"Action 2 - Make Corrections Noted. Resubmission for Record Only"; this action means that fabrication, manufacture or construction may proceed provided submittal complies with the Architect notations and the contract documents. If for any reason the Contractor cannot comply with the notations, Contractor shall resubmit as described for submittals stamped 3.

"Action 3 - Revise and Resubmit"; this action means that submittal does not comply with the contract documents, and that fabrication, manufacture or construction shall not proceed.

"Action 4 - Rejected"; this action means that the submittal is not in conformance with the contract documents or is incomplete or inadequate.

3.4 DISTRIBUTION OF SUBMITTALS AFTER REVIEW

- A. After review by the Architect, shop drawings and product data bearing the Architect's stamp and signature will be distributed to the General Contractor.
- B. General Contractor shall distribute to concerned Trade Contractors, suppliers, vendors and to the Owner.

END OF SECTION

SECTION 01620

STORAGE AND PROTECTION

PART 1 GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Provide secure storage and protection for products to be incorporated into the work, and maintenance and protection for products after installation and until completion of the work.

1.2 STORAGE

- A. Store products immediately on delivery, and protect until installed in the work.
 - 1. Store in accordance with manufacturer's instructions, with seals and labels intact and legible.
- B. Store products subject to damage by elements in substantial weathertight enclosures.
 - 1. Maintain temperatures within ranges required by manufacturer's instructions.
 - 2. Provide humidity control for sensitive products as required by manufacturer's instructions.
 - 3. Store unpacked products on shelves, in bins or in neat piles, accessible for inspection.
- C. Exterior Storage:
 - 1. Provide platforms, blocking or skids to support fabricated products above ground; prevent soiling or staining.
 - a. Cover products, subject to discoloration or deterioration from exposure to the elements, with impervious sheet coverings. Provide adequate ventilation to avoid condensation.
- D. Arrange storage in manner to provide easy access for inspection.
- E. Off-site storage of materials designated for use on this project will be allowed provided that the following are provided:
 - 1. Certificate of Insurance indicating specific materials.
 - 2. Affidavit of Certificate of Title to specific materials and right of free access.

3. Request for Payment must be accompanied with above.

1.3 MAINTENANCE OF STORAGE

- A. Maintain periodic system of inspection of stored products on scheduled basis to assure that:
 1. State of storage facilities is adequate to provide required conditions.
 2. Required environmental conditions are maintained on continuing basis.
 3. Surfaces of products exposed to elements are not adversely affected.
 - a. Any weathering of products, coatings and finishes is acceptable under requirements of contract documents.
- B. Mechanical and electrical equipment which requires servicing during long-term storage shall have complete manufacturer's instructions for servicing accompanying each item, with notice of enclosed instructions shown on exterior of package.
 1. Comply with manufacturer's instructions on scheduled basis.
 2. Space heaters which are part of electrical equipment shall be connected and operated continuously until equipment is placed in service.

1.4 PROTECTION AFTER INSTALLATION

- A. Provide protection of installed products to prevent damage from subsequent operations. Remove when no longer needed, prior to completion of work.
- B. Control traffic to prevent damage to equipment and surfaces.
- C. Provide coverings to protect finished surfaces from damage.
 1. Cover projections, wall corners and jambs, sills and soffits of openings, in areas used for traffic and for passage of products in subsequent work.
 2. Protect finished floors and stairs from dirt and damage:
 - a. In areas subject to foot traffic, secure heavy paper, sheet goods, or other materials in place.
 - b. For movement of heavy products, lay planking or similar materials in place.

- c. For storage of products, lay tight wood sheathing in place.
- d. Cover walls and floor of elevator cars and surfaces of elevator car doors used by construction personnel.

D. Waterproofed and Roofing Surfaces:

- 1. Prohibit use of surfaces for traffic of any kind, and for storage of any products.
- 2. When some activity must take place in order to carry out the contract, obtain recommendations of Installer for protection of surface.
 - a. Install recommended protection; remove on completion of that activity.
 - b. Restrict use of adjacent unprotected areas.

E. Lawns and Landscaping:

- 1. Protect traffic of any kind across planted lawn and landscaped areas.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01732

SELECTIVE DEMOLITION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Demolition and removal of selected portions of a building or structure.
 - 2. Repair procedures for selective demolition operations.
- B. Related Sections include the following:
 - 1. All project sections in these project specifications for use of the premises and phasing requirements.

1.3 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Salvage: Detach items from existing construction and deliver them to Owner ready for reuse.
- C. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.
- D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site.

1.5 SUBMITTALS

- A. Qualification Data: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of Architects and Owners, and other information specified.
- B. Proposed Dust-Control and Noise-Control Measures: Submit statement or drawing that indicates the measures proposed for use, proposed locations, and proposed time frame for their operation. Identify options if proposed measures are later determined to be inadequate.
- C. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
 - 2. Interruption of utility services.
 - 3. Coordination for shut-off, capping, and continuation of utility services.
 - 4. Use of stairs and roof hatches.
 - 5. Locations of temporary partitions and means of egress.
 - 6. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- D. Inventory: After selective demolition is complete, submit a list of items that have been removed and salvaged.
- E. Pre-demolition Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces that might be misconstrued as damage caused by selective demolition operations. Submit before Work begins.
- F. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

1.6 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: An experienced firm that has specialized in demolition work similar in material and extent to that indicated for this Project.

- B. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- C. Standards: Comply with ANSI A10.6 and NFPA 241.
- D. Pre-Demolition Conference: Conduct conference at Project site to comply with requirements in Division 1. Review methods and procedures related to selective demolition including, but not limited to, the following:
 - 1. Inspect and discuss condition of construction to be selectively demolished.
 - 2. Review structural load limitations of existing structure.
 - 3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.

1.7 PROJECT CONDITIONS

- A. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
 - 1. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from authorities having jurisdiction.
- B. Owner assumes no responsibility for condition of areas to be selectively demolished.
- C. The existing building materials may contain asbestos containing building materials. Contractor to be responsible for accomplishing all demolition and disposal efforts (and testing, if required) in accordance with all applicable local, state and federal laws and ordinances. The Contractor will be required to file a notification form with the EPA for any project that includes demolition (see sample form attached). This usually requires a 10-day notice before demolition can begin.
- D. Storage or sale of removed items or materials on-site will not be permitted.
- E. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

1. Maintain fire-protection facilities in service during selective demolition operations.

1.8 WARRANTY

- A. Existing Warranties: Remove, replace, patch, repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

1. If possible, retain original Installer or Fabricator to patch the exposed Work listed below that is damaged during selective demolition. If it is impossible to engage original Installer or Fabricator, engage another recognized, experienced and specialized firm.

PART 2 PRODUCTS

2.1 REPAIR MATERIALS

- A. Use repair materials identical to existing materials.
 1. If identical materials are unavailable or cannot be used for exposed surfaces, use materials that visually match existing adjacent surfaces to the fullest extent possible.
 2. Use materials whose installed performance equal or surpass that of existing materials.
- B. Comply with material and installation requirements specified in individual specification sections.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. Inventory and record the condition of items to be removed and reinstalled and items to be removed and salvaged.

3.2 UTILITY SERVICES

- A. Existing Utilities: Maintain services indicated to remain and protect them against damage during selective demolition operations.

- B. Do not interrupt existing utilities serving occupied or operating facilities unless authorized in writing by Owner and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, as acceptable to Owner and to authorities having jurisdiction.
 - 1. Provide at least 72 hours' notice to Owner if shutdown of service is required during changeover.
- C. Utility Requirements: Locate, identify, disconnect, and seal or cap-off indicated utilities serving areas to be selectively demolished.
 - 1. Owner will arrange to shut-off indicated utilities when requested by Contractor.
 - 2. Arrange to shut-off indicated utilities with utility companies.
 - 3. If utility services are required to be removed, relocated, or abandoned, before proceeding with selective demolition, provide temporary utilities that bypass area of selective demolition and that maintain continuity of service to other parts of building.
 - 4. Cut-off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit after bypassing.

3.3 PREPARATION

- A. Dangerous Materials: Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with selective demolition operations.
- B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 1. Do not close or obstruct streets, walks, walkways, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
 - 2. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.
 - 3. Protect existing site improvements, appurtenances, and landscaping to remain.

4. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
- C. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide protection to ensure safe passage of people around selective demolition area, and to and from occupied portions of building.
 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 3. Protect walls, ceilings, floors, and other existing finish work that are to remain, or that are exposed during, selective demolition operations.
 4. Cover and protect furniture, furnishings, and equipment that have not been removed.
- D. Temporary Enclosures: Provide temporary enclosures for protection of existing building and construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
1. Where heating or cooling is needed and permanent enclosure is not complete, provide insulated temporary enclosures. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions and effects.
- E. Temporary Partitions: Erect and maintain dustproof partitions and temporary enclosures to limit dust and dirt migration and to separate areas from fumes and noise.
- F. Temporary Shoring: Provide and maintain interior and exterior shoring, bracing, or structural support to preserve stability and prevent movement, settlement, or collapse of construction to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
1. Strengthen or add new supports when required during progress of selective demolition.

3.4 POLLUTION CONTROLS

- A. Dust Control: Use water mist, temporary enclosures, and other suitable methods to limit spread of dust and dirt. Comply with governing environmental-protection regulations.
 - 1. Do not use water when it may damage existing construction or create hazardous or objectionable conditions, such as ice, flooding, and pollution.
 - 2. Wet mop floors to eliminate trackable dirt and wipe down walls and doors of demolition enclosure. Vacuum carpeted areas.
- B. Disposal: Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas and in accordance with all local, state, and federal laws and guidelines.
 - 1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- C. Cleaning: Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

3.5 SELECTIVE DEMOLITION

- A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - 1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 - 2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 - 3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.

4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
 5. Maintain adequate ventilation when using cutting torches.
 6. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 7. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
 8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 9. Dispose of demolished items and materials promptly.
 10. Return elements of construction and surfaces that are to remain to condition existing before selective demolition operations began.
- B. Existing Facilities: Comply with building manager's requirements for using and protecting elevators, stairs, walkways, loading docks, building entries and other building facilities during selective demolition operations.
- C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.
- D. Roofing: Remove no more existing roofing than can be covered in one day by new roofing.

3.6 PATCHING AND REPAIRS

- A. General: Promptly repair damage to adjacent construction caused by selective demolition operations.
- B. Repairs: Where repairs to existing surfaces are required, patch to produce surfaces suitable for new materials.
- C. Finishes: Restore exposed finishes of patched areas and extend restoration into adjoining construction in a manner that eliminates evidence of patching and refinishing.

3.7 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Promptly dispose of demolished materials in accordance with all applicable local, state, and federal laws and ordinances. Do not allow demolished materials to accumulate on-site.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials and dispose of at designated legal locations in accordance with all local, state, and federal laws and ordinances.

3.8 SELECTIVE DEMOLITION

- A. See construction documents.
- B. Existing Items to be Removed and Salvaged: See construction documents.
- C. Existing Items to be Removed and Reinstalled: See construction documents.
- D. Existing Items to Remain: See construction documents.

