

City of Syracuse Zoning Administration

Application for SPECIAL PERMIT Review by the Planning Commission

City Hall Commons * Room 101 * 201 E. Washington Street * Syracuse, NY 13202-1426 * 315-448-8640

For Office Use: Filing Date: Case Number: Zoning District:

NEW SPECIAL PERMIT MODIFICATION OF EXISTING SPECIAL PERMIT

LIST ALL ADDRESSES INVOLVED IN YOUR PROJECT:

TAX MAP SECTION, BLOCK, and LOT information from Assessment Department (call 448-8280)

Section: Block: Lot:
Section: Block: Lot:
Section: Block: Lot:

This APPLICATION is for a:

- Restaurant (this also includes uses such as Bars, Taverns, Coffee Shops, Night Clubs)
- Gasoline Service Station
- Car Wash Facility
- Care Home
- Parking Lot or Parking Garage
- Transitional Parking Area
- Offices of Religious and Educational Institutions
- Bed and Breakfast
- Other Special Permit Uses (describe)

PLEASE DESCRIBE ALL ASPECTS OF YOUR PROJECT IN DETAIL:

The subject property has been used by the applicant since the purchase of the property in 1974 as a care home. There are presently two employees at the residence which is staffed 24 hours on a daily basis. Generally, there are on average 14 occupants at the residence. The purpose presently is to provide supportive living to persons in recovery. This residence along with an adjoining property located at 121 Green Street is certified by the NYS Office of Addiction Services and Supports (OASAS) for the services provided. This premise since its present use in 1974 has applied for and obtained from the City of Syracuse numerous building permits. In addition, the City of Syracuse Department of Assesment has designated the premise designated as a "Health Building."
See attached additional narrative regarding the present proposed project

PROPERTY OWNER INFORMATION:

Name(s):
Mailing Address:
Zip: Daytime phone: Home phone:
E-mail:

APPLICANT INFORMATION:

(Copy of contract to purchase must be included with application)

Contract Purchaser(s) Tenant Co-Applicant x Other (please state):

Name(s):

Mailing Address:

Zip: Home phone: Day Phone:

E-mail:

REPRESENTATIVE INFORMATION:

(Only if involved in this application)

Attorney Architect Contractor Other

Name(s):

Mailing Address:

Zip: Telephone: E-mail:

DESCRIPTION OF OPERATION:

Days of week open:

Hours of operation:

Maximum number of employees on premises at one time:

Number of off-street parking available (site plan required to indicate location):

Other uses currently on the property: FIRST FLOOR:

SECOND FLOOR: OTHER FLOORS:

Indicate types and uses of other structures on the property if any (i.e. garage, storage building, etc.):

SIGNAGE INFORMATION: Not Applicable

Size and location of all existing AND proposed signage (use additional sheet if necessary)

A sign plan is required, see attachment (Wall, Ground, Projecting, Window)

Size	<input type="text"/>	Location	<input type="text"/>	Type	<input type="text"/>
Size	<input type="text"/>	Location	<input type="text"/>	Type	<input type="text"/>
Size	<input type="text"/>	Location	<input type="text"/>	Type	<input type="text"/>

SPECIAL PERMIT FUNCTIONS: (Check all that apply)

- Dining room Bar Service Drive-thru
- Entertainment Stage DJ Booth
- Light Duty auto repair Heavy Duty auto repair
- Car Wash Facility New Auto Sales Used Auto Sales

Has owner obtained or applied for a Certificate of Use: Yes No

FEB 19 2020

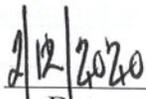
DECLARATION:

I understand that false statements made herein are punishable as a Class A Misdemeanor, pursuant to section 210.45 of the Penal Law of the State of New York. I declare that, subject to the penalties of perjury, any statements made on this application and any attachments are the truth and to the best of my knowledge correct.

I also understand that any false statements and/or attachments presented knowingly in connection with this application will be considered null and void.



Signature of CURRENT PROPERTY OWNER
(or owner's LEGAL representative)



Date

Helio Health, Inc.

PRINT NAME OF PROPERTY OWNER

***Please note that if referrals are necessary for this application,
additional copies of all required materials will be requested.**

FOR STAFF USE ONLY

REFERRAL NEEDED

- ONONDAGA COUNTY PLANNING BOARD
- SYRACUSE LANDMARK PRESERVATION BOARD (This project is located within _____ Historic District; is listed individually in the National Register of Historic Places; is Eligible for inclusion in the National Register of Historic Places; or is architecturally significant).
- OTHER CITY/COUNTY/STATE AGENCY OR DEPARTMENT(S) _____



ADDENDUM TO APPLICATION FOR SPECIAL PERMIT REVIEW (CARE HOME)-HELIO HEALTH, INC.

The project proposed for 125 Green Street to further the present use of the property as a care home is as follows:

Removal of the existing garage located at the rear of the property, and replace with a new garage structure, as well as other general property improvements.

617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information			
Name of Action or Project: Rebuilding of detached garage			
Project Location (describe, and attach a location map): 125 Green Street, Syracuse, NY			
Brief Description of Proposed Action: The removal of the existing garage and replacement with new garage structure. In addition, application for special permit for the use of the property as a "care home," which confirms the use of said property since 1974 by the applicant (see special permit application description page 1).			
Name of Applicant or Sponsor: Helio Health, Inc.		Telephone: 315-474-5500 X 223	
		E-Mail:	
Address: 555 East Genesee Street			
City/PO: Syracuse		State: NY	Zip Code: 13202
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:			NO <input type="checkbox"/>
			YES <input type="checkbox"/>
3.a. Total acreage of the site of the proposed action?		_____ .2 acres	
b. Total acreage to be physically disturbed?		_____ .05 acres	
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?		_____ .5 acres	
4. Check all land uses that occur on, adjoining and near the proposed action.			
<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential (suburban)			
<input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input type="checkbox"/> Other (specify): _____			
<input type="checkbox"/> Parkland			

	NO	YES	N/A
5. Is the proposed action, a. A permitted use under the zoning regulations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Are public transportation service(s) available at or near the site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: Not applicable--rebuild of unheated garage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Is the proposed action located in an archeological sensitive area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: <input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input type="checkbox"/> Suburban			
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100 year flood plain?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? <input type="checkbox"/> NO <input type="checkbox"/> YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size: _____	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE		
Applicant/sponsor name: <u>Jeremy E. Klemanski for Helio Health</u> Date: <u>2/12/2020</u>		
Signature: <u>[Signature]</u>		

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?	<input type="checkbox"/>	<input type="checkbox"/>
2. Will the proposed action result in a change in the use or intensity of use of land?	<input type="checkbox"/>	<input type="checkbox"/>
3. Will the proposed action impair the character or quality of the existing community?	<input type="checkbox"/>	<input type="checkbox"/>
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?	<input type="checkbox"/>	<input type="checkbox"/>
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will the proposed action impact existing:	<input type="checkbox"/>	<input type="checkbox"/>
a. public / private water supplies?	<input type="checkbox"/>	<input type="checkbox"/>
b. public / private wastewater treatment utilities?	<input type="checkbox"/>	<input type="checkbox"/>
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?	<input type="checkbox"/>	<input type="checkbox"/>
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?	<input type="checkbox"/>	<input type="checkbox"/>

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	<input type="checkbox"/>	<input type="checkbox"/>
11. Will the proposed action create a hazard to environmental resources or human health?	<input type="checkbox"/>	<input type="checkbox"/>

Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.
<input type="checkbox"/>	Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.
_____	_____
Name of Lead Agency	Date
_____	_____
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
_____	_____
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PRINT

February 19, 2020

HAND DELIVERY

JEFFREY HARROP
OFFICE OF ZONING ADMINISTRATION
201 East Washington Street, Room 500
Syracuse, New York 13202

Re: Helio Health, Inc. / 125 Green Street Project

Dear Mr. Harrop:

This law firm represents Helio Health, Inc. with reference to the above captioned project. In that regard, I enclose herewith the following:

- Special Permit Application
- Short Environmental Assessment Form
- Property Survey Map
- Site Plans & Floor Plans – Three (3) full sized, one (1) 11x17

The purpose of this project is to remove the existing garage on the property and replace it with a new garage. The property has been utilized by the applicant continuously since 1974 for the same or similar purpose as it is used today, which use comports with the definition of a care home. The applicant, Helio Health, Inc., (formerly known as Syracuse Brick House, Inc.) has applied for and received numerous building permits for this property over the past forty (40) plus years.

Our request at this time is for this special permit application to be “fast tracked” and to be considered for an “automatic special permit review” based on the historical use as well as the preexisting use of the property, versus awaiting a full Planning Board review.

I look forward to hearing from you regarding the above matter. If you need anything further or have any questions in the interim, please feel free to contact the undersigned at any time.

February 19, 2020
Page Two

Thank you, for our courtesy in this matter.

Very truly yours,

NEWMAN & LICKSTEIN



SCOTT A. LICKSTEIN

SAL:mk
Enc.

cc: Helio Health, Inc. via Email





125 Green Street - Exterior Finishes @ Proposed Garage

SIDING/TRIM - fiber cement board (see spec: 06 2000 Finish Carpentry)

SHINGLES – Certainteed Landmark Series, Class A (see spec: 07 3100 Asphalt Shingle Roof System)

FASCIA - fiber cement board (see spec: 06 2000 Finish Carpentry)

SOFFIT – plywood painted to match fiber cement board (see spec: 06 1000 Rough Carpentry)

DOOR (OVERHEAD) – steel (see drawings: A-101 door schedule & A-401 exterior elevations)

DOOR (MANDOOR) - fiberglass (see spec: 08 4523 Fiberglass Doors)

WINDOW – Pella Impervia Fiberglass Single-Hung (see drawing: A-101, window schedule)

SECTION 06 1000 - ROUGH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. Work supplied and installed:
 - a. ROUGH CARPENTRY:
 - 1) Plates.
 - 2) BLOCKING:
 - a) Wood.
 - b) Plywood.
 - 3) Rough bucks.
 - 4) Nailing strips.
 - 5) Studs.
 - 6) Headers.
 - 7) Rafters.
 - 8) Composite joists.
 - 9) Joists.
 - 10) Beams.
 - b. Preservative treatment.
 - c. Sheathing.
 - d. Plywood.
 - e. ROUGH HARDWARE REQUIRED TO COMPLETE WORK OF THIS SECTION AND THE SECTION BELOW:
 - 1) Nails.
 - 2) Screws.
 - 3) Bolts.
 - 4) Fastening devices.
 - 5) SECTION 06200: FINISH CARPENTRY
2. Information included but described elsewhere:
 - a. Drawings.
 - b. SECTION 00 8000: SUPPLEMENTARY CONDITIONS.
 - c. SECTION 00 8210: ADDITIONAL ARTICLES.
 - d. DIVISION 1: GENERAL REQUIREMENTS.

1.02 SUBMITTALS

- A. Submit complete information on materials to be supplied and/or installed under this section.
- B. Submit the following in accordance with the GENERAL CONDITIONS and SECTION 01 3400: SUBMITTALS:
 1. CERTIFICATION:
 - a. WOOD PRESERVATIVE TREATMENT:
 - 1) By treating plant.
 - 2) Type of preservative solution.
 - 3) Pressure process used.
 - 4) Net amount of preservative retained.
 - 5) Conformance with applicable standards.
 - b. Certificates signed by an officer of the composite joist manufacturing firm indicating that the joists being provided for the project comply with the indicated requirements.

1.03 QUALITY ASSURANCE

A. REGULATORY REQUIREMENTS:

1. See SECTION 01 0600: REGULATORY REQUIREMENTS for applicable standards/abbreviations.

B. STANDARDS:

1. Comply with provisions of the current edition of the following, except where more stringent requirements are shown, specified or apply.
 - a. Architectural Woodwork Institute (AWI).
 - b. American Plywood Association (APA).
 - c. Federal, State and local ordinances.
 - d. American Society for Testing and Materials (ASTM).
 - e. National Forest Product Association (NFPA).
 - f. West Coast Lumber Inspection Bureau (WCLIB).
 - g. Western Wood Products Association (WWPA).
 - h. Southern Pine Inspection Bureau (SPIB).
 - i. Northeastern Lumber Manufacturer's Association, Inc. (NELMA).
 - j. PLYWOOD:
 - 1) U.S. Product Standard PS 1.
 - 2) APA PRP-108.
 - k. GLUE: APA AFG-01.

PART 2 PRODUCTS

2.01 MANUFACTURERS:

- A. Subject to compliance with requirements, supply products from the following:
1. PRESERVATIVE TREATMENT:
 - a. Wood Preserving Company.
 - b. Osmose.
 - c. Wolmanized.
 - d. Cuprinol.
 - e. Presstreat.
 - f. Approved equal.
 2. ADHESIVE:
 - a. Amspec Inc.
 - b. Georgia-Pacific.
 - c. Approved equal.

2.01 MATERIALS

- A. LUMBER GRADINGS: American Lumber Standards, Simplified Practice R-16, latest edition.
- B. SEASONING: Framing lumber shall be kiln dried and well seasoned with a maximum moisture content of 19% and stamped "dry".
- C. FRAMING LUMBER:
1. As graded by West Coast Inspection Bureau.
 2. "No. 2 - West Coast Douglas Fir SFS".
 3. With 19% maximum moisture content allowed.
 4. Must be grade stamped.
- D. LUMBER, BLOCKING, AND GROUNDS:
1. Western Douglas Fir.
 2. #2 Hemlock.
 3. Eastern Spruce No. 1.
- E. WOOD PRESERVING TREATMENT:
1. Clean, paintable, guaranteed non-bleeding.
 2. As manufactured by Cuprinol Co., or approved equal.
 3. APPLY TO THE FOLLOWING WOOD MATERIALS:
 - a. Copings.
 - b. Blocking around roof openings.

- c. Wood members in contact with concrete slabs or grade.

F. PLYWOOD:

- 1. GENERAL:
 - a. Conform to and stamp each panel with the DFPA grade - trademark of the American Plywood Association and the U.S. Product Standard PSI-66.
 - b. Provide exterior exposure durability classification for all panels which have any edge or surface permanently exposed to the weather.
- 2. ROOF SHEATHING:
 - a. GRADE: APA rated sheathing.
 - b. EXPOSURE DURABILITY CLASSIFICATION: Exposure 1 (CDX).
 - c. SPAN RATING: 32/16.
 - d. THICKNESS: 5/8" (five-ply minimum).
 - e. EDGES: Factory sealed for exterior use.
 - f. SPECIES CLASSIFICATION: Group 1 or 2.
- 3. WALL SHEATHING:
 - a. GRADE: APA C-D Plugged.
 - b. EXPOSURE DURABILITY CLASSIFICATION: Exposure 1 (CDX).
 - c. THICKNESS: 1/2".
 - d. EDGES: Factory sealed for exterior use.
 - e. SPECIES CLASSIFICATION: Group 2.
- 4. SUBFLOORING:
 - a. GRADE: APA rated sheathing.
 - b. EXPOSURE DURABILITY CLASSIFICATION: Exposure 1 (CDX).
 - c. SPAN RATING: 32/16.
 - d. THICKNESS: 5/8" (five-ply minimum).
 - e. EDGES:
 - 1) Tongue and grooved along long dimensions.
 - 2) Factory sealed for exterior use.
 - f. SPECIES CLASSIFICATION: Group 1 or 2.
- 5. UNDERLAYMENT:
 - a. GRADE: APA underlayment.
 - b. EXPOSURE DURABILITY CLASSIFICATION: Exposure 1 (CDX).
 - c. THICKNESS: 1/2" (five-ply minimum).
 - d. SPECIES CLASSIFICATION: Group 1 or 2.
 - e. FINISH:
 - 1) RESILIENT VINYL TILE AND SHEET VINYL: Touch sanded.
 - 2) ALL OTHERS: "Sanded face".
- 6. TREATED PLYWOOD:
 - a. PRESERVATIVE-TREATED PLYWOOD:
 - 1) PRESSURE-TREATMENT: Comply with AWPA C9.
 - 2) EXPOSURE: Above ground.
 - 3) Dry plywood treated with waterborne preservatives after treatment to moisture content of eighteen (18) percent or less.
 - 4) PLYWOOD: All-veneer APA rated sheathing.
 - a) EXPOSURE DURABILITY CLASSIFICATION: Exterior.
 - b) SPECIES: Group 1 or 2.
 - 5) SPAN RATING: 32/16.

G. ADHESIVE:

- 1. Multi-purpose construction adhesive.
- 2. Use solvent-based glues for non-veneer panels with sealed surfaces and edges.

H. ROUGH HARDWARE:

- 1. AS REQUIRED FOR PROPER EXECUTION OF THIS SECTION, I.E.:
 - a. Nails.
 - b. Bolts.
 - c. Screws.
 - d. Power actuated fasteners.

- e. Etc.
- I. BUILDING PAPER:
 - 1. TYPE: Asphalt-impregnated felt.
 - 2. WEIGHT:
 - a. WALLS: 15 pounds per square.
 - b. ROOFS: 30 pounds per square.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. INSPECT: Surfaces to receive work of this section.
- B. ACCEPTANCE: Proceeding with installation shall imply acceptance of conditions in areas of work and any subsequent adjustments necessary will be the responsibility of this Contractor.

3.02 APPLICATION

- A. TREATED LUMBER:
 - 1. DECAY AND ROT TREATMENT:
 - a. Immersed in Cuprinol for at least 30 minutes before delivery or immediately upon arrival at the site.
 - b. Brush all ends, cuts and fittings liberally with Cuprinol before erection.

3.03 INSTALLATION

- A. FURRING AND BLOCKING:
 - 1. Install furring and blocking where required for attachment of materials furnished by others including panels and grilles.
 - 2. GROUNDS: Securely fasten straight, plumb, true to line and accurate in dimension.
 - 3. COPING AND BLOCKING: As detailed.
- B. TEMPORARY ENCLOSURES:
 - 1. TEMPORARY PARTITIONS AND SAFETY RAILINGS:
 - a. As required for the protection of the building and working personnel.
 - b. Weather, water and dust tight.
 - 2. TEMPORARY ENCLOSURES:
 - a. As may be required for dust protection and other problems of security.
 - b. Construct of wood, plywood, canvas, reinforced polyethylene sheets, etc.
 - c. Provide door access to enclosed areas with approved methods of securing the area.
 - 3. Comply with all applicable laws, codes and insurance requirements.
- C. FRAMING:
 - 1. DIMENSIONAL LUMBER FRAMING MEMBERS: Of nominal size and spacing as shown on drawings.
 - 2. COMPOSITE JOIST FRAMING MEMBERS:
 - a. Size and spacing as shown on drawings and as required by manufacturer to support specified loads and deflection requirements.
 - b. Erect joists as recommended by the manufacturer's standard installation guide to maintain product warranties. Pay strict attention to all requirements including, but not limited to, cutting, drilling, blocking, and bridging.
 - 3. Securely fasten all framing members, blocking and furring to structures to obtain rigid, secure work.
 - 4. Use concrete (square, cut, tempered) nails, anchor shields and/or powder charge assisted anchors in masonry and/or concrete work.
 - 5. Bolting to steel, new concrete, and block work is the preferred method of fastening.
 - 6. Use sized nails for wood to wood connections.
 - 7. Cut square on bearings, closely fitted

8. Set accurately to required lines and levels and plumb.
9. Secure rigidly in place.
10. Nail members with 16d or 30d nails in accordance with NLMA's "Manual for House Framing".

D. GENERAL CARPENTRY:

1. Install all wood blocking, cants, furring and miscellaneous wood members required by the drawings, details and site conditions.
2. Provide all backing for cabinetry and mechanical trades, wood paneling and trim.
3. Install true, plumb, and level, securely fastened to structure.
4. ROUGH BUCKS:
 - a. Install rough bucks at all openings furnished with wood frames.
 - b. Anchor securely with not less than three approved type anchors in each jamb.
 - c. Install bucks for openings for mechanical equipment as grilles, registers, drinking fountains, etc., and where shown on drawings.
5. BLOCKING FOR SHEET METAL WORK:
 - a. Furnish and build in all blocking necessary for firm solid backing for all sheet metal work.
 - b. Sheet metal contractor will furnish templates as required.
 - c. Install blocking straight, level and true to line.
6. INSTALL ALL BLOCKING AND NAILERS IN STRUCTURAL STEEL MEMBERS SECURELY BOLTED TO STEEL:
 - a. Countersink bolts or nuts where other material is to be fastened to said nailers.
7. FASTENING: Securely attach carpentry work to substrate as shown and as required by recognized standards.

E. PLYWOOD:

1. GENERAL:
 - a. Seal cut edges in exterior applications before installation according to manufacturer's recommendations.
 - b. Install according to recommendations of the APA.
 - c. Comply with panel manufacturer's recommendations.
2. ROOF SHEATHING:
 - a. Install with the long dimension or strength axis of the panel across supports, except where noted.
 - b. Install with panel continuous over two or more spans.
 - c. Provide suitable edge support where indicated (or in recommendations of the APA by use of:
 - 1) Panel clips.
 - 2) Tongue-and-groove edges.
 - 3) Lumber blocking between joists.
 - d. PANEL END JOINT LOCATION: Occur over framing.
 - e. Allow 1/8" spacing at panel ends and edges, unless otherwise recommended by the panel manufacturer.
 - f. Nail 6" o.c. along supported panel edges.
 - g. Nail 12" o.c. at intermediate supports.
 - h. Except that when supports are spaced 48" o.c. or more, space nails 6" o.c. at all supports.
 - i. Use 6d common nails for panels 1/2" and less.
 - j. Use 8d for greater thicknesses.
 - k. When panels are 1 1/8", use 8d ring-shank or 10d common.
3. WALL SHEATHING:
 - a. Allow 1/8" spacing at panel ends and edges, unless otherwise recommended by the panel manufacturer.
 - b. Nail 6" o.c. along supported panel edges.
 - c. Nail 12" o.c. at intermediate supports.
 - d. Use 6d common nails for panels 1/2" and less.
 - e. Use 8d for greater thicknesses.
 - f. Diagonal bracing is not required.
 - g. Install panel end joints over framing.
 - h. Allow 1/16" minimum spacing at panel ends and edges unless otherwise recommended

- by panel manufacturer.
4. SUBFLOORING:
 - a. Install with the long dimension or strength axis of the panel across supports.
 - b. Install with panel continuous over two or more spans.
 - c. Install panel end joints over framing.
 - d. Nail 12" o.c. along supported panel edges.
 - e. Nail 12" o.c. at intermediate supports.
 - f. Use 8d common nails.
 - g. Stagger end joints by 1/2 panel length.
 - h. PANEL GLUING PROCEDURES:
 - 1) Snap a chalk line across joists four feet in from wall for panel edge alignment and as a boundary for spreading glue.
 - 2) Spread only enough glue to lay one or two panels at a time or follow specific recommendations of glue manufacturer.
 - 3) Wipe any mud, dirt or water from joists before gluing.
 - 4) Lay first panel with tongue side to wall and nail in place.
 - 5) Tap next panel into place with block and sledgehammer.
 - 6) Apply a continuous line of glue (about 1/4" diameter) to sill and framing members.
 - 7) Apply glue in a serpentine pattern on wide areas.
 - 8) Apply two lines of glue on joists where panel ends butt to assure proper gluing of each end.
 - 9) After first row of panels is in place, spread glue in groove of one or two panels at a time before laying next row.
 - 10) Glue line may be continuous or spaced, but avoid squeeze-out by applying a thinner line (1/8") than on joists.
 - 11) Tap second-row panels into place, using a block to protect groove edges.
 - 12) Stagger end joints in each succeeding row.
 - a) Leave 1/8" between all end joints.
 - b) Leave 1/8" at all edges, including T&G.
 - c) Use a spacer tool to assure accurate and consistent spacing.
 - 13) Complete all nailing of each panel before glue sets.
 - 14) Check the manufacturer's recommendations for allowable time.
 - a) Warm weather accelerates glue setting.
 - 15) Use 6d ring- or screw-shank nails for panels 3/4" thick or less.
 - 16) Use 8d ring- or screw-shank nails for thicker panels.
 5. UNDERLAYMENT (over subfloor):
 - a. Allow panels to equalize to atmospheric conditions before installation.
 - 1) Accomplish by standing individual panels on edge for at least 24 hours.
 - b. Install smooth side up just prior to laying finish floor and protect against damage until finish floor is laid.
 - c. Install with face grain across supports. Stagger panel end joints one-half panel length with respect to each other.
 - d. Stagger panel joints one-half panel width with respect to subfloor panel-joints below.
 - e. Stagger panel joints one-quarter panel length with respect to subfloor panel-joints below.
 - f. Nail 6" o.c. along panel edges.
 - g. Nail 8" o.c. each way throughout remainder of panel.
 - h. Use 3d ring-shank nails for thicknesses 1/2" or less.
 - i. Use 4d ring-shank nails for thicker panels up to 3/4".
 - j. FASTENER LENGTH: Approximately equal to total thickness of the underlayment and subfloor.
 - k. Space fasteners so as not to penetrate framing.
 - l. Begin fastening at one edge next to a preceding panel.
 - m. Assure that panel is uniformly flat.
 - n. Continue by fully fastening toward opposite edge.
 - o. When floor members are dry, make sure fasteners are flush with or below surface of Underlayment just prior to installation of thin floor coverings such as tile, or sheet vinyl.
 - p. Fill and thoroughly sand edge joints. Lightly sand any surface roughness, especially around fasteners.

- q. Fill any other damaged or open areas, such as splits, and sand all surface roughness.
- r. Do not fill nail holes.

F. CLEAN UP:

1. Clean up and dispose of all scraps, waste and other refuse which has accumulated as a result of the work of this section.
2. Remove soil, stain, and extraneous materials from exposed surfaces of items installed by this section.
3. Leave adjacent surfaces and areas of work clean and free of any soiling, debris, or damage caused by work of this section.

END OF SECTION 06 1000

SECTION 06 2000 - FINISH CARPENTRY

PART 1 - GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. Work supplied and installed:
 - a. Millwork
 - b. Miscellaneous wood trim
 - c. Cement fiberboard trim, panels, and brackets
2. Products installed but not supplied under this section:
 - a. **HARDWARE:** Supplied under SECTION 08 7100

1.02 SUBMITTALS

- A. See SECTION 01 3400
- B. Submit complete information on materials to be supplied or installed under this section.
- C. **SHOP DRAWINGS:**
 1. Millwork
 2. Custom casework
 3. Stock casework

1.03 QUALITY ASSURANCE

- A. See SECTION 01 0600
- B. **STANDARDS:** See SECTION 01 0600
 1. Quality standards of the Architectural Woodwork Industry apply and by reference are made a part of this specification.
 2. Millwork contractor shall be approved for all work covered by this section.
 3. **PARTICLE BOARD:**
 - a. ANSI A 208.1 - Industrial grade
 - b. ASTM D 1037
 - c. ANSI A 208.2 - (MDF)
 4. **PLASTIC LAMINATE:**
 - a. NEMA LQ1, LQ1-3.01 thru LQ1-3.11
 - b. NEMA LQ3 for vertical grade laminate
 - c. **ADHESIVE:** American National Standard Performance Standards for Fabricated High-pressure decorative laminate countertops ANSI A161.2
 - d. **FEDERAL SPECIFICATION:** LP508H
 5. **DOOR INSTALLATION:** SDI-105 "Recommended Erection Instructions for Steel Frames"

1.04 DELIVERY, STORAGE AND HANDLING:

- A. Refer to SECTION 01 6000 - MATERIALS AND EQUIPMENT
- B. Do not deliver materials, until painting, wet work, grinding and similar operations which could damage, soil or deteriorate woodwork have been completed in installation areas.
- C. Store materials above floor to allow air to circulate around material.
 1. Support properly to avoid warpage and twisting.
 2. Keep covered

1.05 JOB CONDITIONS

- A. **CONDITIONING:** Do not install finish carpentry until required temperature and relative humidity conditions have been stabilized and will be maintained in installation areas.

1.06 WARRANTY

- A. **PREMANUFACTURED CASEWORK:** Provide three year manufacturer's guarantee from date of substantial completion in addition to Contractor's guarantee described in GENERAL CONDITIONS.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. **DECORATIVE COLUMNS:**
1. Match existing shape and materials
 - 2.
- B. **CEMENT FIBER BOARD:**
1. James Hardie siding products
 2. Certainteed
 3. Approved equal

2.02 MATERIALS

- A. **MILLWORK:**
1. **VENEERS:** Thickness - "Commercial Standards"
 2. **BACKPRIMING:** Backprime before installing.
 3. **SPECIES:**
 - a. **PAINTED WOODWORK:**
 - 1) **HARD:** Clear Red Birch
 - 2) **SOFT:** White Pine
 - 3) Except as specifically noted otherwise
 - b. **TRANSPARENT WOODWORK (Interior Handrails, etc):**
 - 1) Select Appalachian Red Oak
 - 2) Except as specifically noted otherwise
- B. **PRE-MANUFACTURED CASEWORK:**
1. **WOOD-FACED:**
 - a. Oak veneer
 - b. **WOOD FINISHES:** To be selected from manufacturer's standard range
 2. **HARDWARE:**
 - a. **HINGES:** Fully concealed from view when doors in closed position
 - b. **PULLS:** Standard, or as selected by Architect
 - c. **DOOR CATCHES:** Heavy duty spring loaded roller type
 - d. **DRAWER SLIDES:** Nylon roller steel
 3. **ADJUSTABLE SHELVES:**
 - a. **THICKNESS:**
 - 1) **LESS THAN 36" LONG:** 3/4"
 - 2) **36" LONG AND OVER:** 1"
- D. **PLYWOOD:**
1. Comply with Douglas Fir Plywood Association and Western Softwood Manufacturing specifications as required for various usage areas.
 2. **GRADE:** CD
 3. **EXPOSURE DURABILITY CLASSIFICATION:** Interior
 4. **THICKNESS:** As shown
- E. **MISCELLANEOUS FASTENERS SUCH AS SCREWS AND BOLTS, ETC.:** Supplied and installed by this Section.
- F. **CEMENT FIBER BOARD:**

1. Non-asbestos fiber-cement siding to comply with ASTM Standard Specification C1186 Grade II, Type A
2. Corner Boards, Panels, and trims
 - a. Smooth finish
 - b. SIZES: thickness and widths as shown
3. Fasteners
 - a. Metal framing: 1 5/8" No 8-18 x 0.323 head self-drilling, corrosion-resistant S-12 ribbed buglehead screws
 - b. Blind fastening system

PART 3 - EXECUTION

3.01 PREPARATION

- A. Condition wood materials to average prevailing humidity conditions in installation areas prior to installing.
- B. BACKPRIME LUMBER:
 1. For painted finish exposed on the exterior
 2. Where indicated, to moisture and high relative humidities on the interior.
 3. Comply with requirements of SECTION 09900 for primers and their application.
 4. For backs and cut ends of wood edging of countertops.

