

# CERTIFICATE OF APPROPRIATENESS APPLICATION FORM



PLANNING &  
DEVELOPMENT  
DEPARTMENT

## PROPERTY

Address 523 Columbia Street, Houston, TX 77007

Historic District / Landmark Houston Heights South

HCAD # 0210190000007

Subdivision Columbia Street

Lot 7

Block 287

## DESIGNATION TYPE

- Landmark  
 Protected Landmark  
 Archaeological Site  
 Contributing  
 Noncontributing  
 Vacant

## PROPOSED ACTION

- Alteration or Addition  
 Restoration  
 New Construction  
 Relocation  
 Demolition  
 Excavation

## DOCUMENTS

- Application checklist for each proposed action and all applicable documentation listed within are attached

## OWNER

Name Gregory Woulfe / Martha Woulfe

Company

Mailing Address 523 Columbia Street

Houston, TX 77007

Phone 713-818-2929

Email

Signature

Date

11/12/14

## APPLICANT (if other than owner)

Name Gail Schorre

Company Morningside Architects, LLP

Mailing Address 4229A Bellaire Blvd

Houston, TX 77025

Phone 713-529-2630

Email

Signature

Date

## ACKNOWLEDGEMENT OF RESPONSIBILITY

**Requirements:** A complete application includes all applicable information requested on checklists to provide a complete and accurate description of existing and proposed conditions. Preliminary review meeting or site visit with staff may be necessary to process the application. Owner contact information and signature is required. Late or incomplete applications will not be considered.

**Deed Restrictions:** You have verified that the work does not violate applicable deed restrictions.

**Public Records:** If attached materials are protected by copyright law, you grant the City of Houston, its officers, agencies, departments, and employees, non-exclusive rights to reproduce, distribute and publish copyrighted materials before the Houston Archaeological and Historical Commission, the Planning Commission, City Council, and other City of Houston commissions, agencies, and departments, on a City of Houston website, or other public forum for the purposes of application for a Certificate of Appropriateness or building permit, and other educational and not for profit purposes. You hereby represent that you possess the requisite permission or rights being conveyed here to the City.

**Compliance:** If granted, you agree to comply with all conditions of the COA. Revisions to approved work require staff review and may require a new application and HAHC approval. Failure to comply with the COA may result in project delays, fines or other penalties.

Planner: \_\_\_\_\_

Application received: \_\_\_/\_\_\_/\_\_\_ Application complete: \_\_\_/\_\_\_/\_\_\_

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Planner: \_\_\_\_\_ Application received: \_\_\_/\_\_\_/\_\_\_ Application complete: \_\_\_/\_\_\_/\_\_\_

# CERTIFICATE OF APPROPRIATENESS APPLICATION INSTRUCTIONS



PLANNING &  
DEVELOPMENT  
DEPARTMENT

Well in advance of the COA application deadline contact staff to discuss your project, application requirements, and, if necessary, to make an appointment to meet with staff for a project consultation. Visit the Historic Preservation Web Manual for historic district profiles, project guidance and forms.  
[www.houstontx.gov/HistoricPreservationManual](http://www.houstontx.gov/HistoricPreservationManual)

Historic Preservation Office

713.837.7963

historicpreservation@houstontx.gov

## SUBMISSION INSTRUCTIONS

To submit application to Planning Department:

- email documents to [historicpreservation@houstontx.gov](mailto:historicpreservation@houstontx.gov) (attachments must be less than 10MB)
- send a Dropbox shared folder invitation to [historicpreservation@houstontx.gov](mailto:historicpreservation@houstontx.gov), or
- contact staff to set up an appointment to drop off a disc or flash drive.

## MEETING SCHEDULE

- Applications are due **22 calendar days** in advance of the HAHC meeting by **12 PM (noon)** on the deadline date. Exception: revisions to items deferred or denied at the previous HAHC meeting are due 15 days in advance of the scheduled meeting.
- Application deadlines are firm. All materials must be submitted by the deadline to be considered at the following HAHC meeting. Designs must be final at time of application; revisions will not be accepted after the deadline.
- HAHC will not accept new material or redesigns presented at the HAHC meeting. Deferral until the following month's meeting may be necessary in such cases to allow for adequate review by staff and commissioners.
- HAHC monthly meetings are held at 3:00 PM at City Hall Annex, 900 Bagby Street, City Council Chambers, Public Level.

2014 Meeting Dates (Thursdays unless noted otherwise)	COA Application Deadlines	Demolition / Relocation Posted Sign Deadlines
October 23	October 1	October 13
November 20	October 29	November 10
December 17 (Wednesday)	November 25	December 7

## DEFINITIONS

**Addition:** any expansion to an existing building, structure or object.

**Alteration:** any change to the exterior of a building or structure, including adding, moving, removing or replacing an exterior feature.

**Demolition:** an act or process that destroys in whole, or a majority of, any building, structure, object or site.

**Excavation:** to expose, uncover, or remove by digging, cutting or hollowing out.

**Exterior Feature:** an element of the architectural character and the general arrangement of the external portion of a building, structure or object, including building materials.

**Mandatory Repair:** a repair of a building or structure that is necessary to comply with Article IX, Ch. 10, Houston Code of Ordinances, as evidenced by an order of the hearing official or the building and standards commission or by a citation.

**New Construction:** the erection of a new building, structure, or object, on a lot, site, or other property.

**Relocation:** any change in the location of a building, structure, or object.

**Restoration:** accurately recovering the form and detail of a building, structure, object, or site and its setting as it appeared at a particular period of time by means of the removal of later work, or by the replacement of missing earlier work, or both.

# CERTIFICATE OF APPROPRIATENESS ALTERATION & ADDITON CHECKLIST



PLANNING &  
DEVELOPMENT  
DEPARTMENT

**Well in advance of the COA application deadline contact staff to discuss your project and, if necessary, to make an appointment to meet with staff for a project consultation.**

Complete all applicable items and submit with the COA application form. Staff can assist you in determining what items are required for your scope of work. An incomplete application may cause delays in processing or may be deferred to the next agenda. Application materials must clearly represent current and proposed conditions. Refer to Houston Code of Ordinances, Ch. 33 VII, Sec. 33-241 for approval criteria for alteration, rehabilitation, restoration and additions.

## PROPERTY ADDRESS:

---

### BUILDING TYPE

- |  |  |
|--|--|
| <input type="checkbox"/> single-family residence | <input checked="" type="checkbox"/> garage   |
| <input type="checkbox"/> multi-family residence  | <input type="checkbox"/> carport             |
| <input type="checkbox"/> commercial building     | <input type="checkbox"/> accessory structure |
| <input type="checkbox"/> mixed use building      | <input type="checkbox"/> other               |
| <input type="checkbox"/> institutional building  |  |

### ALTERATION TYPE

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> addition     | <input type="checkbox"/> roof             |
| <input type="checkbox"/> foundation              | <input type="checkbox"/> awning or canopy |
| <input type="checkbox"/> wall siding or cladding | <input type="checkbox"/> commercial sign  |
| <input type="checkbox"/> windows or doors        | <input type="checkbox"/> ramp or lift     |
| <input type="checkbox"/> porch or balcony        | <input type="checkbox"/> other            |

### WRITTEN DESCRIPTION

- property description, current conditions and any prior alterations or additions
- proposed work; plans to change any exterior features, and/or addition description
- current building material conditions and originality of any materials proposed to be repaired or replaced
- proposed new materials description; attach specification sheets if necessary

### PHOTOGRAPHS label photos with description and location

- elevations of all sides
- detail photos of exterior elements subject to proposed work
- historical photos as evidence for restoration work

### DRAWINGS scale like drawings the same; include all dimensions and drawing scale; label with cardinal directions

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> current site plan                 | <input checked="" type="checkbox"/> demolition plan                  |
| <input checked="" type="checkbox"/> proposed site plan                | <input checked="" type="checkbox"/> current roof plan                |
| <input checked="" type="checkbox"/> current floor plans               | <input checked="" type="checkbox"/> proposed roof plan               |
| <input checked="" type="checkbox"/> proposed floor plans              | <input checked="" type="checkbox"/> current elevations (all sides)   |
| <input checked="" type="checkbox"/> current window and door schedule  | <input checked="" type="checkbox"/> proposed elevations (all sides)  |
| <input checked="" type="checkbox"/> proposed window and door schedule | <input checked="" type="checkbox"/> perspective and/or line of sight |

City of Houston  
Planning and Development Department  
Certificate of Appropriateness Application  
HAHC Meeting – November 25, 2014

**Site Location:**

523 Columbia Street  
Houston, TX 77007

**Select Design:**

Houston Heights District South

**Site Information:**

Lot 7, Block 287, Houston Heights Subdivision, City of Houston, Harris County, Texas. The site includes a two-story single-family residence built circa 1920 on a 6,600 sq. ft. lot.