END OF SECTION

NOTIFICATION OF DEMOLITION AND RENOVATION

Operator Project #	Postmark	Date Received	Notification #		
I. Type of Notification (O=Original R=Revised C=Canceled)					
II. FACILITY INFORMATION (Identify owner, removal contractor, and other operator)					
OWNER NAME:					
Address:					
City:	State:	Zip:			
Contact:	Tel:				
REMOVAL CONTRACTOR:					
Address:					
City:	State:	Zip:			
Contact:	Tel:				
OTHER OPERATOR:					
Address:					
City:	State:	Zip:			
Contact:	Tel:				
III. TYPE OF OPERATION (D=Demo O= Ordered Demo R=Renovation E=Emer. Renovation)					
IV. IS ASBESTOS PRESENT? (Yes/No)					
V. FACILITY DESCRIPTION (Include building name, number and floor or room number)					
Bldg. Name:					
Address:					
City:	State:	County:			
Site Location:					
Building Size:	# of Floors:	Age in Years:			
Present Use:	Prior Use:				
VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:					
VII. APPROXIMATE AMOUNT OF ASBESTOS INCLUDING:					
1. Regulated ACM to be Removed 2. Category I ACM Not Removed 3. Category II ACM Not Removed	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed		Indicate Unit of Measurement Below	
		Category I	Category II	UNIT	
Pipes				Ln Ft:	Ln M:
Surface Area				Sq Ft:	Sq M:
Vol RACM Off Facility Component				Cu Ft:	Cu M:
VIII. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start:				Complete:	
IX. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start:				Complete:	

X. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED:

XI. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE:

XII. WASTE TRANSPORTER #1

Name:

Address:

City:

State:

Zip:

Contact Person:

Tel:

WASTE TRANSPORTER #2

Name:

Address:

City:

State:

Zip:

Contact Person:

Tel:

XIII. WASTE DISPOSAL SITE

Name:

Address:

City:

State:

Zip:

Tel:

XIV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

Name:

Title:

Authority:

Date of Order (MM/DD/YY):

Date Ordered to Begin (MM/DD/YY):

XV. FOR EMERGENCY RENOVATIONS:

Date and Hour of Emergency (MM/DD/YY):

Description of the sudden unexpected event:

Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:

XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER:

XVII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION, AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS.

(Signature of Owner/Operator)

(Date)

XVIII. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT:

(Signature of Owner/Operator)

(Date)

SECTION 084523

2-3/4" INSULATED TRANSLUCENT FIBERGLASS SANDWICH PANEL SKYLIGHT SYSTEM

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes the insulated translucent sandwich panel skylight system and accessories as shown and specified. Work includes providing and installing:
 - 1. Flat factory, prefabricated, structural, insulated, translucent sandwich panels.
 - 2. Aluminum installation system.
 - 3. Aluminum flashing attached to skylights.

1.2 SUBMITTALS

- A. Submit manufacturer's product data. Include construction details, material descriptions, profiles and finishes of skylight components.
- B. Submit shop drawings. Include elevations and details.
- C. Submit manufacturer's color charts showing the full range of colors available for factory-finished aluminum.
 - 1. When requested, submit samples for each exposed finish required, in same thickness and material indicated for the work and in size indicated below. If finishes involve normal color variations, include sample sets consisting of two or more units showing the full range of variations expected.
 - a. Sandwich panels: 14" x 28" units.
 - b. Factory finished aluminum: 5" long sections.
- D. Submit Installer Certificate, signed by Installer, certifying compliance with project qualification requirements.
- E. Submit product reports from a qualified independent testing agency indicating each type and class of panel system complies with the project performance requirements, based on comprehensive testing of current products. Previously completed reports will be acceptable if for current manufacturer and indicative of products used on this project.

1. Reports required are:
 - a. International Building Code Evaluation Report.
 - b. Flame Spread and Smoke Developed (UL 723) – Submit UL Card.
 - c. Burn Extent (ASTM D 635).
 - d. Color Difference (ASTM D 2244).
 - e. Impact Strength (UL 972).
 - f. Bond Tensile Strength (ASTM C 297 after aging by ASTM D 1037).
 - g. Bond Shear Strength (ASTM D 1002).
 - h. Beam Bending Strength (ASTM E 72).
 - i. Fall Through Resistance (ASTM E 661).
 - j. Insulation U-Factor (NFRC 100).
 - k. NFRC System U-Factor Certification (NFRC 700).
 - l. Solar Heat Gain Coefficient (NFRC or Calculations).
 - m. Condensation Resistance Factor (AAMA 1503).
 - n. Air Leakage (ASTM E 283).
 - o. Structural Performance (ASTM E 330).
 - p. Water Penetration (ASTM E 331).
 - q. Class A Roof Covering Burning Brand (ASTM E 108).

1.3 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Material and products shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a period of at least ten (10) consecutive years and which can show evidence of those materials being satisfactorily used on at least six (6) projects of similar size, scope

and location. At least three (3) of the projects shall have been in successful use for ten (10) years or longer.

2. Panel system must be listed by an ANSI accredited Evaluation Service, which requires quality control inspections and fire, structural, and water infiltration testing of sandwich panel systems by an accredited agency.
3. Quality control inspections shall be conducted at least once each year and shall include manufacturing facilities, sandwich panel components and production sandwich panels for conformance with AC177 "Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems" as issued by the ICC-ES.

- B. Installer's Qualifications: Installation shall be by an experienced Installer, which has been in the business of installing specified skylight systems for at least two (2) consecutive years and can show evidence of satisfactory completion of projects of similar size, scope and type.

1.4 PERFORMANCE REQUIREMENTS

- A. The manufacturer shall be responsible for the configuration and fabrication of the complete skylight panel system.
1. When requested, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 2. Standard skylight system shall have less than 0.01 cfm/ft² air leakage by ASTM E 283 at 6.24 PSF (50 mph) and no water penetration by ASTM E 331 at 15 PSF; and structural testing by ASTM E 330.

1.5 DELIVERY STORAGE AND HANDLING

- A. Deliver panel system, components and materials in manufacturer's standard protective packaging.
- B. Store panels on the long edge; several inches above the ground, blocked and under cover in accordance with manufacturer's storage and handling instructions.

1.6 WARRANTY

- A. Submit manufacturer's and Installer's written warranty agreeing to repair or replace panel system work, which fails in materials or workmanship within one year of the date of delivery. Failure of materials or workmanship shall include leakage, excessive deflection, deterioration of finish on metal in

excess of normal weathering and defects in accessories, insulated translucent sandwich panels, and other components of the work.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. The basis for this specification is for products manufactured by Kalwall Corporation. Other manufacturers may be submitted with the bid information for this project provided they comply with all of the performance requirements of this specification and submit evidence thereof. Listing other manufacturers' names in this specification does not constitute approval of their products or relieve them of compliance with all the performance requirements contained herein.

1. Kalwall Corporation: Tel: (800) 258-9777, Fax: (603) 627-7905, Email: info@kalwall.com.
2. CPI Daylighting Inc., Lake Forest, IL: Tel: (800) 759-6985, Fax: (847) 816-0425, Website: www.cpidaylighting.com.
3. Wasco Skylights through PACE Representatives, Braintree, MA: Tel: (781) 541-5060, Fax: (617) 249-0778.

2.2 PANEL COMPONENTS

A. Face Sheets:

1. Translucent Faces: Manufactured from glass fiber reinforced thermoset resins, formulated specifically for architectural use.
 - a. Thermoplastic (e.g. polycarbonate, acrylic) faces are not acceptable.
 - b. Face sheets shall not deform, deflect, or drip when subjected to fire or flame.
2. Interior Face Sheets:
 - a. Flame spread: Underwriters Laboratories (UL) listed, which requires periodic unannounced retesting, with flame spread rating no greater than 50, and smoke developed no greater than 250, when tested in accordance with UL 723.
 - b. Burn extent by ASTM D 635 shall be no greater than 1".

3. Exterior Face Sheets:

- a. Color stability: Full thickness of the exterior face sheet shall not change color more than 3 CIE Units DELTA E by ASTM D 2244 after five (5) years outdoors weathering at 5° facing south, in a climate zone similar to South Florida, determined by the average of at least three white samples with and without a protective film or coating to ensure long-term color stability. Color stability shall be unaffected by abrasion or scratching.
- b. Strength: Exterior face sheet shall be uniform in strength, impenetrable by hand held pencil and repel an impact minimum of 70 ft. lbs. without fracture or tear when impacted by a 3-1/4" diameter, 5 lb. free-falling ball per UL 972.

4. Appearance:

- a. Exterior face sheets: Smooth, .070 thick and crystal in color.
- b. Interior face sheets: Smooth, .045 thick and white in color.
- c. Face sheets shall not vary more than $\pm 10\%$ in thickness and be uniform in color.

B. Grid Core:

- 1. Thermally broken I-beam grid core shall be of 6063-T6 or 6005-T5 alloy and temper with provisions for mechanical interlocking of muntin-mullion and perimeter. Width of I-beam shall be no less than 7/16".
- 2. I-beam Thermal break: Minimum 1", thermoset fiberglass composite.

C. Laminate Adhesive:

- 1. Heat and pressure resin type adhesive engineered for structural sandwich panel use, with minimum 25-years field use. Adhesive shall pass testing requirements specified by the International Code Council "Acceptance Criteria for Sandwich Panel Adhesives".
- 2. Minimum tensile strength of 750 PSI when the panel assembly is tested by ASTM C 297 after two exposures to six cycles each of the aging conditions prescribed by ASTM D 1037.

3. Minimum shear strength of the panel adhesive by ASTM D 1002 after exposure to four (4) separate conditions:
 - a. 50% Relative Humidity at 68°F: 540 PSI.
 - b. 182°F: 100 PSI.
 - c. Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI.
 - d. Accelerated Aging by ASTM D 1037 at 182°F: 250 PSI.

2.3 PANEL CONSTRUCTION

- A. Provide sandwich panels of flat fiberglass, reinforced, translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam, and have a neat, sharp edge.
 1. Thickness: 2-3/4".
 2. Light transmission: 20%.
 3. Solar heat gain coefficient 0.23.
 4. Panel U-factor by NFRC certified laboratory: 2-3/4" thermally broken grid 0.23.
 5. Grid pattern: Nominal size 20" x 8"; pattern Shoji.
- B. Standard panels shall deflect no more than 1.9" at 30 PSF in 10'-0" span without a supporting frame by ASTM E 72.
- C. Standard panels shall withstand 1200°F fire for minimum one hour without collapse or exterior flaming.
- D. Thermally broken panels: Minimum Condensation Resistance Factor of 80 by AAMA 1503 measured on the bond line.
- E. Skylight System:
 1. Skylight system shall pass Class A Roof Burning Brand Test by ASTM E 108.
- F. Skylight System shall meet the fall through requirements of OSHA 1910.23 as demonstrated by testing in accordance with ASTM E661, thereby not requiring supplemental screens or railings.

2.4 BATTENS AND PERIMETER CLOSURE SYSTEM

A. Closure System:

1. Extruded aluminum 6063-T6 and 6063-T5 alloy and temper clamp-tite, screw-type closure system.
2. Curved closure system may be roll formed.
3. Skylight perimeter closures at curbs shall be factory sealed to panels.

B. Sealing tape: Manufacturer's standard, pre-applied to closure system at the factory under controlled conditions.

C. Fasteners: 300 series stainless steel screws for aluminum closures, excluding final fasteners to the building.

D. Finish:

1. Manufacturer's factory applied finish, which meets the performance requirements of AAMA 2604. Color to be Bronze #84.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Installer shall examine substrates, supporting structure, and installation conditions.
- B. Do not proceed with panel installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Metal Protection:

1. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.
2. Where aluminum will contact concrete, masonry or pressure treated wood, protect against corrosion by painting contact surfaces with bituminous paint or method recommended by manufacturer.

3.3 INSTALLATION

- A. Install the skylight system in accordance with the manufacturer's installation recommendations and approved shop drawings.
 - 1. Anchor component parts securely in place by permanent mechanical attachment system.
 - 2. Accommodate thermal and mechanical movements.
 - 3. Set perimeter framing in a full bed of sealant compound, or with joint fillers or gaskets to provide weather-tight construction.
- B. Install joint sealants at perimeter joints and within the panel system in accordance with manufacturer's installation instructions.