3.02 INSTALLATION

- A. GENERAL:
 1. Install all items of millwork
 2. Set finishing nails, used on exposed faces, to receive filler.
 3. Install trim in single lengths; where long runs use minimum lengths of 8'-0".
 4. Scribe, miter and join accurately and neatly to detail.
 5. Not Used
 6. STEEL DOORS AND FRAMES:
 - a. GENERAL: Install standard steel doors, frames, and accessories in accordance with manufacturer's data and as herein specified.
 - b. PLACING FRAMES:
 - 1) Comply with provisions of SDI-105 unless otherwise indicated.
 - 2) Except for frames located at in-place concrete or masonry and at drywall installations, place frames prior to construction of enclosing walls and ceilings.
 - 3) Set frames accurately in position.
 - 4) Plumb, align, and brace securely until permanent anchors are set.
 - 5) After wall construction is completed, remove temporary braces and spreaders leaving surfaces smooth and undamaged.
 - 6) IN MASONRY CONSTRUCTION: Locate 3 wall anchors per jamb at hinge and strike levels.
 - 7) AT IN-PLACE CONCRETE OR MASONRY CONSTRUCTION: Set frames and secure to adjacent construction with machine screws and masonry anchorage devices.
 - 8) FIRE-RATED FRAMES: Comply with NFPA Standard #80.
 - 9) IN METAL STUD PARTITIONS: Install at least 3 wall anchors per jamb at hinge and strike levels.
 - c. DOOR INSTALLATION:
 - 1) Fit steel doors accurately in frames, within clearances specified in SDI-100.
 - 2) Place fire-rated doors with clearances as specified in NFPA Standard #80
 7. WOOD DOORS:
 - a. MANUFACTURER'S INSTRUCTIONS: Comply with manufacturer's instructions, referenced AWI standard, and as indicated.
 - b. JOB-FIT DOORS:
 - 1) Align and fit doors in frames with uniform clearances and bevels as indicated below.
 - 2) Do not trim stiles and rails in excess of limits set by manufacturer or permitted

- with fire-rated doors.
- 3) Machine doors for hardware. Seal cut surfaces after fitting and machining.
- 4) FITTING CLEARANCES FOR NON-RATED DOORS:
 - a) JAMBS AND HEADS: 1/8"
 - b) EACH LEAF AT MEETING STILES FOR PAIRS OF DOORS: 1/16"
 - c) FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING: 1/8"
 - d) WHERE THRESHOLD IS SHOWN OR SCHEDULED, FROM BOTTOM OF DOOR TO TOP OF THRESHOLD: 1/4"
- 5) FITTING CLEARANCES FOR FIRE-RATED DOORS: Comply with NFPA Standard #80
- 6) Bevel non-rated doors 1/8" in 2" at lock and hinge edges
- 7) BEVEL IN FIRE-RATED DOORS:
 - a) IN LOCK EDGE: 1/8" in 2"
 - b) TRIM STILES AND RAILS: Only to extent permitted by labeling agency
 - c) PREFIT DOORS: Fit to frames for uniform clearance at each edge
 - d) FACTORY-FINISHED DOORS: Restore finish before installation, if fitting or machining is required at the job site
 - e) FIELD-FINISHED DOORS: See SECTION 09900
- 8. HARDWARE:
 - a. Mount units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
 - 1) Except as specifically indicated or required to comply with governing regulations
 - 2) Except as may be otherwise directed by Architect
 - b. Comply with the manufacturer's instructions and recommendations.
 - c. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work.
 - d. Do not install surface-mounted items until finishes have been completed on the substrate.
 - e. Set units level, plumb and true to line and location.
 - f. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
 - g. Drill and countersink units which are not factory-prepared for anchorage fasteners.
 - h. Space fasteners and anchors in accordance with industry standards.
 - i. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant.
- 9. WOOD TRIM:
 - a. Back cut flat members of trim units to prevent warping
 - b. Ship material in lengths to minimize jointing and waste
 - c. Match existing as required, as indicated, or as shown
- 10. PLYWOOD AND PARTICLE BOARD EDGING:
 - a. Machine glue and dress veneering stock or plastic laminate to all plywood or particle board exposed edges
 - b. Edging installed by hand and clamped not permitted unless specifically approved by Architect.

3.03 FIELD QUALITY CONTROL

A. WORKMANSHIP:

- 1. GENERAL:
 - a. Carefully fit joints.
 - b. Finish adjoining surfaces in the same plane flush.
 - c. FINISHED WORK: Free from tool marks and open joints.
 - d. MOLDINGS:
 - 1) As long as practicable.
 - 2) Do not splice a run of trim 10' or less.
 - e. Do not piece jamb, casing, cornice, railing, stile, or similar member except as required by the design or the conditions of installation.
 - f. MATERIAL OF ASSEMBLED WORK REQUIRING FITTING IN PLACE: Of sufficient

- oversize to permit such fittings being properly done.
- g. ASSEMBLED WORK: Securely fasten together.
- h. Plug and stop screws in exposed surfaces.
- 2. FINISH TRIM:
 - a. Assemble all joints at the mill.
 - b. Butt joints not dowelled, shall be glued joints.
 - c. In mill-assembled work, wherever possible, screw members together from back.
- 3. QUALITY GRADE: AWI Premium grade and milled to details, clean cut, and of exact dimension.

3.05 ADJUSTMENT

- A. Repair damaged and defective work to eliminate defects functionally and visually.
- B. Where not possible to repair, replace woodwork.
- C. Adjust joinery for uniform appearance.
- D. STEEL DOORS AND FRAMES:
 - 1. PRIME COAT TOUCH-UP: Immediately after erection, sand smooth any rusted or damaged areas of prime coat and apply touch-up of compatible air-drying primer.
 - 2. PROTECTION REMOVAL: Immediately prior to final inspection, remove protective plastic wrappings from prefinished doors.
 - 3. FINAL ADJUSTMENTS: Check and readjust operating finish hardware items, leaving steel doors and frames undamaged and in completed and operating condition.
- E. WOOD DOORS:
 - 1. OPERATION: Rehang or replace doors which do not operate freely.
 - 2. FINISHED DOORS: Refinish or replace doors damaged during installation.
- F. HARDWARE:
 - 1. Adjust and check each operating item of hardware and each door, to ensure proper operation and function of every unit.
 - 2. Replace units which cannot be adjusted to operate as intended.

3.06 CLEANING

- A. Clean exposed and semi-exposed surfaces
- B. Clean adjacent surfaces soiled by hardware installation

3.07 PROTECTION

- A. Maintain conditions necessary to ensure that work will be without damage or deterioration at time of acceptance.
- B. Keep wood from accepting any moisture from structure or inclement weather.
- C. DO NOT BRING MILLWORK INTO WET OR DRYING PORTIONS OF BUILDING.
- D. Coordinate staining or priming of joints and assemblies with SECTION 09 9000.

END OF SECTION 06 2000

SECTION 07 3100 – ASPHALT SHINGLE ROOF SYSTEM

PART 1 GENERAL

1.01 SUMMARY

A. SECTION INCLUDES:

1. Work supplied and installed:
 - a. Asphalt Shingles.
 - b. Ridge flashing.
 - c. Valley flashings.
 - d. Drip Edges.
 - e. Roof warranty.
 - f. Roofing adhesives / cements.
 - g. Ridge vents.
 - h. Underlayments
 - i. Fasteners required to complete work of this section.
2. Information included but described elsewhere:
 - a. Drawings.
 - b. SECTION 00 8000: SUPPLEMENTARY CONDITIONS.
 - c. SECTION 00 8210: ADDITIONAL ARTICLES.
 - d. DIVISION 1: GENERAL REQUIREMENTS.

1.02 SYSTEM DESCRIPTION

- A. All general instruction contained in Manufacturer's current Roofing Systems Manual shall be considered part of this section as if included in their entirety.
- B. PERFORMANCE:
 1. Make roofing work watertight for all weather exposures.
 2. Work shall not deteriorate in excess of normal weathering.
- C. DESIGN REQUIREMENTS:
 1. WINDLOAD: FM Class I and I-90 uplift.

1.03 SUBMITTALS

- A. Submit complete information on materials to be supplied and/or installed under this section.
- B. Submit the following in accordance with the GENERAL CONDITIONS and SECTION 01 3400: SUBMITTALS.
 1. PRODUCT DATA:
 - a. Manufacturer's current printed specifications for materials and application methods for insulation, membrane and flashings.
 - b. Manufacturer's construction details modified as required to suit the requirements of this specification and the drawings.
 2. SAMPLES:
 - a. Full range of manufacturer's standard for color and texture selection.
 3. CERTIFICATIONS:
 - a. MANUFACTURER'S CERTIFICATE OF EXPERIENCE:
 - 1) Number of years that they have manufactured material.
 - 2) List of current projects utilizing roofing system.
 - b. Affidavit, in duplicate, certifying that products submitted for approval comply with the requirements of the specifications.

1.04 QUALITY ASSURANCE

- A. **INSTALLER QUALIFICATIONS:**
1. Subcontract the roofing and associated work to a single firm, called the Installer in this section, specializing in the type of roofing required so that there will be undivided responsibility for the performance of the work.
 2. Subcontract roofing to an Installer who is franchised or otherwise accepted in writing by the selected and approved roofing materials manufacturer for installation of a fully guaranteed or bonded roof in accordance with the requirements.
- B. **INSPECTION:** Upon completion of the installation, an inspection shall be made by a representative of approved manufacturer to ascertain that the roofing system has been installed according to Company's published specifications and details.
1. Do not deviate from this requirement without prior written approval by the manufacturer.
- C. **REGULATORY REQUIREMENTS:**
1. See SECTION 01 0600: REGULATORY REQUIREMENTS for applicable standards/abbreviations.
- D. **STANDARDS:**
1. Comply with provisions of the current edition of the following, except where more stringent requirements are shown, specified or apply:
 - a. "Residential Asphalt Roofing Manual" by Asphalt Roofing Manufacturer's Association.
 - b. ASTM D 3018.
 - c. "The NRCA Roofing and Waterproofing Manual" steep roofing section.
 - d. ROOFING FELT: ASTM D 226 Type I.
 - e. SMOOTH - SURFACE ROLL ROOFING: ASTM D 224, Type II.
 - f. ASPHALT PLASTIC CEMENT: ASTM D 2822.
- E. **UL LISTING:**
1. Provide labeled materials which have been tested and listed by UL for Class and Rating indicated for each shingle type required.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. **DELIVERY:**
1. Deliver products in manufacturer's original unopened containers with labels or tickets intact and legible.
 2. Deliver materials requiring fire resistance classification to the job with labels attached and packaged as required by labeling services.
 3. Deliver materials in sufficient quantity to ensure continuity of work.
- B. **STORAGE:**
1. Store shingles and flashing materials on clean, raised platforms with weather protective covering when stored outdoors.
 2. Store as required by manufacturer including temperature and humidity control if required.
 3. Provide continuous protection of materials from wetting and moisture absorption.
 4. Provide adequate ventilation to avoid condensation.
- C. **HANDLING:**
1. Handle so as not to damage ends or edges.
 2. Select and operate material handling equipment so as not to damage construction or new roofing.
 3. Protect new insulation and roofing from damage by construction traffic.
 4. Comply with all fire and safety regulations.
 5. Handle, install, correct, clean, condition and adjust products in strict accord with manufacturer's instructions and in conformity with specified requirements.
 - a. Should job conditions, NRCA requirements, or specified requirements conflict with manufacturer's instructions, consult Architect for further instructions. In all cases, the stricter requirements shall apply.

1.06 PROJECT CONDITIONS

- A. TEMPORARY ROOFING:
 - 1. INSTALL TEMPORARY ROOFING WHEN:
 - a. Adverse job conditions or weather conditions prevent permanent roofing and associated work from being installed in accordance with requirements.
 - b. It is determined by Contractor that roofing cannot be delayed because of need for job progress or protection of other work.
 - 2. Remove temporary roofing prior to proceeding with permanent roofing work.
 - 3. Record by way of change order the Owner's agreement to proceed with temporary roofing, along with additional costs and other changes (if any) to Contract Documents.
- B. ENVIRONMENTAL REQUIREMENTS:
 - 1. Apply roofing in dry weather.
 - 2. Do not begin roofing operations if weather is threatening.
 - 3. Do not apply roofing when ambient temperature is below 40EF.
 - 4. Comply with manufacturer's recommended limitations.
- C. Prepare for roofing only that area that can be completely roofed by the end of the normal working day.
 - 1. Leave roof in water and moisture tight condition at the end of each day's work, including roof edges and fabric flashing, and all roof openings.
 - 2. It is not the intent of this section that work continue beyond the normal working day except in case of emergency.
 - 3. If, due to unforeseen circumstances the work is delayed, continue work until the entire work area is water tight, at no additional contract cost, before leaving the site.
 - 4. Do not leave any roof area open at the end of the day's work.
- D. Take all reasonable precautions to insure that the work is not interrupted during the working day by rain.
 - 1. Maintain on the deck, for emergency use, tarpaulins, polyethylene sheets, or other covering materials sufficient to temporarily cover areas of the roofing.
- E. Take all possible precautions during the progress of the work to prevent water from entering the newly installed roofing.
 - 1. At night.
 - 2. Over weekends.
 - 3. During periods of inclement weather.
- F. Proceed with roofing work only after substrate construction and penetrating work have been completed.

1.07 WARRANTY

- A. Provide asphalt shingle manufacturer's warranty in writing that the material will not prematurely deteriorate because of weathering for a period of 30 years from date of sale. Warranty to state that manufacturer agrees to pay for repair or replacement of defective shingles as necessary to eliminate leaks during the period of the warranty.
- B. The warranty will be in effect upon notice of completion of the building project.
- C. The Contractor shall also furnish a notarized 5 year guarantee covering the completed roof system and flashing, to commence at the time of notice of completion and run concurrently with that of roofing manufacturer for the first 5 years.

1.08 MAINTENANCE

- A. EXTRA MATERIALS: Provide Owner with two (2) percent of each type/color/texture shingle used in clear marked carton for emergency use.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, SUPPLY PRODUCTS FROM THE FOLLOWING:
1. ALL NEW ASPHALT SHINGLE ROOF SYSTEM
 - a. CERTAINTEED
 - b. Approved equal.

2.02 MATERIALS

- A. ASPHALT SHINGLES:
1. TYPE: CERTAINTEED LANDMARK SERIES
 5. COLOR: COLONIAL SLATE
- B. UNDERLAYMENT (GENERAL)
1. CERTAINTEED ROOFER'S SELECT UNDERLAYMENT
- C. UNDERLAYMENT (ICE & WATER)
1. CERTAINTEED WINTERGUARD ICE & WATERSHIELD
- D. STARTER SHINGLES:
1. SWIFTSTART STARTER SHINGLES
- E. HIP AND RIDGE SHINGLES:
1. CERTAINTEED CEDARCREST HIP & RIDGE SHINGLES
- F. NAILS:
1. MATERIAL: Aluminum or hot-dip galvanized, use manufacturers recommendation.
 2. GAUGE: 11 or 12.
 3. Sharp-pointed.
 4. Conventional roofing nails with barbed shank.
 5. HEAD DIAMETER: 3/8" minimum.
 6. LENGTH: As required to:
 - a. Penetrate 3/4" into solid decking or.
 - b. Penetrate thru plywood sheathing.
- G. METAL DRIP EDGE:
1. MATERIAL: Aluminum sheet.
 2. THICKNESS: .024" minimum.
 3. FINISH: Mill.
 4. BRAKE-FORM TO PROVIDE:
 - a. ROOF DECK FLANGE: 3".
 - b. FASCIA FLANGE: 1-1/2".
 - c. DRIP AT LOWER EDGE: 3/8".
 5. LENGTH: 8'-0" or 10'-0".
- H. RIDGE VENTS:
1. CERTAINTEED FILTERED 12" RIDGE VENT
- I. ADHESIVES / CEMENTS:
1. PER CERTAINTEED MANUFACTURER'S INSTRUCTIONS

PART 3 EXECUTION

3.01 EXAMINATION

- A. EXAMINE ALL SURFACES TO RECEIVE ROOFING AND FLASHING FOR:
 - 1. Moisture.
 - 2. Foreign material.
 - 3. Unevenness.
 - 4. Inadequate anchorage which would prevent the proper execution and application of roofing systems specified.
- B. Verify that work of other trades which penetrate roof deck or requires men and equipment to traverse roof deck has been completed or provide protection for completed surfaces as noted below.
- C. Report to Architect, in writing, any conditions detrimental to the proper and timely completion of the work.
- D. Starting of work constitutes acceptance of all conditions.
- E. Do not proceed until defects have been corrected.

3.02 PREPARATION

- A. All surfaces must be dry, reasonably smooth, clean, rigid and free from debris, loose materials, projections and holes.
- B. Coordinate roofing with flashing and other adjoining work to ensure proper sequencing of the entire work.
- C. Cover knotholes or other minor voids in substrate with sheet metal flashing secured with roofing nails.
- D. Do not install asphalt shingle roofing until all vent stacks and other penetrations through roofing have been installed and are securely fastened against movement.
- E. PROTECTION:
 - 1. Lay 3/4" plywood sheets for protection of surfaces.
 - 2. Cover work and traffic areas, plus one extra board width to guard against the dropping of tools, equipment, or materials.
 - 3. When all work around or above roof is complete, membrane manufacturer's representative shall inspect roof with roofer and Architect and all damage will be repaired at no cost to Owner.

3.03 INSTALLATION

- A. BASE FLASHING:
 - 1. Install at all vertical wall intersections.
 - 2. Install in accordance with the drawings, NRCA details, and the current Manville Products No. FE-1 and standard printed details.
 - 3. Nail top edges of all flashing systems 4" o.c. maximum.
 - 4. Lap side edges of flashing strips 3" minimum.
 - 5. Seal vertical joints and top edge with felt strip set in and troweled over with 1/8" thick roofing cement.
 - 6. Finish base flashing with a coat of flashing cement minimum 1/16" thick.
- B. SHEET METAL:
 - 1. Protect sheet metal in contact with adjacent dissimilar metal or material in an approved manner to prevent electrolytic action between the two materials.
 - 2. Use asphalt paint isolator.
 - 3. Do not contaminate membrane or membrane flashings with asphalt.
 - 4. Clean or remove contaminated area.
 - 5. Install roof edges as detailed and in accordance with manufacturer's instructions.
 - 6. Install after membrane is in place and coordinate with aluminum panel and curtain wall installation.

7. Provide for expansion between sections with concealed splice plates.
8. Provide continuous clips as detailed.
9. Install expansion joints and flashing after base flashing is complete.
10. Securely anchor flashing in place as detailed.
11. SPLICE PLATES FOR THERMAL EXPANSION: As detailed.
12. MINIMUM VERTICAL LEG OF FLASHING: 3-1/2".
13. Dress tight to flashings below.

3.04 FIELD QUALITY CONTROL

A. TESTING/INSPECTION:

1. The representative of membrane manufacturer must inspect the installation during its progress.
2. A minimum of 3 inspections during construction for the insulation, and 4 inspections for the membrane, and base flashing installation are required.
3. Make all tests as necessary for issuance of warranty.
4. The Contractor shall correct all deficiencies at no cost to the Owner.
5. All inspections and testing at no cost to Owner.

B. Comply with instructions and recommendations of shingle manufacturer, except to extent more stringent requirements are indicated.

C. UNDERLAYMENT (GENERAL):

1. Apply one layer over entire surface.
2. Lap succeeding courses 2" minimum.
3. Fasten with sufficient nails to hold in place until shingle application.

D. ICE PROTECTION UNDERLAYMENT:

1. In addition to general underlayment.
2. Install continuous strips of ice protection underlayment (smooth surface roll roofing) along perimeter edges. See Drawings.
3. Set in continuous bed of adhesive / cement.
4. Secure with roofing nails at 6" centers along all edges.
5. Provide 2" laps where required, set in roofing cement.
6. If head laps are required, install so head lap occurs 12" before wall line.

E. SHINGLES:

1. Install starter strip of roll roofing or inverted shingles with tabs removed.
2. FASTEN SHINGLES IN:
 - a. Pattern.
 - b. Weather exposure.
 - c. Number of fasteners per shingle.
3. Comply with recommendations of manufacturer.
4. Use horizontal and vertical chalk lines to ensure straight coursing.
5. Comply with installation details and recommendations of shingle manufacturer and NRCA Steep Roofing Manual.

F. FLASHING AND EDGE PROTECTION:

1. Install as indicated.
2. Comply with details and recommendations of the NRCA Steep Roofing Manual.

3.04 CLEANING

- A. After completion of all work remove all equipment and debris from roof, building, site.
- B. Remove all stains, spills and foreign material from sheet metal.
- C. Clean all interior or exterior building or pavement surfaces below working area that were in any way damaged or marked by the work of this Contract.
- D. After cleaning, leave work area in neat and orderly condition.

3.05 PROTECTION

- A. Avoid traffic on completed work, provide special protection where necessary.
- B. Provide padded feet, noses and rubber wheels on all wheeled equipment.
- C. Restore to original condition or replace work or materials damaged during handling of all roofing materials.
- D. Protect building walls adjacent to hoists prior to start of work.
- E. Protect all interior building surfaces under work areas where deck openings exist.
- F. Exercise caution.
- G. Lap suitable protective material at least 6 inches.
- H. Vent polyethylene, if used, to prevent collection of moisture on covered surfaces.
- I. Secure protective coverings against wind.
- J. Leave protective covering in place for duration of work.

END OF SECTION 07 3100

Part 1: GENERAL

1.1 **Scope:** Subject to local building codes, this product is intended for use in:

- 1.1.1 One and two family dwellings.
- 1.1.2 Low-rise multifamily dwellings, low-rise professional offices, libraries and low-rise motels.
- 1.1.3 Lighter use industrial buildings and factories, hotels, and retail sales buildings.

1.2 **Product Description:** Side-hinged door systems manufactured by MASONITE or meeting MASONITE specifications.

1.2.1 Door system components include: door panel(s), sidelite panel(s), glass inserts, transom, door frame, hinges, weather seals.

Part 2: BASIC MATERIALS

2.1 **Door Panel:** Belleville® Wood-Grain Textured and Belleville® Smooth fiberglass doors shall be fabricated using 6-piece construction that includes fiberglass reinforced facings featuring high-definition sticking design, laminated lock stile, finger-jointed or laminated wood hinge stile, wood top rail and rot resistant composite bottom rail. Door facings are to be bonded to stiles and rails forming a structural attachment. Insulated core to be poured-in-place polyurethane foam forming a secure attachment to all door components.

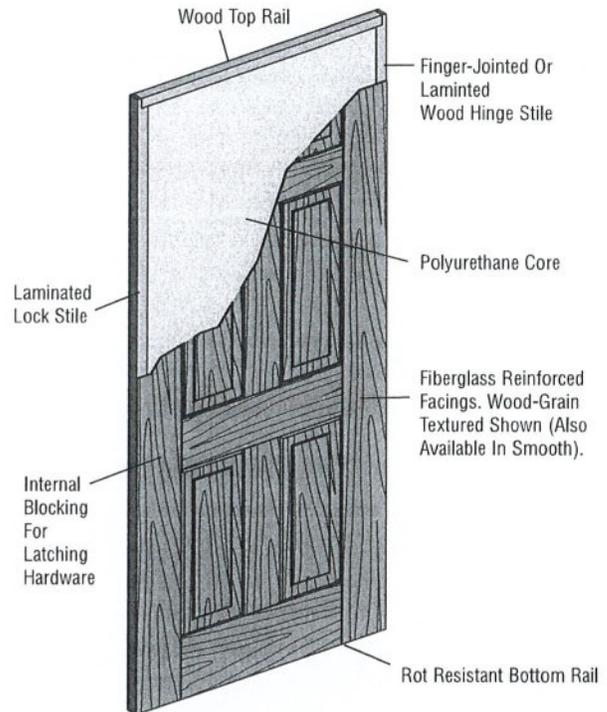
2.1.1 Bottom rail may be machined to accept weather seal. Mounting surface for latching hardware to be reinforced with solid internal blocking. Hinge preparations are to be placed at MASONITE specifications and are to be machined for standard weight full mortise 4" butt hinges. Latch preparations are to be placed at MASONITE specifications. Face bore(s) for cylindrical lock and deadbolt are to be 2-1/8" diameter at 2-3/4" or 2-3/8" backset and 5-1/2" on center (5-1/2" or 10-1/2" on 8'0" panels).

2.2 Sidelite Panel:

2.2.1 Belleville® Wood-Grain Textured and Belleville® Smooth fiberglass sidelites shall be fabricated using 6-piece construction that includes fiberglass reinforced facings, MDF or wood stiles and rails. Door facings are to be bonded to stiles and rails forming a structural attachment. Insulated core to be poured-in-place polyurethane or expanded polystyrene foam forming a secure attachment to all door components.

2.3 **Glass Insert:** Specialty™ insulated glass inserts shall be fabricated in 1/2" double pane or 1" triple pane construction. Glass frame may be "lip lite" or "flush glazed" design in rigid plastic, cellular vinyl or extruded aluminum.

2.4 **Transom:** Specialty insulated transoms shall be fabricated with 1/2" double pane or 1" triple pane glass mounted to the framing system as a non-operable panel.



2.5 **Door Frame:** Wood frames shall be fabricated as a single rabbet jamb design. Hinge jamb(s), strike jamb, head jamb, and mullion(s) shall be machined to accept a kerf applied weather seal. Hinge jamb preparations are to be placed at MASONITE specifications and are to be machined for standard weight full mortise 4" butt hinges. Strike jamb preparations are to be placed at MASONITE specifications and are to be machined for full lip cylindrical strike plate. Inswing or bumper outswing threshold shall be high-dam design. Low profile threshold shall be required for handicap accessible openings. Double door units shall include a t-astragal attached to the "passive" panel with top and bottom flush bolts that securely strike into the head jamb and threshold.

2.6 **Hinges:** (3) standard weight full mortise 4" butt hinges are required on doors 7'0" height or smaller & (4) on doors greater than 7'0".

2.7 **Weather Seal:** Door frame shall be fabricated featuring a vinyl wrapped foam filled compression design that is kerf installed. Corner seals shall be installed to the rabbet section of the door frame at the bottom of the hinge and lock jamb. Door bottom sweep shall be sealed and securely attached to the operable door panel(s).

Part 3: DELIVERY, STORAGE & HANDLING

3.1 **Delivery:** Reasonable care shall be exercised during shipping and handling in keeping with the decorative nature of product.

3.2 **Storage & Protection:** Store upright in a dry, well ventilated building or shelter at a constant temperature. Do not store in damp areas or freshly plastered buildings. Place units on wood blocks at least 2" high to prevent moisture at threshold and/or possible damage. Do not place in non-vented plastic or canvas shelters.

Part 4: EXECUTION

4.1 **Examination:** Site verification of substrate conditions, which have been previously completed, are acceptable for the product installation instructions in accordance with manufacturer's specifications. Verify that door frame openings are constructed plumb, true and level before beginning installation process. Select fasteners of adequate type, number and quality to perform the intended functions.

4.2 **Installation:** Remove protective packaging just prior to installation. Installer shall be experienced in performing work required and shall be specialized in the installation of work similar to that required for this project. Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product packaging instructions for installation.

4.3 **Flashing, Insulating & Trimming:** Exterior of installed unit shall be flashed, trimmed & sealed to prevent air infiltration and/or water penetration. Interior of installed unit shall be insulated & trimmed to prevent thermal and/or acoustical transmission.

4.4 **Finishes:** Various types of materials are used in the construction of the door system; each shall be sealed in accordance with manufacturer's specifications to protect against various environmental conditions. Make sure to seal and inspect all 5-surfaces (top, hinge side, lock side, exterior face and interior face) of the active door panel(s). Finishing and/or re-finishing must be completed within 45-days from the time the protective packaging was removed and/or the installation was performed. Conduct periodic inspections of all coated surfaces to insure that door components are not exposed. Inspections should occur at least once a year. Reseal the surface as needed.

Part 5: BUILDING CODE & REGULATORY COMPLIANCE

5.1 **Structural Performance & Impact Rating:** Unit scheduled for installation in openings requiring compliance with national, state or local wind load and/or missile impact resistance shall be clearly noted when product is ordered. Design pressure (DP) ratings are available for a wide selection of door styles and configurations are listed under the National Accreditation & Management Institute (NAMI). Belleville Wood-Grain Textured and Belleville Smooth fiberglass door unit at +70.0 / -70.0 maximum rating. (See structural performance data for unit specific DP/impact information).