**Project Details:**

- Shape/Mass: The proposed one-story rear Garage addition will begin 55'-7" back from the front façade and will measure 12'-0" wide and 29'-6" deep. The addition will have an eave height of 10'-10," matching the existing Garage and an overall height of 33'-11 1/2" to the ridge.
- Setbacks: The proposed addition will be setback 28'-4" from the west property line and will be setback 0'-3" from the south property line.
- Roof: The proposed addition will feature a gabled roof with a 5 over 12 pitch to match existing Garage. The roof will be clad with composite shingles and will feature open eaves to match existing.
- Exterior Materials: The existing Garage is clad with wood siding. This rear addition will be clad with cementitious lap siding, profile to match existing.
- Window/Doors: The proposed addition will feature 1-over-1 wood double hung sash windows to match existing.
- Foundation: The proposed rear addition will be built on a slab foundation to match the existing Garage.

**Project Description:**

The project is an addition to an existing 1-story wood frame Garage. The proposed work extends the existing Garage towards to the back of the property. The proposed design is a non-conditioned space to the rear of the Garage.

All portions of the new construction have a clear starting and stopping point with siding and materials that match the original house in scale and style. Although new materials will be used, such as cementitious siding, double-hung wood windows, and trim, these new materials will match the original character of the house. Please refer to the attached drawings which illustrate the description of the work stated above.

AREA CALCULATIONS:

AIR CONDITIONED AREA :

EXISTING 1ST FLOOR TO REMAIN	2,816 SQ FT
NEW ADDITION 1ST FLOOR	0 SQ FT
NEW ADDITION 2ND FLOOR	0 SQ FT
<b>TOTAL</b>	<b>2,816 SQ FT</b>

TOTAL COVERED SPACE (INCLUDING GARAGES AND PORCHES)

The numbers below reflect the total covered floor area, including porches. They do not include the driveway and sidewalk. Therefore, the numbers below do not represent the same footprint areas used for the impervious area calculations.

A. EXISTING including porches & Garage.	3,470 SF	equals minus	0 SF	3,470 SF	equals plus
B. DEMO OF EXISTING COVERED SPACE demolition of a portion of the existing covered space					
C. EXISTING COVERED SPACE TO REMAIN includes area of existing covered space to remain after demolition and prior to new construction. (A - B)	3,470 SF				
D. NEW CONSTRUCTION	363 SF				
E. TOTAL COVERED SPACE includes all covered space after completion of addition and renovation (C + D)	3,833 SF				

Area Calculations

# Woulfe Garage

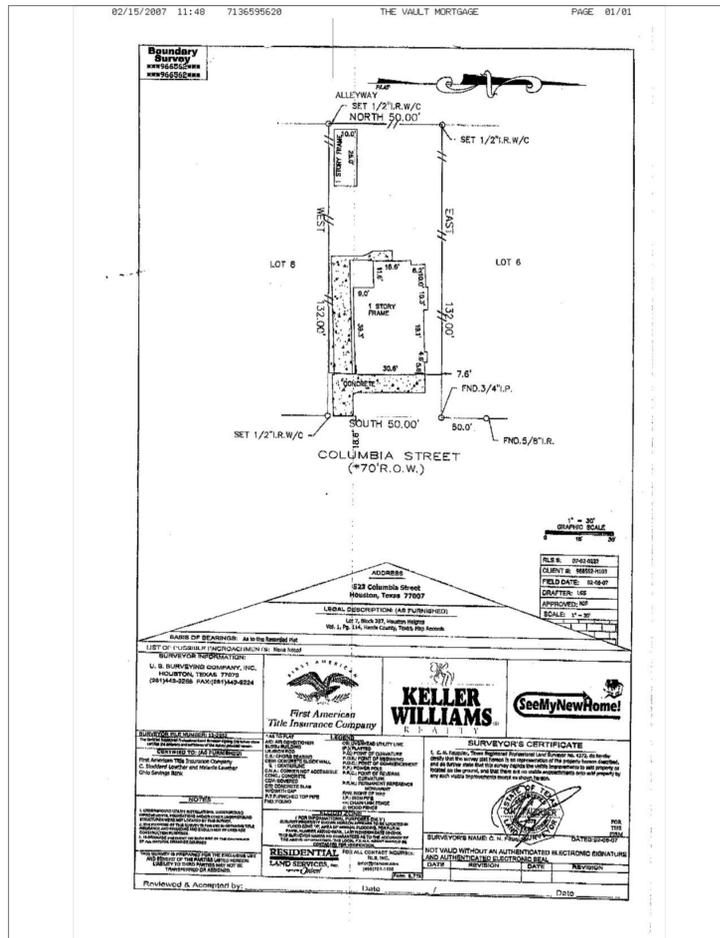
Addition  
523 Columbia Street  
Houston, Texas 77007

Morningside Architects LLP Architects

Structural Engineers

INDEX

COVER	SURVEY / AREA CALCULATIONS
A1.0	SITE PLAN / ROOF PLAN / COH DOCUMENTS
A2.0	EXISTING / DEMOLITION PLAN - FIRST FLOOR GARAGE
A3.0	FIRST FLOOR REFLECTED CEILING - ELECTRICAL
	PLAN / FINISH SCHEDULE
A4.0	EXTERIOR ELEVATIONS / WALL SECTION
A4.1	EXTERIOR ELEVATIONS
A4.2	EXTERIOR ELEVATIONS
A4.3	EXTERIOR ELEVATIONS



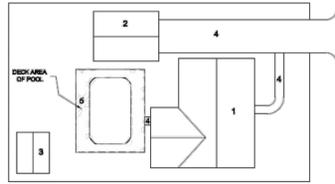
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**CALCULATION OF IMPERVIOUS PERCENTAGE**

FOR USE ON SINGLE FAMILY RESIDENTIAL LOTS OF 15,000 SQUARE FEET IN AREA OR LESS

Single Family Residential lots of 15,000 square feet in area or less with Percent Impervious less than or equal to 75% do not need to provide stormwater detention. This form is a tool to assist customers in determining the amount of impervious area as a percentage on lots 15,000 square feet or less.