3.4 FIELD QUALITY CONTROL

- A. Water Test: Installer to test skylights according to procedures in AAMA 501.2.
- B. Repair or replace work that does not pass testing or that is damaged by testing and retest work.

3.5 CLEANING

- A. Clean the skylight system inside and outside, immediately after installation.
- B. Refer to manufacturer's written recommendations.

END OF SECTION

CORPORATE OFFICE:

27 Locke Road
Concord, NH 03301
603/228-1122
hlturner.com

BRANCH OFFICES:

26 Pinewood Lane
Harrison, ME 04040
207/583-4572

75 South Street
Lyndonville, VT 05851
802/626-8233

100 Pearl Street, 14th Floor
Hartford, CT 06103
860/249-7105



DRAFT AIA[®] Document A107[™] – 2007

Standard Form of Agreement Between Owner and Contractor for a Project of Limited Scope

AGREEMENT made as of the day of in the year Two Thousand Fifteen
(In words, indicate day, month and year.)

BETWEEN the Owner:
(Name, legal status, address and other information)

Town of Seabrook
99 Lafayette Road
Seabrook, NH

and the Contractor:
(Name, legal status, address and other information)

for the following Project:
(Name, location and detailed description)

WWTP Re-roof, Town Hall re-roof, Recreation Building Skylight replacement

The Owner's Project Manager (OPM):
(Name, legal status, address and other information)

Trident Building, LLC
155 North Broadway
Salem, NH 03079

The Owner's Design Consultant is:

The HL Turner Group, Inc.
27 Locke Road
Concord, NH 03301

The Owner and Contractor agree as follows.

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

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

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ARTICLE 1 THE WORK OF THIS CONTRACT

The Contractor shall execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

ARTICLE 2 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

§ 2.1 The date of commencement of the Work shall be the date of this Agreement unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner.

(Insert the date of commencement, if it differs from the date of this Agreement or, if applicable, state that the date will be fixed in a notice to proceed.)

Within 7 (seven) days from contract date.

§ 2.2 The Contract Time shall be measured from the date of commencement.

§ 2.3 The Contractor shall achieve Substantial Completion of the entire Work not later than August 30, 2014

Portion of Work

Substantial Completion Date

, subject to adjustments of this Contract Time as provided in the Contract Documents.

(Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)

Liquidated Damages shall be assessed at the rate of \$500/day beyond June 30, 2016 for the Town Hall and Recreation Building projects only.

ARTICLE 3 CONTRACT SUM

§ 3.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor's performance of the Contract. The Contract Sum shall be one of the following:

(Check the appropriate box.)

☒ Stipulated Sum, in accordance with Section 3.2 below

☐ Cost of the Work plus the Contractor's Fee, in accordance with Section 3.3 below

☐ Cost of the Work plus the Contractor's Fee with a Guaranteed Maximum Price, in accordance with Section 3.4 below

(Based on the selection above, complete Section 3.2, 3.3 or 3.4 below.)

§ 3.2 The Stipulated Sum shall be (), subject to additions and deductions as provided in the Contract Documents.

§ 3.2.1 The Stipulated Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)

§ 3.2.2 Unit prices, if any:

(Identify and state the unit price, and state the quantity limitations, if any, to which the unit price will be applicable.)

Item

Units and Limitations

Price Per Unit (\$0.00)

According to the Bid Forms

§ 3.2.3 Allowances included in the stipulated sum, if any: There are no Allowances

(Identify allowance and state exclusions, if any, from the allowance price.)

Item

Allowance

NONE

NONE

§ 3.3 COST OF THE WORK PLUS CONTRACTOR'S FEE

§ 3.3.1 The Cost of the Work is as defined in Exhibit A, Determination of the Cost of the Work.

§ 3.3.2 The Contractor's Fee:

(State a lump sum, percentage of Cost of the Work or other provision for determining the Contractor's Fee and the method of adjustment to the Fee for changes in the Work.)

§ 3.4 COST OF THE WORK PLUS CONTRACTOR'S FEE WITH A GUARANTEED MAXIMUM PRICE

§ 3.4.1 The Cost of the Work is as defined in Exhibit A, Determination of the Cost of the Work.

§ 3.4.2 The Contractor's Fee:

(State a lump sum, percentage of Cost of the Work or other provision for determining the Contractor's Fee and the method of adjustment to the Fee for changes in the Work.)

§ 3.4.3 GUARANTEED MAXIMUM PRICE

§ 3.4.3.1 The sum of the Cost of the Work and the Contractor's Fee is guaranteed by the Contractor not to exceed «
» (\$ «
»), subject to additions and deductions by changes in the Work as provided in the Contract Documents. Such maximum sum is referred to in the Contract Documents as the Guaranteed Maximum Price. Costs which would cause the Guaranteed Maximum Price to be exceeded shall be paid by the Contractor without reimbursement by the Owner.

(Insert specific provisions if the Contractor is to participate in any savings.)

§ 3.4.3.2 The Guaranteed Maximum Price is based on the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:

«
»

§ 3.4.3.3 Unit Prices, if any:

(Identify and state the unit price, and state the quantity limitations, if any, to which the unit price will be applicable.)

Item	Units and Limitations	Price Per Unit (\$0.00)
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§ 3.4.3.4 Allowances included in the Guaranteed Maximum Price, if any:

(Identify and state the amounts of any allowances, and state whether they include labor, materials, or both.)

Item	Allowance
------	-----------

§ 3.4.3.5 Assumptions, if any, on which the Guaranteed Maximum Price is based:

«
»

ARTICLE 4 PAYMENTS

§ 4.1 PROGRESS PAYMENTS

§ 4.1.1 Based upon Applications for Payment submitted to the Design Consultant or OPM by the Contractor and Certificates for Payment issued by the Design Consultant or OPM, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 4.1.2 The period covered by each Application for Payment shall be one calendar month ending on the last day of the month, or as follows:

§ 4.1.3 Provided that an Application for Payment is received by the Design Consultant or OPM not later than the 5th day of a month, the Owner shall make payment of the certified amount to the Contractor not later than the 5th day of the following month. If an Application for Payment is received by the Design Consultant or OPM after the date fixed above, payment shall be made by the Owner not later than Thirty (30) days after the Design Consultant or OPM receives the Application for Payment.

(Federal, state or local laws may require payment within a certain period of time.)

§ 4.1.4 Retainage, if any, shall be withheld as follows:

10%

§ 4.1.5 Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

(Insert rate of interest agreed upon, if any.)

% »

§ 4.2 FINAL PAYMENT

§ 4.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 18.2, and to satisfy other requirements, if any, which extend beyond final payment;
- .2 the contractor has submitted a final accounting for the Cost of the Work, where payment is on the basis of the Cost of the Work with or without a guaranteed maximum price; and
- .3 a final Certificate for Payment has been issued by the Design Consultant or OPM .

§ 4.2.2 The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Design Consultant or OPM 's final Certificate for Payment, or as follows:

ARTICLE 5 DISPUTE RESOLUTION

§ 5.1 BINDING DISPUTE RESOLUTION

For any claim subject to, but not resolved by, mediation pursuant to Section 21.3, the method of binding dispute resolution shall be as follows:

(Check the appropriate box. If the Owner and Contractor do not select a method of binding dispute resolution below, or do not subsequently agree in writing to a binding dispute resolution method other than litigation, claims will be resolved in a court of competent jurisdiction.)

☐ Arbitration pursuant to Section 21.4 of this Agreement

☒ Litigation in a court of competent jurisdiction

☐ Other *(Specify)*

ARTICLE 6 ENUMERATION OF CONTRACT DOCUMENTS

§ 6.1 The Contract Documents are defined in Article 7 and, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 6.1.1 The Agreement is this executed AIA Document A107–2007, Standard Form of Agreement Between Owner and Contractor for a Project of Limited Scope.

§ 6.1.2 The Supplementary and other Conditions of the Contract: There are no Supplementary Conditions

Document	Title	Date	Pages

§ 6.1.3 The Specifications:

(Either list the Specifications here or refer to an exhibit attached to this Agreement.)

Attached as Exhibit B

Section	Title	Date	Pages

§ 6.1.4 The Drawings:

(Either list the Drawings here or refer to an exhibit attached to this Agreement.)

Attached as Exhibit B

Number	Title	Date

§ 6.1.5 The Addenda, if any:

Number	Date	Pages

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are enumerated in this Article 6.

§ 6.1.6 Additional documents, if any, forming part of the Contract Documents:

There are no Additional Documents

.3 Other documents:

(List here any additional documents that are intended to form part of the Contract Documents.)

None

ARTICLE 7 GENERAL PROVISIONS

§ 7.1 THE CONTRACT DOCUMENTS

The Contract Documents are enumerated in Article 6 and consist of this Agreement (including, if applicable, Supplementary and other Conditions of the Contract), Drawings, Specifications, Addenda issued prior to the execution of this Agreement, other documents listed in this Agreement and Modifications issued after execution of this Agreement. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the Work issued by the Design Consultant or OPM. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

§ 7.2 THE CONTRACT

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind between any persons or entities other than the Owner and the Contractor.

§ 7.3 THE WORK

The term “Work” means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor’s obligations. The Work may constitute the whole or a part of the Project.

§ 7.4 INSTRUMENTS OF SERVICE

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Design Consultant or OPM and the Design Consultant or OPM’s consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 7.5 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS AND OTHER INSTRUMENTS OF SERVICE

§ 7.5.1 The Design Consultant or OPM and the Design Consultant or OPM’s consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and will retain all common law, statutory and other reserved rights, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with this Project is not to be construed as publication in derogation of the Design Consultant or OPM’s or Design Consultant or OPM’s consultants’ reserved rights.

§ 7.5.2 The Contractor, Subcontractors, Sub-subcontractors and material or equipment suppliers are authorized to use and reproduce the Instruments of Service provided to them solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and material or equipment suppliers may not use the Instruments of Service on other projects or for additions to this Project outside the scope of the Work without the specific written consent of the Owner, Design Consultant or OPM and the Design Consultant or OPM’s consultants.

§ 7.6 TRANSMISSION OF DATA IN DIGITAL FORM

If the parties intend to transmit Instruments of Service or any other information or documentation in digital form, they shall endeavor to establish necessary protocols governing such transmission, unless otherwise provided in the Agreement or in the Contract Documents.

ARTICLE 8 OWNER

§ 8.1 INFORMATION AND SERVICES REQUIRED OF THE OWNER

§ 8.1.1 The Owner shall furnish all necessary surveys and a legal description of the site.

§ 8.1.2 The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 8.1.3 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 9.6.1, the Owner shall secure and pay for other necessary approvals, easements, assessments and charges required for the construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 8.2 OWNER’S RIGHT TO STOP THE WORK

If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents, or repeatedly fails to carry out the Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order is eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity.

§ 8.3 OWNER’S RIGHT TO CARRY OUT THE WORK

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents, and fails within a ten-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner, without prejudice to any other remedy the Owner may have, may correct such deficiencies and may deduct the reasonable cost thereof, including Owner’s expenses and

compensation for the Owner's Representative's services made necessary thereby, from the payment then or thereafter due the Contractor.

ARTICLE 9 CONTRACTOR

§ 9.1 REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

§ 9.1.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

§ 9.1.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 8.1.1, shall take field measurements of any existing conditions related to that portion of the Work and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Design Consultant or OPM any errors, inconsistencies, or omissions discovered by or made known to the Contractor as a request for information in such form as the Design Consultant or OPM may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional unless otherwise specifically provided in the Contract Documents.

§ 9.1.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Design Consultant or OPM any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Design Consultant or OPM may require.

§ 9.2 SUPERVISION AND CONSTRUCTION PROCEDURES

§ 9.2.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures, and for coordinating all portions of the Work under the Contract, unless the Contract Documents give other specific instructions concerning these matters.