5.2 **Thermal Performance:** Unit Scheduled for installations in openings requiring compliance with national, state, or local thermal resistance and/or solar heat gain shall be clearly noted when product is ordered. U-Value & SHGC ratings in accordance with the International Energy Conservation Code (IECC) and/or the National Fenestration Rating Council (NFRC) are available for a wide selection of door styles. ENERGY STAR compliance / labeling is available for various door styles. Belleville Wood-Grain Textured and Belleville Smooth fiberglass at U-value of 0.17 & SHGC of 0.37 minimum rating. (See thermal performance data for unit specific thermal information).

5.3 **Acoustical Performance:** Unit scheduled for installation in openings requiring a specified noise control rating shall be clearly noted when product is ordered. Belleville Wood-Grain Textured and Belleville Smooth fiberglass sound transmission classification (STC) rating is 22 for a door without a glass insert. (See acoustical performance data for unit specific acoustical information).

5.4 **General Performance:** All door systems are designed to comply with water penetration guidelines in accordance with ASTM E331 and/or Florida Building Code TAS202; air infiltration guidelines in accordance with ASTM E283 and/or Florida Building Code TAS202; forced entry resistance guidelines in accordance with Florida Building Code TAS202; physical endurance guidelines in accordance with ANSI A151.1 / level C.

Part 6: WARRANTY

6.1 Manufacturer warrants the panel to be free of manufacturing defects in material and workmanship for the lifetime of the panel. Please check with manufacturer or distributor for current warranty terms and conditions.

Part 1: GENERAL

1.1 **Scope:** Subject to local building codes, this product is intended for use in:

- 1.1.1 One and two family dwellings.
- 1.1.2 Low-rise multifamily dwellings, low-rise professional offices, libraries and low-rise motels.
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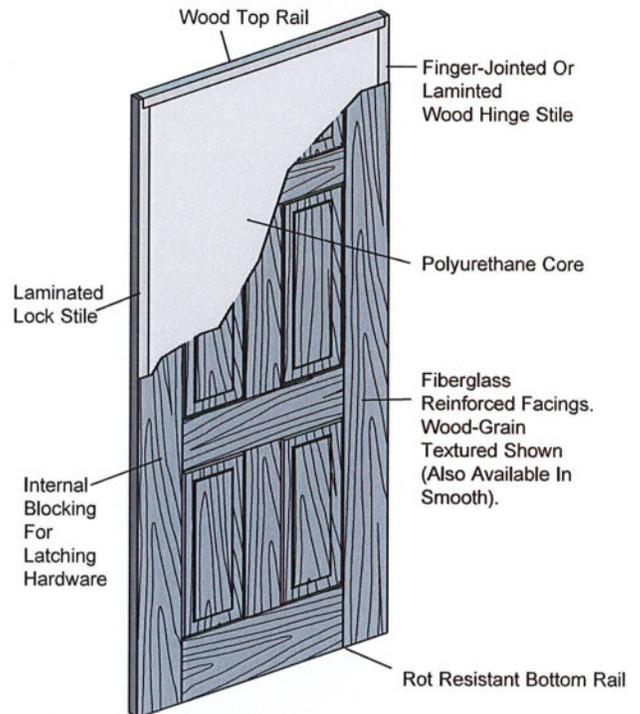
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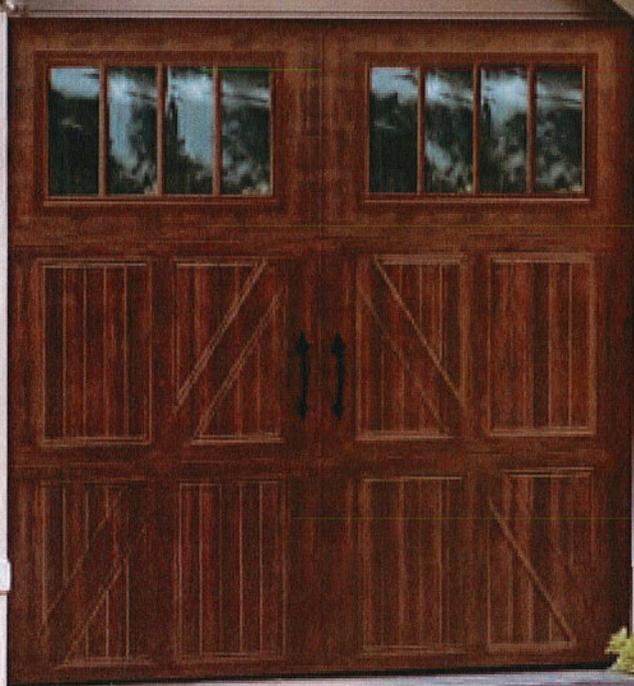
Part 6: WARRANTY

6.1 Manufacturer warrants the panel to be free of manufacturing defects in material and workmanship for the lifetime of the panel. Please check with manufacturer or distributor for current warranty terms and conditions.



Garage Door Systems

Steel, Wood, Aluminum and Vinyl



No matter your personal design taste or your price range, the possibilities for your new garage door are wide open – so come on in.

DOOR STYLE OPTIONS

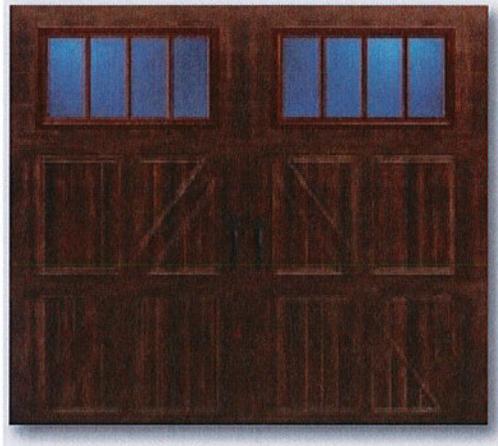
Pella has the style you are looking for.

At Pella, we realize you want a garage door with curb appeal. That is why we offer garage doors in Carriage House, Full View or Traditional styling to complement your home. Pella has a garage door that fits your style and budget.

Carriage House

Add unique character to your home with a Pella® Carriage House garage door that brings authentic, historical looks into the modern world.

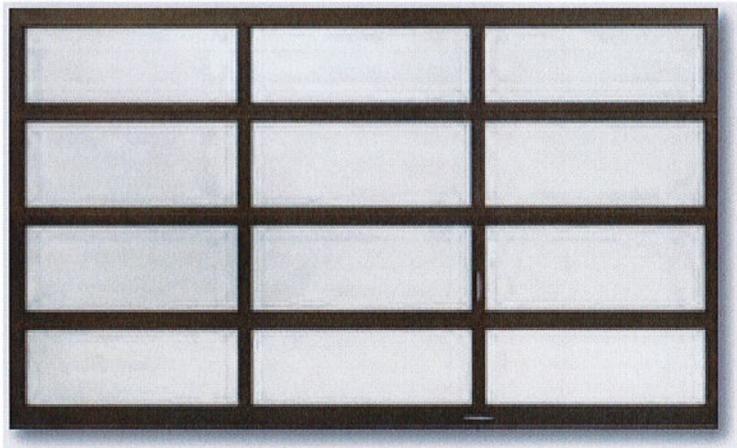
Available in: [ARCHITECT SERIES™](#) [PELLA®](#)
[ENCOMPASS BY PELLA®](#)



Full View

These modern, sleek, Pella garage doors mirror the clean lines of contemporary homes.

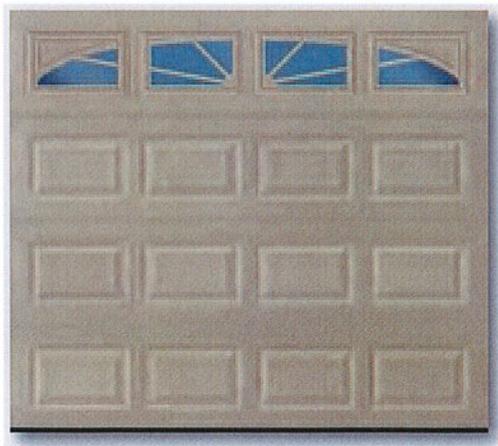
Available on: [PELLA®](#)



Traditional

Classic styling that coordinates with any home and stands the test of time.

Available on: [PELLA®](#) [ENCOMPASS BY PELLA®](#)



Otteson·Hillsboro·Ladora·Sutherland TRADITIONAL

Classic garage doors to stand the test of time.

Our most popular Steel Traditional designs are available in four models that offer similar exterior designs, but have their own unique benefits. Depending on which benefit you most desire – energy efficiency, SafeShield protection, lifetime warranty or value, Pella® Traditional steel garage doors will perform to your satisfaction.

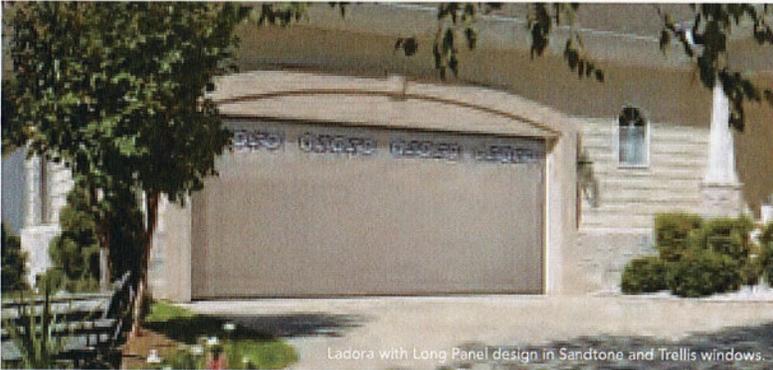
Available on:

PELLA®

ENCOMPASS BY PELLA®



Hillsboro with Short Panel design in Golden Oak.



Ladora with Long Panel design in Sandstone and Trellis windows.



Sutherland with Long Panel design in Walnut and Prairie windows.



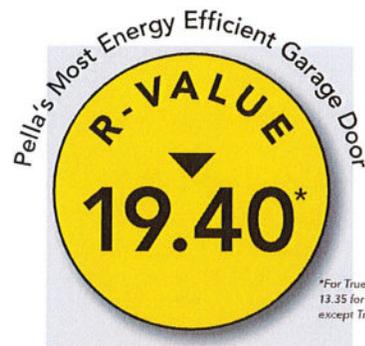
Otteson with Short Panel design in True White and 12-Lite windows.

Same traditional appeal. Different reasons to buy.

Otteson TRADITIONAL

The high R-value of Pella® Otteson garage doors offer exceptional energy efficiency to help keep the extreme cold and heat out of the garage. 2" thick polystyrene insulation helps maintain the temperature in your garage – perfect for garages attached to your home.

Available on: **PELLA®**



*For True White Short Panel only.
13.35 for all panels and colors
except True White Short Panel.

Hillsboro TRADITIONAL

With a limited lifetime warranty for all constructions, Pella offers long-lasting classic appeal with Hillsboro garage doors featuring heavy-duty 24-gauge steel and premium 14-gauge hardware.

Available on: **PELLA®**

Product
Durability



Ladora TRADITIONAL

The Pella® Ladora garage doors offers great value with 2" thick polystyrene insulation. Beauty and durability with low-maintenance for years.

Available on: **PELLA®**

Great Value



Sutherland TRADITIONAL

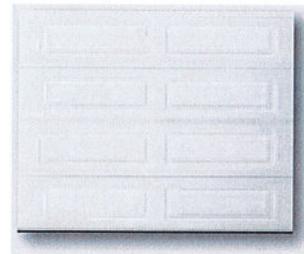
Designed with SafeShield, the Encompass by Pella® Sutherland garage doors are built to reduce the risk of serious hand and finger injuries, offering you and your families extra peace of mind.

Available on: **ENCOMPASS BY PELLA®**

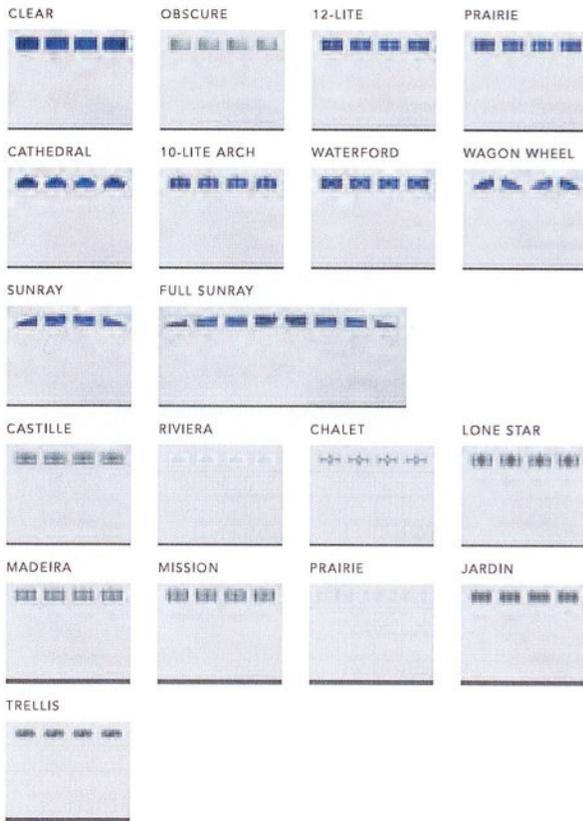
SAFEShield



Otteson·Hillsboro·Ladora·Sutherland TRADITIONAL



SHORT PANEL WINDOW OPTIONS



LONG PANEL WINDOW OPTIONS



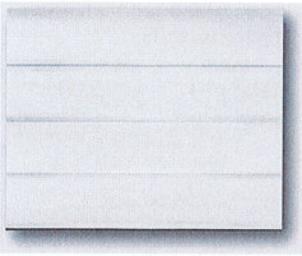
COLORS



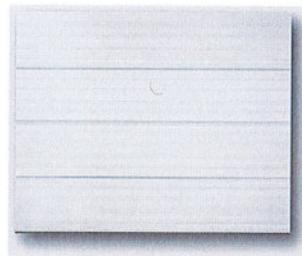
¹ Not available in Ladora. ² Not available in Hillsboro.
³ Only available in Sutherland.
 † Only available in 3-layer construction of Hillsboro and Sutherland.
 * Price Upcharge Applies

Pella steel doors arrive pre-painted; for custom colors, exterior latex paint must be used.
 Visit www.pellagaragedoors.com for instructions on painting.





FLUSH PANEL



RIBBED PANEL



Otteson with Long Panel design and Waterford windows.

SPECIFICATIONS



	TRADITIONAL GARAGE DOORS							
	ENCOMPASS by PELLA® SUTHERLAND			PELLA® HILLSBORO			PELLA® LADORA	PELLA® OTTESON
DOOR CONSTRUCTION	1-Layer	2-Layer	3-Layer	1-Layer	2-Layer	3-Layer	3-Layer	3-Layer
DOOR THICKNESS	2"	2"	1-3/8"	2"	2"	2"	2"	2"
INSULATION R-VALUE	na	6.6	6.5	na	6.6	9.1	9.1	19.4
SAFESHIELD	•	•	•	•	•	•	na	na
WIND LOAD ¹	90-155 MPH	90-155 MPH	90-155 MPH	90-155 MPH	90-155 MPH	90-155 MPH	90-130 MPH	90-155 MPH
WARRANTY								
Finish	15 Years	25 Years	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime
Hardware	2 Years	4 Years	6 Years	6 Years	10 Years	Lifetime	6 Years	Lifetime
Labor	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year

¹Based on ASCE 7-05, in select sizes.

LANDMARK[®] SERIES SHINGLES

Featuring
StreakFighter[®] &
NailTrak[®] Technology

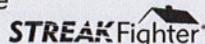
CertainTeed
SAINT-GOBAIN

Landmark, shown in Weathered Wood

Strength with Style

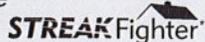
LANDMARK®

- Dual-layer durability
- 228 lbs. per square
- Industry-best lifetime limited warranty
- 10-year StreakFighter® algae-resistance warranty



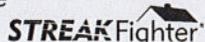
LANDMARK® PRO

- Dual-layer, high performance
- 250 lbs. per square
- Max Def color palette
- Industry-best lifetime limited warranty
- 15-year StreakFighter® algae-resistance warranty



LANDMARK® PREMIUM

- Dual-layer, high performance
- 300 lbs. per square
- Max Def color palette
- Industry-best lifetime limited warranty
- 15-year StreakFighter® algae-resistance warranty



LANDMARK SERIES

SPECIFICATIONS

- Two-piece laminated fiberglass-based construction
- Classic shades and dimensional appearance of natural wood or slate

For U.S. building code compliance, see product specification sheets.

CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:

- UL Class A
- UL certified to meet ASTM D3018 Type 1

Wind Resistance:

- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:

- UL certified to meet ASTM D3462
- CSA standard A123.5

Wind Driven Rain Resistance:

- Miami-Dade Product Control Acceptance: Please reference www.certainteed.com to determine approved products by manufacturing location.

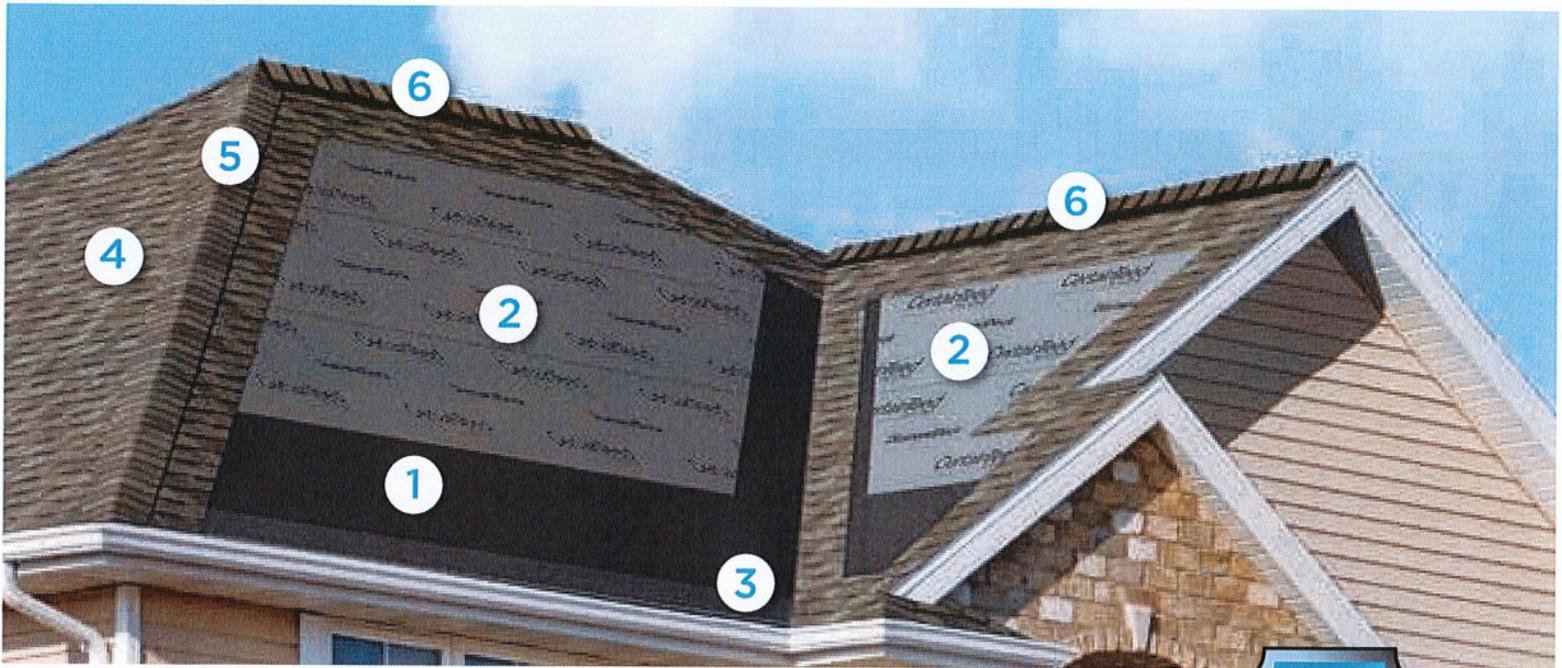
Quality Standards:

- ICC-ES-ESR-1389 & ESR-3537

WARRANTY

- Lifetime limited transferable warranty against manufacturing defects on residential applications
- 50-year limited transferable warranty against manufacturing defects on group-owned or commercial applications
- StreakFighter® algae-resistance warranty (10-year - Landmark, 15-year - Landmark PRO and Premium)
- 10-year SureStart™ protection
- 15-year 110 mph wind-resistance warranty
- Wind warranty upgrade to 130 mph available. CertainTeed starter and CertainTeed hip and ridge required

See actual warranty for specific details and limitations.



Integrity Roof System™

A COMPLETE APPROACH TO LONG LASTING BEAUTY AND PERFORMANCE



With as much care as you take in selecting the right contractor, choosing the right roof system is equally as important. A CertainTeed Integrity Roof System combines key elements that help ensure you have a well-built roof for long-lasting performance.

1. Waterproofing Underlayment

The first step in your defense against the elements. Self-adhering underlayment is installed at vulnerable areas of your roof to help prevent leaks from wind-driven rain and ice dams.

2. Water-Resistant Underlayment

Provides a protective layer over the roof deck and acts as a secondary barrier against leaks.

3. Starter Shingles

Starter Shingles are the first course of shingles that are installed and designed to work in tandem with the roof shingles above for optimal shingle sealing and performance.

4. Shingles

Choose from a variety of Good-Better-Best styles to complement any roof design and fit your budget.

5. Hip & Ridge Caps

Available in numerous profiles, these accessories are used on the roof's hip and ridge lines for a distinctive finishing touch to your new roof.

6. Ventilation

A roof that breathes is shown to perform better and last longer. Ridge Vents, in combination with Intake Vents, allow air to flow on the underside of your roof deck, keeping the attic cooler in the summer and drier in the winter.

learn more at:

certainteed.com/roofing

Landmark® Series
available in
areas shown



CertainTeed Corporation

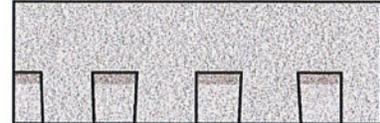
ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE • GYPSUM • CEILINGS • INSULATION

20 Moores Road Malvern, PA 19355 Professional: 800-233-8990 Consumer: 800-782-8777 certainteed.com

Landmark[®], Landmark[®] Premium, Landmark[®] Pro Shingles, Landmark[®] Pro/Architect 80 (NW Region Only) Shingles

PRODUCT INFORMATION

Landmark shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products. Landmark Premium (and Algae Resistant-AR), Landmark PRO (and AR) and Landmark (and AR) are built with the industry's toughest fiber glass mat base, and their strict dimensional tolerance assures consistency. Complex granule color blends and subtle shadow lines produce a distinctive color selection. Landmark is produced with the unique NailTrak[®] nailing feature. **Please see the installation instruction section below for important information regarding NailTrak.**



In the Northwest Region Landmark PRO (AR) is double-branded as Landmark PRO/Architect 80 (AR).

Landmark algae-resistant (AR) shingles are algae-resistant and help protect against dark or black discoloration, sometimes called staining or streaking, caused by blue-green algae. AR shingles are not available in all regions.

Colors: Please refer to the product brochure or CertainTeed website for the colors available in your region.

Limitations: Use on roofs with slopes greater than 2" per foot. Low-slope applications (2:12 to < 4:12) require additional underlayment. In areas where icing along eaves can cause the back-up of water, apply CertainTeed WinterGuard[®] Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

Product Composition: Landmark Series shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special, tough asphaltic cement. All Landmark shingles have self-sealing adhesive strips.

Applicable Standards

ASTM D3018 Type I
ASTM D3462
ASTM E108 Class A Fire Resistance
ASTM D3161 Class F Wind Resistance
ASTM D7158 Class H Wind Resistance
UL 790 Class A Fire Resistance

ICC-ES ESR-1389 and ESR-3537
CSA Standard A123.5 (Regional)
Miami-Dade Product Control Approved
Florida Product Approval # FL5444
Meets TDI Windstorm Requirements

Technical Data:

	Landmark (and AR)	Landmark PRO* (and AR)	Landmark Premium (and AR)
Weight/Square (approx.)	219 to 238 lb **	240 to 267 lb **	300 lb
Dimensions (overall)	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"	13 1/4" x 38 3/4"
Shingles/Square (approx.)	66	66	66
Weather Exposure	5 5/8"	5 5/8"	5 5/8"

*Includes Landmark PRO AR/Architect 80

**Dependent on manufacturing location

INSTALLATION

Detailed installation instructions are supplied on each bundle of Landmark shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

Hips and Ridges: For capping hip and ridge apply CertainTeed Shadow Ridge®, Cedar Crest® or Mountain Ridge® shingles of a like color.

MAINTENANCE

These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

WARRANTY

Landmark Premium (and AR), Landmark PRO/Architect 80 AR, Landmark PRO (and AR), and Landmark (and AR) shingles carry a lifetime limited, transferable warranty to the consumer against manufacturing defects when applied to stated CertainTeed application instructions for this product. In addition, Landmark Premium (and AR), Landmark PRO (and AR), Landmark PRO/Architect 80 AR, and Landmark (and AR) carry 10-years of SureStart™ Protection. Landmark AR shingles carry a 10-year algae resistance warranty. Landmark Premium AR, Landmark PRO AR, and Landmark PRO/Architect 80 AR shingles carry a 15-year algae resistance warranty. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at www.certainteed.com).

FOR MORE INFORMATION

Sales Support Group: 800-233-8990

Web site: www.certainteed.com

See us at our on-line specification writing tool, CertaSpec®, at www.certainteed.com/certaspec.

CertainTeed
20 Moores Road
Malvern, PA 19355

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CertainTeed
SAINT-GOBAIN

SAFETY DATA SHEET

Section 1. Identification		
Product Identifier:	Exterior Fiber-Cement (Medium Density) – Includes all Generation 6 HZ5 and HZ10 products with the following product names: HardiePlank® lap siding, HardiePanel® vertical siding, HardieSoffit® panel, HardieSoffit®, Beaded Porch Panel, HardieShingle® siding, HardieShingle® notched panels, HardieShingle® individual shingles, Hardie® Reveal™ Panel, 7/16" HardieTrim® boards	
Manufacturer Name, Address and Phone Number:	James Hardie Building Products 231 S. LaSalle Street, Suite 2000 Chicago, IL 60604 1-800-942-7343 (1-800-9HARDIE)	
Emergency Phone Number:	1-800-942-7343 (1-800-9HARDIE)	
Recommended Use:	Exterior Fiber-Cement (Medium Density) is used as an external wall cladding	
Restrictions on Use:	None known	
Section 2. Hazards Identification		
GHS Classification:	Carcinogenity, Category 1A Target Organ Systemic Toxicity Repeated Exposure, Category 1	
GHS Label Element(s): Symbol		
Signal Word	DANGER	
Hazard Statement(s)	May cause cancer if dust from product is inhaled Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product	
Precautionary Statement(s)	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust from product. Wash hands and face thoroughly after handling. Use personal protective equipment as required. If exposed or concerned: Get medical advice. If shortness of breath or other health concerns develop after exposure to dust from the product, seek medical attention. Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.	
Section 3. Composition / Information on Ingredients		
CAS#	Chemical Ingredient	%

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14808-60-7	Crystalline Silica (Quartz)	15-45%
65997-15-1	Calcium Silicate (Hydrate)	35-65%
471-34-1	Calcium Carbonate	<30%
N/A	Calcium Aluminum Silicate (Hydrate)	<20%
9004-34-6	Cellulose	<15%
1333-86-4	Carbon Black	<1%
Section 4. First Aid Measures		
Inhalation	<p>Acute effects – Dust may cause irritation of the nose, throat and airways, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) upon inhaling dust during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust.</p> <p>Chronic effects – Repeated or prolonged over exposures to crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease, and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels, and internal organs.) Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis and lung cancer in persons also exposed to crystalline silica.</p> <p>Acute silicosis – A sub-chronic disease associated with acute, massive silica exposure, is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to, shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.</p> <p>Required treatment – If inhalation of dust occurs, remove to fresh air. If shortness of breath or wheezing develops, seek medical attention.</p>	
Skin	<p>Dust may cause irritation of the skin from friction but cannot be absorbed through intact skin.</p> <p>If skin contact occurs, wash with mild soap and water. Contact physician if irritation persists or later develops.</p>	
Eyes	<p>Dust may irritate the eyes from mechanical abrasion causing watering or redness.</p> <p>If eye contact occurs, remove contact lenses (if applicable). Flush with running water or saline for at least 15 minutes. Seek medical attention if redness persists or if visual changes occur.</p>	



Ingestion	<p>Ingestion is unlikely under normal conditions of use, but swallowing the dust from the product may result in irritation or damage to the mouth and gastrointestinal tract due to alkalinity of dust.</p> <p>If ingestion occurs, dilute by drinking large amounts of water. Do not induce vomiting. Seek medical attention. If unconscious, loosen tight clothing and lay the person on his/her left side. Give nothing by mouth to an individual who is not alert and conscious.</p>
Section 5. Fire-Fighting Measures	
James Hardie® fiber-cement products are neither flammable nor explosive	
Suitable extinguishing techniques:	Appropriate extinguishing techniques for surrounding fire should be used.
Fire-fighting equipment:	Fire fighting personnel should wear normal protective equipment and positive self-contained breathing apparatus.
Special hazards arising from the substance or mixture:	James Hardie® fiber-cement products are neither flammable nor explosive. Hazardous reactions will not occur under normal conditions. Fight fire with normal precautions from a reasonable distance.
Section 6. Accidental Release Measures	
Emergency procedures:	No special precautions are necessary in the event of an accidental release. The following precautions apply to spills or releases of dust generated during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement.
Protective equipment:	<p>Good housekeeping practices are necessary for cleaning up areas where spills or leaks have occurred. Take measures to either eliminate or minimize the creation of dust. Respirable dust and silica levels should be monitored regularly.</p> <p>Wherever possible, practices likely to generate dust should be controlled with engineering such as local exhaust ventilation, dust suppression through containment (e.g. wetting loose dust), enclosure, or covers.</p> <p>Use respiratory protection as described in Section 8.</p>
Proper methods of containment and clean-up:	A fine water spray should be used to suppress dust when sweeping (dry sweeping should not be attempted). Vacuuming with an industrial vacuum cleaner outfitted with a high-efficiency particulate (HEPA) filter is preferred to sweeping. Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.