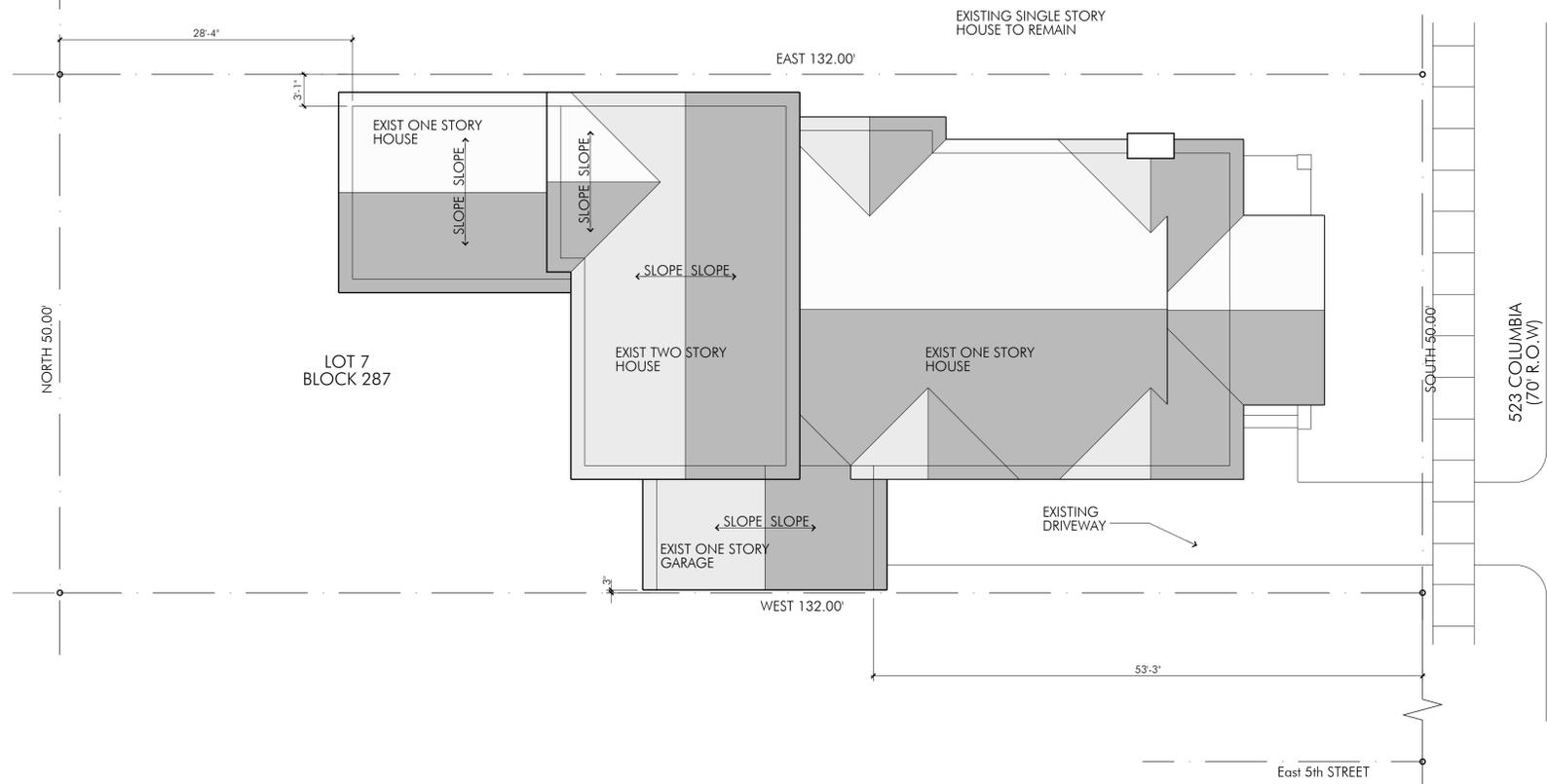
This diagram is to identify various items considered impervious.  
Surfaces with materials such as pea gravel, permeable pavers or permeable concrete are not considered as impervious.

Project Number: \_\_\_\_\_ Address: 523 Columbia St., Houston, TX 77007

CALCULATION OF IMPERVIOUS AREA PERCENTAGE		
ENTER THE VALUE OF EACH IMPERVIOUS AREA:	SQUARE FEET	ACRES (Sq. Ft. ÷ 43560 = Acres)
1. Existing house (including home on block and base/pier and beam)	3,470	
2. Detached garage/carport	0	
3. Accessory structures	0	
4. Driveway/sidewalk	642	
5. Swimming Pool and deck	0	
6. New addition/structure	363	
7. Others	49	porch steps, gravel, pavers
<b>A. Total area of impervious cover</b>	<b>4,524</b> sq. ft.	<b>acres</b>
<b>ENTER THE LOT AREA:</b>		
<b>B. Area of lot</b>	<b>6,600</b> sq. ft.	<b>acres</b>
<b>C. Percentage impervious area: (A ÷ B) X 100 = 68.5 %</b>		

If > 75% , detention volume rate of 0.20 cubic feet per square foot of impervious cover is required.

04 Impervious Area Calculation



**2009 RESIDENTIAL ENERGY CONSERVATION FORM**

**PROJECT INFORMATION**

Address: 523 Columbia Street, Houston, TX 77007 Project Number: \_\_\_\_\_ (CITY OF HOUSTON ASSIGNED)

Building Type:  Single Family  Multi-family (3 stories or less)  Townhouse  Other: \_\_\_\_\_

Scope of Work:  New Construction  Addition of 363 square feet  Remodel

Project affects:  Walls/Ceilings/Floors that separate conditioned and unconditioned space  Service Water Heating Eqp.  Heating or Air Cond. Eqpt./Ducts  Window/doors that separate conditioned and unconditioned space  None of the items listed --- STOP.

The building is exempt due to:  Historical (Attach certificate) - Must comply with code provisions unless the provision will invalidate the historical designation.  Non-conditioned  Low Energy (less than 1wt/sq.ft)  Other: \_\_\_\_\_

**BUILDING ENVELOPE COMPLIANCE METHOD**  
(CHOOSE ONLY ONE OF THE BELOW METHODS IN THIS SECTION)

**A Window to wall method.** This requires slightly more calculation but allows up to 30% glazing.

(A1) Calculate. \_\_\_\_\_ Glazing (sq. ft.) + \_\_\_\_\_ Wall area (sq. ft.) x 100 = \_\_\_\_\_ %  
% glazing of wall area.

(A2) Fenestration. Using the table, check the applicable box to indicate how glazing meets code criteria.

REFERENCE TABLE	Window to Wall %	Max. U-factor	Max. SHGC
<input type="checkbox"/>	15	.65	.40
<input type="checkbox"/>	20	.55	.40
<input type="checkbox"/>	25	.51	.35
<input type="checkbox"/>	30	.46	.35

All glazing meets values in table.  
**OR**  
 Glazing is averaged with some glazing not meeting the criteria. (Attach calculations)

(A3) Insulation. Using the table, indicate what R-values and type of insulation will be used.

REFERENCE TABLE	Window to Wall Area	Ceiling R-Value	Wood Frame Wall R-Value	Floor R-Value	Crawl Space Wall R-Value	PROPOSED VALUES (Use the Predominant R-Value)
<input type="checkbox"/>	15	30	13	15	6	R-_____ Ceiling
<input type="checkbox"/>	20	30	13	15	6	R-_____ Wall
<input type="checkbox"/>	25	30	13	19	10	R-_____ Floor
<input type="checkbox"/>	30	38	16	19	10	R-_____ Crawlspace

Insulation Type: \_\_\_\_\_

**B Conditioned Floor Area Method.** This method is an easier method, than the above but is limited to 18% glazing.

(B1) Calculate. \_\_\_\_\_ Glazing (sq. ft.) + \_\_\_\_\_ Cond. Floor Area (sq. ft.) x 100 = \_\_\_\_\_ %  
% glazing of conditioned floor area.

(B2) Insulation and Fenestration. All values shall meet or exceed the minimums provided by this table when showing compliance with this method.