§ 9.2.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for or on behalf of the Contractor or any of its Subcontractors.

§ 9.3 LABOR AND MATERIALS

§ 9.3.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 9.3.2 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them.

§ 9.3.3 The Contractor may make a substitution only with the consent of the Owner, after evaluation by the Design Consultant or OPM and in accordance with a Modification.

§ 9.4 WARRANTY

The Contractor warrants to the Owner and Design Consultant or OPM that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation or normal wear and tear under normal usage.

§ 9.5 TAXES

The Contractor shall pay sales, consumer, use and other similar taxes that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 9.6 PERMITS, FEES, NOTICES, AND COMPLIANCE WITH LAWS

§ 9.6.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as other permits, fees, licenses and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 9.6.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work. If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 9.7 ALLOWANCES

The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. The Owner shall select materials and equipment under allowances with reasonable promptness. Allowance amounts shall include the costs to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts. Allowance amounts shall not include the Contractor's costs for unloading and handling at the site, labor, installation, overhead, and profit.

§ 9.8 CONTRACTOR'S CONSTRUCTION SCHEDULES

§ 9.8.1 The Contractor, promptly after being awarded the Contract, shall prepare and submit for the Owner's and Design Consultant or OPM's information a Contractor's construction schedule for the Work. The schedule shall not exceed time limits current under the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work and Project, shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

§ 9.8.2 The Contractor shall perform the Work in general accordance with the most recent schedule submitted to the Owner and Design Consultant or OPM.

§ 9.9 SUBMITTALS

§ 9.9.1 The Contractor shall review for compliance with the Contract Documents and submit to the Design Consultant Shop Drawings, Product Data, Samples and similar submittals required by the Contract Documents in coordination with the Contractor's construction schedule and in such sequence as to allow the Design Consultant reasonable time for review. By submitting Shop Drawings, Product Data, Samples and similar submittals, the Contractor represents to the Owner and Design Consultant that the Contractor has (1) reviewed and approved them; (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so; and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents. The Work shall be in accordance with approved submittals.

§ 9.9.2 Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents.

§ 9.10 USE OF SITE

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 9.11 CUTTING AND PATCHING

The Contractor shall be responsible for cutting, fitting or patching required to complete the Work or to make its parts fit together properly.

§ 9.12 CLEANING UP

The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus material from and about the Project.

§ 9.13 ROYALTIES, PATENTS AND COPYRIGHTS

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Design Consultant and OPM harmless from loss on account thereof, but shall not be responsible for such defense or loss when a particular design, process or product of a particular manufacturer or manufacturers is required by the Contract Documents or where the copyright violations are contained in Drawings, Specifications or other documents prepared by the Owner or Design Consultant or OPM. However, if the Contractor has reason to believe that the required design, process or product is an infringement of a copyright or a patent, the Contractor shall be responsible for such loss unless such information is promptly furnished to the Design Consultant.

§ 9.14 ACCESS TO WORK

The Contractor shall provide the Owner and Design Consultant or OPM access to the Work in preparation and progress wherever located.

§ 9.15 INDEMNIFICATION

§ 9.15.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Design Consultant and OPM, Design Consultant and OPM's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Section 9.15.1.

§ 9.15.2 In claims against any person or entity indemnified under this Section 9.15 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under Section 9.15.1 shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or Subcontractor under workers' compensation acts, disability benefit acts or other employee benefit acts.

ARTICLE 10 DESIGN CONSULTANT OR OPM

§ 10.1 The Design Consultant or OPM will provide administration of the Contract and will be an Owner's representative during construction, until the date the Design Consultant or OPM issues the final Certificate for Payment. The Design Consultant or OPM will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents, unless otherwise modified in writing in accordance with other provisions of the Contract.

§ 10.2 The Design Consultant or OPM will visit the site at intervals appropriate to the stage of the construction to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Design Consultant or OPM will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Design Consultant or OPM will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 10.3 On the basis of the site visits, the Design Consultant or OPM will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and report to the Owner (1) known deviations from the Contract Documents and from the most recent construction schedule submitted by the Contractor, and (2) defects and deficiencies observed in the Work. The Design Consultant or OPM will not be responsible for the Contractor's

failure to perform the Work in accordance with the requirements of the Contract Documents. The Design Consultant or OPM will not have control over or charge of and will not be responsible for acts or omissions of the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 10.4 Based on the Design Consultant & OPM's evaluations of the Work and of the Contractor's Applications for Payment, the Design Consultant & OPM will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 10.5 The Design Consultant or OPM has authority to reject Work that does not conform to the Contract Documents and to require inspection or testing of the Work.

§ 10.6 The Design Consultant will review and approve or take other appropriate action upon the Contractor's submittals such as Shop Drawings, Product Data and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 10.7 The Design Consultant will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Design Consultant will make initial decisions on all claims, disputes and other matters in question between the Owner and Contractor but will not be liable for results of any interpretations or decisions rendered in good faith.

§ 10.8 The Design Consultant's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 10.9 Duties, responsibilities and limitations of authority of the Design Consultant as set forth in the Contract Documents shall not be restricted, modified or extended without written consent of the Owner, Contractor and Design Consultant & OPM. Consent shall not be unreasonably withheld.

ARTICLE 11 SUBCONTRACTORS

§ 11.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site.

§ 11.2 Unless otherwise stated in the Contract Documents or the bidding requirements, the Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner through the Design Consultant & OPM the names of the Subcontractors or suppliers for each of the principal portions of the Work. The Contractor shall not contract with any Subcontractor or supplier to whom the Owner or Design Consultant or OPM has made reasonable written objection within ten days after receipt of the Contractor's list of Subcontractors and suppliers. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 11.3 Contracts between the Contractor and Subcontractors shall (1) require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by the terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work, which the Contractor, by the Contract Documents, assumes toward the Owner and Design Consultant or OPM, and (2) allow the Subcontractor the benefit of all rights, remedies and redress against the Contractor that the Contractor, by these Contract Documents, has against the Owner.

ARTICLE 12 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 12.1 The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and to award separate contracts in connection with other portions of the Project or other construction or operations on the site under conditions of the contract identical or substantially similar to these, including those portions related to insurance and waiver of subrogation. If the Contractor claims that delay or additional cost is involved because of such action by the Owner, the Contractor shall make such claim as provided in Article 21.

§ 12.2 The Contractor shall afford the Owner and separate contractor's reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's activities with theirs as required by the Contract Documents.

§ 12.3 The Owner shall be reimbursed by the Contractor for costs incurred by the Owner which are payable to a separate contractor because of delays, improperly timed activities or defective construction of the Contractor. The Owner shall be responsible to the Contractor for costs incurred by the Contractor because of delays, improperly timed activities, damage to the Work or defective construction of a separate contractor.

ARTICLE 13 CHANGES IN THE WORK

§ 13.1 By appropriate Modification, changes in the Work may be accomplished after execution of the Contract. The Owner, without invalidating the Contract, may order changes in the Work within the general scope of the Contract consisting of additions, deletions or other revisions, with the Contract Sum and Contract Time being adjusted accordingly. Such changes in the Work shall be authorized by written Change Order signed by the Owner, Contractor and Design Consultant, or by written Construction Change Directive signed by the Owner and Design Consultant or OPM.

§ 13.2 Adjustments in the Contract Sum and Contract Time resulting from a change in the Work shall be determined by mutual agreement of the parties or, in the case of a Construction Change Directive signed only by the Owner and Design Consultant & OPM, by the Contractor's cost of labor, material, equipment, and reasonable overhead and profit, unless the parties agree on another method for determining the cost or credit. Pending final determination of the total cost of a Construction Change Directive, the Contractor may request payment for Work completed pursuant to the Construction Change Directive. The Design Consultant or OPM will make an interim determination of the amount of payment due for purposes of certifying the Contractor's monthly Application for Payment. When the Owner and Contractor agree on adjustments to the Contract Sum and Contract Time arising from a Construction Change Directive, the Design Consultant or OPM will prepare a Change Order.

§ 13.3 The Design Consultant or OPM will have authority to order minor changes in the Work not involving adjustment in the Contract Sum or extension of the Contract Time and not inconsistent with the intent of the Contract Documents. Such changes shall be effected by written order and shall be binding on the Owner and Contractor. The Contractor shall carry out such written orders promptly.

§ 13.4 If concealed or unknown physical conditions are encountered at the site that differ materially from those indicated in the Contract Documents or from those conditions ordinarily found to exist, the Contract Sum and Contract Time shall be equitably adjusted as mutually agreed between the Owner and Contractor; provided that the Contractor provides notice to the Owner and Design Consultant & OPM promptly and before conditions are disturbed.

ARTICLE 14 TIME

§ 14.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 14.2 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 14.3 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

§ 14.4 The date of Substantial Completion is the date certified by the Design Consultant in accordance with Section 15.4.3.

§ 14.5 If the Contractor is delayed at any time in the commencement or progress of the Work by changes ordered in the Work, by labor disputes, fire, unusual delay in deliveries, abnormal adverse weather conditions not reasonably anticipatable, unavoidable casualties or any causes beyond the Contractor's control, or by other causes which the Design Consultant & OPM determines may justify delay, then the Contract Time shall be extended by Change Order for such reasonable time as the Design Consultant & OPM may determine, subject to the provisions of Article 21.

ARTICLE 15 PAYMENTS AND COMPLETION

§ 15.1 APPLICATIONS FOR PAYMENT

§ 15.1.1 Where the Contract is based on a Stipulated Sum or the Cost of the Work with a Guaranteed Maximum Price, the Contractor shall submit to the Design Consultant & OPM, before the first Application for Payment, a schedule of values, allocating the entire Contract Sum to the various portions of the Work, prepared in such form and supported by such data to substantiate its accuracy as the Design Consultant & OPM may require. This schedule, unless objected to by the Design Consultant or OPM, shall be used in reviewing the Contractor's Applications for Payment.

§ 15.1.2 With each Application for Payment where the Contract Sum is based upon the Cost of the Work, or the Cost of the Work with a Guaranteed Maximum Price, the Contractor shall submit payrolls, petty cash accounts, receipted invoices or invoices with check vouchers attached, and any other evidence required by the Owner to demonstrate that cash disbursements already made by the Contractor on account of the Cost of the Work equal or exceed (1) progress payments already received by the Contractor, less (2) that portion of those payments attributable to the Contractor's Fee; plus (3) payrolls for the period covered by the present Application for Payment.

§ 15.1.3 Payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment stored, and protected from damage, off the site at a location agreed upon in writing.

§ 15.1.4 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or other encumbrances adverse to the Owner's interests.

§ 15.2 CERTIFICATES FOR PAYMENT

§ 15.2.1 The Design Consultant & OPM will, within seven days after receipt of the Contractor's Application for Payment, either issue to the Owner a Certificate for Payment, with a copy to the Contractor, for such amount as the Design Consultant & OPM determines is properly due, or notify the Contractor and Owner in writing of the Design Consultant or OPM's reasons for withholding certification in whole or in part as provided in Section 15.2.3.