Section 7. Handling and Storage			
Precautions of safe handling and storage:	<p>Fiber-cement boards in their intact state do not present a health hazard. The controls below apply to dust generated from the boards by cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust.</p> <p>James Hardie® recommended best practices for handling fiber-cement:</p> <p>Keep exposure to dust as low as reasonably possible. Respirable crystalline silica limits are specified by OSHA and MSHA and identified in Section 8 of this MSDS. Exposure to respirable (fine) silica dust depends on a variety of factors, including activity rate (e.g. cutting rate), method of handling (e.g. electric shears), environmental conditions (e.g. weather conditions, workstation orientation) and control measures used.</p> <p>Wherever possible, practices likely to generate dust should be carried out in well ventilated areas (e.g. outside). The work practices and engineering controls set out in Section 8 should be followed to reduce silica exposures.</p> <p>Keep away from reactive products. Do not store near food, beverages or smoking materials. Avoid spilling and creating dust. Maintain appropriate dust controls during handling. Use appropriate respiratory protection during handling as described in Section 8.</p>		
Incompatibilities:	<p>Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride or oxygen difluoride may cause fires and /or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.</p>		
Section 8. Exposure Controls / Personal Protection			
<p>OSHA Permissible Exposure Standards (PEL): Exposures shall not exceed an 8-hour time weighted average (TWA) limit as stated in 29 CFR 1910.1000 Table Z-3 for mineral dusts, expressed in million particles per cubic feet (Mppcf) and/or milligrams per cubic meter (mg/m³). The American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLV are that organization's recommended exposure limits based on an 8-hour TWA.</p>			
	TLV mg/m ³	PEL Mppsf	PEL mg/m ³
Crystalline Silica (Quartz) (Respirable)	0.025 mg/m ³ —	250 %SiO + 5	10 mg/m ³ %SiO + 2
Quartz (Total Dust)	—	—	30 mg/m ³ %SiO + 2
Calcium Carbonate (Total Dust) (Respirable)	10 mg/m ³ —	— —	15 mg/m ³ 5 mg/m ³

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Calcium Silicate (Total Dust) (Respirable)	— —	— —	15 mg/m ³ 5 mg/m ³
Nuisance Dust (Not Otherwise Specified) (Total Dust) (Respirable)	10 mg/m ³ (inhalable) 3 mg/m ³	50 15	15 mg/m ³ 5 mg/m ³
Cellulose (Total) (Respirable)	— —	— —	15 mg/m ³ 5 mg/m ³
Carbon Black	3.5 mg/m ³	—	3.5 mg/m ³
Other limits recommended: The National Institute of Occupational Safety and Health (NIOSH) also has a Recommended Exposure Limit (REL) of 0.05 mg/m ³ for respirable crystalline silica, based on a 10-hour time-weighted average.			
Engineering Controls			
<p>Personal protection when handling products that may generate silica dust: (1) follow James Hardie® instructions and best practices to reduce or limit the release of dust; (2) warn others in the area to avoid the dust; (3) when using mechanical saw or high-speed cutting tools, work outdoors and use dust collection equipment, and (4) if no other dust controls are available, wear a NIOSH-approved dust mask or respirator (e.g. N95 dust mask).</p> <p>During clean-up, use a well-maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet cleanup methods—never dry sweep.</p>			
Cutting Outdoors	<ol style="list-style-type: none"> 1. Position cutting station so that wind will blow dust away from user or others in working area and allow for ample dust dissipation 2. Use one of the following methods based on the required cutting rate and job-site conditions: <ul style="list-style-type: none"> BEST <ul style="list-style-type: none"> • Score and snap using carbide-tipped scoring knife or utility knife • Fiber-cement shears (electric or pneumatic) BETTER <ul style="list-style-type: none"> • Dust reducing circular saw equipped with Hardieblade™ saw blade and HEPA vacuum extraction GOOD (for low to moderate cutting only) <ul style="list-style-type: none"> • Dust reducing circular saw with Hardieblade™ saw blade 		
Cutting Indoors	<ul style="list-style-type: none"> • Cut only using score and snap method or with fiber-cement shears (manual, electric or pneumatic) • Position cutting station in well-ventilated area to allow for dust dissipation 		

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Sanding / Rebating / Drilling / Other Machining	If sanding, rebating, drilling or other machining is necessary, you should always wear a NIOSH-approved dust mask or respirator (e.g. N-95) and warn others in the immediate area.
Clean-Up	During clean-up of dust and debris, NEVER dry sweep as it may excite silica dust particles into the user's breathing area. Instead, wet debris down with a fine mist to suppress dust during sweeping, or use a HEPA vacuum to collect particles.
Important Notes	<ol style="list-style-type: none"> 1. For maximum protection (lowest respirable dust production), James Hardie® recommends always using "Best"-level cutting methods where feasible 2. NEVER use a power saw indoors 3. NEVER use a circular saw blade that does not carry the Hardieblade™ saw blade trademark 4. NEVER dry sweep – use wet suppression methods or HEPA vacuum 5. NEVER use a grinder or continuous rim diamond blade for cutting 6. ALWAYS follow tool manufacturer's safety recommendations
Personal Protective Equipment	
<ul style="list-style-type: none"> • Respiratory – If respirators are selected, use and maintain in accordance with ANSI Standard (Z88.2) for particulate respirators. Select respirators based on the level of exposure to crystalline silica as measured by dust sampling. Use respirators that offer protection to the highest concentrations of crystalline silica if the actual concentrations are unknown. Put in place a respiratory protection and monitoring program that complies with MSHA or OSHA (e.g. 29CFR1910.134) standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit-testing and other requirements. Comply with all other applicable federal and state laws. • Eye – When cutting material, dust resistant safety goggles / glasses should be worn and used in compliance with ANSI Standard Z87.1 and applicable OSHA (e.g. 29CFR1910.133) standards. • Skin – Loose comfortable clothing should be worn. Direct skin contact with dust and debris should be avoided by wearing long sleeved shirts and long trousers, a cap or hat, and gloves. Work clothes should be washed regularly. 	
Section 9. Physical and Chemical Properties	
Appearance and odor: Solid gray boards with varying dimensions according to product. Some product may have a surface coat of water-based acrylic paint or acrylic sealer	
Vapor Pressure: Not relevant	Flash Point: Not relevant
Specific Gravity: Not relevant	Autoignition Temperature: Not relevant
Flammability Limits: Not relevant	Volatility: Not relevant
Boiling Point: Not relevant	Solubility in water: Not relevant

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Melting Point: Not relevant	Evaporation rate: Not applicable
Section 10. Stability and Reactivity	
Stability:	Crystalline silica and limestone are stable under ordinary conditions
Conditions to Avoid:	Excessive dust generation during storage and handling
Materials to Avoid:	Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride or oxygen difluoride may cause fires and /or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.
Section 11. Toxicological Information	
Routes of exposure:	Fiber-cement is not toxic in its intact form. The following applies to dust that may be generated during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement.
Related symptoms:	<p>Repeated and prolonged overexposures to dust containing crystalline silica can cause silicosis (scarring of the lung) and increases the risk of bronchitis, tuberculosis, lung cancer, renal disease and scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). Some studies suggest that cigarette smoking increases the risk of silicosis, bronchitis, and lung cancer in persons also exposed to crystalline silica. Acute silicosis is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include, but are not limited to: shortness of breath, cough, fever, weight loss and chest pain. Such exposure may cause pneumoconiosis and pulmonary fibrosis.</p> <p>The following relates to health effects of cellulose: Based on limited animal research, it is possible that repeated chronic inhalation exposure to cellulose fiber dust over time may lead to inflammation and scarring of the lung in humans. Precautions taken for crystalline silica dust will protect against cellulose.</p> <p>Medical conditions generally aggravated by exposure – Pulmonary function may be reduced by inhalation of respirable crystalline silica and / or cellulose. If lung scarring occurs, such scarring could aggravate other lung conditions such as asthma, emphysema, pneumonia or restrictive lung diseases. Lung scarring from crystalline silica may also increase risks to pulmonary tuberculosis.</p> <p>Smoking – some studies suggest that cigarette smoking increases the risk of occupational respiratory diseases, including silica-related respiratory diseases.</p>
Acute and chronic effects:	<ul style="list-style-type: none"> • Acute toxicity – not classified • Skin corrosion / irritation – not classified • Serious eye damage / irritation – not classified • Respiratory or skin sensitization – not classified • Germ cell mutagenicity – not classified



	<ul style="list-style-type: none"> • Carcinogenity – may cause cancer if dust from product is inhaled • Specific target organ toxicity (repeated exposure) – causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product
Carcinogenity:	<p>California Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer</p> <p>International Agency for Research on Cancer (IARC): Crystalline silica inhaled in the forms of quartz or cristobalite from occupational sources is carcinogenic to humans</p> <p>Carbon black is possibly carcinogenic to humans</p> <p>The National Toxicology Program (NTP): NTP has concluded that respirable crystalline silica is a known human carcinogen</p> <p>LD50 (Silicon dioxide): Rat oral >22,500 mg / kg Mouse oral > 10,500 mg/kg</p>
Section 12. Ecological Information	
There is a very limited amount of ecological data available on the effects of releases that may occur from this product being released into the environment. Clean up of the spilled product would not be expected to leave any hazardous material that could cause a significant adverse impact. There is a limited amount of ecological data available on crystalline silica, primarily because it is a naturally occurring mineral. An adequate representation of these data is beyond the scope of this document.	
Section 13. Disposal Considerations	
Dispose of material as inert, non-metallic mineral in conformance with local, state and federal regulations. Crystalline silica and limestone is not a RCRA hazardous waste.	
Section 14. Transport Information	
There are no special requirements for storage and transport	
UN No:	None allocated
Dangerous goods class:	None allocated
Hazchem code:	None allocated
Poisons schedule:	None allocated
Packing group:	Not applicable
Label:	Not a DOT hazardous material. Local regulations may apply
Section 15. Regulatory Information	
DOT hazard classification:	None
Placard requirement:	Not a DOT hazardous material. Local placarding regulations may apply

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California Proposition 65:	Warning: Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer.
CERCLA hazardous substance (40CFR Part 302):	Listed substance: No Unlisted substance: No Reportable quantity (RQ): None Characteristic(s): Not applicable RCRA waste number: Not applicable
SARA. Title III. Sections 302 / 303 (40CFR part 355 – Emergency Planning and Notification):	Extremely hazardous substance: No
SARA. Title III. Section 311 / 312 (40CFR part 370 – Hazardous Chemical Reporting: Community Right-To-Know):	Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: No
SARA. Title III. Section 313 (40CFR part 372 – Toxic Chemical Release Reporting: Community Right-To-Know)	Not a RCRA hazardous waste
TSCA Inventory List:	Yes
TSCA 8(d):	No
Section 16. Other Information	
Prepared by Jeff Fry	Issue Date: 06/01/15



Read label before use			
FIBER CEMENT Contains: Crystalline Silica (quartz) 10-30% Calcium Silicate (hydrate) 10-60% Cellulose fiber<10%			
DANGER May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product.			
Prevention	Response:	Storage:	Disposal:
Refer to the product Safety Data Sheet before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust from the product. Do not eat, drink or smoke when using this product. Wear personal protective equipment, as specified below.	Wash hands and face thoroughly after handling. If exposed or concerned. Get medical advice. If shortness of breath or other health concerns develop after exposure to dust from the product, seek medical attention.	Fiber cement is not a health hazard when handled or stored in its original, unaltered condition	Dispose of product in accordance with local, state and national regulations. If there are no applicable regulations, dispose of in a secure landfill, or in a way that will not expose others to dust.
The hazard associated with fiber cement arises from the crystalline silica present in dust generated by activities such as cutting, rebating, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving dust. When doing any of these activities in a manner that generates dust: (1) follow James Hardie instructions and best practices to reduce or limit the release of dust; (2) warn others in the area to avoid dust; (3) work outdoors and use vacuum dust collection when using mechanical saws or other high speed cutting tools; (3) work outdoors and use appropriate vacuum dust collection when using mechanical saws or other high speed cutting tools and (4) wear a dust mask or respirator that meets applicable national regulations, as specified below.			
During clean-up, use a well maintained vacuum and filter appropriate for capturing respirable fine dust or use wet cleanup methods - never dry sweep.			
If using a dust mask or respirator, always use a NIOSH-approved dust mask or respirator (e.g., the N 95 dust mask).			
WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/product .			
James Hardie Building Products, Inc. 231 S. LaSalle St., Suite 2000 Chicago, IL 60604 USA 1-888_JHARDIE www.jameshardie.com www.jhsafesite.com			

This form has been prepared to meet current Federal OSHA hazard communication regulations and is offered without any warranty or guarantee of any type. James Hardie Building Products cannot control the use of its products, and therefore specifically disclaims liability and responsibility arising from the use, misuse and alteration of its products.

The information contained on this MSDS was produced without independent scientific or medical studies analyzing the effects of silica upon human health. The information contained herein is based upon scientific and other data James Hardie Building Products believes is valid and reliable and provides the basis for this MSDS. The information contained herein relates only to specific materials listed in the document. It does not address the effects of silica when used in combination with other materials or substances, or when used in other processes. Because conditions of use are beyond James Hardie Building Products control, the company makes no representation, guarantee or warranty of any kind in this MSDS, either express or implied, including the implied warranties of merchantability or fitness of the product for use for a particular purpose, and assumes no liability related to the information contained above.

James Hardie Building Products requires, as a condition of use of its products, that purchasers comply with all applicable federal, state, and local health and safety laws, regulations, orders, requirements, and strictly adhere to all instructions and warnings which accompany the product.



Impervia® Single-Hung Windows

Size and Performance Data

	Block Frame	Integral Nailing Fin	Flange Frame
Sizes			
Standard Vent	●	●	●
Standard Fixed	●	●	●
Standard Fixed Companion	●	●	●
Special Sizes Available	●	●	●
Performance¹			
Meets or Exceeds AAMA/WDMA Ratings	H-LC30-H-LC50 Hallmark Certified	H-LC30-H-LC50 Hallmark Certified	H-LC30-H-LC50 Hallmark Certified
Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure)	0.10	0.10	0.10
Water Resistance	4.6-7.5 psf	4.6-7.5 psf	4.6-7.5 psf
Design Pressure	30-50 psf	30-50 psf	30-50 psf
Other Performance Criteria			
Forced Entry Resistance Level (Minimum Security Grade) ²	40	40	40
Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ³	16/11 for units with sash ≤ 12 ft ² 21/30 for units with sash > 12 ft ²		
Maximum Locking Force (lb) Lock/Unlock	6/6	6/6	6/6

Sound Transmission Class and Outdoor-Indoor Transmission Class

Frame Size Tested ⁴	Glazing System			STC Rating	OITC Rating
	Overall Glazing Thickness	Exterior Glass Thickness	Interior Glass Thickness		
SINGLE-HUNG					
47-1/2" x 59-1/2"	1 1/16"	2.5mm	2.5mm	26	22
47-1/2" x 59-1/2"	1 1/16"	3mm	5mm	31	26
47-1/2" x 59-1/2"	1 1/16"	3mm	6mm Laminated	32	27

(1) Performance stated is for single units only.

Composite units are not AAMA/WDMA performance certified. Pella Impervia composites are engineered to meet performance class and grade shown in the design data tables.

(2) The higher the level, the greater the product's ability to resist forced entry.

(3) Glazing configurations may result in higher operational forces.

(4) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.



Impervia® Single-Hung Windows

Features and Options

	Block Frame	Integral Nailing Fin	Flange Frame
Glazing			
Glazing Type			
Dual-pane Insulating Glass	S	S	S
Insulated Glass Options / Low-E Types			
Clear Insulating Glass (no Low-E coating)	S	S	S
Advanced Low-E Insulating Glass	O	O	O
SunDefense™ Low-E Insulating Glass	O	O	O
AdvancedComfort Low-E Insulating Glass	O	O	O
NaturalSun Low-E Insulating Glass	O	O	O
Additional Glass Options			
Annealed Glass	S	S	S
Tempered Glass	O	O	O
Noise reduction glass (3/5mm, 4/6mm combinations)	O	O	O
Noise reduction laminated glass (non-impact)	O	O	O
Tinted glass (Bronze, Gray, Green) Advanced Low-E	O	O	O
Obscure Glass ¹	O	O	O
Gas Fill / High Altitude			
Argon	S	S	S
High Altitude	O	O	O
High Altitude with argon	O	O	O
Exterior / Interior			
Powder-Coat White	S	S	S
Powder-Coat Tan, Brown, Black, or Morning Sky Gray	O	O	O
Dual-color (All exterior colors available with White interior)	O	-	O
Hardware			
Match interior finish	S	S	S
Satin Nickel, Bright Brass or Oil-Rubbed Bronze	O	O	O
Sash Locks			
Self-aligning sash lock	S	S	S
Screens			
Conventional Black Fiberglass	O	O	O
InView™ Screens	O	O	O
Grilles			
Grilles-Between-the-Glass			
3/4" Contoured	O	O	O
Patterns			
Traditional	O	O	O
Prairie	O	O	O
Top Row	O	O	O
Special	O	O	O

S = Standard; O = Optional; (-) = Not available

(1) Contact your local Pella sales representative for current offering.



Impervia® Single-Hung Windows

Glazing Performance - Total Unit

Glass Thickness	Type of Glazing	NFRC Certified Product #	Glass (mm)		Gap Fill	Performance Values ¹				Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown					
			Ext.	Int.		U-Factor	SHGC	VLT	CR	U. S.					
										Zone				ER	Zone
										N	NC	SC	S	CA	
Vent															
11/16"	Clear IG	PEL-N-102-00822-00001	2.5	2.5	air	0.48	0.59	0.62	43						
	with grilles-between-the-glass	PEL-N-102-00822-00002				0.48	0.53	0.55	43						
11/16"	Clear IG	PEL-N-102-00822-00003	3	3	air	0.48	0.59	0.62	43						
	with grilles-between-the-glass	PEL-N-102-00822-00004				0.48	0.53	0.55	43						
11/16"	Advanced Low-E IG	PEL-N-102-00853-00001	2.5	2.5	argon	0.31	0.28	0.53	57						
	with grilles-between-the-glass	PEL-N-102-00853-00002				0.31	0.26	0.47	57						
11/16"	Advanced Low-E IG	PEL-N-102-00853-00003	3	3	argon	0.31	0.28	0.53	57						
	with grilles-between-the-glass	PEL-N-102-00853-00004				0.31	0.26	0.47	57						
11/16"	SunDefense™ IG	PEL-N-102-00867-00001	2.5	2.5	argon	0.30	0.21	0.49	57		NC	SC	S		
	with grilles-between-the-glass	PEL-N-102-00867-00002				0.30	0.19	0.43	57		NC	SC	S		
11/16"	SunDefense™ IG	PEL-N-102-00867-00003	3	3	argon	0.30	0.21	0.49	57		NC	SC	S		
	with grilles-between-the-glass	PEL-N-102-00867-00004				0.30	0.19	0.43	57		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-102-00879-00001	2.5	2.5	argon	0.27	0.28	0.52	46	N	NC				
	with grilles-between-the-glass	PEL-N-102-00879-00002				0.27	0.25	0.46	46	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-102-00879-00003	3	3	argon	0.27	0.28	0.52	46	N	NC				
	with grilles-between-the-glass	PEL-N-102-00879-00004				0.27	0.25	0.46	46	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-102-00841-00001	2.5	2.5	argon	0.32	0.52	0.60	57						
	with grilles-between-the-glass	PEL-N-102-00841-00002				0.32	0.47	0.53	57						
11/16"	NaturalSun Low-E IG	PEL-N-102-00841-00003	3	3	argon	0.32	0.52	0.60	57						
	with grilles-between-the-glass	PEL-N-102-00841-00004				0.32	0.47	0.53	57						
Vent – with Foam Insulation															
11/16"	Advanced Low-E IG	PEL-N-102-00927-00001	2.5	2.5	argon	0.28	0.28	0.53	58		NC				
	with grilles-between-the-glass	PEL-N-102-00927-00002				0.28	0.26	0.47	58		NC				
11/16"	Advanced Low-E IG	PEL-N-102-00927-00003	3	3	argon	0.28	0.28	0.53	58		NC				
	with grilles-between-the-glass	PEL-N-102-00927-00004				0.28	0.26	0.47	58		NC				
11/16"	SunDefense IG	PEL-N-102-00941-00001	2.5	2.5	argon	0.28	0.21	0.49	58		NC	SC	S		
	with grilles-between-the-glass	PEL-N-102-00941-00002				0.28	0.19	0.43	58		NC	SC	S		
11/16"	SunDefense IG	PEL-N-102-00941-00003	3	3	argon	0.28	0.21	0.49	58		NC	SC	S		
	with grilles-between-the-glass	PEL-N-102-00941-00004				0.28	0.19	0.43	58		NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-102-00953-00001	2.5	2.5	argon	0.24	0.28	0.52	46	N	NC				
	with grilles-between-the-glass	PEL-N-102-00953-00002				0.24	0.25	0.46	46	N	NC	SC	S		
11/16"	AdvancedComfort Low-E IG	PEL-N-102-00953-00003	3	3	argon	0.24	0.28	0.52	46	N	NC				
	with grilles-between-the-glass	PEL-N-102-00953-00004				0.24	0.25	0.46	46	N	NC	SC	S		
11/16"	NaturalSun Low-E IG	PEL-N-102-00915-00001	2.5	2.5	argon	0.29	0.52	0.60	57	N					
	with grilles-between-the-glass	PEL-N-102-00915-00002				0.29	0.47	0.53	57	N					
11/16"	NaturalSun Low-E IG	PEL-N-102-00915-00003	3	3	argon	0.29	0.52	0.60	57	N					
	with grilles-between-the-glass	PEL-N-102-00915-00004				0.29	0.47	0.53	57	N					

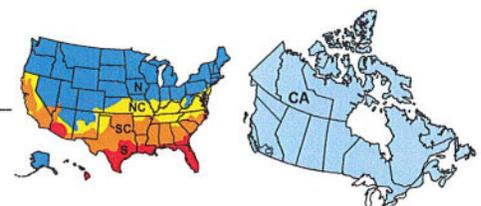
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated based on NFRC 100, NFRC 200 and NFRC 500. ENERGY STAR® values are updated to 2016 (Version 6) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

For center-glass values, see the Product Performance section.

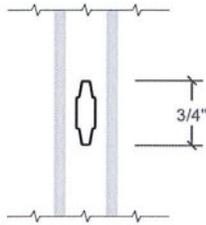
See the Product Performance section for more detailed information or visit www.energystar.gov for Energy Star guidelines.





Grille Profiles

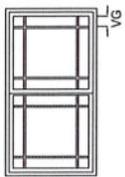
Grilles-Between-the-Glass



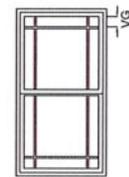
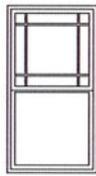
3/4" Contour

Grille Patterns

Prairie Lite Patterns



9-Lite Prairie

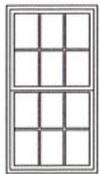


6-Lite Prairie

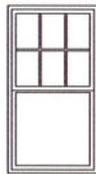
Prairie

- Standard corner lite dimension for Prairie patterns = 4" visible glass (VG).
- Pattern availability may vary depending on size of unit.

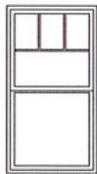
Other Patterns



Traditional



Special



Top Row ⁽¹⁾

- Pattern availability may vary depending on size of unit.

(1) Standard visible glass to center line of separator bar = 14" or half of total visible glass height, whichever is smaller. Multiple rows are available up to 50% glass size.



Impervia® Single-Hung Windows

Size Tables

Fixed Units

(457) (445)	(610) (597)	(711) (699)	(762) (749)	⁹ / ₁₆ " (813) (800)	(914) (902)	(1 067) (1 054)	(1 219) (1 207)
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Opening	1' 6"	2' 0"	2' 4"	2' 6"	2' 8"	3' 0"	3' 6"	4' 0"
Frame	1' 5 1/2"	1' 11 1/2"	2' 3 1/2"	2' 5 1/2"	2' 7 1/2"	2' 11 1/2"	3' 5 1/2"	3' 11 1/2"
1' 2"	1-6/1-2	2-0/1-2	2-4/1-2	2-6/1-2	2-8/1-2	3-0/1-2	3-6/1-2	4-0/1-2
1' 6"	1-6/1-6	2-0/1-6	2-4/1-6	2-6/1-6	2-8/1-6	3-0/1-6	3-6/1-6	4-0/1-6
2' 0"	1-6/2-0	2-0/2-0	2-4/2-0	2-6/2-0	2-8/2-0	3-0/2-0	3-6/2-0	4-0/2-0
2' 6"	1-6/2-6	2-0/2-6	2-4/2-6	2-6/2-6	2-8/2-6			
3' 0"	1-6/3-0	2-0/3-0	2-4/3-0	2-6/3-0	2-8/3-0	3-0/3-0	3-6/3-0	4-0/3-0
3' 6"	1-6/3-6	2-0/3-6	2-4/3-6	2-6/3-6	2-8/3-6	3-0/3-6	3-6/3-6	4-0/3-6
4' 0"	1-6/4-0	2-0/4-0	2-4/4-0	2-6/4-0	2-8/4-0	3-0/4-0	3-6/4-0	4-0/4-0
4' 6"	1-6/4-6	2-0/4-6	2-4/4-6	2-6/4-6	2-8/4-6	3-0/4-6	3-6/4-6	4-0/4-6
5' 0"	1-6/5-0	2-0/5-0	2-4/5-0	2-6/5-0	2-8/5-0	3-0/5-0	3-6/5-0	4-0/5-0
5' 6"	1-6/5-6	2-0/5-6	2-4/5-6	2-6/5-6	2-8/5-6	3-0/5-6	3-6/5-6	4-0/5-6
6' 0"	1-6/6-0	2-0/6-0	2-4/6-0	2-6/6-0	2-8/6-0	3-0/6-0	3-6/6-0	4-0/6-0
6' 6"	1-6/6-6	2-0/6-6	2-4/6-6	2-6/6-6	2-8/6-6	3-0/6-6	3-6/6-6	4-0/6-6

Vent Units

Egress Notes:
 Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Does not meet egress with High Performance sill adapter kit installed.
 (2) Unit meets E1 with High Performance sill adapter kit installed.

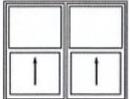
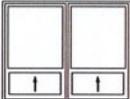
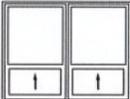
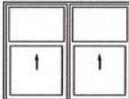
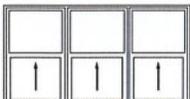
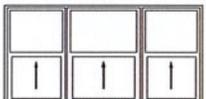
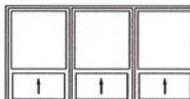
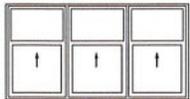
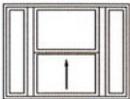
See Design Data pages in this section for clear opening dimensions.

Not to scale.
 Special size units are available in 1/8" increments. Subtract 1/2" from opening height to calculate vent area for High Performance unit.