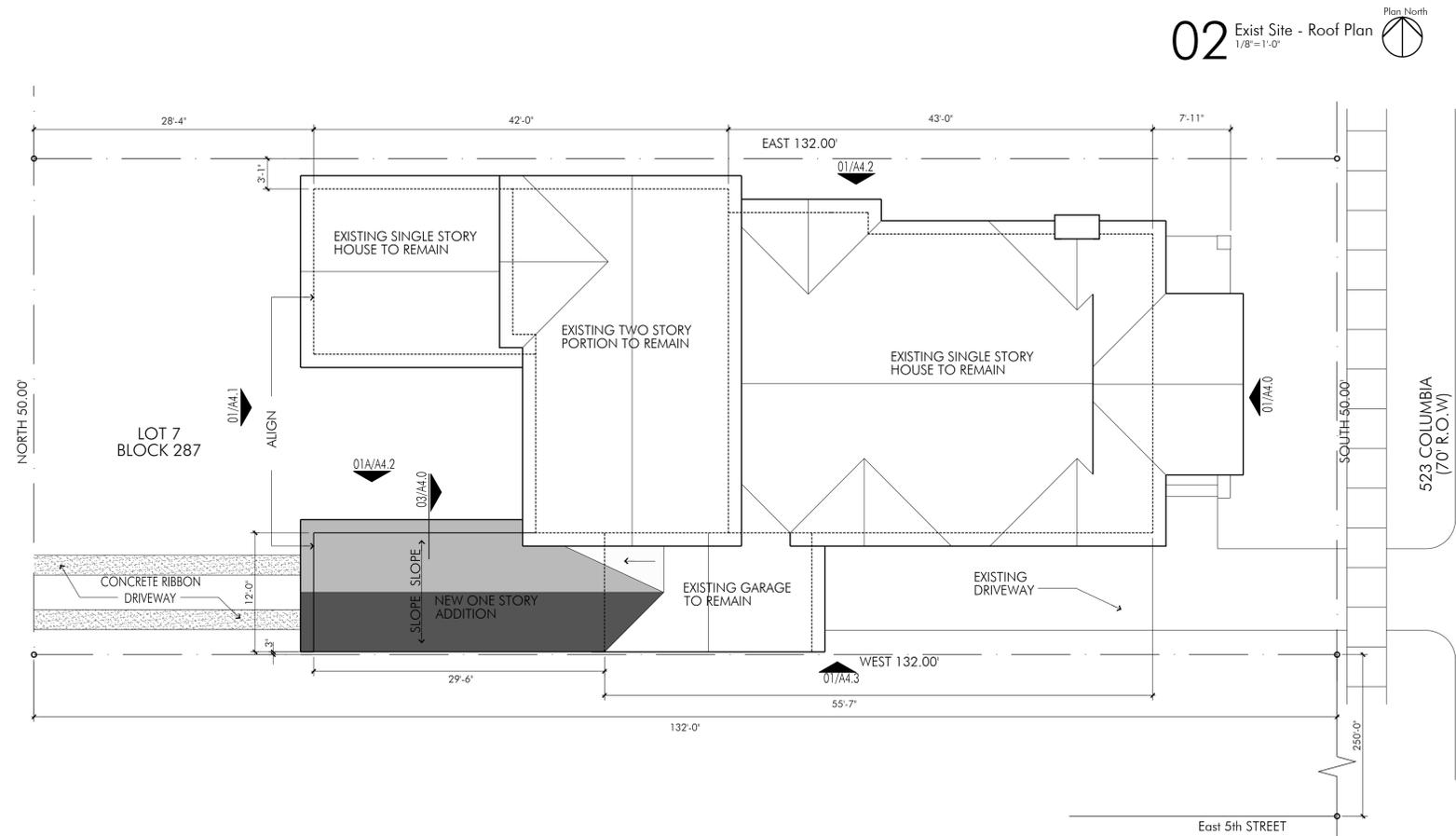
Max. U-factor	Max. SHGC	Ceiling R-Value	Wall R-Value	Floor R-Value	Indicate insulation type:
0.65	0.30	30	13	13	_____

**GENERAL PRESCRIPTIVE REQUIREMENTS**

Radiant Barrier:  No  Yes - Ceiling insulation may be reduced to R-19 from R-30 when using an approved radiant barrier when using method A above.

HVAC: Equipment Type: \_\_\_\_\_ SEER: \_\_\_\_\_  
\*\*Duct insulation shall be R-8 in attics and R-6 otherwise. Excp: Ducts located inside conditioned space.\*\*

03 Energy Code Compliance Form



02 Exist Site - Roof Plan  
1/8"=1'-0"

01 Proposed Site - Roof Plan  
1/8"=1'-0"

Morningside Architects

Morningside Architects LLP  
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713.529.2630 Tel  
713.526.6494 Fax  
www.morningsidearchitects.com

Consultants

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11/14/14

Wouffe Garage  
523 Columbia Street  
Houston, TX 77007

Issue	Date	Description
XX	11-25-14	COA Application
XX	11-12-14	Design Development

Project Number:	14048
CAD Drawing File:	Wouffe.DWG
Drawn By:	MIR
Checked By:	TS
Copyright:	©Morningside Architects LLP 2014

Site Plan / COH Documents

Sheet Number

A1.0

DEMOLITION NOTES

1. PROTECT FLOORS, WALLS, FIXTURES AND MILLWORK TO REMAIN. U.N.O.
2. SHORE STRUCTURE AS REQ'D.
3. VERIFY WITH OWNER FOR SALVAGE AND RE-USE OF ANY ITEMS NOTED TO BE REMOVED.
3. PATCH OR REPAIR WALLS, CEILINGS AND FLOORS AS REQ'D. LEVEL FLOORS AS REQ'D TO ACCEPT NEW FINISH FLOOR. REFER TO FINISH SCHEDULE.
4. REFER TO RCP FOR ALTERATIONS OR REMOVAL OF ELECTRICAL COMPONENTS.
5. SALVAGE EXIST. HARDWARE FOR POSSIBLE RE-USE, U.N.O.
6. VERIFY LOCATION OF ELECTRICAL ITEMS, INCLUDING POWER POLE, WEATHERHEAD AND ELECTRICAL PANELS.

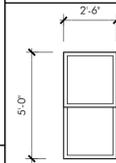
DEMO LEGEND

- DEMOLITION: REMOVE AND DISPOSE OF WALL, APPLIANCES, MILLWORK, DOOR, OR OTHER ITEMS
- EXISTING WALL, FLOOR, & STRUCTURE TO REMAIN, PROTECT FROM DAMAGE DURING DEMOLITION

FINISH SCHEDULE

ROOM NAME	FLOOR	BASE	CROWN	WALLS	CEILING	CEILING HEIGHT	REMARKS
Porch	Exist	Exist	Exist	PTD. WD.	PTD. BDD.	Exist	Existing screen to be modified
Garage 2	Concrete	---	---	PTD. DW.	PTD. DW.	10'-8"	

WINDOW TYPE 1/4" = 1'-0" Jeld-Wen Clad Wood Trad Plus



WINDOW TYPE 'A'  
DOUBLE HUNG WOOD  
FRAME WINDOW WITH  
LOW-E INSULATED GLASS  
\* EGRESS WINDOW

ALL WINDOWS 'JELD WEN', TRADITION PLUS PRODUCT LINE OR BETTER, OR OTHER MANUFACTURER FROM EQUAL OR BETTER PRODUCT LINE  
TYPICAL ALL WINDOWS: SHGC 0.28 & U VALUE 0.31, UNLESS NOTED OTHERWISE  
MOUNT FIRST FLOOR WINDOWS TO MATCH EXISTING, UNLESS NOTED OTHERWISE  
SEE FLOOR PLANS FOR LOCATIONS REQUIRING TEMPERED GLAZING  
EGRESS WINDOW TO MEET THE FOLLOWING OPENING REQUIREMENTS:  
\* MINIMUM CLEAR AREA OF OPENING: 5.7 SF - MINIMUM CLEAR OPENING HEIGHT: 24" - MINIMUM CLEAR OPENING WIDTH: 20" PER 2006 IRC R610.2 IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND 24 INCHES SHALL BE FIXED OR HAVE OPENINGS THROUGH WHICH A 4-INCH DIAMETER SPHERE CANNOT PASS. CONTRACTOR TO VERIFY WINDOW TYPE 'F' WILL COMPLY WITH NOTE ABOVE ON MOUNTING HTS. NOTIFY ARCHITECT IF CONFLICT EXISTS.