§ 15.2.2 The issuance of a Certificate for Payment will constitute a representation by the Design Consultant to the Owner, based on the Design Consultant & OPM's evaluations of the Work and the data comprising the Application for Payment, that, to the best of the Design Consultant's knowledge, information and belief, the Work has progressed to the point indicated and that the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion and to specific qualifications expressed by the Design Consultant or OPM. The issuance of a Certificate for Payment will further constitute a representation that the Contractor is entitled to payment in the amount certified. However, the issuance of a Certificate for Payment will not be a representation that the Design Consultant or OPM has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work, (2) reviewed construction means, methods, techniques, sequences or procedures, (3) reviewed copies of requisitions received from Subcontractors and material suppliers and other data requested by the Owner to substantiate the Contractor's right to payment, or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 15.2.3 The Design Consultant or OPM may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Design Consultant or OPM's opinion the representations to the Owner required by Section 15.2.2 cannot be made. If the Design Consultant or OPM is unable to certify payment in the amount of the Application, the Design Consultant or OPM will notify the Contractor and Owner as provided in Section 15.2.1. If the Contractor and the Design Consultant or OPM cannot agree on a revised amount, the Design Consultant or OPM will promptly issue a Certificate for Payment for the amount for which the Design Consultant or OPM is able to make such representations to the Owner. The Design Consultant or OPM may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Design Consultant or OPM's

opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 9.2.2, because of

- .1 defective Work not remedied;
- .2 third party claims filed or reasonable evidence indicating probable filing of such claims unless security acceptable to the Owner is provided by the Contractor;
- .3 failure of the Contractor to make payments properly to Subcontractors or for labor, materials or equipment;
- .4 reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- .5 damage to the Owner or a separate contractor;
- .6 reasonable evidence that the Work will not be completed within the Contract Time and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
- .7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 15.2.4 When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 15.3 PROGRESS PAYMENTS

§ 15.3.1 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to sub-subcontractors in similar manner.

§ 15.3.2 Neither the Owner nor Design Consultant or OPM shall have an obligation to pay or see to the payment of money to a Subcontractor except as may otherwise be required by law.

§ 15.3.3 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 15.4 SUBSTANTIAL COMPLETION

§ 15.4.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 15.4.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Design Consultant & OPM a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 15.4.3 Upon receipt of the Contractor's list, the Design Consultant will make an inspection to determine whether the Work or designated portion thereof is substantially complete. When the Design Consultant determines that the Work or designated portion thereof is substantially complete, the Design Consultant will issue a Certificate of Substantial Completion which shall establish the date of Substantial Completion, establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 15.4.4 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 15.5 FINAL COMPLETION AND FINAL PAYMENT

§ 15.5.1 Upon receipt of the Contractor's written notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Design Consultant will promptly make such inspection and,

when the Design Consultant finds the Work acceptable under the Contract Documents and the Contract fully performed, the Design Consultant will promptly issue a final Certificate for Payment stating that to the best of the Design Consultant's knowledge, information and belief, and on the basis of the Design Consultant's on-site visits and inspections, the Work has been completed in accordance with terms and conditions of the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Design Consultant's final Certificate for Payment will constitute a further representation that conditions stated in Section 15.5.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 15.5.2 Final payment shall not become due until the Contractor has delivered to the Owner a complete release of all liens arising out of this Contract or receipts in full covering all labor, materials and equipment for which a lien could be filed, or a bond satisfactory to the Owner to indemnify the Owner against such lien. If such lien remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging such lien, including costs and reasonable attorneys' fees.

§ 15.5.3 The making of final payment shall constitute a waiver of claims by the Owner except those arising from

- .1 liens, claims, security interests or encumbrances arising out of the Contract and unsettled;
- .2 failure of the Work to comply with the requirements of the Contract Documents; or
- .3 terms of special warranties required by the Contract Documents.

§ 15.5.4 Acceptance of final payment by the Contractor, a Subcontractor or material supplier shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 16 PROTECTION OF PERSONS AND PROPERTY

§ 16.1 SAFETY PRECAUTIONS AND PROGRAMS

The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the performance of the Contract. The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to

- .1 employees on the Work and other persons who may be affected thereby;
- .2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody or control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and
- .3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities bearing on safety of persons and property and their protection from damage, injury or loss. The Contractor shall promptly remedy damage and loss to property caused in whole or in part by the Contractor, a Subcontractor, a sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 16.1.2 and 16.1.3, except for damage or loss attributable to acts or omissions of the Owner or Design Consultant or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 9.15.

§ 16.2 HAZARDOUS MATERIALS

§ 16.2.1 The Contractor is responsible for compliance with the requirements of the Contract Documents regarding hazardous materials. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents, and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and report the condition to the Owner and Design Consultant in writing. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased in the amount of the Contractor's reasonable additional costs of shutdown, delay and start-up.

§ 16.2.2 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Design Consultant & OPM, Design Consultant & OPM's consultants and agents and employees of any of them from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area, if in fact, the material or substance presents the risk of bodily injury or death as described in Section 16.2.1 and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss or expense is due to the fault or negligence of the party seeking indemnity.

§ 16.2.3 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall indemnify the Contractor for all cost and expense thereby incurred.

ARTICLE 17 INSURANCE AND BONDS

§ 17.1 The Contractor shall purchase from, and maintain in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, insurance for protection from claims under workers' compensation acts and other employee benefit acts which are applicable, claims for damages because of bodily injury, including death, and claims for damages, other than to the Work itself, to property which may arise out of or result from the Contractor's operations and completed operations under the Contract, whether such operations be by the Contractor or by a Subcontractor or anyone directly or indirectly employed by any of them. This insurance shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater, and shall include contractual liability insurance applicable to the Contractor's obligations under Section 9.15. Certificates of Insurance acceptable to the Owner shall be filed with the Owner prior to commencement of the Work. Each policy shall contain a provision that the policy will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner. The Contractor shall cause the commercial liability coverage required by the Contract Documents to include: (1) the Owner, the Design Consultant & OPM and the Design Consultant & OPM's Consultants as additional insureds for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's operations; and (2) the Owner as an additional insured for claims caused in whole or in part by the Contractor's negligent acts or omissions during the Contractor's completed operations.

§ 17.2 OWNER'S LIABILITY INSURANCE

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance.

§ 17.3 PROPERTY INSURANCE

§ 17.3.1 Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance on an "all-risk" or equivalent policy form, including builder's risk, in the amount of the initial Contract Sum, plus the value of subsequent modifications and cost of materials supplied and installed by others, comprising total value for the entire Project at the site on a replacement cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made as provided in Section 15.5 or until no person or entity other than the Owner has an insurable interest in the property required by this Section 17.3.1 to be covered, whichever is later. This insurance shall include interests of the Owner, the Contractor, Subcontractors and sub-subcontractors in the Project.

§ 17.3.2 The Owner shall file a copy of each policy with the Contractor before an exposure to loss may occur. Each policy shall contain a provision that the policy will not be canceled or allowed to expire, and that its limits will not be reduced, until at least 30 days' prior written notice has been given to the Contractor.

§ 17.3.3 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Design Consultant & OPM, Design Consultant & OPM's consultants, separate contractors described in Article 12, if any, and any of their subcontractors, sub-subcontractors, agents and employees for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to Section 17.3 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as

appropriate, shall require of the Design Consultant & OPM, Design Consultant & OPM's consultants, separate contractors described in Article 12, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

§ 17.3.4 A loss insured under the Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause. The Contractor shall pay Subcontractors their just shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractors to make payments to their sub-subcontractors in similar manner.

§ 17.4 PERFORMANCE BOND AND PAYMENT BOND

§ 17.4.1 The Owner shall require the Contractor to furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder as stipulated in bidding requirements or specifically required in the Contract Documents on the date of execution of the Contract.

§ 17.4.2 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

ARTICLE 18 CORRECTION OF WORK

§ 18.1 The Contractor shall promptly correct Work rejected by the Design Consultant or OPM or failing to conform to the requirements of the Contract Documents, whether discovered before or after Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Design Consultant or OPM's services and expenses made necessary thereby, shall be at the Contractor's expense, unless compensable under Section A.2.7.3 in Exhibit A, Determination of the Cost of the Work.

§ 18.2 In addition to the Contractor's obligations under Section 9.4, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 15.4.3, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty.

§ 18.3 If the Contractor fails to correct nonconforming Work within a reasonable time, the Owner may correct it in accordance with Section 8.3.

§ 18.4 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 18.5 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Article 18.

ARTICLE 19 MISCELLANEOUS PROVISIONS

§ 19.1 ASSIGNMENT OF CONTRACT

Neither party to the Contract shall assign the Contract without written consent of the other, except that the Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate such assignment.

§ 19.2 GOVERNING LAW

The Contract shall be governed by the law of the place where the Project is located, except, that if the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 21.4.

§ 19.3 TESTS AND INSPECTIONS

Tests, inspections and approvals of portions of the Work required by the Contract Documents or by applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of public authorities shall be made at an appropriate time. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections and approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections and approvals. The Contractor shall give the Design Consultant & OPM timely notice of when and where tests and inspections are to be made so that the Design Consultant & OPM may be present for such procedures. The Owner shall bear costs of (1) tests, inspections or approvals that do not become requirements until after bids are received or negotiations concluded, and (2) tests, inspections or approvals where building codes or applicable laws or regulations prohibit the Owner from delegating the costs to the Contractor.

§ 19.4 COMMENCEMENT OF STATUTORY LIMITATION PERIOD

The Owner and Contractor shall commence all claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of the final dispute resolution method selected in the Agreement within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all claims and causes of action not commenced in accordance with this Section 19.4.

ARTICLE 20 TERMINATION OF THE CONTRACT

§ 20.1 TERMINATION BY THE CONTRACTOR

If the Design Consultant fails to certify payment as provided in Section 15.2.1 for a period of 30 days through no fault of the Contractor, or if the Owner fails to make payment as provided in Section 4.1.3 for a period of 30 days, the Contractor may, upon seven additional days' written notice to the Owner and the Design Consultant, terminate the Contract and recover from the Owner payment for Work executed, including reasonable overhead and profit, costs incurred by reason of such termination, and damages.

§ 20.2 TERMINATION BY THE OWNER FOR CAUSE

§ 20.2.1 The Owner may terminate the Contract if the Contractor

- .1 repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- .2 fails to make payment to Subcontractors for materials or labor in accordance with the respective agreements between the Contractor and the Subcontractors;
- .3 repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations or lawful orders of a public authority; or
- .4 otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 20.2.2 When any of the above reasons exists, the Owner, upon certification by the Design Consultant or OPM that sufficient cause exists to justify such action, may, without prejudice to any other remedy the Owner may have and after giving the Contractor seven days' written notice, terminate the Contract and take possession of the site and of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor and may finish the Work by whatever reasonable method the Owner may deem expedient. Upon request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 20.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 20.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 20.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Design Consultant & OPM's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or

Owner, as the case may be, shall be certified by the Design Consultant, upon application, and this obligation for payment shall survive termination of the Contract.

§ 20.3 TERMINATION BY THE OWNER FOR CONVENIENCE

The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause. The Contractor shall be entitled to receive payment for Work executed, and costs incurred by reason of such termination, along with reasonable overhead and profit on the Work not executed.

ARTICLE 21 CLAIMS AND DISPUTES

§ 21.1 Claims, disputes and other matters in question arising out of or relating to this Contract, including those alleging an error or omission by the Design Consultant but excluding those arising under Section 16.2, shall be referred initially to the Design Consultant & OPM for decision. Such matters, except those waived as provided for in Section 21.8 and Sections 15.5.3 and 15.5.4, shall, after initial decision by the Design Consultant or OPM or 30 days after submission of the matter to the Design Consultant or OPM, be subject to mediation as a condition precedent to binding dispute resolution.

§ 21.2 If a claim, dispute or other matter in question relates to or is the subject of a mechanic's lien, the party asserting such matter may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 21.3 The parties shall endeavor to resolve their disputes by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with their Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to this Agreement, and filed with the person or entity administering the mediation. The request may be made concurrently with the binding dispute resolution but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 21.4 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any claim, subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association, in accordance with the Construction Industry Arbitration Rules in effect on the date of this Agreement. Demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 21.5 Either party, at its sole discretion, may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation; (2) the arbitrations to be consolidated substantially involve common questions of law or fact; and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 21.6 Any party to an arbitration may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of a Claim not described in the written Consent.