Impervia® Single-Hung Windows

Special Sizes and Composite Assemblies

<p>(Equal) Vent</p>  <p>MINIMUM 1' 5-1/2" W x 1' 11-1/2" H (445 x 609)</p> <p>MAXIMUM 3' 11-1/2" W x 6' 5-1/2" H (1 219 x 1 968)</p>	<p>24" Lower Sash Vent</p>  <p>MINIMUM 1' 5-1/2" W x 4' 5-1/2" H (445 x 1 359)</p> <p>MAXIMUM 3' 11-1/2" W x 6' 5-1/2" H (1 219 x 1 981)</p>	<p>30" Lower Sash Vent</p>  <p>MINIMUM 1' 5-1/2" W x 5' 5-1/2" H (457 x 1 664)</p> <p>MAXIMUM 3' 11-1/2" W x 6' 11-1/2" H (1 219 x 2 134)</p>	<p>42" Lower Sash Vent</p>  <p>MINIMUM 1' 5-1/2" W x 5' 5-1/2" H (445 x 1 664)</p> <p>MAXIMUM 3' 11-1/2" W x 5' 5-1/2" H (1 219 x 1 676)</p>
<p>2-Wide (Equal) Vent Composite</p>  <p>MINIMUM 2' 11-1/2" W x 1' 11-1/2" H (914 x 609)</p> <p>MAXIMUM 7' 11-1/2" W x 5' 11-1/2" H (3 657 x 1 816)</p>	<p>2-Wide 24" Lower Sash Vent Composite</p>  <p>MINIMUM 2' 11-1/2" W x 4' 5-1/2" H (914 x 1 359)</p> <p>MAXIMUM 7' 11-1/2" W x 6' 5-1/2" H (2 438 x 1 981)</p>	<p>2-Wide 30" Lower Sash Vent Composite</p>  <p>MINIMUM 2' 11-1/2" W x 5' 5-1/2" H (914 x 1 664)</p> <p>MAXIMUM 7' 11-1/2" W x 6' 11-1/2" H (2 438 x 2 134)</p>	<p>2-Wide 42" Lower Sash Vent Composite</p>  <p>MINIMUM 2' 11-1/2" W x 5' 5-1/2" H (914 x 1 676)</p> <p>MAXIMUM 7' 11-1/2" W x 5' 5-1/2" H (2 438 x 1 676)</p>
<p>3-Wide (Equal) Vent Composite</p>  <p>MINIMUM 4' 5-1/2" W x 1' 11-1/2" H (1 371 x 609)</p> <p>MAXIMUM 8' 9-1/2" W x 6' 5-1/2" H (2 680 x 1 981)</p>	<p>3-Wide (Unequal) Vent Composite</p>  <p>MINIMUM 4' 5-1/2" W x 1' 11-1/2" H (1 371 x 609)</p> <p>MAXIMUM 8' 9-1/2" W x 6' 5-1/2" H (2 680 x 1 981)</p>	<p>3-Wide 24" Lower Sash Vent Composite</p>  <p>MINIMUM 4' 5-1/2" W x 4' 5-1/2" H (1 130 x 1 359)</p> <p>MAXIMUM 8' 9-1/2" W x 6' 5-1/2" H (2 680 x 1 981)</p>	<p>3-Wide 30" Lower Sash Vent Composite</p>  <p>MINIMUM 4' 5-1/2" W x 5' 5-1/2" H (1 371 x 1 664)</p> <p>MAXIMUM 8' 9-1/2" W x 6' 5-1/2" H (2 680 x 1 981)</p> <p>- or -</p> <p>7' 11-1/2" W x 6' 11-1/2" H (2 426 x 2 133)</p>
<p>3-Wide 42" Lower Sash Vent Composite</p>  <p>MINIMUM 4' 5-1/2" W x 5' 5-1/2" H (1 371 x 1 664)</p> <p>MAXIMUM 8' 9-1/2" W x 5' 5-1/2" H (2 680 x 1 664)</p>	<p>Vent with Fixed Flankers Composite</p>  <p>MINIMUM 3' 9-1/2" W x 2' 11-1/2" H (1 981 x 914)</p> <p>MAXIMUM Vent: 3' 11-1/2" W x 4' 11-1/2" H (1 219 x 1 524) Fixed: 1' 1-1/2" W x 4' 11-1/2" H (343 x 1 524)</p>	<p>Fixed with Vent Flankers Composite</p>  <p>MINIMUM 4' 1/2" W x 1' 11-1/2" H (1 245 x 610)</p> <p>MAXIMUM 9' 11-1/2" W x 5' 11-1/2" H (3 048 x 1 828)</p> <p>Center Unit Width ≤ 4' 11-1/2"</p>	<p>General Notes:</p> <ul style="list-style-type: none"> To convert areas to square meters (m²), multiply square feet by 0.0929. Rough Opening = Frame Dimension + 1/2". Keep frame dimensions to the nearest 1/8" increment. Tempered glass must measure > 18-1/2" diagonally. Single units with a frame height of 59-1/2" or greater are available with a dry-wall pass through option.

Composite units are not AAMA/WDMA performance certified. Pella Impervia composites are engineered to meet the performance class and grade shown in the Design Data tables. For special size units, use the performance class and grade for the next larger standard size unit.



Impervia® Single-Hung Windows

Design Data

Miscellaneous Formulas

	Total Glass Height (TGH)	Actual Glass Width (AGW)	Actual Vent Glass Height (AVGH)	Actual Fixed Glass Height (AFGH)	Visible Glass Width (VGW)	Vent Visible Glass Height (VVGH)	Fixed Visible Glass Height (FVGH)
Vent	FH - 6-1/4"	FW - 5-1/8"	(FH ÷ 2) - 3-1/8"	TGH - AVGH	FW - 6-1/16"	(FH ÷ 2) - 4-1/16" or AVGH - 15/16"	AFGH - 15/16"
Contemporary 2' vent	FH - 6-1/4"	FW - 5-1/8"	20-5/8"	TGH - AVGH	FW - 6-1/16"	19-11/16"	AFGH - 15/16"
Contemporary 2'6" vent	FH - 6-1/4"	FW - 5-1/8"	26-5/8"	TGH - AVGH	FW - 6-1/16"	25-11/16"	AFGH - 15/16"
Cottage 3'6" vent	FH - 6-1/4"	FW - 5-1/8"	38-5/8"	TGH - AVGH	FW - 6-1/16"	37-11/16"	AFGH - 15/16"

Clear Opening Formulas (Equal Vent Single Units Only)

Clear Opening	Width = Frame Width - 3-9/16" Height = ((Frame Height ÷ 2) - 3-9/16")
Vent Sash Height	Actual Vent Glass + 2-5/16"

KEY:

AGW = Actual Glass Width
 AGH = Actual Glass Height
 AVGH = Actual Vent Glass Height
 AFGH = Actual Fixed Glass Height
 TGH = Total Glass Height
 COW = Clear Opening Width
 COH = Clear Opening Height

To convert area to square meters (m²), multiply square feet by 0.0929.



Impervia® Single-Hung Windows

Design Data

Single Vent Units - Equal Sash

Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ⁽³⁾
		Width (Inches)	Height (Inches)			Annealed	Tempered	
1-6/2-0		13-15/16	8-3/16	0.8	1.2	3	3	LC50
1-6/2-6		13-15/16	11-3/16	1.1	1.7	3	3	LC50
1-6/3-0		13-15/16	14-3/16	1.4	2.2	2.5	3	LC50
1-6/3-6		13-15/16	17-3/16	1.7	2.6	2.5	3	LC50
1-6/4-0		13-15/16	20-3/16	2.0	3.1	2.5	3	LC50
1-6/4-6		13-15/16	23-3/16	2.2	3.6	2.5	3	LC50
1-6/5-0		13-15/16	26-3/16	2.5	4.1	2.5	3	LC50
1-6/5-6		13-15/16	29-3/16	2.8	4.5	2.5	3	LC50
1-6/6-0		13-15/16	32-3/16	3.1	5.0	2.5	3	LC40/LC50
1-6/6-6		13-15/16	35-3/16	3.4	5.5	2.5	3	LC40/LC50
2-0/2-0		19-15/16	8-3/16	1.1	1.8	3	3	LC50
2-0/2-6		19-15/16	11-3/16	1.5	2.6	3	3	LC50
2-0/3-0		19-15/16	14-3/16	2.0	3.3	2.5	3	LC50
2-0/3-6		19-15/16	17-3/16	2.4	4.0	2.5	3	LC50
2-0/4-0		19-15/16	20-3/16	2.8	4.7	2.5	3	LC50
2-0/4-6		19-15/16	23-3/16	3.2	5.5	2.5	3	LC50
2-0/5-0		19-15/16	26-3/16	3.6	6.2	2.5	3	LC50
2-0/5-6		19-15/16	29-3/16	4.0	6.9	2.5	3	LC50
2-0/6-0		19-15/16	32-3/16	4.5	7.6	2.5	3	LC40/LC50
2-0/6-6		19-15/16	35-3/16	4.9	8.4	2.5	3	LC40/LC50
2-4/2-0		23-15/16	8-3/16	1.4	2.3	3	3	LC50
2-4/2-6		23-15/16	11-3/16	1.7	3.1	3	3	LC50
2-4/3-0		23-15/16	14-3/16	2.4	4.0	2.5	3	LC50
2-4/3-6		23-15/16	17-3/16	2.9	4.9	2.5	3	LC50
2-4/4-0		23-15/16	20-3/16	3.4	5.8	2.5	3	LC50
2-4/4-6		23-15/16	23-3/16	3.8	6.7	2.5	3	LC50
2-4/5-0		23-15/16	26-3/16	4.3	7.6	2.5	3	LC50
2-4/5-6		23-15/16	29-3/16	4.8	8.5	2.5	3	LC50
2-4/6-0	E1	23-15/16	32-3/16	5.3	9.4	2.5	3	LC40/LC50
2-4/6-6	E	23-15/16	35-3/16	5.8	10.3	2.5	3	LC40/LC50
2-6/2-0		25-15/16	8-3/16	1.5	2.5	3	3	LC50
2-6/2-6		25-15/16	11-3/16	2.0	3.5	3	3	LC50
2-6/3-0		25-15/16	14-3/16	2.6	4.5	2.5	3	LC50
2-6/3-6		25-15/16	17-3/16	3.1	5.4	2.5	3	LC50
2-6/4-0		25-15/16	20-3/16	3.6	6.4	2.5	3	LC50
2-6/4-6		25-15/16	23-3/16	4.2	7.4	2.5	3	LC50
2-6/5-0		25-15/16	26-3/16	4.7	8.4	2.5	3	LC50
2-6/5-6	E1	25-15/16	29-3/16	5.3	9.3	2.5	3	LC50
2-6/6-0	E	25-15/16	32-3/16	5.8	10.3	2.5	3	LC40/LC50
2-6/6-6	E	25-15/16	35-3/16	6.3	11.3	2.5	3	LC40/LC50

1 of 2

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Does not meet egress with High Performance sill adapter kit installed.

(3) Maximum performance when glazed with the appropriate glass thickness.

The second value, where shown, is the maximum performance with Performance Upgrade Kit applied.

To convert area to square meters (m²), multiply square feet by 0.0929.

Subtract 1/2" from opening height to calculate vent area for High Performance unit.



Impervia® Single-Hung Windows

Design Data

Single Vent Units - Equal Sash

Unit	Egress	Clear Opening		Vent Area Ft ²	Visible Glass Ft ²	Standard Glass Thickness (mm)		Performance Class & Grade ⁽³⁾
		Width (Inches)	Height (Inches)			Annealed	Tempered	
2-8/2-0		27-15/16	8-3/16	1.6	2.7	3	3	LC50
2-8/2-6		27-15/16	11-3/16	2.2	3.7	3	3	LC50
2-8/3-0		27-15/16	14-3/16	2.7	4.8	2.5	3	LC50
2-8/3-6		27-15/16	17-3/16	3.3	5.9	2.5	3	LC50
2-8/4-0		27-15/16	20-3/16	3.9	6.9	2.5	3	LC50
2-8/4-6		27-15/16	23-3/16	4.5	8.0	2.5	3	LC50
2-8/5-0	E1(1)	27-15/16	26-3/16	5.1	9.0	2.5	3	LC50
2-8/5-6	E1	27-15/16	29-3/16	5.6	10.1	2.5	3	LC50
2-8/6-0	E	27-15/16	32-3/16	6.2	11.2	2.5	3	LC40/LC50
2-8/6-6	E	27-15/16	35-3/16	6.8	12.2	2.5	3	LC40/LC50
3-0/3-0		31-15/16	14-3/16	3.1	5.5	3	3	LC50
3-0/3-6		31-15/16	17-3/16	3.8	6.8	2.5	3	LC50
3-0/4-0		31-15/16	20-3/16	4.5	8.0	2.5	3	LC50
3-0/4-6		31-15/16	23-3/16	5.1	9.2	2.5	3	LC50
3-0/5-0	E(2)	31-15/16	26-3/16	5.8	10.5	2.5	3	LC50
3-0/5-6	E	31-15/16	29-3/16	6.5	11.7	2.5	3	LC50
3-0/6-0	E	31-15/16	32-3/16	7.1	12.9	2.5	3	LC40/LC50
3-0/6-6	E	31-15/16	35-3/16	7.8	14.1	2.5	3	LC40/LC50
3-6/3-0		37-15/16	14-3/16	3.7	6.7	3	3	LC40/LC50
3-6/3-6		37-15/16	17-3/16	4.8	8.2	2.5	3	LC40/LC50
3-6/4-0		37-15/16	20-3/16	5.3	9.6	2.5	3	LC40/LC50
3-6/4-6		37-15/16	23-3/16	6.1	11.1	2.5	3	LC40/LC50
3-6/5-0	E	37-15/16	26-3/16	6.9	12.6	2.5	3	LC40/LC50
3-6/5-6	E	37-15/16	29-3/16	7.7	14.1	2.5	3	LC40/LC50
3-6/6-0	E	37-15/16	32-3/16	8.5	15.5	2.5	3	LC40/LC50
3-6/6-6	E	37-15/16	35-3/16	9.3	17.0	2.5	3	LC40/LC50
4-0/3-0		43-15/16	14-3/16	4.3	7.8	3	3	LC40/LC50
4-0/3-6		43-15/16	17-3/16	5.2	9.5	2.5	3	LC40/LC50
4-0/4-0		43-15/16	20-3/16	6.2	11.3	2.5	3	LC40/LC50
4-0/4-6		43-15/16	23-3/16	7.1	13.0	2.5	3	LC40/LC50
4-0/5-0	E	43-15/16	26-3/16	8.0	14.7	2.5	3	LC40/LC50
4-0/5-6	E	43-15/16	29-3/16	8.9	16.4	2.5	3	LC40/LC50
4-0/6-0	E	43-15/16	32-3/16	9.8	18.2	3	3	LC40/LC50
4-0/6-6	E	43-15/16	35-3/16	10.7	19.9	3.0	3	LC40/LC45

2 of 2

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Does not meet egress with High Performance sill adapter kit installed.

(2) Unit meets E1 with High Performance sill adapter kit installed.

(3) Maximum performance when glazed with the appropriate glass thickness.

The second value, where shown, is the maximum performance with Performance Upgrade Kit applied.

To convert area to square meters (m²), multiply square feet by 0.0929.

Subtract 1/2" from opening height to calculate vent area for High Performance unit.



Impervia® Single-Hung Windows

Detailed Product Descriptions

Frame

- Frame is Duracast® fiberglass composite – five-layer pultruded fiberglass material [with optional foam insulation₁] reinforced with a Pella patented interlocking mat.
- Overall frame depth is 3".
- Nominal wall thickness of Duracast fiberglass composite members is .050" to .070" thick.
- Frame corners are mitered, joined and bonded with corner lock and mechanically fastened with injected polyurethane adhesive.
- Sill is fitted with weep valve assemblies.
- Jambs contain factory drilled (counter-bored) installation screw holes. Block and Flush Flange frames only.

Sash

- Sash is Duracast fiberglass composite–five-layer pultruded fiberglass material [with optional foam insulation₁] reinforced with a Pella patented interlocking mat.
- All sash members have mitered corners bonded with corner lock and sealed with injected polyurethane adhesive.

EXTERIOR / INTERIOR

- Duracast fiberglass composite surfaces with powder-coat paint finish.
 - Color is [White] [Tan] [Brown] [Black] [Morning Sky Gray].
 - or –
 - Dual-color option [Tan] [Brown] [Black] [Morning Sky Gray] exterior with White interior₂.

Glazing System

- Quality float glass complying with ASTM C 1036.
- 11/16" insulating glass [[annealed] [tempered]] [obscure₃] [clear] [[Advanced] [SunDefense™] [AdvancedComfort] [NaturalSun] Low-E coated, [with argon]] [[bronze] [gray] [green] Advanced Low-E [with Argon]] sealed and bonded to sash.
- High altitude glazing available.

Weatherstripping

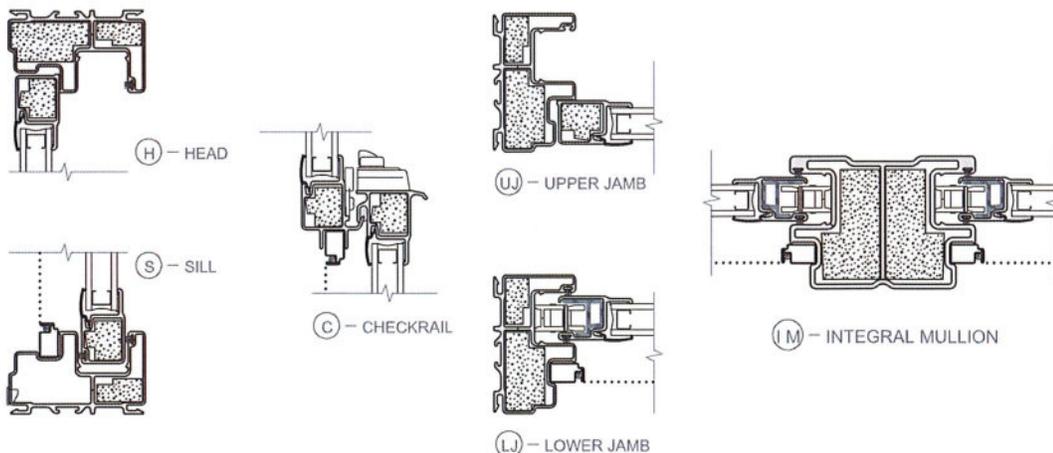
- Sash is weatherstripped around the perimeter with a dual fin-type pile weatherstrip.

Hardware

- Galvanized block-and-tackle balances connected to sash with polyester cord and concealed within the frame.
- Lower sash shall be fully operable for ventilation.
- Window jamb has take-out clips to remove vent.
- All fasteners are of a corrosion-resistant material.
- Two locks are installed on units 37" wide or greater.
- Locks are zinc die-cast, self-aligning cam action factory-installed on the interlocker [powder-coat painted [White] [Tan] [Brown] [Matte Black] [Morning Sky Gray] to match finish] [Satin Nickel] [Bright Brass] [Oil-Rubbed Bronze].

Foam Insulation Inserts₁

Single Hung



(1) Foam insulation inserts are not available with clear glazing.

(2) Dual-color finish is not available on products with integral nailing fin.

(3) Obscure glazing is not available when AdvancedComfort Low-E coated IG is specified.

Optional Products

Screens

- Conventional Black Fiberglass
 - Half-size with black vinyl coated 18/16 mesh fiberglass screen cloth complying with ASTM D 3656 and SMA 1201.
 - Set in aluminum frame and fitted to outside of window.
 - Supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, color to match exterior.
- InView™ Screen
 - Half-size with black vinyl coated 18/18 mesh fiberglass screen cloth complying with SMA 1201.
 - Set in aluminum frame and fitted to outside of window.
 - Supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, color to match exterior.

Grilles

- Grilles-Between-the-Glass
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Grilles are factory prefinished [White] [Tan] [Brown] [Black] [Morning Sky Gray] to match interior and exterior finish.

Hardware

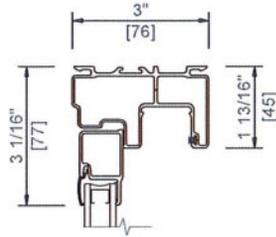
- Optional limited opening device available for field installation on vent units in [White] [Tan] [Brown] [Black] [Morning Sky Gray] vinyl to match interior of unit; nominal 3-3/4" opening.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.
- Optional field applied Duracast sash lift available for vent units in [White] [Tan] [Brown] [Black] [Morning Sky Gray].



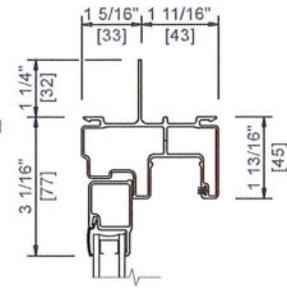
Impervia® Single-Hung Windows

Frame Types

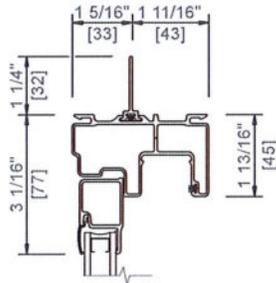
STANDARD
BLOCK FRAME



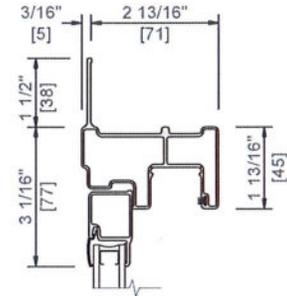
INTEGRAL NAILING FIN



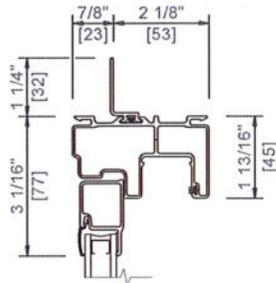
BLOCK FRAME
STANDARD FIN



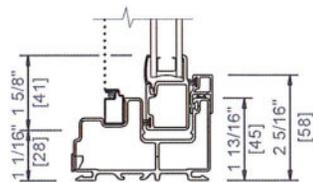
FLUSH FLANGE



BLOCK FRAME
OFFSET FIN



BLOCK FRAME
DP50 SILL DAM



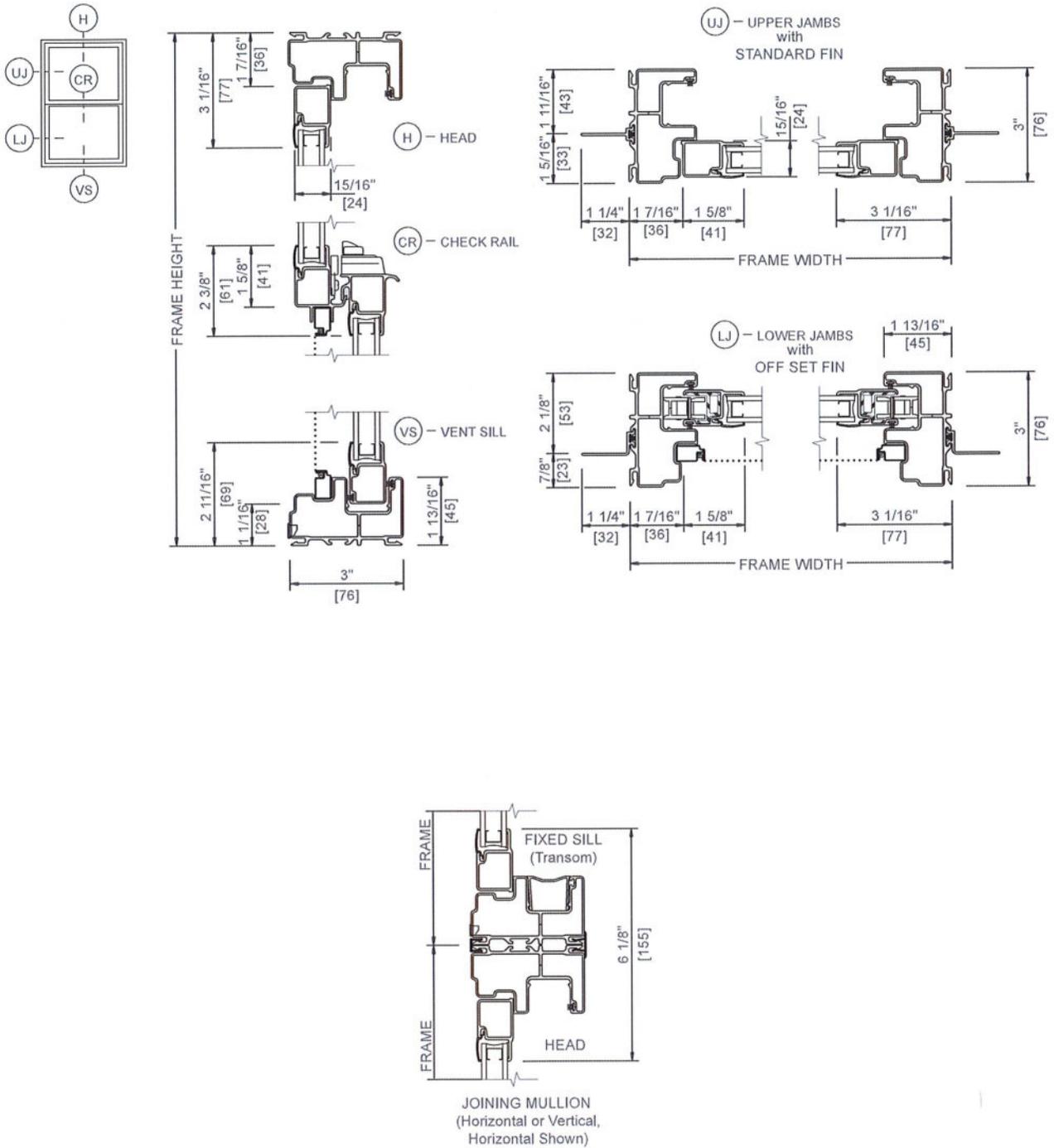
Scale 3" = 1' 0"

All dimensions are approximate.

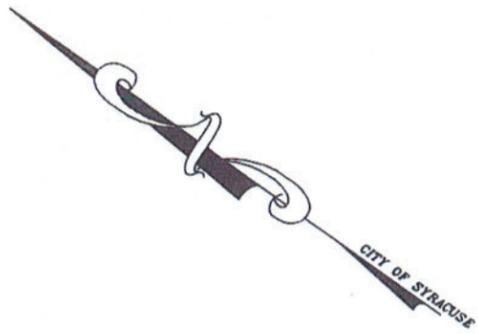


Impervia® Single-Hung Windows

Unit Sections



Scale 3" = 1' 0"
All dimensions are approximate.



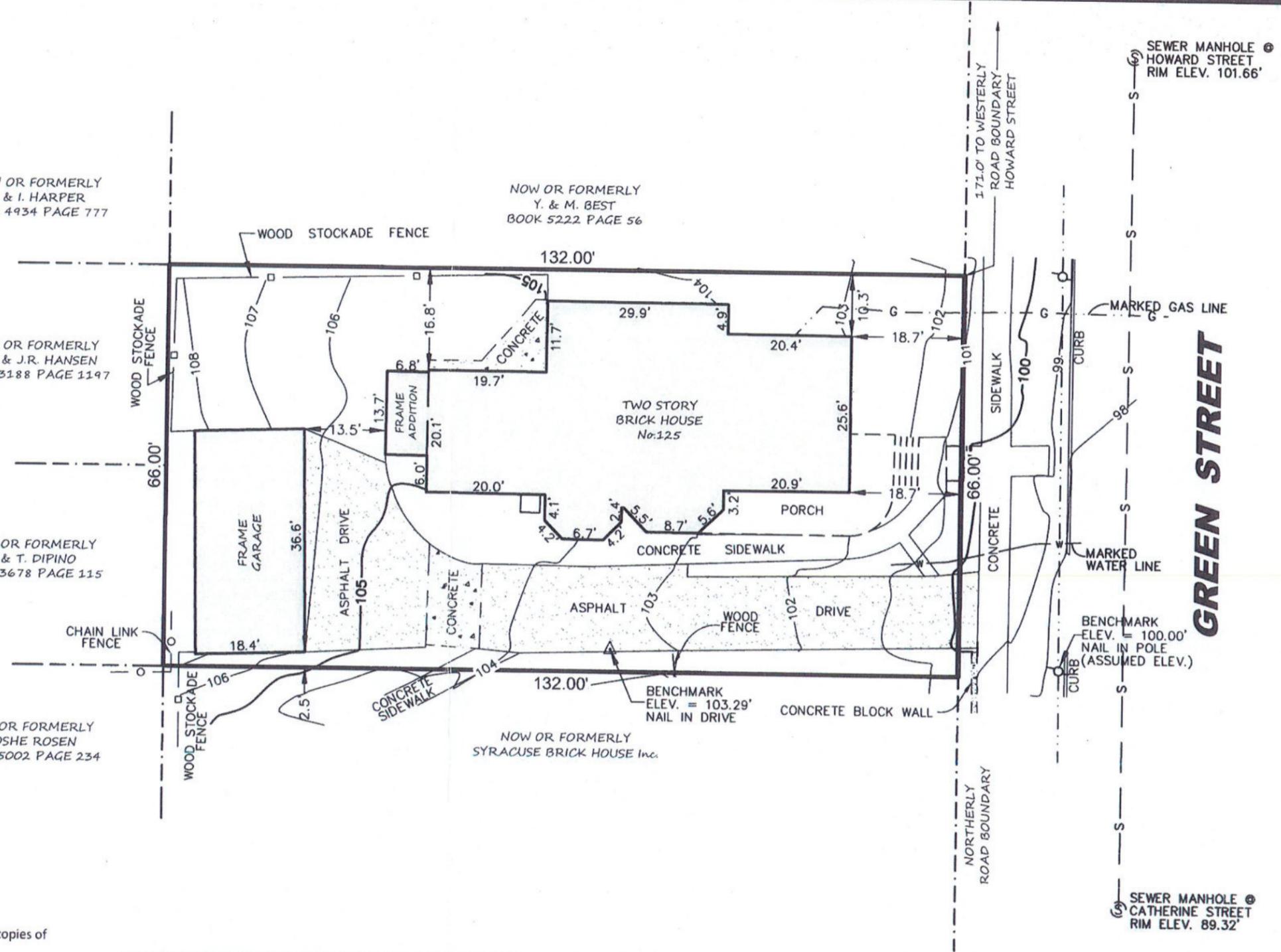
NOW OR FORMERLY
C. & I. HARPER
BOOK 4934 PAGE 777

NOW OR FORMERLY
Y. & M. BEST
BOOK 5222 PAGE 56

NOW OR FORMERLY
W.C. & J.R. HANSEN
BOOK 3188 PAGE 1197

NOW OR FORMERLY
F. & T. DIPINO
BOOK 3678 PAGE 115

NOW OR FORMERLY
MOSHE ROSEN
BOOK 5002 PAGE 234



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Survey prepared without the benefit of an abstract.

Location surveys do not include the staking of the property corners except as shown.

No building construction and/or improvements can be performed until the correct applications have been submitted for approval.

LEHR
LAND SURVEYORS D.P.C.



116 SALINA STREET- SUITE 6
LIVERPOOL, NEW YORK 13088
315-451-3333
info@lehrlandsurveyors.com

I HEREBY CERTIFY THAT THIS IS AN
ACCURATE MAP MADE FROM AN ACTUAL SURVEY.

LICENSED LAND SURVEYOR
DOUGLAS R. LEHR NYSLS 49223

LOCATION SURVEY ON LOT No.12, BLOCK No.162
CITY OF SYRACUSE

KNOWN AS No.125 GREEN STREET, CITY OF SYRACUSE,
COUNTY OF ONONDAGA, NEW YORK

DATE: 20 NOV 2013	SCALE: 1"=20'	DRAWN BY: KRH
REVISIONS: UPDATED & TOPO ADDED 10-08-19		DRAWING No. 13-J-132 *B*

Helio Health

Minor Maintenance Project 2016

125 Green Street
Syracuse, New York 13203

Schopfer Architects LLP
1111 James Street Syracuse, N.Y.



Mr. William Ruckyj
Operations Director
Helio Health
555 East Genesee Street
Syracuse, NY 13202

Project No.
1647
Date:
08-08-2018
11-14-2019

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LIST OF DRAWINGS

- COVER SHEET
- L-101 SITE PLAN
- A-101 FLOOR PLANS, DOOR & WINDOW SCHEDULES
- A-401 ENLARGED PLANS, SECTIONS, ELEVATIONS & DETAILS
- P-101 PLUMBING FLOOR PLANS
- E-101 ELECTRICAL PLANS

GENERAL CONSTRUCTION NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WRING FROM POWER PANELS TO EQUIPMENT DISCONNECT SWITCHES/COMBINATION STARTERS. OTHER CONTRACTORS SHALL PROVIDE POWER WRING FROM DISCONNECT/STARTERS TO EQUIPMENT AND CONTROL WRING.
2. ALL WORK DESCRIBED WITHIN THESE CONTRACT DOCUMENTS AND THE ASSOCIATED SPECIFICATION BOOK CONSTITUTE THE PROJECT AND CONTAIN THE GENERAL INTENT AND SPECIFIC DETAIL OF THE PROJECT. ALL CONTRACTORS WILL BE HELD RESPONSIBLE FOR WORK THAT IS REASONABLY FORESEEABLE AS DESCRIBED WITHIN THESE CONTRACT DOCUMENTS. THE DOCUMENTS DESCRIBE THE GENERAL INTENT OF THE WORK AND PROVIDE DETAIL TO CONVEY THE DESIRED EFFECT. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING, PROVIDING MATERIALS, AND ACHIEVING THE OVERALL INTENT AS REPRESENTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS ADVISED TO SEEK CLARIFICATION WHEN NECESSARY AND REASONABLE FROM ARCHITECT/ENGINEER.
3. THE SITE IS TO BE KEPT IN A CLEAN AND ORDERLY FASHION AT ALL TIMES.
4. ANY CHANGES IN THE WORK NOT SPECIFICALLY AUTHORIZED OR APPROVED BY THE ARCHITECT/OWNER ARE ELIGIBLE FOR REJECTION AS INCONSISTENT WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CONTACT THE ARCHITECT PRIOR TO THE COMPLETION OF ANY WORK INCONSISTENT WITH THE INTENT OF THE DRAWINGS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, FEDERAL AND UTILITY COMPANY CODES / REGULATIONS. THE GENERAL CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL REQUIRED PERMITS, AND SHALL BE RESPONSIBLE FOR INSPECTIONS AND CERTIFICATIONS OF COMPLIANCE AS REQUIRED. COPIES OF SUCH INSPECTIONS AND VERIFICATIONS SHALL BE PROVIDED TO ARCHITECT AND OWNER.
6. CONTRACTOR SHALL EXAMINE THE SITE AND CHECK EXISTING CONDITIONS TO THE FULL EXTENT OF THE SCOPE OF WORK. CONTRACTOR SHALL COORDINATE WORK WITH ALL TRADES AND OTHER CONTRACTORS RETAINED BY THE OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO EXECUTION OF WORK.
7. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE AND BE RESPONSIBLE FOR SAME. IN THE EVENT OF DISCREPANCIES, CONFLICTS OR DOUBTS, CONTRACTOR SHALL NOTIFY ARCHITECT IN SUFFICIENT TIME TO RESOLVE PROBLEMS BEFORE PROCEEDING WITH WORK IN QUESTION. BY ENTERING INTO THIS CONTRACT, THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL CONDITIONS UNLESS NOTED OTHERWISE THAT WILL AFFECT THE SCOPE OF WORK.
8. CONTRACTOR SHALL PROVIDE PROPER CLEAN UP OF ALL WORK BEFORE FINAL PAYMENT. THIS INCLUDES FINISHES AND ADJACENT SITE.
9. CONTRACTOR SHALL REMEDY ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND PAY FOR ANY SUCH DEFECTS FROM THE DATE OF FINAL CERTIFICATE OF COMPLETION AND IN ACCORDANCE WITH THE TERMS OF ANY SPECIAL GUARANTEES PROVIDED IN CONTRACT.
10. ALL MATERIALS AND PRODUCTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
11. DO NOT SCALE DRAWINGS FOR EXECUTION OF WORK. VERIFY THE EXISTING CONDITIONS AND CROSS CHECK ALL DOCUMENTS FOR COMPLETE SCOPE OF WORK.
12. THE CONTRACTOR SHALL SUBMIT FOR INSPECTION AND APPROVAL OF DESIGN BY ARCHITECT/OWNER, MANUFACTURER'S SAMPLES AND OR CUTS OF ANY ITEMS TO BE INSTALLED IN THIS PROJECT INCLUDING HARDWARE, FINISHES, WOOD, MASONRY, ETC.

SAFETY NOTES:

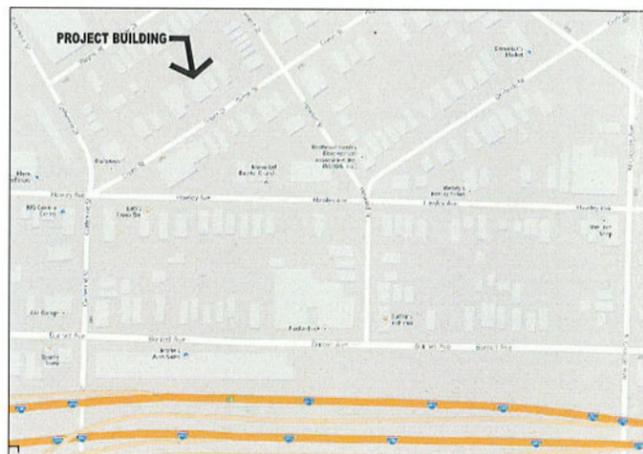
- GENERAL:**
1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE OFFICIAL COMPILATIONS OF CODES, RULES, AND REGULATIONS OF THE STATE OF NEW YORK, & EXECUTIVE(S) WITH ALL OTHER REGULATIONS OF ALL OTHER AGENCIES.
- STRUCTURAL:**
2. CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY BRACING AND SHORING WHEREVER ANY STRUCTURAL WORK IS INVOLVED.
 3. ALL DEMOLITION, REPAIR AND ALTERATION OPERATIONS TO BE DONE IN ACCORDANCE WITH THE OFFICIAL COMPILATION OF CODES, RULES, AND REGULATIONS OF THE STATE OF NEW YORK, & EXECUTIVE AND ALL OTHER REGULATIONS OF ALL OTHER AGENCIES HAVING JURISDICTION.
- FIRE:**
4. ALL BUILDING MATERIALS STORED AT CONSTRUCTION AREA, AND/OR IN ANY AREA OF THE BUILDING ARE TO BE SECURED IN A LOCKED AREA. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND/OR GENERAL CONTRACTOR.
 5. ALL MATERIALS TO BE STORED IN AN ORDERLY FASHION.
 6. ALL FLAMMABLE MATERIALS ARE TO BE KEPT TIGHTLY SEALED IN THEIR RESPECTIVE MANUFACTURER'S CONTAINERS. SUCH MATERIALS ARE TO BE KEPT AWAY FROM HEAT.
 7. ALL FLAMMABLE MATERIALS TO USED AND STORED IN AN ADEQUATELY VENTILATED SPACE. NO STORAGE OF SATURATED RAGS TO BE ALLOWED AND MUST BE REMOVED DAILY.
 8. ALL ELECTRICAL POWER IS TO BE TURNED OFF WHERE THERE IS EXPOSED CONDUIT.
 9. ALL ELECTRICAL POWER IN THE CONSTRUCTION AREA IS TO BE TURNED OFF AFTER WORKING HOURS.
 10. CONTRACTOR SHALL AT ALL TIMES MAKE SURE THAT THERE IS NO LEAKAGE OF FUEL OIL OR NATURAL GAS IN BUILDING, OR ANY FLAMMABLE SUBSTANCES USED IN CONSTRUCTION.
 11. CONTRACTOR TO PROVIDE AT LEAST TWO OPERABLE FIRE EXTINGUISHERS AT AREA OF WORK.

PROJECT ALTERNATES

- ADD ALTERNATE #1:**
Provide a \$7,000 contingency to cover potential project change orders.
- ADD ALTERNATE #2:**
Provide a quote to remove trees indicated on L-101 complete. Include stump removal or grinding in quote.



BUILDING PHOTO



MAP LOCATION

CODE REVIEW

BUILDING CODE OF NEW YORK STATE & EXISTING BUILDING CODE OF NEW YORK STATE (EBC)

1 OCCUPANCY & CLASSIFICATION OF WORK

SECTION 302
USE: USE GROUP R-4, RESIDENTIAL
S-1, STORAGE
CLASSIFICATION OF WORK: (EBC) ALTERATIONS LEVEL 1 (HOUSE ONLY, R-4)
NEW CONSTRUCTION (GARAGE ONLY, S-1)

2 CONSTRUCTION TYPE

EXISTING BUILDING : VB (COMBUSTIBLE)

3 MAXIMUM HEIGHT & FIRE AREA

OCCUPANCY	ALLOWABLE HEIGHT TABLE 503	ACTUAL HEIGHT	ALLOWABLE AREA (PER STORY) TABLE 503	ACTUAL AREA (PER STORY)
R-4	2 STORY / 40'	2 STORY / 25'	7,000 SF	2,280 SF
S-1	1 STORY / 40'	1 STORY / 15'	9,000 SF	720 SF

4 FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS

ELEMENT	CONST. TYPE VB	
	REQUIRED	PROVIDED
TABLE 601		
STRUCTURAL FRAME	0 hours	0 hours
BEARING WALLS	0 hours	0 hours
NON BEARING WALLS & PARTITIONS	0 hours	0 hours
FLOOR CONSTRUCTION	0 hours	0 hours
ROOF CONSTRUCTION	0 hours	0 hours

5 BUILDINGS ON THE SAME LOT:

(TABLE 602, NOTE h)	REQUIRED	PROVIDED
R-4 FIRE SEPARATION DISTANCE	10'	10'
S-1 FIRE SEPARATION DISTANCE	5'	5'

6 AUTOMATIC SPRINKLER SYSTEMS:

OCCUPANCY	Maintain Level Protection Provided	Level Maintained
OCCUPANCY : R-4	Maintain Level Protection Provided	Level Maintained
OCCUPANCY : S-1	Not Required	Not Provided

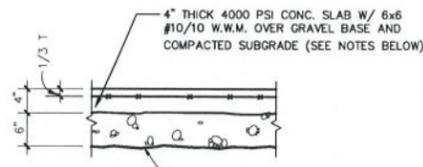
7 FIRE ALARM AND DETECTION SYSTEMS:

OCCUPANCY	Maintain Level Protection Provided	Level Maintained
OCCUPANCY : R-4	Maintain Level Protection Provided	Level Maintained
OCCUPANCY : S-1	Not Required	Not Provided

8 PARAPET CONSTRUCTION (GARAGE):

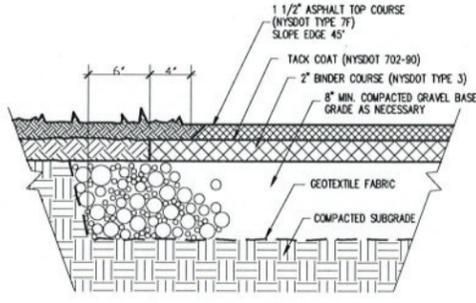
SECTION 705.11 IBC
PARAPETS NOT PROVIDED PER 705.11, EXCEPTION #2
EXCEPTION #2: THE BUILDING HAS AN AREA OF NOT MORE THAN 1,000 SF ON ANY FLOOR

	Required / Allowed	PROVIDED
9 Portable Fire Extinguishers (Table 906.1 & 906.3)	Group R-4 Type 2A required. Maximum 75' from any point in a corridor, lobby, or stair to a fire extinguisher. Group S-1: Not required	Type 2A Provided. (Maximum 75' from any point to a fire extinguisher.) Not provided
10 Occupant Load (Table 1004.1.2)	Group R-4 Residential Areas 200 SF / occupant Group S-1: 200 SF / person	4,560 SF / 200 = 23 Occupants 720SF / 200 = 4 Occupants
11 Means of Egress (Section 1005.1)	Egress width per Occupant (Table 1005.1) Doors : 0.2" Per Occupant AREA OCCUPANTS WIDTH WIDTH Residential 23 32" 132" Storage 4 32" 228" Min. No. Exits (Table 1006.2.1) AREA OCCUPANTS # OF EXITS # OF EXITS * GARAGE DOORS PERMITTED AS EXIT DOORS IN GARAGES PER 1010.1.1 Group R-4 Residential 23 2 4 Group S-1 Storage 4 3' 4 Maximum Exit Travel Distance (Table 1017.2) OCCUPANCY : R-4 200 FEET 50 FEET OCCUPANCY : S-1 300 FEET 20 FEET Common Path of Travel (Table 1006.2.1) OCCUPANCY : R-4 75 FEET 50 FEET OCCUPANCY : S-1 100 FEET 20 FEET Min. Ceiling Height (Section 1208.2) 7'-0" min. 9'-0"+	
12 Fireblocking (Section 716)	Occupancy: R-4 Maintain Level Protection Provided Occupancy: S-1 Not Required	Level Maintained Not Provided
13 Draftstopping (Section 716)	Occupancy: R-4 Maintain Level Protection Provided Occupancy: S-1 Not Required	Level Maintained Not Provided
14 Interior Wall and Ceiling Finishes (R-4 Occupancy) (Table 803.5)	VERTICAL EXITS & PASSAGEWAYS CLASS B CORRIDORS CLASS C ROOMS & ENCLOSED SPACES CLASS C	CLASS B
15 Interior Floor Finishes (R-4 Occupancy) (Section 804.4.1)	DOC FF-1 "Pill Test"	Class II
16 Special Inspections (Garage) (Section 1705)	CONCRETE (1705.3) Special Inspections are NOT required, all exceptions are met MASONRY (1705.4) Special Inspections are NOT required, Exception #2 met (Table 1807.1.6.3(2)) SOILS (1705.6) Special Inspections ARE required	



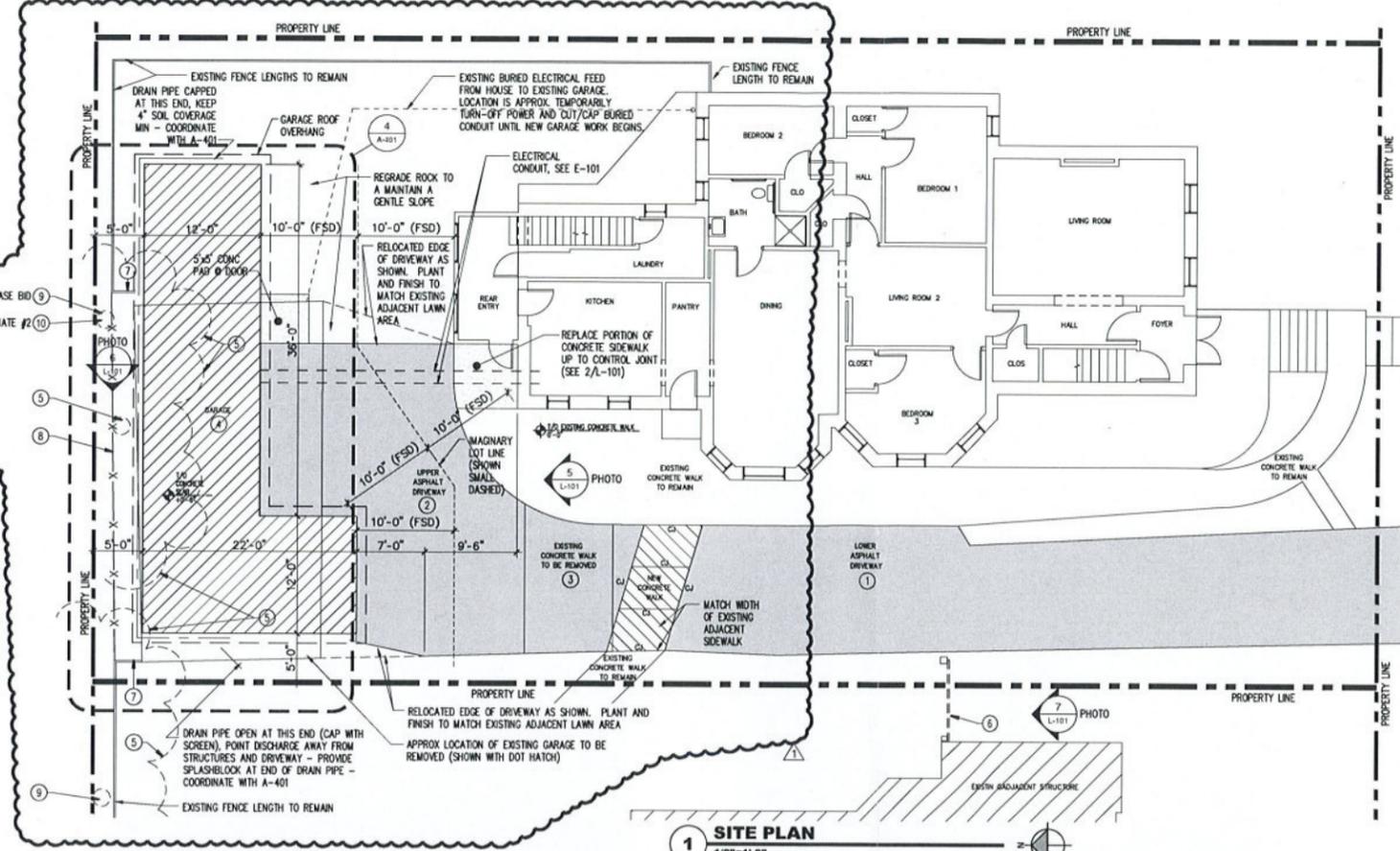
- NOTES:**
1. PROVIDE CONTROL JOINTS IN NEW WALK THAT MATCH THE EXISTING ADJACENT SIDEWALK CONTROL JOINT SPACING.
 2. PROVIDE STIFF BROOM FINISH PERPENDICULAR TO DIRECTION OF FOOT TRAFFIC. MAINTAIN SMOOTH BORDERS AT TOOLED CONTROL JOINTS AND PERIMETER EDGES (PICTURE FRAME TO MATCH ADJACENT EXISTING CONCRETE WALKS).

2 CONCRETE WALK SECTION DETAIL
3/4"=1'-0"



NOTE: VERIFY SUBSOIL CONDITIONS WITH GEOTECHNICAL ENGINEER FOR FINAL PAVEMENT DESIGN.

3 PAVEMENT DETAIL
3/4"=1'-0"



1 SITE PLAN
1/8"=1'-0"

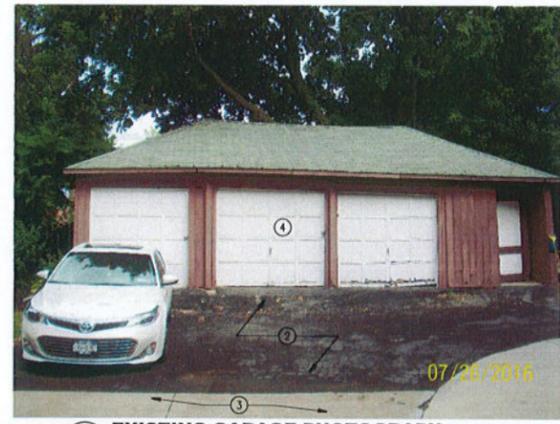
- GENERAL NOTES:**
- A. VERIFY ALL DIMENSIONS SHOWN ON THIS SHEET. THEY ARE +/- AND GIVEN FOR ESTIMATING PURPOSES, BUT THEY MUST BE VERIFIED PRIOR TO THE PURCHASE OF ANY MATERIALS.
 - B. TEST AND MARK FOR ANY UNDERGROUND UTILITIES/ STRUCTURES PRIOR TO ANY WORK/EXCAVATION BELOW GRADE. CONTACT DIG-SAFE NY.
 - C. FSD: FIRE SEPARATION DISTANCE

GENERAL ELECTRICAL NOTES (THIS SHEET ONLY):

- A. MAINTAIN CONTINUITY OF EXISTING CIRCUITRY AND WIRING (BURIED ELECTRICAL FEED IN CONDUIT FROM ADJACENT HOUSE).
- B. FOLLOW ALL ACCEPTED NYS STATE ELECTRICAL SAFETY PROTOCOLS WHEN REMOVING AND DISPOSING OF EXISTING FIXTURES AND TEMPORARILY CUTTING/CAPPING BURIED ELECTRICAL FEED IN CONDUIT TO EXISTING GARAGE FROM ADJACENT HOUSE. BURIED ELECTRICAL FEED IN CONDUIT TO REMAIN IN PLACE FOR RE-USE ON NEW GARAGE. (TURN-OFF GARAGE CIRCUITS POWER AT BREAKER PANEL PRIOR TO ANY WORK AT GARAGE FIXTURE LOCATIONS, ETC...).

KEYED SITE PLAN NOTES (THIS SHEET ONLY):

- 1 REMOVE EXISTING ASPHALT (WEAR) COURSE AND BINDER COURSE OF EXISTING LOWER ASPHALT DRIVEWAY & ASPHALT DRIVEWAY ENTRY (SHOWN SHADED), THEN PROVIDE NEW 8" MIN. COMPACTED GRAVEL BASE, 2" BINDER COURSE, TACK COAT AND 1/2" ASPHALT TOP COURSE PER DETAIL 3/L-101. NEW WEAR COURSE ELEVATIONS AND SLOPES TO MATCH EXISTING ENTRY DRIVE. 1,790 SF TOTAL ±.
- 2 REMOVE EXISTING ASPHALT (WEAR) COURSE AND BINDER COURSE OF EXISTING UPPER ASPHALT DRIVEWAY (ALSO SHOWN SHADED), THEN PROVIDE NEW 8" MIN. COMPACTED GRAVEL BASE, 2" BINDER COURSE, TACK COAT AND 1/2" ASPHALT TOP COURSE PER DETAIL 3/L-101. NEW WEAR COURSE ELEVATION AND SLOPES TO BE ADJUSTED TO MATCH UP WITH THE NEW GARAGE SLAB ELEVATION TO CREATE A UNIFORM SLOPE. SEE NOTE 4.
- 3 REMOVE SECTIONS OF EXISTING CONCRETE SIDEWALK THAT CROSS ASPHALT DRIVEWAY AT THIS LOCATION (SHOWN DOT HATCHED), THEN PROVIDE NEW CONCRETE WALK PER DETAIL 2/A-101 @ NEW LOCATION (SHOWN LINE HATCH). APPROX. 150 SF ±. NEW CONCRETE WALK ELEVATION TO APPROX. MATCH EXISTING WALK. PROVIDE LEVEL TRANSITIONS WITH ADJACENT EXISTING CONCRETE WALKS THAT ARE TO REMAIN. REMOVE ASPHALT DRIVE AS NECESSARY TO ALLOW FOR SIDEWALK CONSTRUCTION.
- 4 DEMOLISH EXISTING GARAGE COMPLETE (SHOWN DOT HATCH); TO INCLUDE, BUT NOT LIMITED TO, WOOD GARAGE STRUCTURE, CONCRETE SLAB & FOUNDATIONS. PRIOR TO WORK, TEMPORARILY TURN-OFF POWER AND CUT/CAP BURIED ELECTRICAL FEED IN CONDUIT TO EXISTING GARAGE FROM ADJACENT HOUSE. BURIED ELECTRICAL FEED IN CONDUIT TO REMAIN IN PLACE FOR RE-USE ON NEW GARAGE. FOLLOWING THE EXISTING GARAGE DEMOLITION, PROVIDE NEW GARAGE COMPLETE PER PLAN (SHOWN LINE HATCH), ELEVATIONS AND SECTION ON SHEET A-401; TO INCLUDE, WOOD GARAGE STRUCTURE, CONCRETE SLAB, FOUNDATIONS AND ELECTRICAL FIXTURES PER DRAWINGS ON SHEET A-401. SET NEW GARAGE CONCRETE SLAB ELEVATION AT 18" BELOW EXISTING GARAGE SLAB. NEW GARAGE TO BE IN APPROX SAME LOCATION - MOVE AS REQUIRED TO HAVE 4'-0" SETBACK (MIN) AT GARAGE AND BOTH ADJACENT PROPERTY LINES.
- 5 REMOVE (CUT DOWN) EXISTING TREE AND REMOVE/DISPOSE OF TREE DEBRIS FROM SITE. REMOVE OR GRIND DOWN TREE STUMPS UNTIL AT LEAST 12" BELOW FINISHED GRADE. FOLLOW ALL SAFETY PROTOCOLS TO PREVENT INJURY AND DAMAGE TO ANY ADJACENT STRUCTURE OR PROPERTY. IF TREE REMOVAL IS DEEMED NOT FEASIBLE, NOTIFY ARCHITECT.
- 6 REMOVE EXISTING P.T. WOOD FENCE COMPONENTS COMPLETE, INCLUDING BUT NOT LIMITED TO VERTICAL POSTS, HORIZONTAL SUPPORTS, ETC. FILL HOLES IN THE GROUND WITH DIRT AND/OR HARD FILL AS NECESSARY TO INSTALL DRIVEWAY OVER OR GROW GRASS AT.
- 7 REMOVE & TEMPORARILY STORE THIS SMALL SECTION OF EXISTING FENCE THAT CONNECTS TO THE EXISTING GARAGE. FOLLOWING THE EXISTING GARAGE DEMOLITION AND NEW GARAGE CONSTRUCTION, RE-INSTALL THIS SMALL SECTION OF FENCE IN SAME LOCATION.
- 8 REMOVE & DISPOSE OF EXISTING LENGTH OF CHAIN LINK FENCE (AND POSTS). PROVIDE NEW LENGTH OF CHAIN LINK FENCE (AND POSTS) IN THE SAME LOCATION, HEIGHT AND STYLE TO MATCH EXISTING CHAIN LINK FENCE.
- 9 REMOVE (CUT DOWN) EXISTING TREE BRANCHES BACK TO MAIN TRUNK. REMOVE EXISTING TREE BRANCHES WITHIN 12 FEET OF GARAGE STRUCTURE AND/OR GROUND. REMOVE/DISPOSE OF TREE DEBRIS FROM SITE. FOLLOW ALL SAFETY PROTOCOLS TO PREVENT INJURY AND DAMAGE TO ANY ADJACENT STRUCTURE OR PROPERTY. IF TREE REMOVAL IS DEEMED NOT FEASIBLE, NOTIFY ARCHITECT.
- 10 ALTERNATE #2 REMOVE (CUT DOWN) EXISTING TREE AND REMOVE/DISPOSE OF TREE DEBRIS FROM SITE. REMOVE OR GRIND DOWN TREE STUMPS UNTIL AT LEAST 12" BELOW FINISHED GRADE. FOLLOW ALL SAFETY PROTOCOLS TO PREVENT INJURY AND DAMAGE TO ANY ADJACENT STRUCTURE OR PROPERTY. IF TREE REMOVAL IS DEEMED NOT FEASIBLE, NOTIFY ARCHITECT.