LEGEND

- DENOTES EXTENTS OF NEW CONSTRUCTION
- EXISTING WALL, FLOOR, & STRUCTURE TO REMAIN, PROTECT FROM DAMAGE DURING DEMOLITION

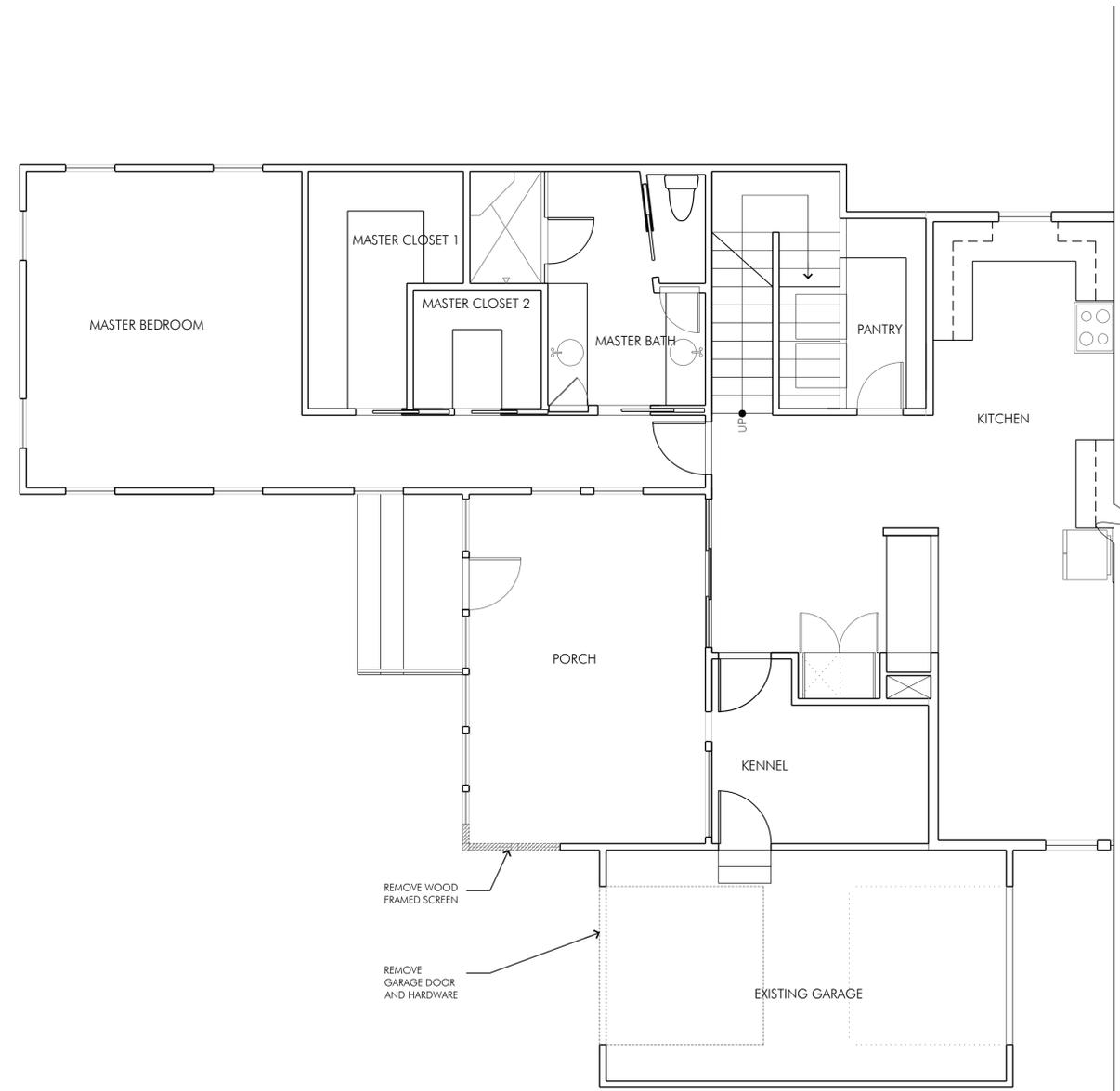
GENERAL NOTES

1. UNLESS NOTED OTHERWISE, WALL DIMENSIONS SHOWN ARE TO FINISH FACE OF STUD.
2. EXTERIOR WALLS TO BE 2X6 CONSTRUCTION, INTERIOR TO BE 2X4, EXCEPT AS NOTED

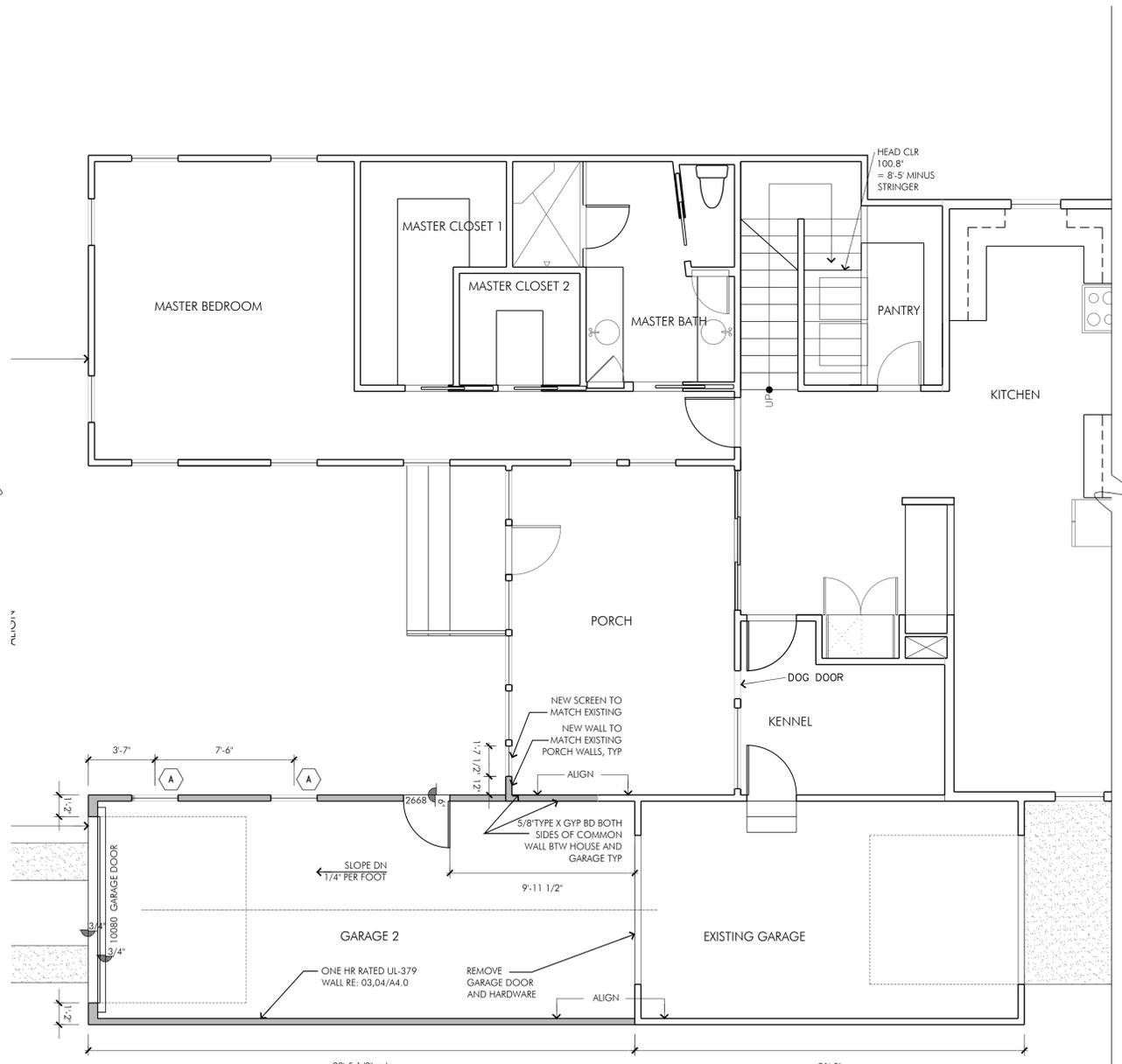
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02 Exist First Floor Plan - Demo Plan 1/4"=1'-0"



01 Proposed First Floor Plan 1/4"=1'-0"

Woulfe Garage  
523 Columbia Street  
Houston, TX 77007

Issue	Date	Description
XX	11-25-14	COA Application
XX	11-12-14	Design Development