§ 21.7 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

§ 21.8 CLAIMS FOR CONSEQUENTIAL DAMAGES

The Contractor and Owner waive claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

- .1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and
- .2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 20. Nothing contained in this Section 21.8 shall be deemed to preclude an award of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

This Agreement entered into as of the day and year first written above.

OWNER *(Signature)*

Town of Seabrook, NH
(Printed name and title)

CONTRACTOR *(Signature)*

(Printed name and title)

RECREATION BUILDING SKYLIGHT REPLACEMENT PROJECT FOR TOWN OF SEABROOK

SHEET INDEX

COVER SHEET

STRUCTURAL

NONE ISSUED

ARCHITECTURAL

A1 ROOF PLAN

A2 DETAILS

CODE REQUIREMENTS:

2009 INTERNATIONAL BUILDING CODE (IBC)



311 LAFAYETTE RD.
SEABROOK, NEW HAMPSHIRE

ISSUED FOR BID & CONSTRUCTION

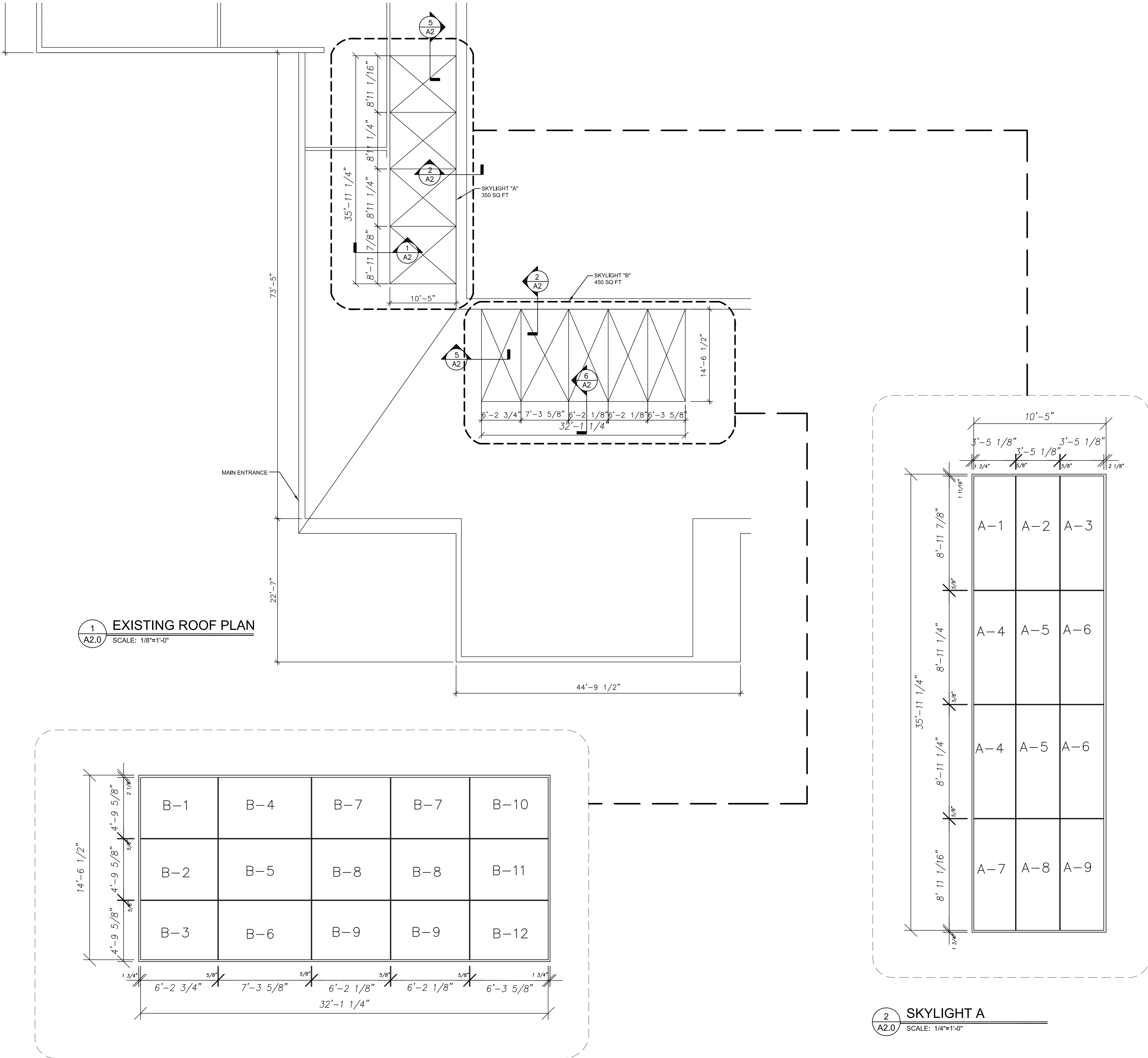
OCTOBER 7, 2015



THE H.L. TURNER GROUP Inc.

27 LOCKE RD. CONCORD NH 03301 (603) 228-1122
ARCHITECTS • CONSTRUCTION MANAGERS • ENGINEERS • BUILDING SCIENTISTS

TTG PROJECT NO. 4306



- PROJECT NOTES:
1. TOWN OF SEABROOK TO HAVE FIRST RIGHT OF REFUSAL ON DEMOLISHED ITEMS.
 2. COORDINATE ALL ITEMS WHICH WILL CREATE DUST, NOISE AND ODORS WITH THE TOWN OF SEABROOK PRIOR TO CONSTRUCTION.
 3. MAINTAIN A CLEAN AND SAFE CONSTRUCTION SITE AT ALL TIMES.
 4. COORDINATE SITE ACCESS, LOCATION OF DUMPSTERS AND HAULING OF DEBRIS WITH THE TOWN OF SEABROOK PRIOR TO CONSTRUCTION.
 5. CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS FOR THE DURATION OF THE PROJECT.
 6. COMPLY WITH ALL TOWN OF SEABROOK PROCUREMENT AND SAFETY REQUIREMENTS FOR THE ENTIRE DURATION OF THE PROJECT.
 7. PRIOR TO BIDDING AND COMMENCING WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS IN THE FIELD.
 8. DIMENSIONS INDICATED ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING A BID.
 9. ALL NAILS THAT CONTACT SHEETMETAL SHALL BE RING SHANKED STAINLESS STEEL.
 10. DEMOLITION TO OCCUR ONLY WHEN WEATHER CONDITIONS ARE FAVORABLE. THE EXISTING BUILDING AND ALL COMPONENTS AND FURNISHINGS ARE TO BE KEPT DRY AT ALL TIMES.
 11. COVER ALL LANDSCAPING, PLANTINGS, LAWNS, ETC. DURING ALL CONSTRUCTION OPERATIONS.

- GENERAL NOTES:
1. ALL INFORMATION SHOWN ON THIS DRAWING ACQUIRED FROM EXISTING FILE INFORMATION AVAILABLE FROM THE TOWN OF SEABROOK DRAWING ARCHIVES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL INFORMATION PRIOR TO BID AND CONSTRUCTION.
 2. CONTACT THE TOWN OF SEABROOK FOR ACCESS TO THE BUILDING PRIOR TO BIDDING.
 3. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL GUIDELINES AND REQUIREMENTS.
 4. CONTRACTOR RESPONSIBLE FOR ALL LABOR, MATERIALS, TAXES, FEES, PERMITS, DISPOSAL, FREIGHT CHARGES, ETC. ALL AS NECESSARY TO PROVIDE A COMPLETELY WATERTIGHT ROOFING SYSTEM.
 5. CONTRACTOR TO PROVIDE MANUFACTURER'S STANDARD LIFETIME LIMITED, TRANSFERABLE WARRANTY AGAINST MANUFACTURING DEFECTS ALONG WITH ALL OTHER AVAILABLE WARRANTY'S FOR WIND RESISTENCE, STREAKING, ETC.
 6. CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THEIR OPERATIONS WHILE ON SITE. ALL DAMAGE TO BE REPAIRED TO THE SATISFACTION OF THE TOWN OF SEABROOK AND ARCHITECT/ENGINEER PRIOR TO FINAL COMPLETION AND PAYMENT.

- DEMOLITION NOTES:
1. ALL DEMOLITION DIMENSIONS INDICATED ARE PLUS OR MINUS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO BID SUBMISSION AND CONSTRUCTION.
 2. DEMOLITION FOR THIS PROJECT IS INDICATED, BUT NOT LIMITED TO WHAT IS SHOWN ON THIS DRAWING, ANY ADDITIONAL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE CONSTRUCTION IS A REQUIREMENT OF THIS CONTRACT.
 3. ANY EXISTING COMPONENTS, WHICH INTERFERE WITH PROPOSED WORK SHALL BE REMOVED AND REINSTALLED AS REQUIRED.
 4. DEMOLITION AND CONSTRUCTION AREAS SHALL BE BARRICADED AS NECESSARY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. DUST CONTROL SYSTEMS SHALL BE IN EFFECT AND AS NECESSARY TO CONTROL DUST ON THIS PROJECT UNLESS NOTED OTHERWISE.
 5. PROVIDE ALL LIFTS, SHORING AND BRACING, ETC. AS REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND ROOFTOP SYSTEMS DURING CONSTRUCTION.
 6. THE CONTRACTOR SHALL PROPERLY PROTECT THE MAIN ENTRANCE TO THE RECREATION BUILDING TO ALLOW FOR SAFE PUBLIC ACCESS AT ALL TIMES.

- SCOPE OF WORK:
1. REMOVE SKYLIGHT UNITS A & B ALONG WITH ALL ASSOCIATED FLASHING, COPINGS, SEALANTS, ETC. AND REPLACE WITH NEW TRANSLUCENT SKYLIGHT PANELS INCLUDING NEW BLOCKING WHERE REQUIRED AND FLASHING , COPINGS, COUNTERFLASHING, ETC.

TURNER
GROUP

THE H.L. TURNER GROUP Inc.