5 EXISTING GARAGE PHOTOGRAPH



6 EXISTING TREE PHOTOGRAPH



7 EXISTING FENCE PHOTOGRAPH



8 EXISTING ASPHALT DRIVEWAY PHOTOGRAPH

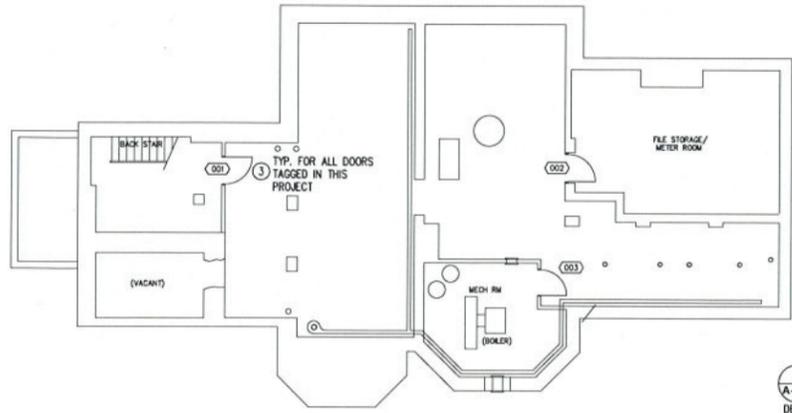
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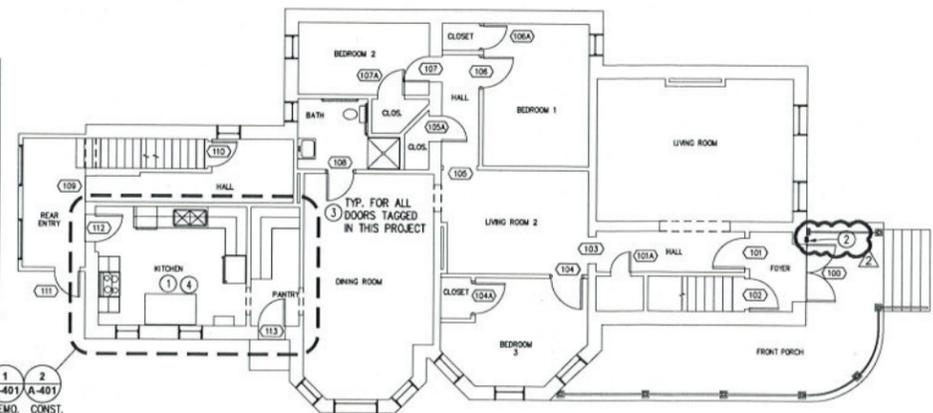
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ROBERT J. BEIGBERG
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STATE OF NEW YORK

Schopfer Architects LLP
1111 JAMES ST.
SYRACUSE, NY 13203
315-474-6501
FAX 315-474-1922

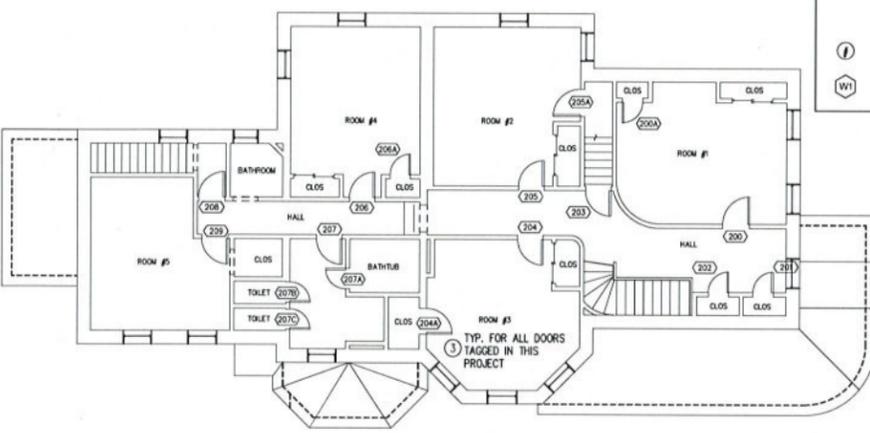
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SITE PLAN		
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Job No:		
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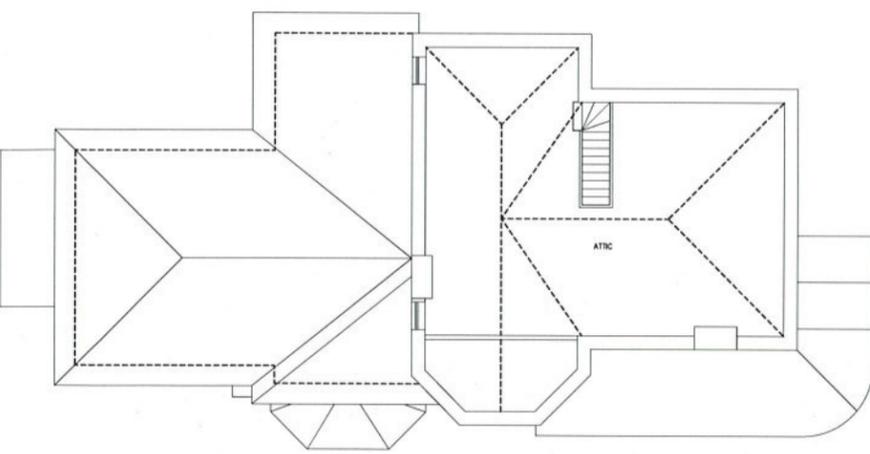
B BASEMENT FLOOR PLAN
1/8"=1'-0"



1 1ST FLOOR PLAN
1/8"=1'-0"



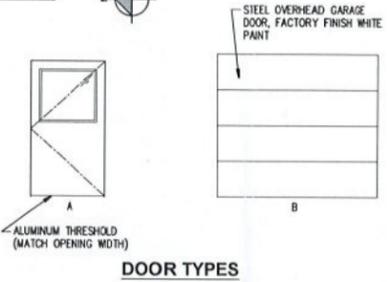
2 2ND FLOOR PLAN
1/8"=1'-0"



3 3RD FLOOR PLAN
1/8"=1'-0"

DRAWING LEGEND:

- DOOR NUMBER TAG (SEE DOOR SCHEDULE & KEYED NOTE #3 FOR DOOR HARDWARE SET REPLACEMENT, TYP FOR ALL DOORS TAGGED IN THIS PROJECT)
- KEYED NOTE
- WINDOW TYPE (SEE WINDOW SCHEDULE A-101)

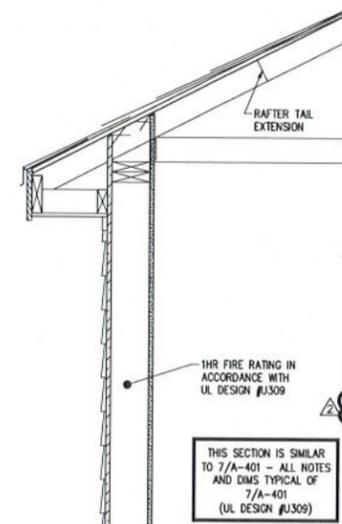


DOOR TYPES

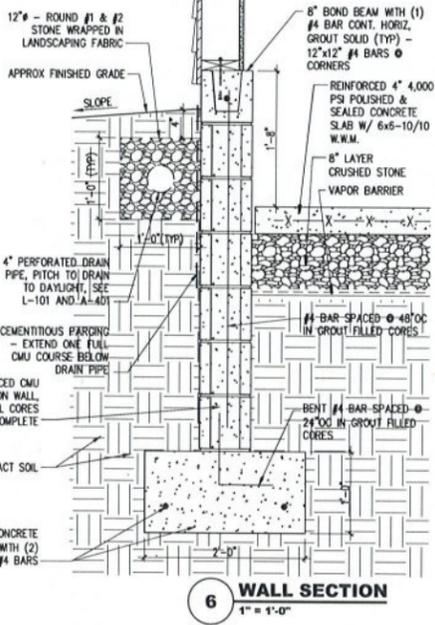
DOOR NO.	LOCATION	DOOR										FRAME	HWDR SET	FIRE LABEL	NOTES	
		TYPE	MAT'L	HGT	WIDTH	THK	FINISH	COLOR	MAT'L	HEAD	JAMB					FINISH
001	BASEMENT	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	3	-	1 & 2
002	BASEMENT	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	7	-	1 & 2
003	BASEMENT	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	3	-	1 & 2
100	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	1	-	1 & 2
101	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
101A	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
102	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
103	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	-	-	-
104	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6 & 10	-	1, 2 & 3
104A	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
105	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	-	-	-
105A	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
106	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6 & 10	-	1, 2 & 3
106A	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
107	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6 & 10	-	1, 2 & 3
107A	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
108	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	5	-	1, 2 & 3
109	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	-	-	-
110	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	7	-	1 & 2
111	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	2	-	1 & 2
112	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1, 2 & 3
113	1ST FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	7 & 10	-	1, 2 & 3
200	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	4	-	1 & 2
200A	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1 & 2
201	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	7	-	1 & 2
202	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	7	-	1 & 2
203	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6 & 10	-	1 & 2
204	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	4	-	1 & 2
204A	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1 & 2
205	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	4	-	1 & 2
205A	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1 & 2
206	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	4	-	1 & 2
206A	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1 & 2
207	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1 & 2
207A	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	5	-	1 & 2
207B	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	5	-	1 & 2
207C	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	5	-	1 & 2
208	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	6	-	1 & 2
208A	2ND FLOOR	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	ENG	4	-	1 & 2
G1	NEW GARAGE	B	SL	7'-0"	8'-0"	1 1/2"	FCFY	WHITE	SL	13/A401	14/A401	FCFY	FCFY	-	-	2 & 4
G2	NEW GARAGE	B	SL	7'-0"	8'-0"	1 1/2"	FCFY	WHITE	SL	13/A401	14/A401	FCFY	FCFY	-	-	2 & 4
G3	NEW GARAGE	A	HW	6'-8"	PAR 3'-6"	1 1/2"	PT	WHITE	HW	11/A401	12/A401	PT	WHITE	-	-	45 MIN 2

DOOR SCHEDULE NOTES:

- PROVIDE NEW HARDWARE SET ONLY AT THIS EXISTING DOOR. CONTRACTOR TO FIELD MEASURE AND VERIFY EXISTING DOOR THICKNESS PRIOR TO ORDERING NEW HARDWARE TO ENSURE COMPATIBILITY AND ALIGNMENT.
- PROVIDE "BEST BARK SERIES" HARDWARE (BASIS OF DESIGN), OR EQUAL, AND "KEYMARK" IC CORES (NO EXCEPTION).
- PROVIDE #890 DARK BRONZE FINISH FOR HARDWARE SET AT THIS 1ST FLOOR DOOR (IN LIEU OF TYPICAL #826 BRUSHED CHROME FINISH).
- PROVIDE PROGRAMMABLE ELECTRIC POWERED GARAGE DOOR OPENER W/ EXTERIOR WALL MOUNTED ENTRY KEYPAD (WITH FLIP DOWN COVER).



6 WALL SECTION
1" = 1'-0"



4 WINDOW HEAD/SILL
1 1/2" = 1'-0"

5 WINDOW JAMB
1 1/2" = 1'-0"

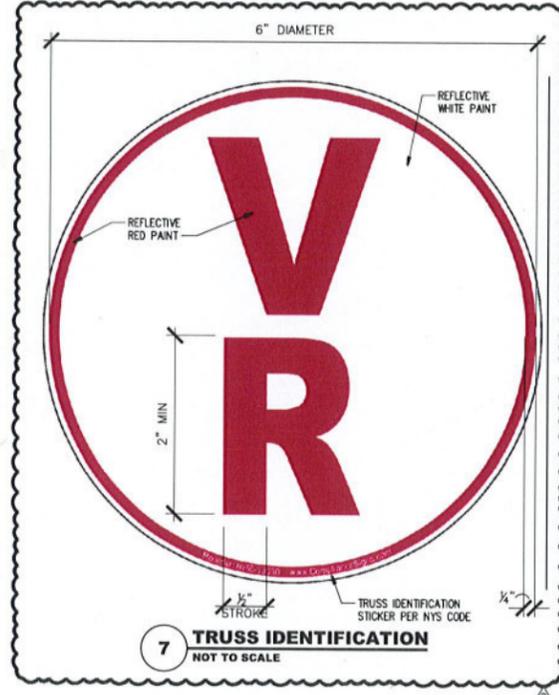
WINDOW SCHEDULE						
TYPE	LOCATION	WIDTH	HEIGHT	COMMENTS	HEAD/SILL	JAMB
(W1)	NEW GARAGE	3'-0"±	4'-0"±	PROVIDE PELLA IMPERVIA FIBERGLASS SINGLE HUNG WINDOW	4/A-101	5/A-101

GENERAL CONSTRUCTION NOTES (THIS SHEET ONLY):

- VERIFY ALL DIMENSIONS SHOWN ON THIS SHEET. THEY ARE +/- AND GIVEN FOR ESTIMATING PURPOSES. FIELD MEASURE ALL SPACES WITH WORK SHOWN PRIOR TO THE PURCHASE OF ANY MATERIALS.
- PROVIDE WOOD BLOCKING WHEN POSSIBLE FOR ALL NEW PLUMBING FIXTURES AND BATHROOM ACCESSORIES PER MANUFACTURER'S GUIDES.
- VERIFY ALL QUANTITIES, MOUNTING HEIGHTS AND CLEARANCES FOR BATHROOM ACCESSORIES AND FIXTURES PER MANUFACTURER'S GUIDELINES.
- PROVIDE ALL NECESSARY (COMPATIBLE) PLUMBING PIPING, VALVES AND FITTINGS TO CONNECT NEW PLUMBING FIXTURES SHOWN TO (OR EXTEND TO) THE EXISTING FRESH WATER AND SANITARY PIPING. ALL NEW/RE-USED PLUMBING FIXTURES MUST FUNCTION PROPERLY (AS DESIGNED BY MANUFACTURER) AT PROJECT COMPLETION.
- REFER TO PROJECT SPECIFICATION BOOK FOR ADDITIONAL INFORMATION & REQUIREMENTS.
- REPAIR ALL SURFACES TO REMAIN THAT WERE DAMAGED BY DEMOLITION/REMOVALS TO MATCH EXISTING ADJACENT SURFACES, EXCEPT AS NOTED. THIS INCLUDES BUT NOT LIMITED TO FLOOR SUBSTRATE, GIB PARTITIONS, GIB CEILING, TILE FINISHES, DOORS & FRAMES, ETC.
- ANY DIMENSIONS SHOWN ARE "CLEAR" FROM FACE OF NEW MATERIALS/WALLS TO EXISTING MATERIALS/WALLS, UNLESS NOTED OTHERWISE.
- ALL PRODUCTS LISTED IN THESE DRAWINGS ARE INTENDED AS A BASIS OF DESIGN. EQUIVALENT PRODUCTS CAN BE SUBMITTED FOR APPROVAL BY ARCHITECT.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LABOR TO MOVE ANY EXISTING FURNITURE AND EQUIPMENT TEMPORARILY FROM WORK SPACES, IF REQUIRED. COORDINATE WITH OWNERS REP. FOR TEMPORARY FURNITURE AND EQUIPMENT STORAGE SPACE AVAILABLE.

KEYED NOTES (THIS SHEET ONLY):

- REMOVE ALL EXISTING KITCHEN COUNTERTOPS, WALL CABINETS AND BASE CABINETS COMPLETE. PROVIDE ALL NEW KITCHEN COUNTERTOPS AND WALL CABINETS IN SAME CONFIGURATION AS EXISTING LAYOUT (SEE DRAWING A-401).
- FIRE DEPARTMENT LOOKBOX (KEY ACCESS). SECURELY MOUNT TO BUILDING AS RECOMMENDED BY BOX MANUFACTURER. MOUNT AT HEIGHT AS REQUIRED BY LOCAL FIRE DEPARTMENT.
- REMOVE AND DISPOSE OF EXISTING DOOR HARDWARE SET. REPLACE WITH NEW DOOR HARDWARE SET NOTED ON DOOR SCHEDULE SHEET A-101 PER SPECIFICATION. TYPICAL FOR ALL DOORS IDENTIFIED BY A DOOR NUMBER TAG IN THIS PROJECT (SEE FLOOR PLAN LEGEND).
- CONTRACTOR IS TO PROVIDE LABOR TO TEMPORARILY RELOCATE ALL FREE STANDING FURNITURE, EQUIPMENT OR LOOSE ITEMS THAT ARE RESTING ON THE EXISTING FLOOR SURFACES WITHIN THIS SPACE TO A STORAGE AREA DESIGNATED BY THE OWNER (SEH). ANY EQUIPMENT CONNECTED TO ELECTRICAL, GAS, WATER, SANITARY, CABLE, PHONE OR OTHER UTILITIES (OR VENTS) TO BE PROPERLY DISCONNECTED AND TEMPORARILY CAPPED PRIOR TO THE START OF NEW WORK. AT THE COMPLETION OF THE NEW WORK SCOPE, THE CONTRACTOR'S LABOR WILL MOVE ALL BEFORE MENTIONED CONTENTS BACK INTO THE SPACE IN THE ORIGINAL LOCATIONS AND RECONNECT ANY EQUIPMENT TO THE PROPER UTILITY.



7 TRUSS IDENTIFICATION
NOT TO SCALE

GENERAL PLUMBING NOTES:

- THE CONTRACTOR IS TO PROVIDE ALL ASSOCIATED PIPING, CONNECTIONS, FITTINGS, HANGERS, SUPPORTS, INSULATION, ETC., AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE NOTED PLUMBING ELEMENTS SO THE EXISTING PLUMBING SYSTEM CAN FUNCTION AS ORIGINALLY DESIGNED.
- WHEN REMOVALS ARE COMPLETE, CONTRACTOR TO PATCH ALL HOLES AND REPAIR ALL DAMAGE TO EXISTING CONSTRUCTION (EXCEPT WHERE NEW FIXTURES ARE TO BE INSTALLED PER DWGS). LEAVE ALL PATCHED/REPAIRED SURFACES SMOOTH, LEVEL, PLUMB, ALIGNED WITH ADJACENT SURFACES, PAINT TO MATCH ADJACENT SURFACES.
- MAINTAIN CONTINUITY OF EXISTING PLUMBING PIPING RUNS.
- VERIFY, PRIOR TO INSTALLATION, THAT THE CAPACITIES (GPM), PRESSURE RATINGS AND STRENGTH (SCHEDULE) OF NEW PIPING MEETS OR EXCEEDS EXISTING PLUMBING PIPING CAPACITIES (GPM), PRESSURE RATINGS AND STRENGTH (SCHEDULE).
- FOLLOW ALL ACCEPTED NYS STATE PLUMBING CODES AND SAFETY PROTOCOLS WHEN INSTALLING NEW PIPING (TURN-OFF ALL LIQUID FLOW AT THE VALVES FEEDING INTO S&D PIPING PRIOR TO ANY WORK AT PIPING REPLACEMENT LOCATIONS).
- INSTALL NEW PIPING, PLUMBING FIXTURES AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.

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THE ARCHITECT SHALL BE DEEMED TO HAVE REVIEWED ALL CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION DEFECTS, INCLUDING THE CONTRACTOR'S NEGLIGENCE.



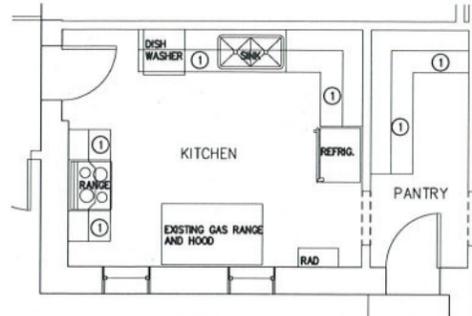
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Date	Scale
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Revisions:	
Number:	Date:
1	06/07/2019
2	11/14/2019

Sheet Title:
**FLOOR PLANS,
DOOR & WINDOW
SCHEDULES**

Sheet No:
A-101

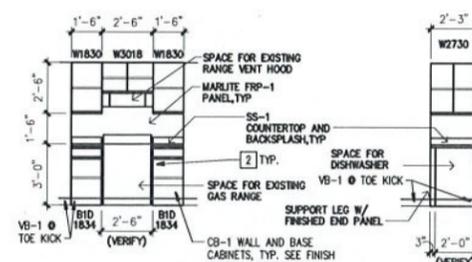
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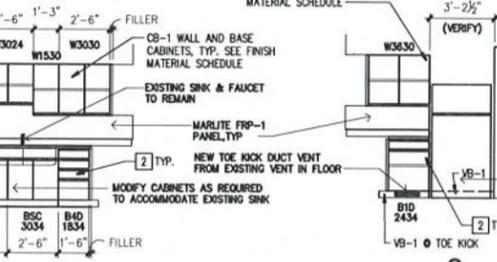
1 KITCHEN & PANTRY DEMOLITION PLAN
1/4"=1'-0"



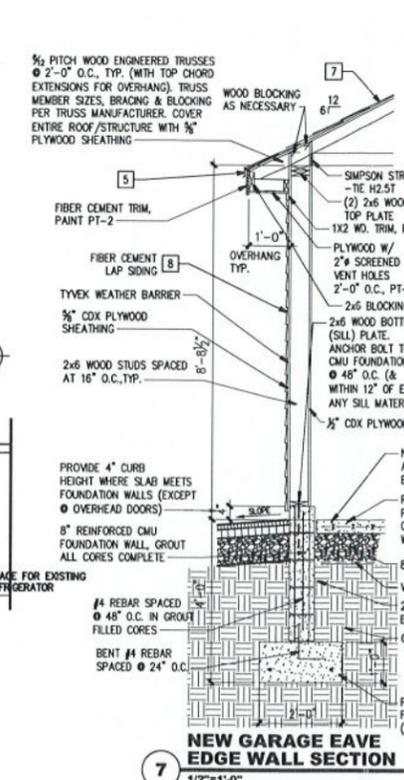
2 KITCHEN & PANTRY CONSTRUCTION PLAN
1/4"=1'-0"



3 KITCHEN & PANTRY ELEVATIONS
1/4"=1'-0"



13 OHD (GARAGE) HEAD
1 1/2"=1'-0"



7 NEW GARAGE EAVE EDGE WALL SECTION
1/2"=1'-0"

FINISH MATERIALS LEGEND		
REF.#	MANUFACTURER/PRODUCT NAME	NO./COLOR/SIZE
GROUT/SEALANT		
C-1	SONNEBORN	(BEST MATCH COLOR TO ADJACENT SURFACES)
CABINETRY		
CB-1	KRAFTMAID/MALIBU MAPLE NATURAL (ALL SOLID WOOD)	FULL OVERLAY / CLEAR COAT (WITH WIRE PULLS)
PAINT (SUBMIT COLOR SAMPLES WITH CONTRACTOR SELECTIONS FOR ARCHITECT APPROVAL)		
PT-1	SHERWIN WILLIAMS	COLOR: MATCH EXISTING KITCHEN WALL COLOR
PT-2	SHERWIN WILLIAMS	COLOR: MATCH EXISTING EXTERIOR BROWN COLOR
SOLID SURFACE		
SS-1	CORIAN	THICKNESS: 3/4" (EASED EXPOSED EDGES) COLOR: DEEP BLACK QUARTZ
FIBER REINFORCED PLASTIC PANEL		
FRP-1	MARLITE	THICKNESS: PER MANUFACTURER, COLOR: WHITE
VINYL BASE		
VB-1	JOHNSONITE	4" VINYL COVE BASE, COLOR: BLACK

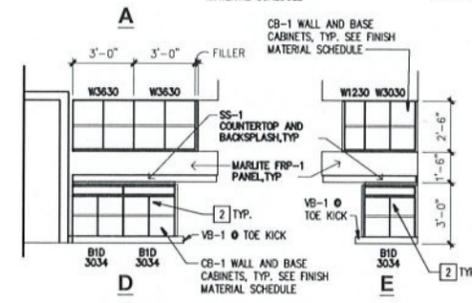
- GENERAL CONSTRUCTION NOTES (THIS SHEET ONLY):**
- VERIFY ALL DIMENSIONS SHOWN ON THIS SHEET. THEY ARE +/- AND GIVEN FOR ESTIMATING PURPOSES. FIELD MEASURE ALL SPACES WITH WORK SHOWN PRIOR TO THE PURCHASE OF ANY MATERIALS.
 - PROVIDE WOOD BLOCKING WHEN POSSIBLE FOR ALL NEW PLUMBING FIXTURES AND BATHROOM ACCESSORIES PER MANUFACTURER'S GUIDES.
 - VERIFY ALL QUANTITIES, MOUNTING HEIGHTS AND CLEARANCES FOR BATHROOM ACCESSORIES AND FIXTURES PER MANUFACTURER'S GUIDES.
 - PROVIDE ALL NECESSARY (COMPATIBLE) PLUMBING PIPING, VALVES AND FITTINGS TO CONNECT NEW PLUMBING FIXTURES SHOWN TO (OR EXTEND TO) THE EXISTING FRESH WATER AND SANITARY PIPING. ALL NEW/RE-USED PLUMBING FIXTURES MUST FUNCTION PROPERLY (AS DESIGNED BY MANUFACTURER) AT PROJECT COMPLETION.
 - REFER TO PROJECT SPECIFICATION BOOK FOR ADDITIONAL INFORMATION & REQUIREMENTS.
 - REPAIR ALL SURFACES TO REMAIN THAT WERE DAMAGED BY DEMOLITION/REMOVALS TO MATCH EXISTING ADJACENT SURFACES, EXCEPT AS NOTED. THIS INCLUDES, BUT NOT LIMITED TO FLOOR SUBSTRATE, GMB PARTITIONS, GMB CEILING, TILE FINISHES, DOORS & FRAMES, ETC.
 - ANY DIMENSIONS SHOWN ARE "CLEAR" FROM FACE OF NEW MATERIALS/WALLS TO EXISTING MATERIALS/WALLS, UNLESS NOTED OTHERWISE.
 - ALL PRODUCTS LISTED IN THESE DRAWINGS ARE INTENDED AS A BASIS OF DESIGN. EQUIVALENT PRODUCTS CAN BE SUBMITTED FOR APPROVAL BY ARCHITECT.
 - THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LABOR TO MOVE ANY EXISTING FURNITURE AND EQUIPMENT TEMPORARILY FROM WORK SPACES, IF REQUIRED. COORDINATE WITH OWNERS REP. FOR TEMPORARY FURNITURE AND EQUIPMENT STORAGE SPACE AVAILABLE.

- GENERAL PLUMBING NOTES (THIS SHEET ONLY):**
- THE CONTRACTOR IS TO PROVIDE ALL ASSOCIATED PIPING, CONNECTIONS, FITTINGS, HANGERS, SUPPORTS, INSULATION, ETC., AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE NOTED PLUMBING ELEMENTS SO THE EXISTING PLUMBING SYSTEM CAN FUNCTION AS ORIGINALLY DESIGNED.
 - WHEN REMOVALS ARE COMPLETE, CONTRACTOR TO PATCH ALL HOLES AND REPAIR ALL DAMAGE TO EXISTING CONSTRUCTION (EXCEPT WHERE NEW FIXTURES ARE TO BE INSTALLED PER DWGS). LEAVE ALL PATCHED/REPAIRED SURFACES SMOOTH, LEVEL, PLUMB, ALIGNED WITH ADJACENT SURFACES, PAINT TO MATCH ADJACENT SURFACES.
 - MAINTAIN CONTINUITY OF EXISTING PLUMBING PIPING RUNS.
 - VERIFY, PRIOR TO INSTALLATION, THAT THE CAPACITIES (GPM) AND STRENGTH (SCHEDULE) OF NEW PIPING MEETS OR EXCEEDS EXISTING PLUMBING PIPING CAPACITIES (GPM) AND STRENGTH (SCHEDULE).
 - FOLLOW ALL ACCEPTED NYS STATE PLUMBING CODES AND SAFETY PROTOCOLS WHEN INSTALLING NEW PIPING (TURN-OFF ALL LIQUID FLOWS AT THE VALVES FEEDING INTO SAID PIPING PRIOR TO ANY WORK).
 - INSTALL NEW PIPING, PLUMBING FIXTURES AND ACCESSORIES PER MANUFACTURER'S RECOMMENDATIONS.

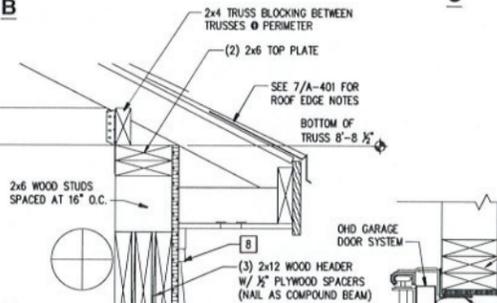
- GENERAL ELECTRICAL NOTES (THIS SHEET ONLY):**
- SEE SHEET E-101 FOR ELECTRICAL/POWER/LIGHTING SCOPE OF WORK.
 - PATCH & PAINT TO MATCH ADJACENT WALL SURFACES OR CEILING SURFACES, AS REQUIRED, AT NEW LIGHT FIXTURE INSTALLATIONS.
 - MAINTAIN CONTINUITY OF EXISTING CIRCUITRY AND WIRING (BURIED ELECTRICAL FEED FROM ADJACENT HOUSE). NEW GARAGE RECEPTACLES (OUTLETS) TO BE CFI.
 - VERIFY, PRIOR TO INSTALLATION, THAT THE REQUIRED VOLTAGE AND AMPERAGE OF THE NEW SPECIFIED LIGHT FIXTURES DOES NOT EXCEED THE EXISTING BREAKER AND WIRE CAPACITIES. IF EXISTING CIRCUITRY AND JUNCTION BOX CANNOT HANDLE THE ADDITION OF A NEW LIGHT FIXTURE, ADD A NEW CIRCUIT TO THE ELECTRICAL PANEL (IF SPACE IS AVAILABLE) AS REQUIRED FOR NEW LIGHT FIXTURES. DO NOT EXCEED LISTED CAPACITIES FOR ANY ELECTRICAL COMPONENTS INCLUDING: FIXTURES, CIRCUITS, BREAKERS, PANELS, WIRING, JUNCTION BOXES, ETC.
 - PROVIDE NEW BULBS FOR ALL NEW SPECIFIED LIGHT FIXTURES.
 - FOLLOW ALL ACCEPTED NYS STATE ELECTRICAL SAFETY PROTOCOLS WHEN INSTALLING NEW LIGHT FIXTURES AND RECEPTACLES (TURN-OFF CIRCUITS POWER AT BREAKER PANEL PRIOR TO ANY WORK AT FIXTURE LOCATION, ETC.).
 - INSTALL NEW LIGHT FIXTURES PER MANUFACTURER'S INSTRUCTIONS.
 - CONCEAL ALL NEW WIRING AND CONDUIT WITHIN-WALL DEPTHS WHEN POSSIBLE.
 - PROVIDE SWITCHES FOR NEW LIGHTING AS SHOWN ON PLAN SO NEW LIGHTS TURN- ON OR OFF.

- KEYED DEMOLITION NOTES (THIS SHEET ONLY):**
- REMOVE AND DISPOSE OF EXISTING BASE CABINETS, WALL CABINETS AND COUNTERTOP (SHOWN DASHED) COMPLETE AT THIS WALL. PATCH/PAINT WALL SURFACE TO MATCH ADJACENT. PREP TO RECEIVE NEW CABINETS AND COUNTERTOP. TEMPORARILY DISCONNECT EXISTING PLUMBING FIXTURES AND/OR APPLIANCES TO REMAIN AS REQUIRED TO COMPLETE SCOPE OF WORK. SEE PLUMBING GENERAL NOTES.

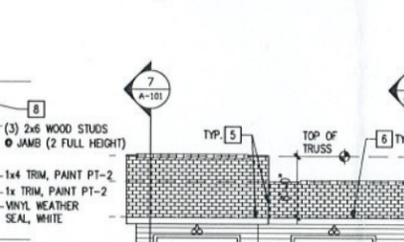
- KEYED CONSTRUCTION NOTES (THIS SHEET ONLY):**
- PROVIDE NEW CB-1 WALL CABINETS, BASE CABINETS (WITH PULLS), SS-1 COUNTERTOP, AND MARLITE FRP PANEL WALL THIS LOCATION. SEE ELEVATION DRAWINGS A THRU E ON 3/A-401.
 - REMOVE 'LIBERTY' SATIN NIKEL WIRE PULL(S) OR EQUAL.
 - CONTRACTOR TO PROVIDE NEW CERTAINTED SHINGLE-OVER 12" FILTERED RIDGE VENT, OR EQUAL ALLOW FOR 2" GAP IN ROOF SHEATHING LENGTH OF RIDGE FOR VENTING.
 - CONTRACTOR TO PROVIDE NEW CERTAINTED CEDARCREST RIDGE SHINGLES, OR EQUAL, AT ROOF RIDGE.
 - CONTRACTOR TO PROVIDE NEW ALUMINUM DRIP EDGES AT EAVES AND RAKES ENTIRE PERIMETER OF NEW SHINGLE ROOF.
 - CONTRACTOR TO UTILIZE NEW CERTAINTED SWIFSTART STARTER SHINGLES, OR EQUAL, AT ROOF EAVES.
 - AT ASPHALT ROOF SHINGLE HATCHED AREA SHOWN, CONTRACTOR TO PROVIDE NEW CERTAINTED LANDMARK CLASS 'A' SHINGLES, COLOR-COLONIAL SLATE, AND NEW ROOFER'S SELECT UNDERLAYMENT, OR EQUAL.
 - FIBER CEMENT LAP SIDING, PAINTED PT-2 (SEE FINISH MATERIALS LEGEND), APPROX MATCH EXISTING HORIZONTAL SIDING HEIGHT.
 - PROVIDE NEW OVERHEAD GARAGE DOOR SYSTEM COMPLETE, TO INCLUDE: STEEL OVERHEAD DOOR, TRACK, SPRINGS, WIRE, BRACKETS, WEATHER SEALS, ELECTRIC GARAGE DOOR OPENER WITH WALL MOUNTED KEYPAD ENTRY. SEE DOOR SCHEDULE ON SHEET A-101.
 - PROVIDE NEW 3'-0"x6'-8" THERMATRU SMOOTH STAR INSULATED FIBERGLASS ENTRY DOOR WITH SIMULATED DIVIDED HALF-LIFE GLASS. SEE DOOR SCHEDULE ON SHEET A-101.
 - PROVIDE NEW SINGLE HUNG WINDOW PER WINDOW SCHEDULE ON SHEET A-101.
 - PROVIDE POLISHED & SEALED REINFORCED CONCRETE SLAB. SEE WALL SECTION 7/A-401 AND SPEC SECTIONS 03 3000 & 03 3600.



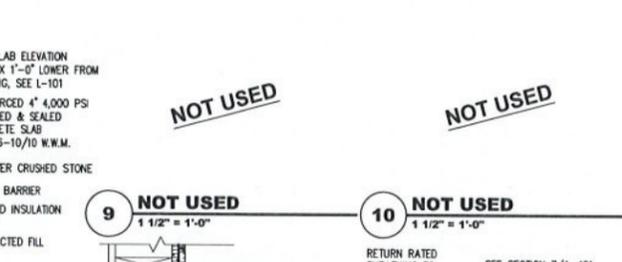
3 KITCHEN & PANTRY ELEVATIONS
1/4"=1'-0"



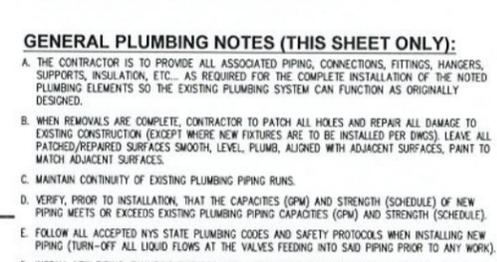
13 OHD (GARAGE) HEAD
1 1/2"=1'-0"



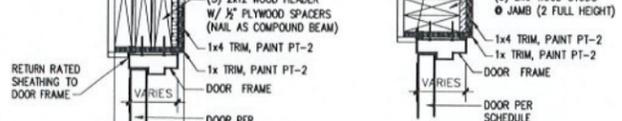
7 NEW GARAGE EAVE EDGE WALL SECTION
1/2"=1'-0"



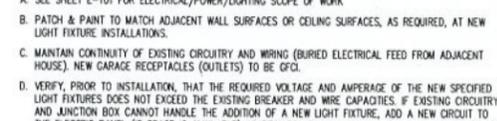
9 NOT USED
1 1/2"=1'-0"



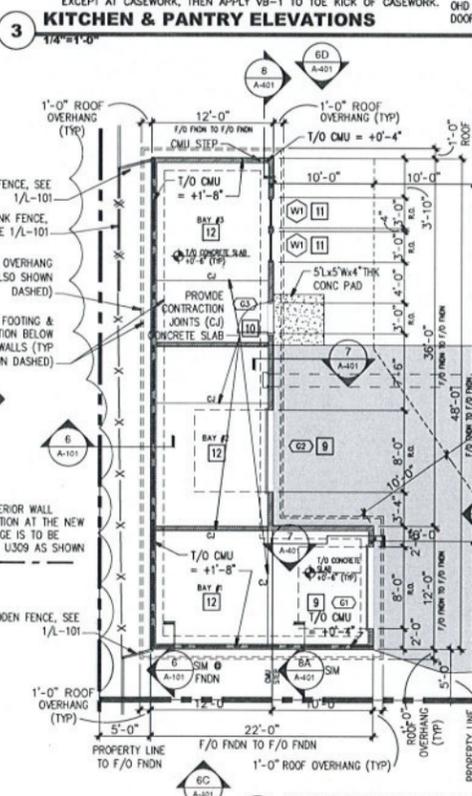
10 NOT USED
1 1/2"=1'-0"



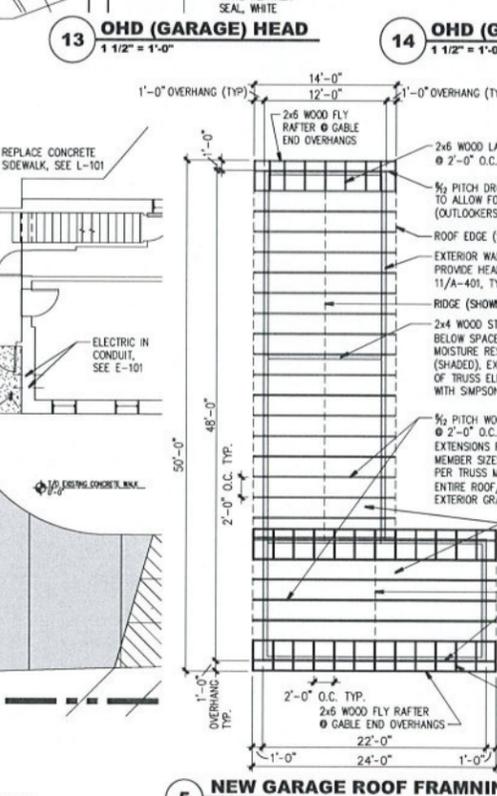
11 EXT. MAN DOOR HEAD
1 1/2"=1'-0"



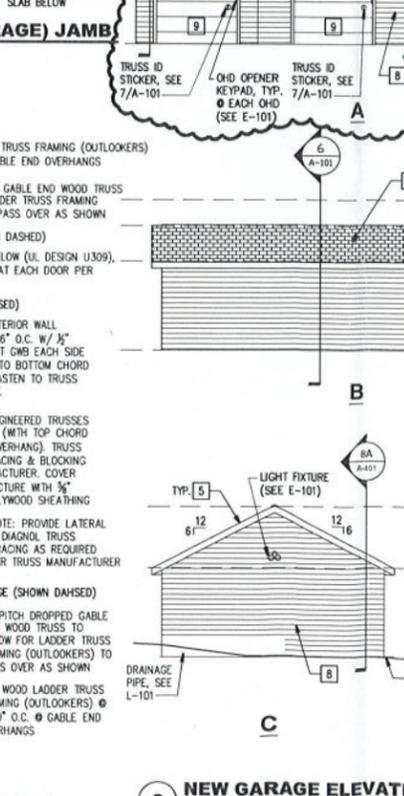
12 EXT. MAN DOOR JAMB
1 1/2"=1'-0"



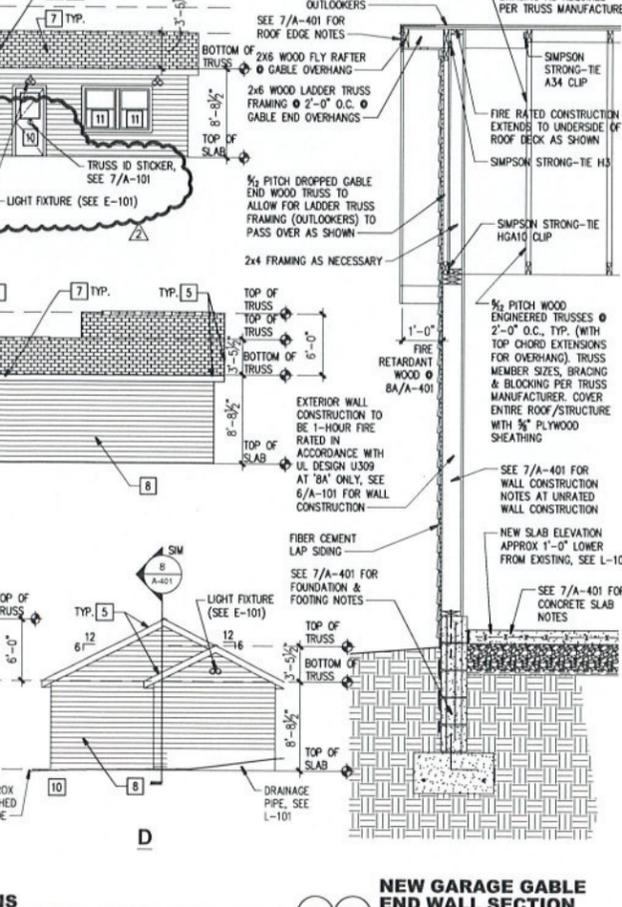
4 NEW GARAGE FLOOR PLAN
1/8"=1'-0"



5 NEW GARAGE ROOF FRAMMING
1/8"=1'-0"



6 NEW GARAGE ELEVATIONS
1/8"=1'-0"

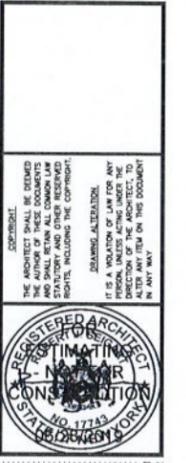


8 NEW GARAGE GABLE END WALL SECTION
1/2"=1'-0"

DRAWING LEGEND:

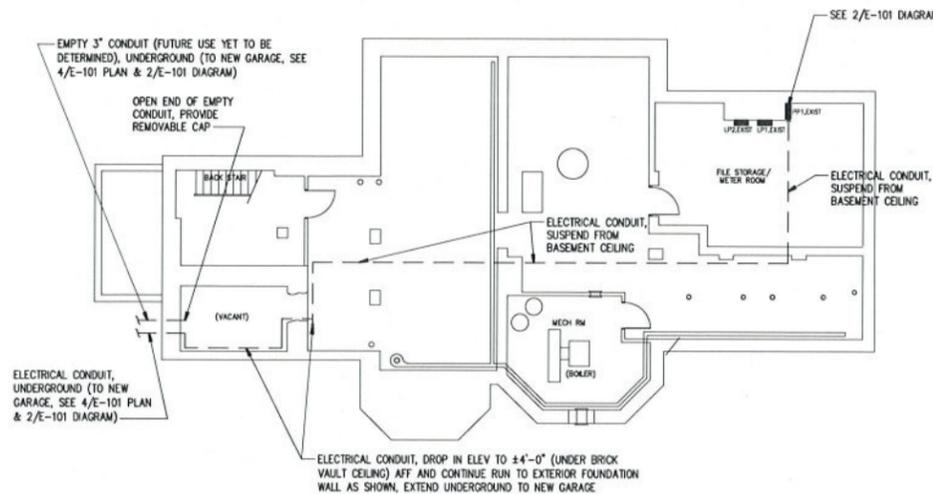
- DOOR NUMBER TAG (SEE DOOR SCHEDULE SHEET A-101)
- KEYED DEMOLITION NOTE (THIS SHEET)
- KEYED CONSTRUCTION NOTE (THIS SHEET)

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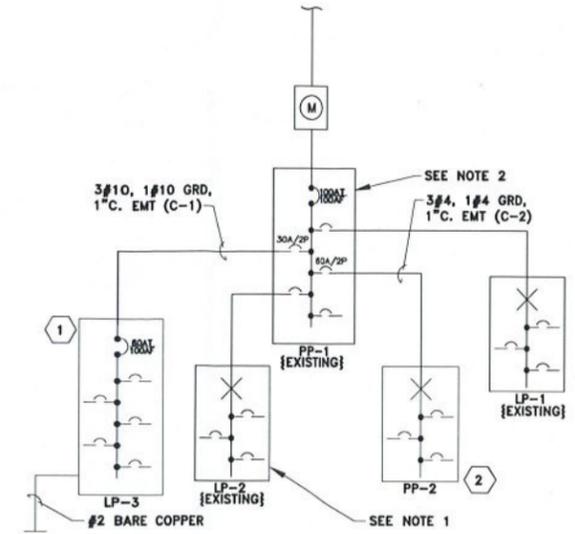


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Date	Scale	
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Revisions:		
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1	08/07/2019	JMN
2	11/14/2019	JMN
Sheet Title:		
ENLARGED PLANS, SECTIONS, ELEVATIONS & DETAILS		
Sheet No:		
A-401		
Job No:		
1647		



1 BASEMENT ELECTRICAL/POWER PLAN
1/8"=1'-0"

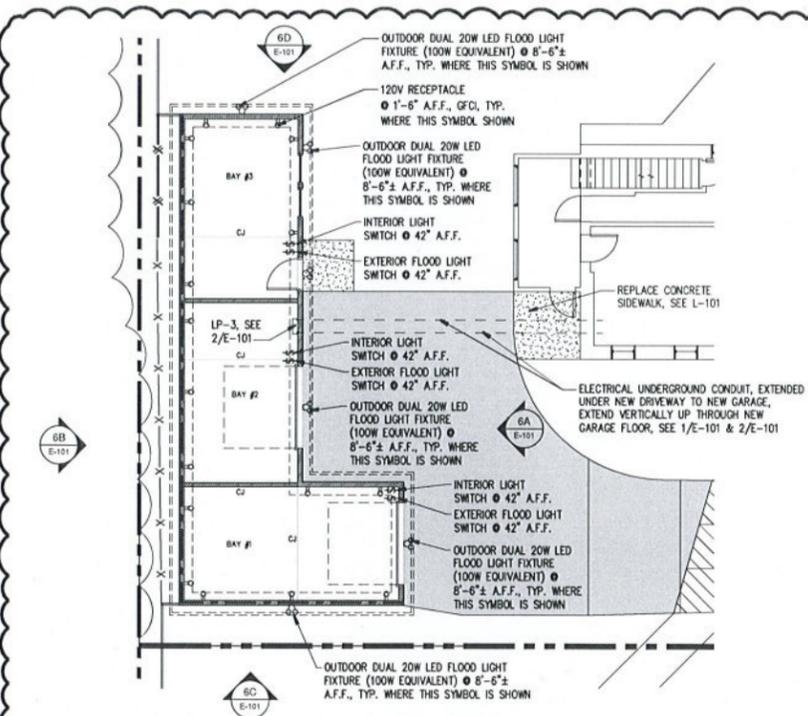


TAG	DESCRIPTION	PRODUCT INFORMATION
1	100 AMP PANELBOARD, 60 AMP MAIN CIRCUIT BREAKER, COPPER BUS, SOLID NEUTRAL, 240VAC, 1#, 3 WIRE, 20 CRKT, 10,000 AIC	SIEMENS P2020B1100SCU
2	125 AMP PANELBOARD, MAIN LUG ONLY, COPPER BUS, SOLID NEUTRAL, 240VAC, 1#, 3 WIRE, 20 CRKT, 10,000 AIC	SIEMENS P2020L1125SCU

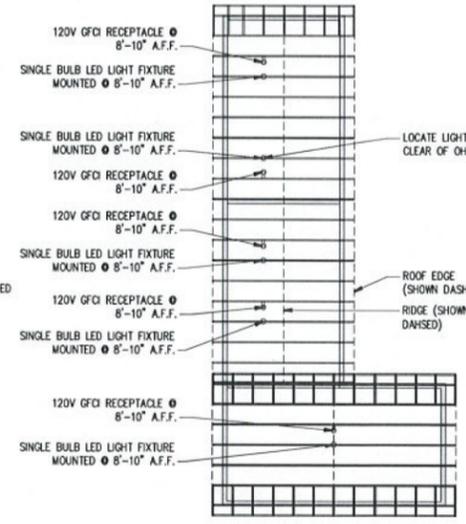
NOTES:
 1. EXISTING PANELBOARD LP-2 SHALL BE REMOVED AND DISCARDED; EXISTING BRANCH CIRCUITS SHALL BE WIRED INTO NEW PANEL BOARD PP-2
 2. REMOVE EXISTING TANDEM CIRCUIT BREAKER. PROVIDE NEW CIRCUIT BREAKERS WIRED INTO EXISTING BRANCH CIRCUITS; CIRCUIT BREAKERS SHALL BE INSTALLED INTO EXISTING PANEL PP-1 AND/OR PANEL PP-2; ADDITIONALLY, EXISTING CIRCUIT BREAKERS AND BRANCH CIRCUITS IN PANEL PP-1 SHALL BE RELOCATED TO PANEL PP-2 AS REQUIRED TO CREATE SPACE FOR THE PROPOSED 2P BREAKER SERVING PANEL LP-3.

2 ELECTRICAL PANEL DIAGRAM
N.T.S.

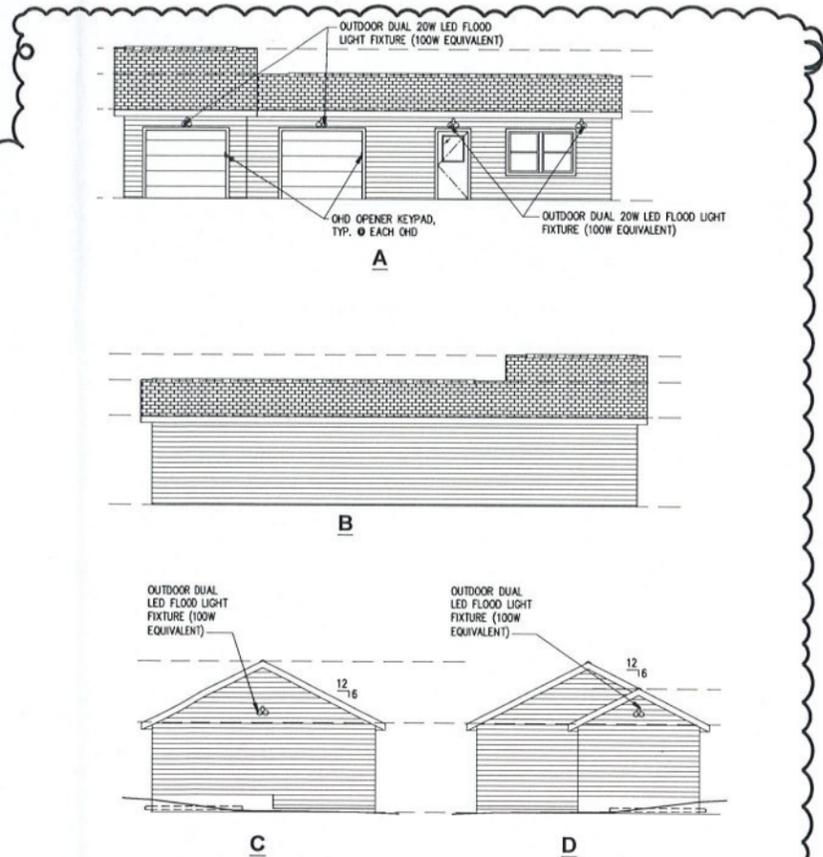
3 NOT USED



4 NEW GARAGE ELECTRICAL / POWER FLOOR PLAN
1/8"=1'-0"
(SEE GENERAL ELECTRICAL NOTES E-101)
(ALL NEW GARAGE RECEPTABLES/OUTLETS TO BE GFCI)



5 NEW GARAGE LIGHTING/POWER PLAN (@ ROOF FRAMING)
1/8"=1'-0"
(SEE GENERAL ELECTRICAL NOTES E-101)
(ALL NEW GARAGE RECEPTABLES/OUTLETS TO BE GFCI)



6 NEW GARAGE ELEVATIONS
1/8"=1'-0"

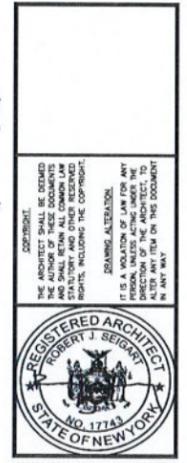
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- PROVIDE WOOD BLOCKING WHEN POSSIBLE FOR ALL NEW ELECTRICAL FIXTURES AND ACCESSORIES PER MANUFACTURER'S GUIDELINES.
- VERIFY ALL QUANTITIES, MOUNTING HEIGHTS AND CLEARANCES FOR BATHROOM ACCESSORIES AND FIXTURES PER MANUFACTURER'S GUIDELINES.
- PROVIDE ALL NECESSARY (COMPATIBLE) ELECTRICAL COMPONENTS AS NECESSARY TO CONNECT NEW ELECTRICAL FIXTURES SHOWN TO (OR EXTEND TO) THE SUB-PANLE.
- REPAIR ALL SURFACES TO REMAIN THAT WERE DAMAGED BY DEMOLITION/REMOVALS TO MATCH EXISTING ADJACENT SURFACES, EXCEPT AS NOTED. THIS INCLUDES BUT NOT LIMITED TO FLOOR SUBSTRATE, GWB PARTITIONS, GWB CEILINGS, TILE FINISHES, DOORS & FRAMES, ETC.
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GENERAL ELECTRICAL NOTES (THIS SHEET ONLY):

- PATCH & PAINT TO MATCH ADJACENT WALL SURFACES OR CEILING SURFACES, AS REQUIRED, AT NEW LIGHT FIXTURE INSTALLATIONS.
- MAINTAIN CONTINUITY OF EXISTING CIRCUITRY AND WIRING (BURIED ELECTRICAL FEED FROM ADJACENT HOUSE). NEW GARAGE RECEPTABLES (OUTLETS) TO BE GFCI.
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- INSTALL NEW LIGHT FIXTURES PER MANUFACTURER'S INSTRUCTIONS.
- CONCEAL ALL NEW WIRING AND CONDUIT WITHIN-WALL DEPTHS WHEN POSSIBLE.
- PROVIDE SWITCHES FOR NEW LIGHTING AS SHOWN ON PLAN SO NEW LIGHTS TURN- ON OR OFF.

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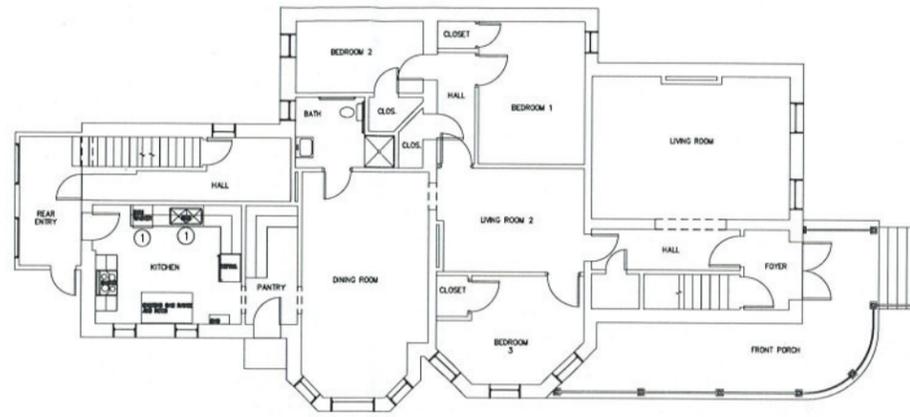
Revisions:

Number:	Date:	By:
1	08/07/2019	JMN
2		
3		

Sheet Title:
ELECTRICAL PLANS

Sheet No:
E-101

Job No: 1647



1 1ST PLUMBING FLOOR PLAN
1/8"=1'-0"



GENERAL CONSTRUCTION NOTES (THIS SHEET ONLY):

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- C. VERIFY ALL QUANTITIES, MOUNTING HEIGHTS AND CLEARANCES FOR BATHROOM ACCESSORIES AND FIXTURES PER MANUFACTURER'S GUIDELINES.
- D. PROVIDE ALL NECESSARY (COMPATIBLE) PLUMBING PIPING, VALVES AND FITTINGS TO CONNECT NEW PLUMBING FIXTURES SHOWN TO (OR EXTEND TO) THE EXISTING FRESH WATER AND SANITARY PIPING. ALL NEW/RE-USED PLUMBING FIXTURES MUST FUNCTION PROPERLY (AS DESIGNED BY MANUFACTURER) AT PROJECT COMPLETION.
- E. REFER TO PROJECT SPECIFICATION BOOK FOR ADDITIONAL INFORMATION & REQUIREMENTS.
- F. REPAIR ALL SURFACES TO REMAIN THAT WERE DAMAGED BY DEMOLITION/REMOVALS TO MATCH EXISTING ADJACENT SURFACES, EXCEPT AS NOTED. THIS INCLUDES BUT NOT LIMITED TO FLOOR SUBSTRATE, GWB PARTITIONS, GWB CEILINGS, TILE FINISHES, DOORS & FRAMES, ETC.
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GENERAL PLUMBING NOTES (THIS SHEET ONLY):

- A. THE CONTRACTOR IS TO PROVIDE ALL ASSOCIATED PIPING, CONNECTIONS, FITTINGS, HANGERS, SUPPORTS, INSULATION, ETC., AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE NOTED PLUMBING ELEMENTS SO THE EXISTING PLUMBING SYSTEM CAN FUNCTION AS ORIGINALLY DESIGNED.
- B. WHEN REMOVALS ARE COMPLETE, CONTRACTOR TO PATCH ALL HOLES AND REPAIR ALL DAMAGE TO EXISTING CONSTRUCTION (EXCEPT WHERE NEW FIXTURES ARE TO BE INSTALLED PER DWGS). LEAVE ALL PATCHED/REPAIRED SURFACES SMOOTH, LEVEL, PLUMB, ALIGNED WITH ADJACENT SURFACES, PAINT TO MATCH ADJACENT SURFACES.
- C. MAINTAIN CONTINUITY OF EXISTING PLUMBING PIPING RUNS.
- D. VERIFY, PRIOR TO INSTALLATION, THAT THE CAPACITIES (GPM) AND STRENGTH (SCHEDULE) OF NEW PIPING MEETS OR EXCEEDS EXISTING PLUMBING PIPING CAPACITIES (GPM) AND STRENGTH (SCHEDULE).
- E. FOLLOW ALL ACCEPTED NYS STATE PLUMBING CODES AND SAFETY PROTOCOLS WHEN INSTALLING NEW PIPING (TURN-OFF ALL LIQUID FLOW AT THE VALVES FEEDING INTO SAID PIPING PRIOR TO ANY WORK AT PIPING REPLACEMENT LOCATIONS).
- F. INSTALL NEW PIPING, PLUMBING FIXTURES AND ACCESSORIES PER MANUFACTURERS RECOMMENDATIONS.

KEYED NOTES (THIS SHEET ONLY):

- ① TEMPORARILY DISCONNECT, REMOVE AND STORE PLUMBING FIXTURE (OR APPLIANCE) AS REQUIRED TO COMPLETE KITCHEN CABINET AND COUNTERTOP REPLACEMENT SCOPE OF WORK SHOWN ON A-401. RE-CONNECT AND RE-INSTALL PLUMBING FIXTURE (OR APPLIANCE) TO EXISTING PIPING FOLLOWING CABINET AND COUNTER TOP WORK.

**HELIO HEALTH
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 SYRACUSE, NY 13203

THE ARCHITECT SHALL BE DEEMED TO HAVE CONDUCTED A VISUAL GENERAL VERIFICATION OF THE EXISTING CONDITIONS OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED HEREON. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.



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Revisions:

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1		
2		
3		

Sheet Title:
**PLUMBING
FLOOR PLANS**

Sheet No:
P-101

Job No: 1647