Project Number:	14048
CAD Drawing File:	Woulfe.DWG
Drawn By:	MIR
Checked By:	TS
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Sheet Title  
Demolition, Exist and First Floor Plan

Sheet Number

A2.0

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Woulfe Garage  
 523 Columbia Street  
 Houston, TX 77007

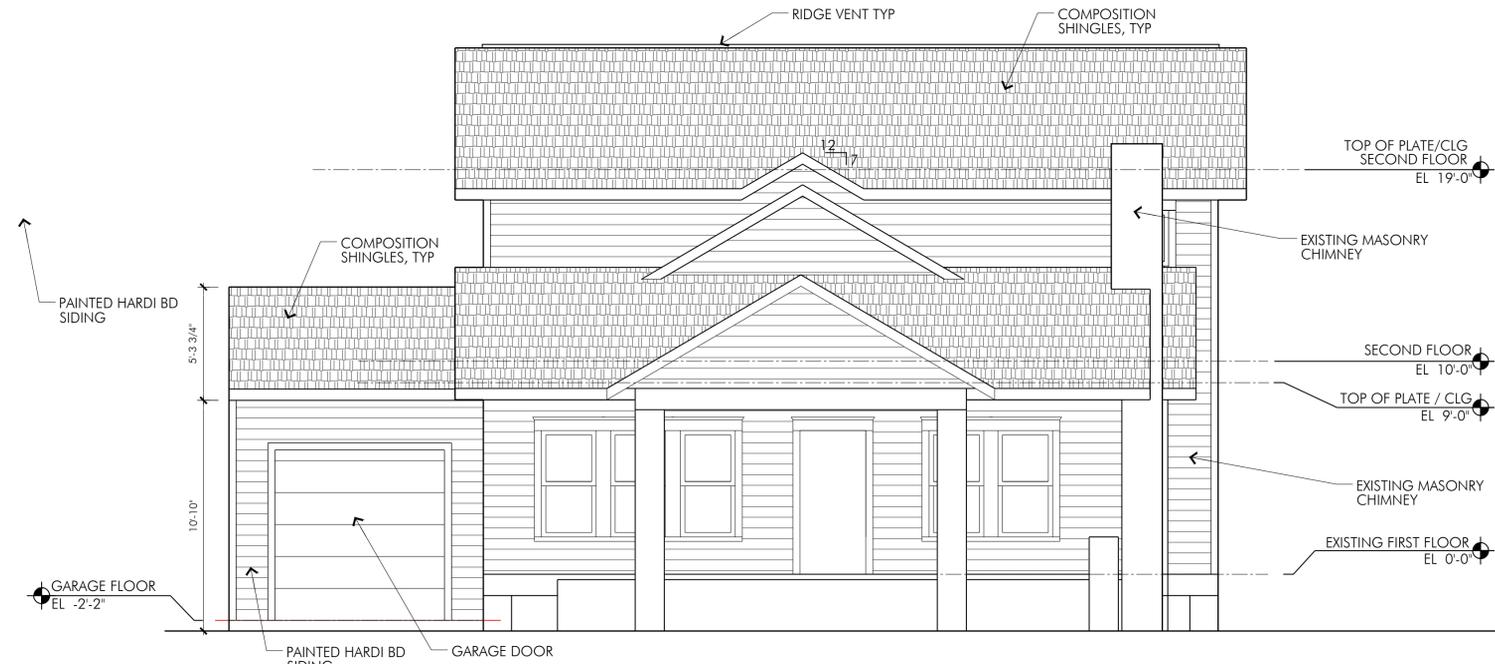
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Sheet Title  
**Exterior Elevations / Wall Section**

Sheet Number

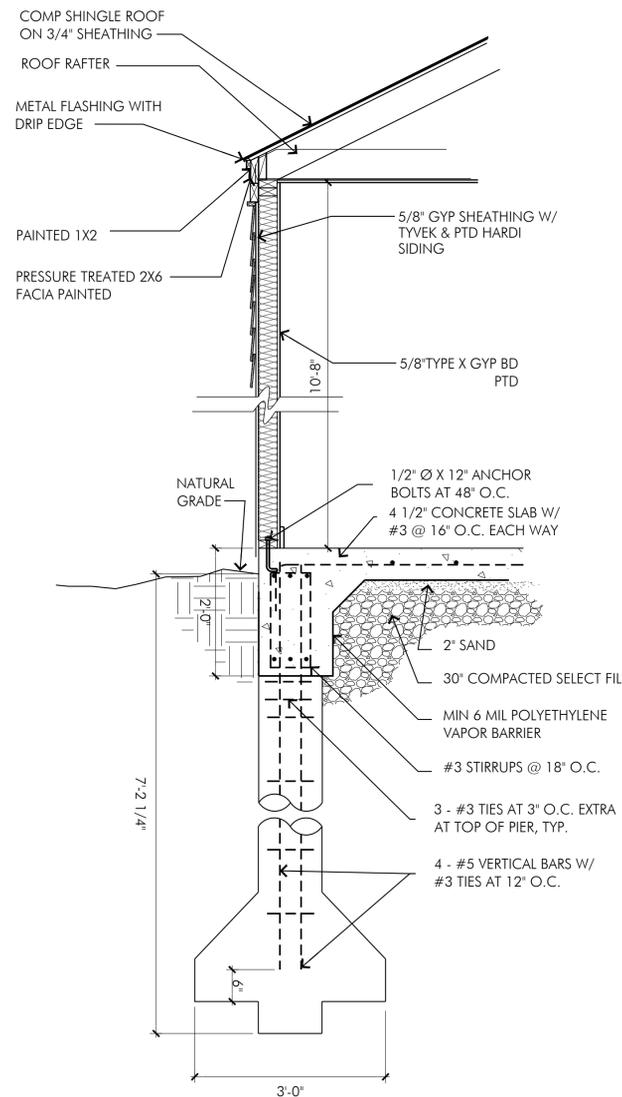
## A4.0



**02** Exist East Elevation  
 1/4"=1'-0"

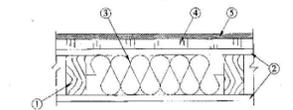


**01** Proposed East Elevation  
 1/4"=1'-0"



**03** Wall Section at Slab  
 3/4"=1'-0"

**Design No. U364**  
 Bearing Wall Rating — 1 Hr.  
 Load Restricted for Canadian Applications — See Guide BXUV7



- Wood Studs** — Min. nom 2 by 4 in., spaced 16 in. O.C.
  - Gypsum Board** — 5/8 in. thick (min) 4 ft wide bearing the ULI Classification Marking for Fire Resistance applied vertically. Attached to studs with 8d cement coated nails or 1-5/8 in. long No. 6 buglehead dry wall screws spaced 7 in. O.C. at the edges and in the field. Vertical joints located over studs. Joints covered with paper tape and joint compound. Nail heads covered with joint compound. See Gypsum Board (CKNA) Category for names of Classified Companies.
  - Batts and Blankets** — Min. 3-1/2 in. glass fiber or mineral wool batts placed to fill cavity of wall. See Batts and Blankets (BZIZ) Category for names of Classified Companies.
  - Foamed Plastic** — Max. 2 in. thick rigid polystyrene insulation attached to studs with 2-1/2 in. long galvanized roofing nails. OWENS CORNING SPECIALTY & FOAM PRODUCTS
  - Exterior Facings** — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:
    - Vinyl Siding Molded Plastic** — Contoured rigid vinyl siding having a flame spread value of 20 or less. See Molded Plastic (BIAT) category in the Building Materials Directory for names of manufacturers.
    - Particle Board Siding** — Hardboard exterior sidings including patterned panel or lap siding.
    - Wood Structural Panel or Lap Siding** — APA Rated Siding. Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.
    - Cementitious Stucco** — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.
    - Hard board Paneling — Mineral and Fiber Board** — Untreated panels nom 7/16 or 1/2 in. thick, 12 to 48 in. wide. Ship lapped panel sidings are fastened to framing members with 10d rust-resistant nails thru the lap spaced 6 in. O.C. vertically. Butted panel siding fastened to framing members with 10d nails 3/8 in. from edge spaced 6 in. O.C. vertically. Lap sidings fastened to framing members with 12d nails 3/8 in. from edges spaced 16 in. O.C. horizontally. (Aluminum joint molding as required for lap products).
    - MASONITE CORP**
    - Brick** — Brick veneer meeting the requirements of local code agencies. Brick veneer attached to the studs with corrugated metal wall ties attached to each stud with 8d cement coated nails every sixth course of bricks. When brick veneer is used the wall-board on the exterior side may be eliminated.
- \*Bearing the ULI Classification Mark.

**04** 1 Hr Fire Rated Assembly - UL # U364

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 Gail R. Schorre reg # 11042  
 11/14/14

Woulfe Garage  
 523 Columbia Street  
 Houston, TX 77007

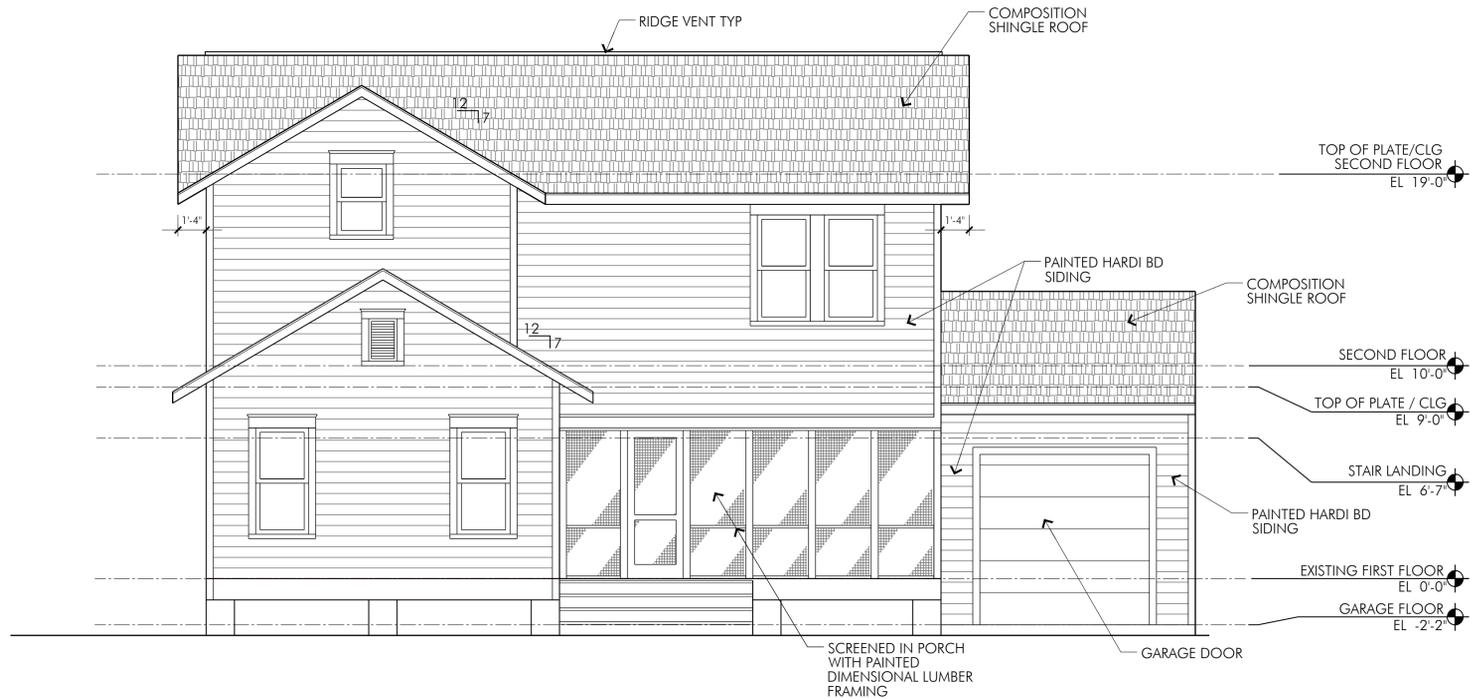
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XX	11-25-14	COA Application
XX	11-12-14	Design Development

Project Number:	14048
CAD Drawing File:	Woulfe.DWG
Drawn By:	MIR
Checked By:	TS
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Sheet Title  
**Exterior Elevations / Wall Section**

Sheet Number

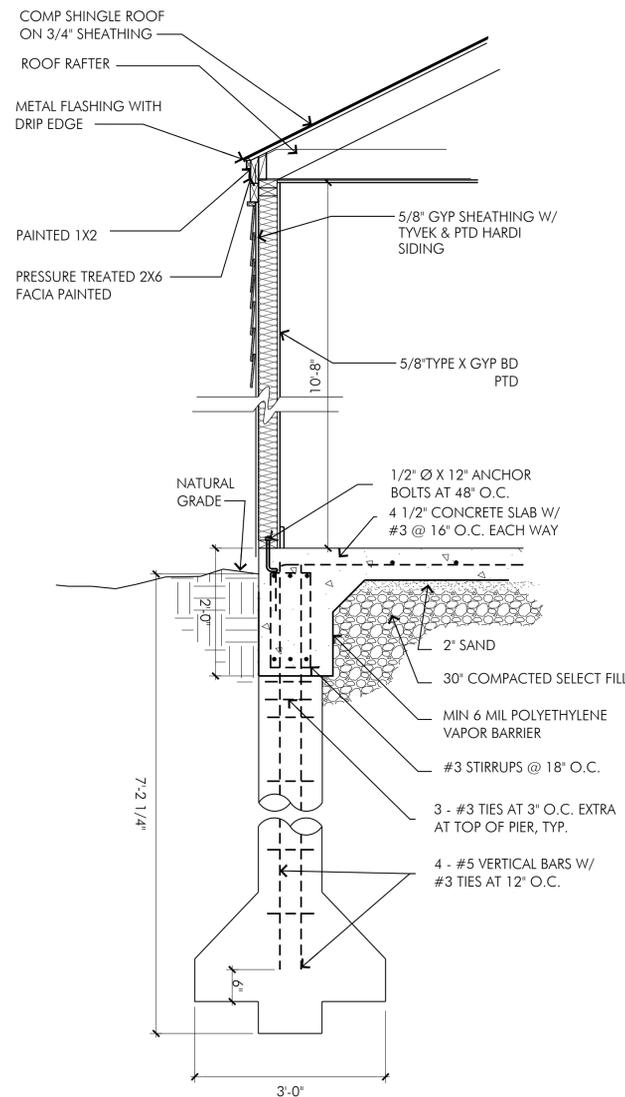
**A4.1**



**02** Exist West Elevation  
 1/4"=1'-0"

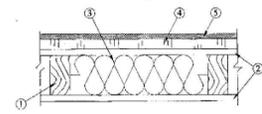


**01** Proposed West Elevation  
 1/4"=1'-0"



**03** Wall Section at Slab  
 3/4"=1'-0"

**Design No. U364**  
 Bearing Wall Rating — 1 Hr.  
 Load Restricted for Canadian Applications — See Guide BXUV7



- Wood Studs** — Min. nom 2 by 4 in., spaced 16 in. O.C.
  - Gypsum Board** — 5/8 in. thick (min) 4 ft wide bearing the ULI Classification Marking for Fire Resistance applied vertically. Attached to studs with 8d cement coated nails or 1-5/8 in. long No. 6 buglehead dry wall screws spaced 7 in. O.C. at the edges and in the field. Vertical joints located over studs. Joints covered with paper tape and joint compound. Nail heads covered with joint compound. See Gypsum Board (CKNA) Category for names of Classified Companies.
  - Batts and Blankets** — Min. 3-1/2 in. glass fiber or mineral wool batts placed to fill cavity of wall. See Batts and Blankets (BZIZ) Category for names of Classified Companies.
  - Foamed Plastic** — Max. 2 in. thick rigid polystyrene insulation attached to studs with 2-1/2 in. long galvanized roofing nails. OWENS CORNING SPECIALTY & FOAM PRODUCTS
  - Exterior Facings** — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing:
    - Vinyl Siding Molded Plastic** — Contoured rigid vinyl siding having a flame spread value of 20 or less. See Molded Plastic (BIAI) category in the Building Materials Directory for names of manufacturers.
    - Particle Board Siding** — Hardboard exterior sidings including patterned panel or lap siding.
    - Wood Structural Panel or Lap Siding** — APA Rated Siding. Exterior, plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.
    - Cementitious Stucco** — Portland cement or synthetic stucco systems with self-furring metal lath or adhesive base coat. Thickness from 3/8 to 3/4 in., depending on system.
    - Hard board Paneling - Mineral and Fiber Board** — Untreated panels nom 7/16 or 1/2 in. thick, 12 to 48 in. wide. Ship lapped panel sidings are fastened to framing members with 10d rust-resistant nails thru the lap spaced 6 in. O.C. vertically. Butted panel siding fastened to framing members with 10d nails 3/8 in. from edge spaced 6 in. O.C. vertically. Lap sidings fastened to framing members with 12d nails 3/8 in. from edges spaced 16 in. O.C. horizontally. (Aluminum joint molding as required for lap products).
    - MASONRY CORP**
    - Brick** — Brick veneer meeting the requirements of local code agencies. Brick veneer attached to the studs with corrugated metal wall ties attached to each stud with 8d cement coated nails every sixth course of bricks. When brick veneer is used the wall-board on the exterior side may be eliminated.
- \*Bearing the ULI Classification Mark.

**04** 1 Hr Fire Rated Assembly - UL # U364

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Woulfe Garage  
 523 Columbia Street  
 Houston, TX 77007

Issue	Date	Description
XX	11-25-14	COA Application
XX	11-12-14	Design Development

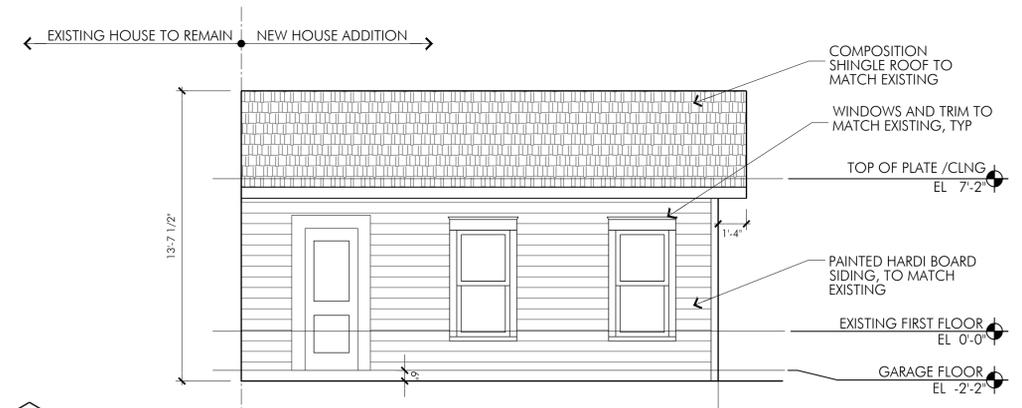
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CAD Drawing File:	Woulfe.DWG
Drawn By:	MIR
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Sheet Title  
**Exterior Elevations**

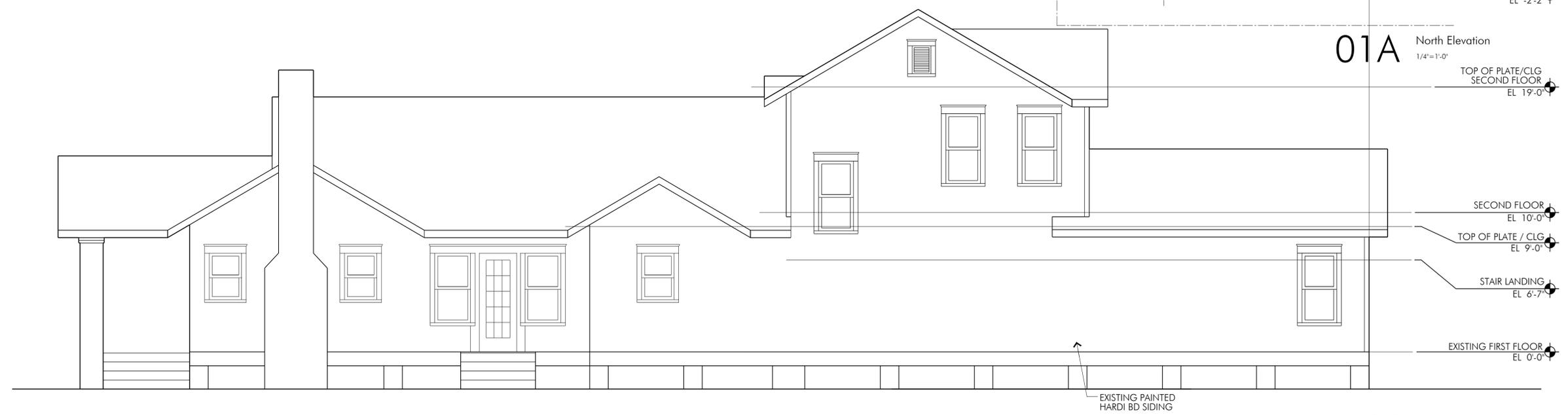
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**A4.2**



**02** Exist North Elevation  
 1/4"=1'-0"



**01A** North Elevation  
 1/4"=1'-0"



**01** Proposed North Elevation  
 1/4"=1'-0"

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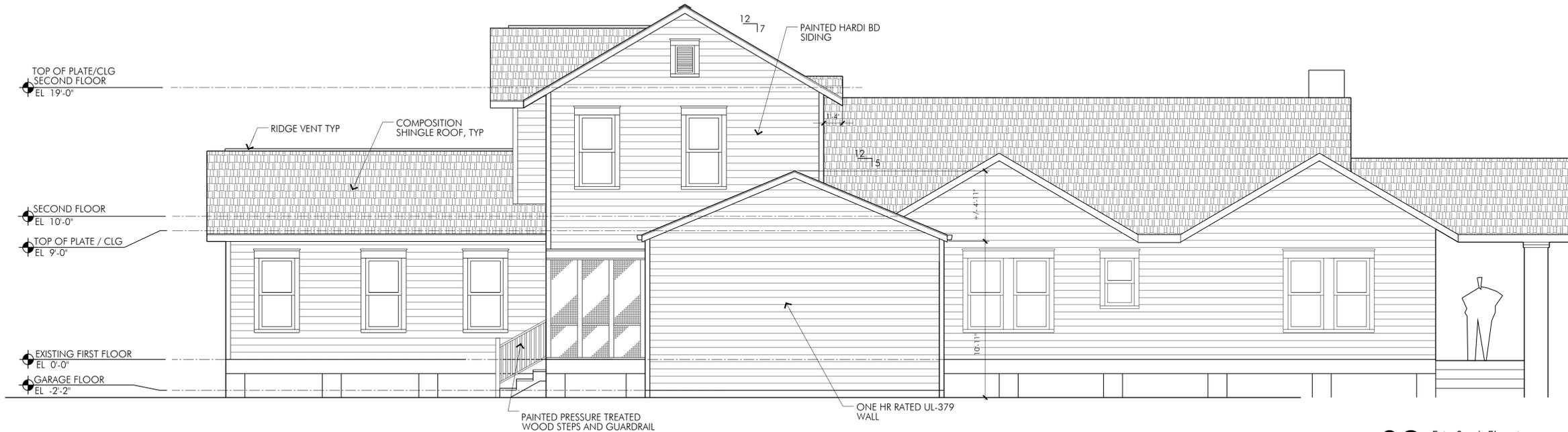
Issue	Date	Description
XX	11-25-14	COA Application
XX	11-12-14	Design Development

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Sheet Title  
**Exterior Elevations**

Sheet Number

## A4.3



**02** Exist South Elevation  
 1/4"=1'-0"



**01** Proposed South Elevation  
 1/4"=1'-0"