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ISSUED FOR

PROGRESS

95% SUBMISSION

PERMIT

BID

CONSTRUCTION

REVISIONS

PROJECT TITLE / ADDRESS
RECREATION BUILDING
SKYLIGHT
REPLACEMENT
PROJECT
311 LAFAYETTE RD
SEABROOK, NH

PROJ. NO.: 4306

SCALE: AS NOTED

DES. BY: PMB

DRAWN BY: KD

CHKD BY: PMB

ISSUE DATE: 10/07/15

SHEET TITLE

ROOF PLAN

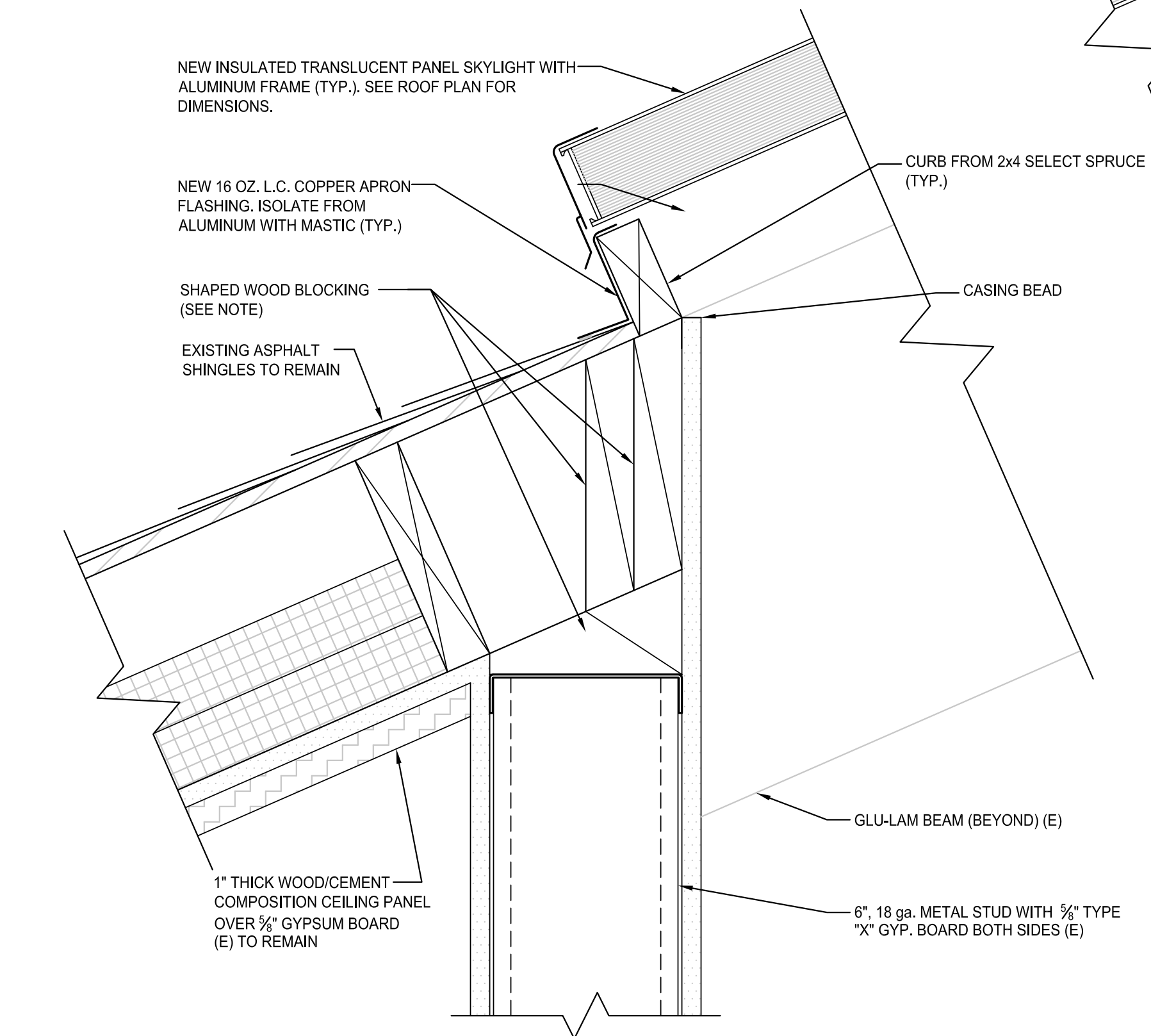
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DIRECTORY: 4306

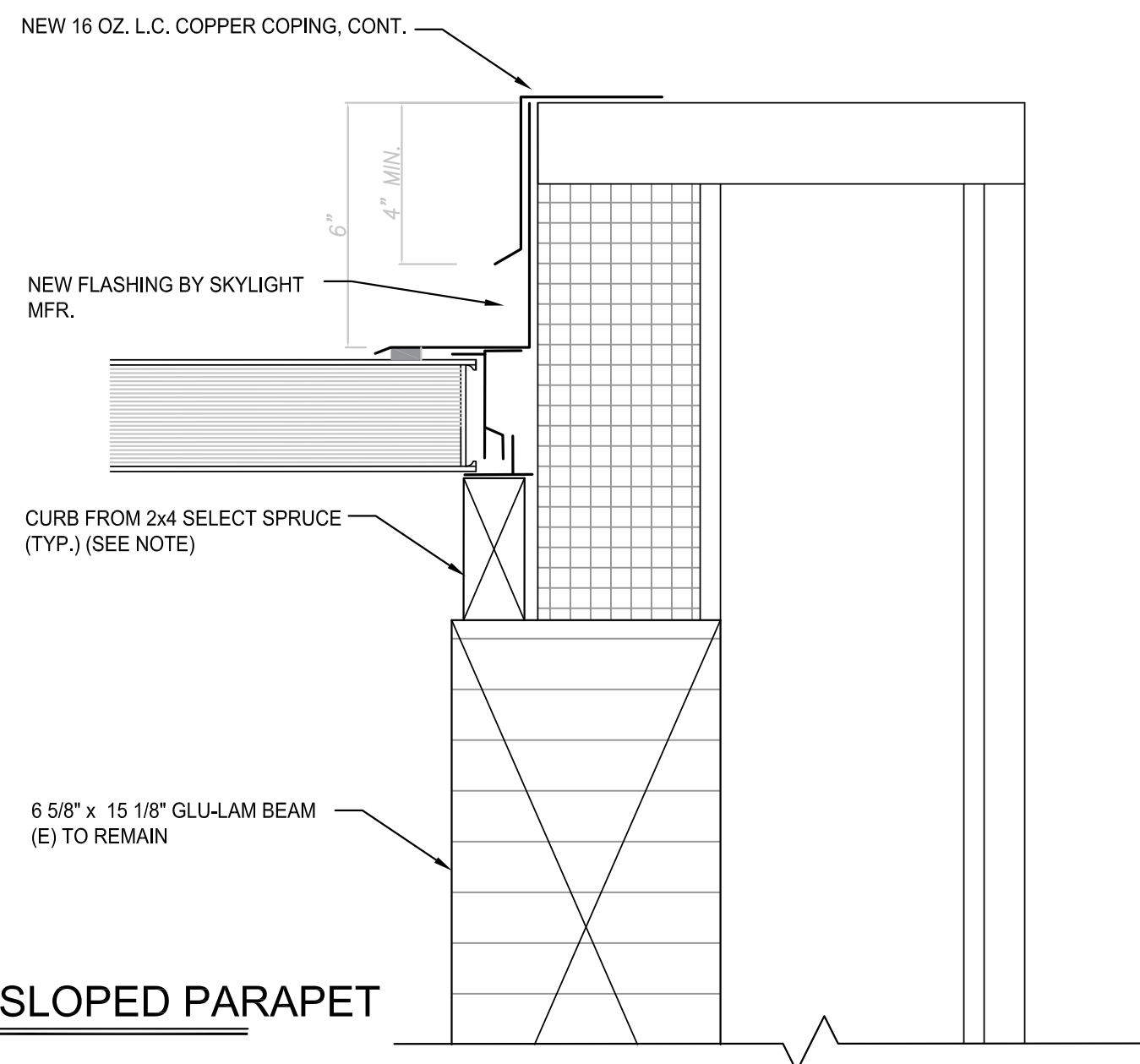
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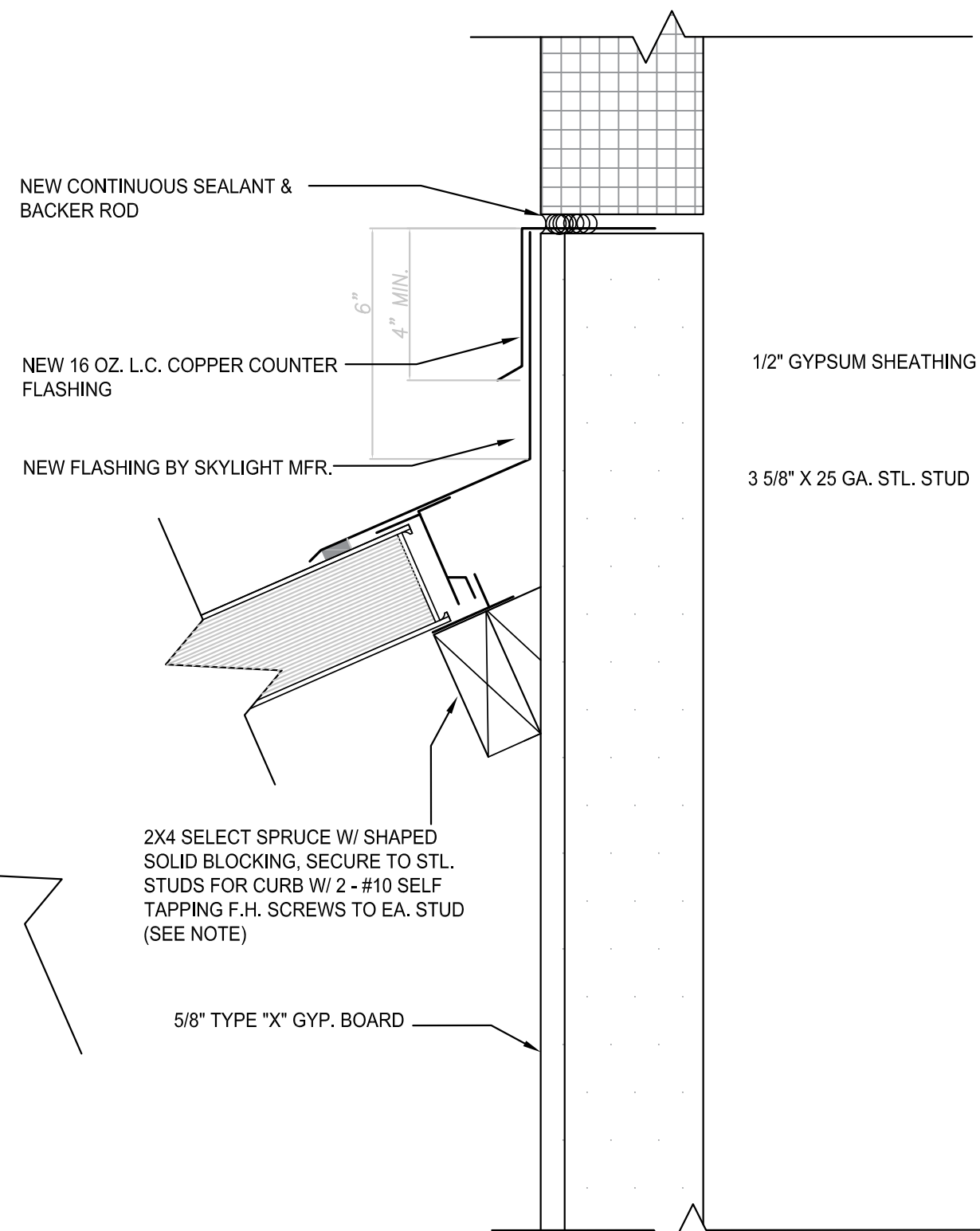
1. EXISTING SHINGLES- THE EXISTING SHINGLE ROOF SHALL REMAIN. IF IT IS NECESSARY TO REMOVE A PORTION OF THE INDIVIDUAL SHINGLES IN ORDER TO INSTALL THE NEW SKYLIGHTS, THE CONTRACTOR SHALL REPLACE THE SHINGLES IN KIND AND COLOR.
2. EXISTING BLOCKING & SUPPORT CURBS- IT IS THE INTENT THAT ALL EXISTING SPRUCE BLOCKING AND CURBS ARE TO REMAIN. IN THE EVENT THAT THE EXISTING CURBING IS UNSUITABLE FOR REUSE OR BECOMES DAMAGED DURING THE DEMOLITION AND IS NOT SUITABLE FOR REUSE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT. THE CONTRACTOR SHALL REPLACE CURBING AND BLOCKING WITH LIKE TYPE AND QUALITY MATERIAL. THE ARCHITECT SHALL APPROVE ALL NEW CURBING AND BLOCKING MATERIALS PRIOR TO THEIR INSTALLATION.



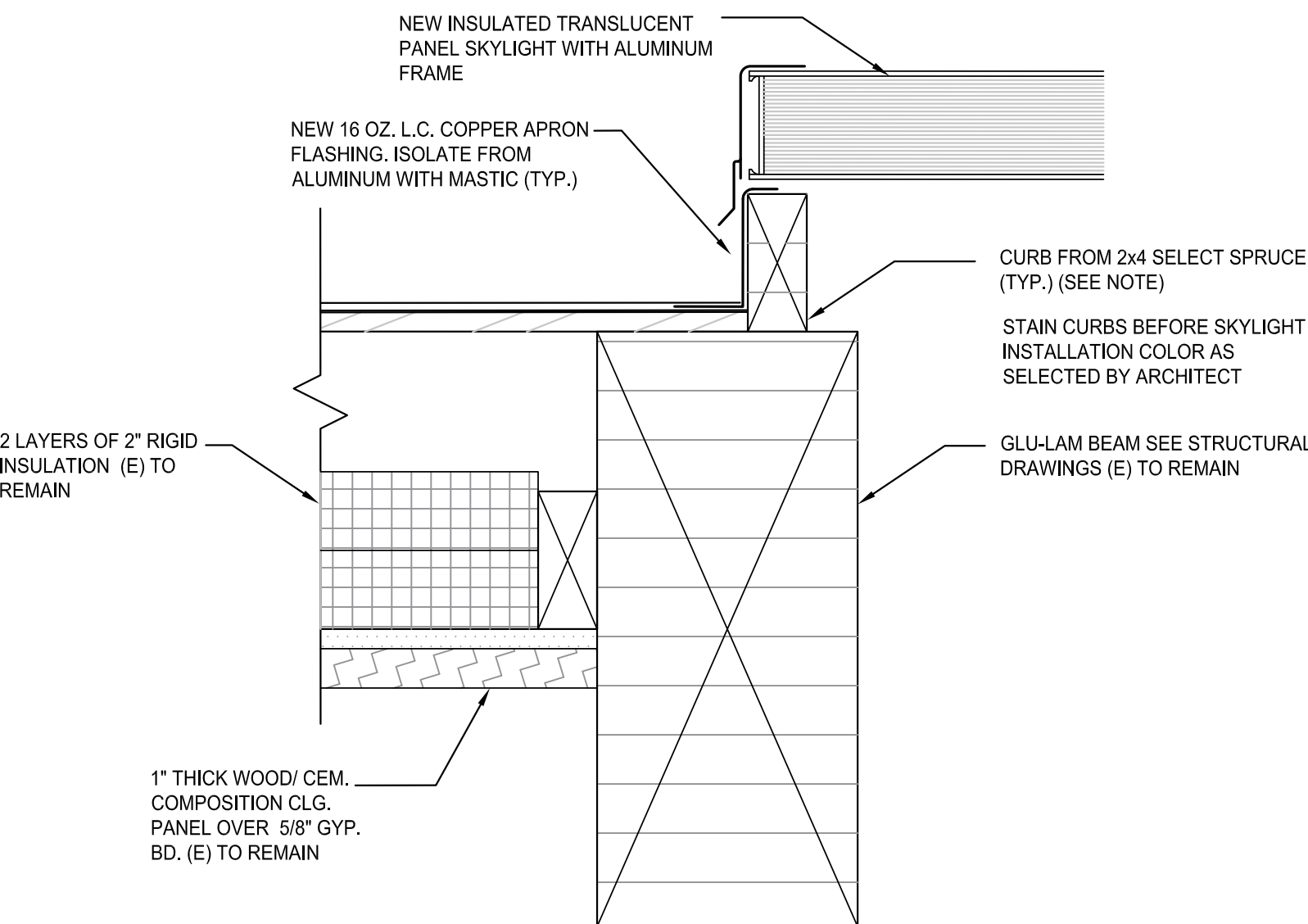
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A2.0 SKYLIGHT EAVE AT WALL
SCALE: 3"=1'-0"



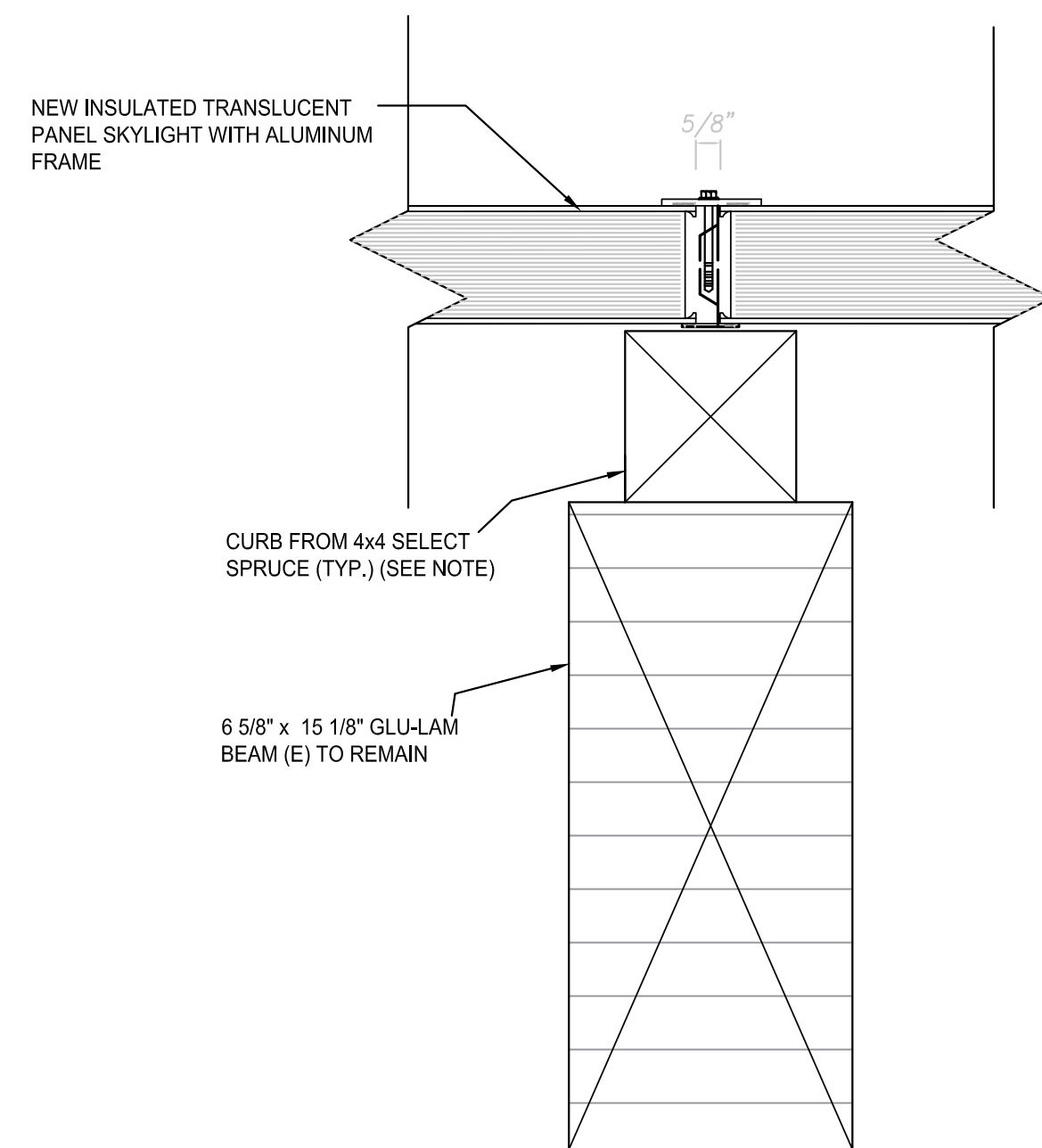
4
A2.0 SKYLIGHT @ SLOPED PARAPET
SCALE: 3"=1'-0"



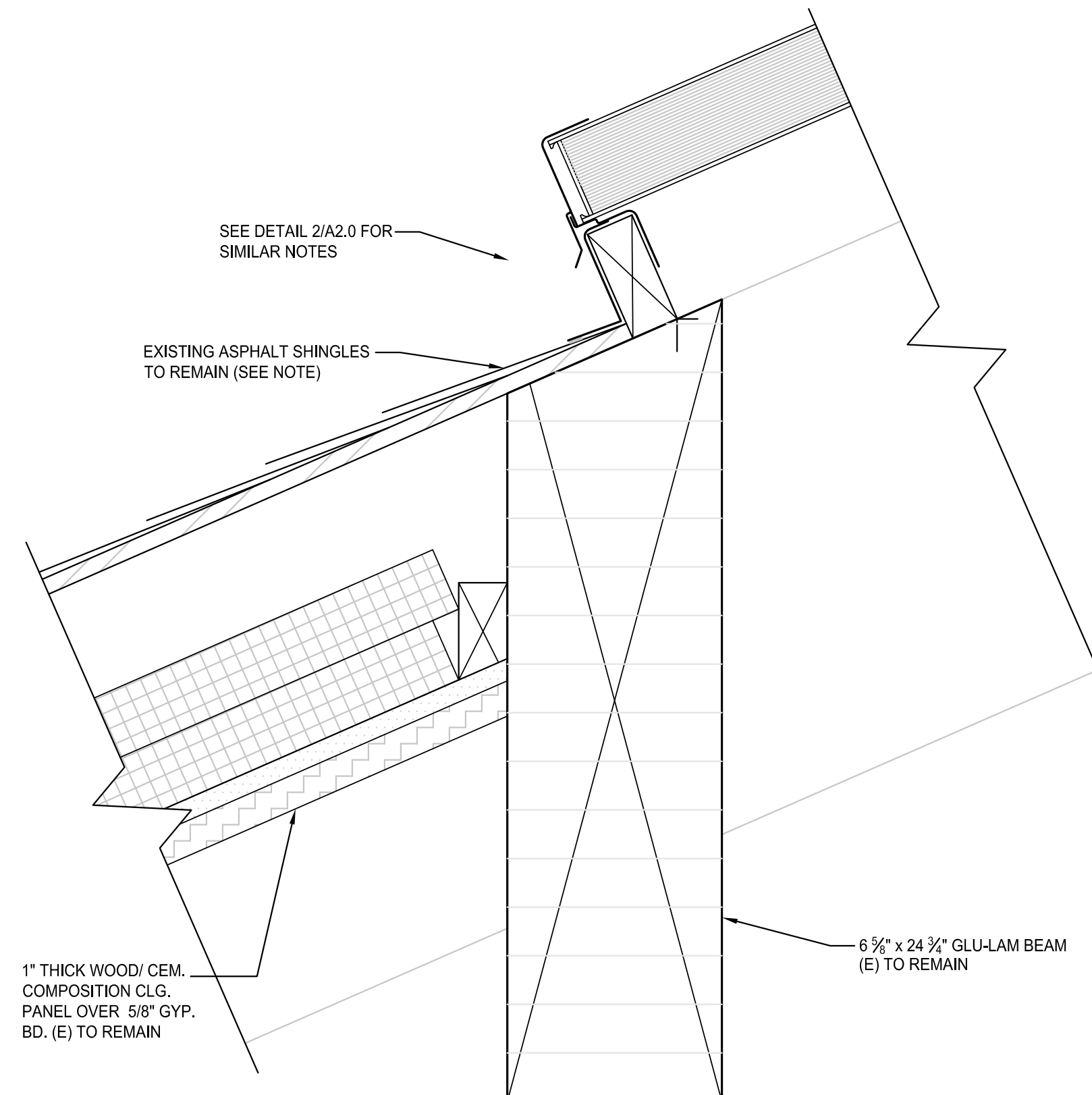
2
A2.0 SKYLIGHT PEAK AT WALL
SCALE: 3"=1'-0"



5
A2.0 SKYLIGHT RAKE
SCALE: 3"=1'-0"



3
A2.0 MID-SPAN SUPPORT
SCALE: 3"=1'-0"



6
A2.0 SKYLIGHT EAVE AT BEAM
SCALE: 3"=1'-0"

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SHEET TITLE

SKYLIGHT DETAILS

A2

DIRECTORY: 4306

FILE NAME: