



1403 Bagley Rooftop HVAC Unit Installation

March 4, 2021

Mr. Brendan Cagney, Historic Specialist
City of Detroit, Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, MI 48226

Re: 1403 Bagley Rooftop HVAC Unit. Installation
1403 Bagley, Detroit, MI 48216

Mr. Cagney,

I am submitting for your review documentation for the installation of a rooftop HVAC unit for the upper unit at 1403 Bagley, in Detroit's Corktown Historic District.

The existing HVAC system for the upper unit is supplied from below the ceiling of the lower former retail space. In an effort to replace the HVAC system for the 1403 Bagley apartment, a new system is required. It is my wish to install a rooftop exterior HVAC unit.

Enclosed are cut sheets of the HVAC unit with the dimensions of the unit, photographs of the roof area with the parapet height shown and dimensioned and proposed exterior photographs with the implied new HVAC unit protruding as expected.

Please review.

Thank you,

Brian V. Hurttienne, Principal
Christian Hurttienne Architects
2111 Woodward Avenue, Suite 201
Detroit, MI



Area of roof where new HVAC Unit will be placed.



Existing parapet height at +/- 2'-9"



Existing chimney height of +/- 4'-9"



PROPOSED MECHANICAL EQUIPMENT

VIEW 1



PROPOSED MECHANICAL EQUIPMENT

VIEW 2



PROPOSED MECHANICAL EQUIPMENT

VIEW 3



PROPOSED MECHANICAL EQUIPMENT

SITE AREA PLAN



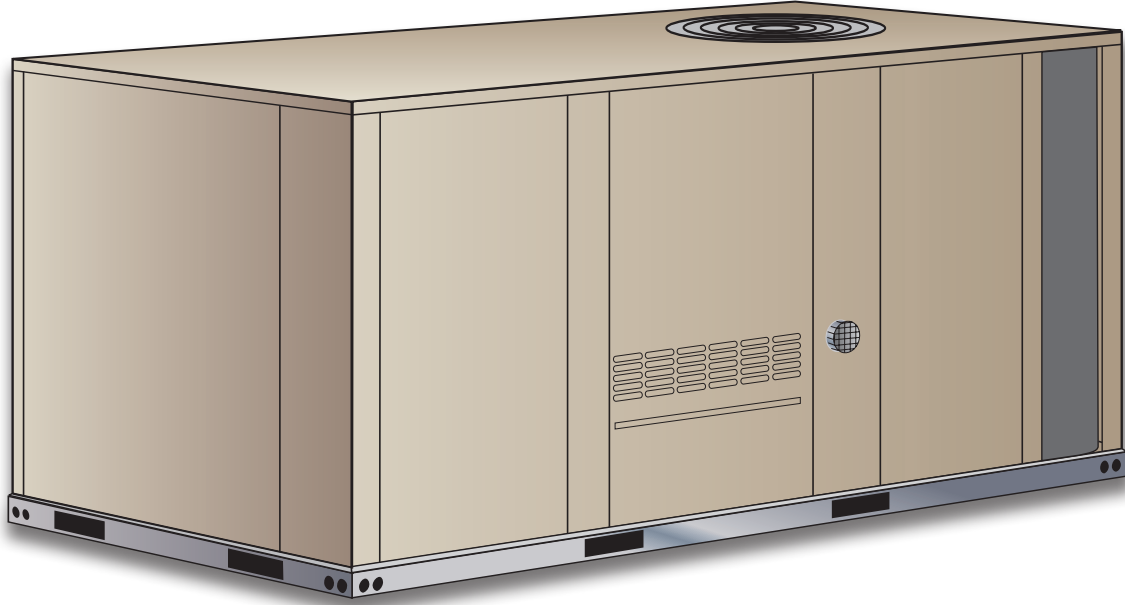
1403 BAGLEY
PROPOSED MECHANICAL EQUIPMENT
ISSUED: 2021.03.10

© CHRISTIAN HURTTIENNE ARCHITECTS 2111 WOODWARD AVE. #201 DETROIT, MI 313.825.2005 CHA-C.COM

SCALE: N.T.S.

SK-1

PRODUCT SPECIFICATIONS

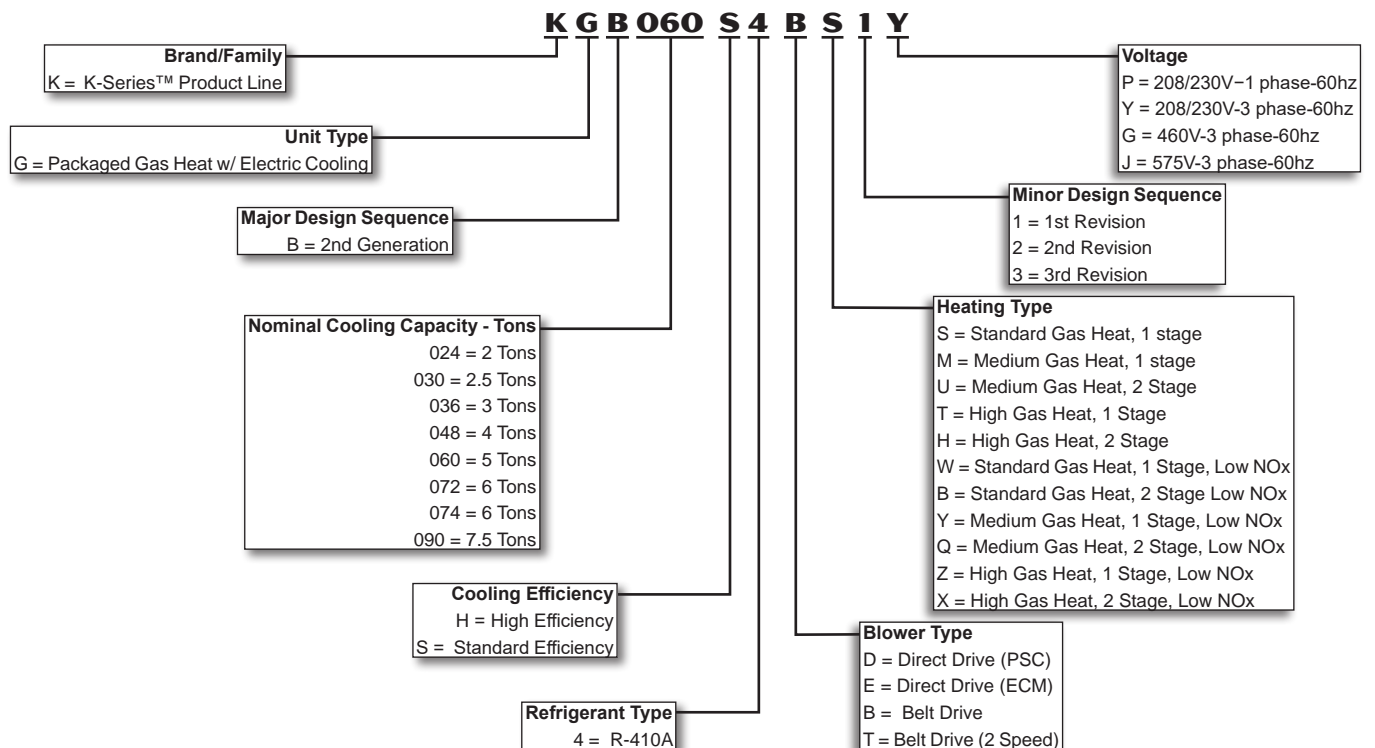


**ASHRAE 90.1
COMPLIANT**

2 to 7.5 Tons

Net Cooling Capacity – 24,200 to 88,000 Btuh
Gas Input Heat Capacity – 65,000 to 150,000 Btuh

MODEL NUMBER IDENTIFICATION

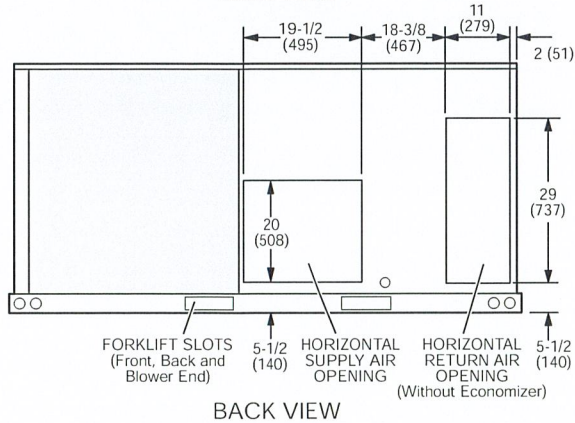
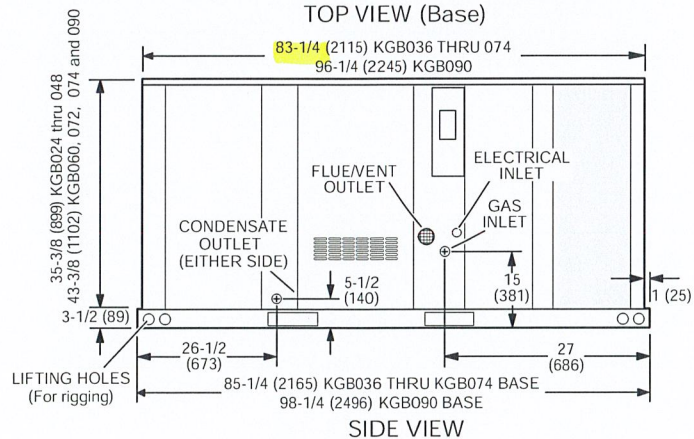
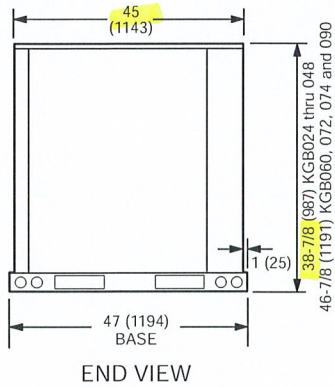
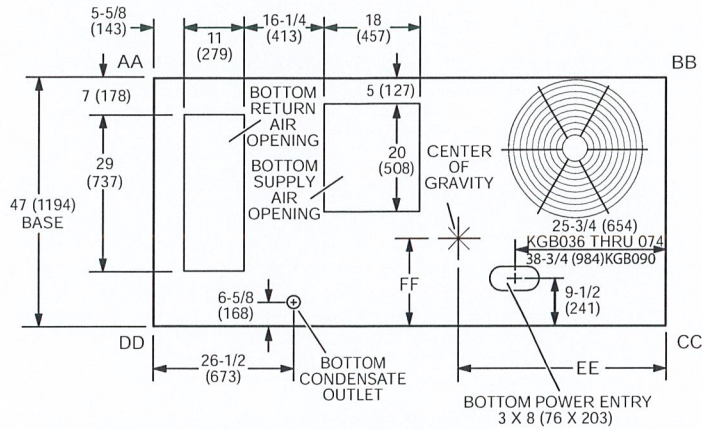


DIMENSIONS - UNIT

Model No.	CORNER WEIGHTS								CENTER OF GRAVITY															
	AA		BB		CC		DD		EE		FF		FF											
	Base lbs.	Max. kg	Base lbs.	Max. kg	Base lbs.	Max. kg	Base lbs.	Max. kg	Base in.	Max. mm	Base in.	Max. mm	Base in.	Max. mm										
024	107	49	129	59	124	56	132	60	160	73	170	77	138	63	208	95	39-1/2	1003	45	1143	20-1/2	521	20-1/2	521
030	108	49	130	59	125	57	132	60	161	73	171	78	139	63	209	95	39-1/2	1003	45	1143	20-1/2	521	20-1/2	521
036	112	51	142	64	130	59	141	64	168	76	190	86	145	66	228	104	39-1/2	1003	45	1143	20-1/2	521	20	508
048	112	51	145	66	130	59	144	65	168	76	194	88	145	66	233	106	39-1/2	1003	45	1143	20-1/2	521	20	508
060	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508
072	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508
074	130	59	162	74	147	67	167	76	198	90	226	103	175	79	257	117	40	1016	44	1118	20	508	20	508
090	168	76	195	88	183	83	212	96	227	103	263	119	203	95	241	109	47	1194	47	1194	21	533	21	533

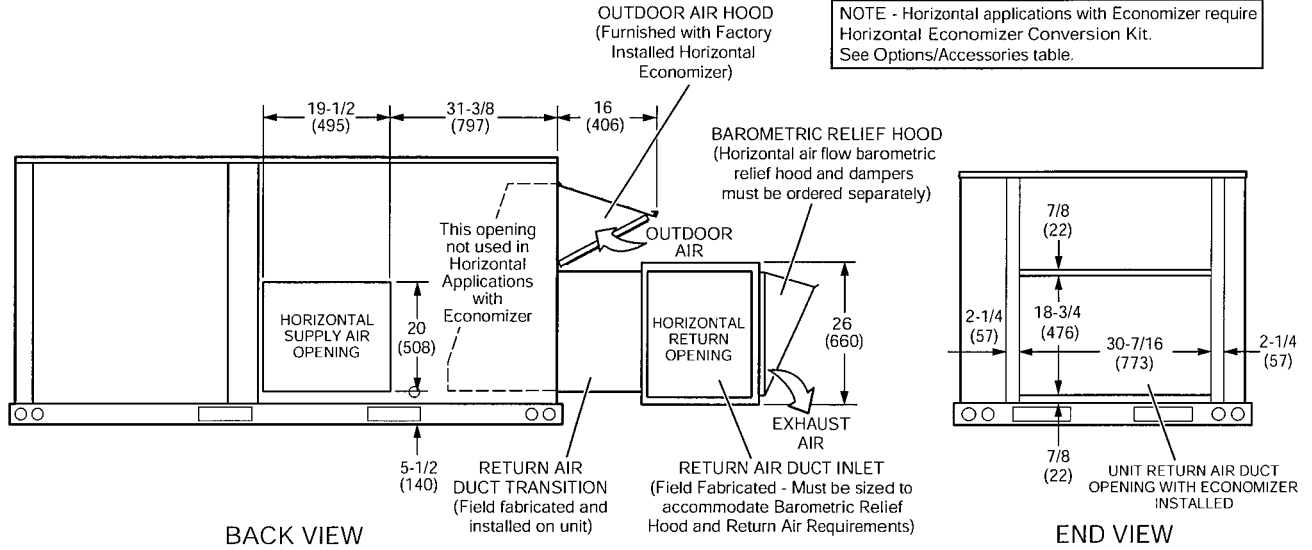
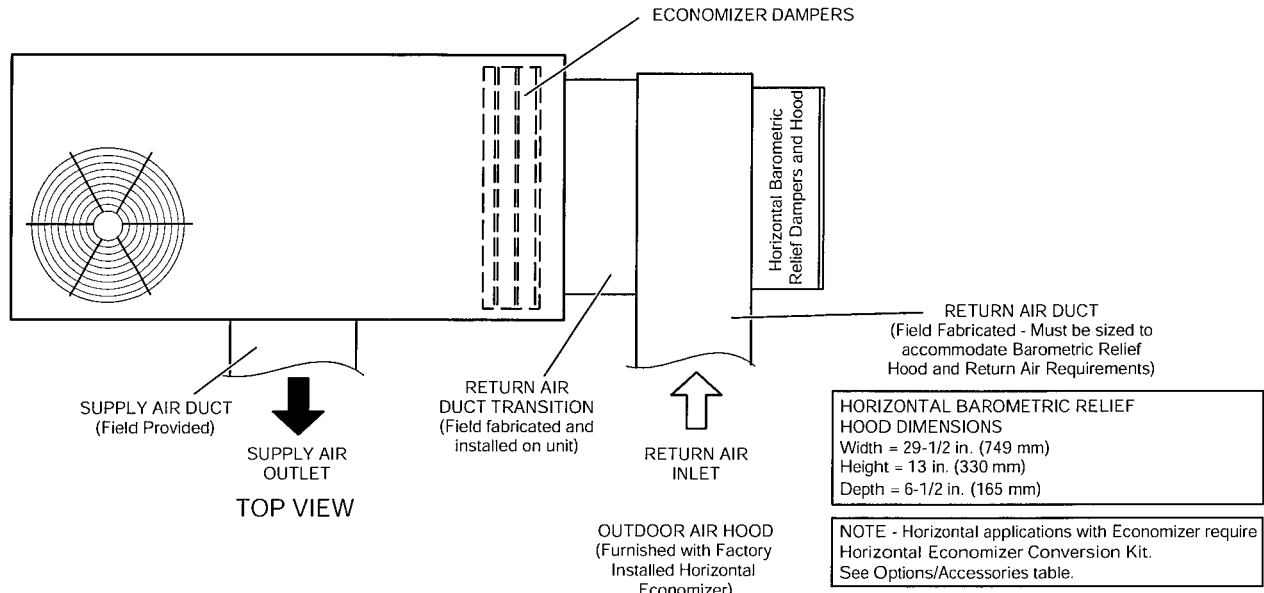
Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



DIMENSIONS - ACCESSORIES

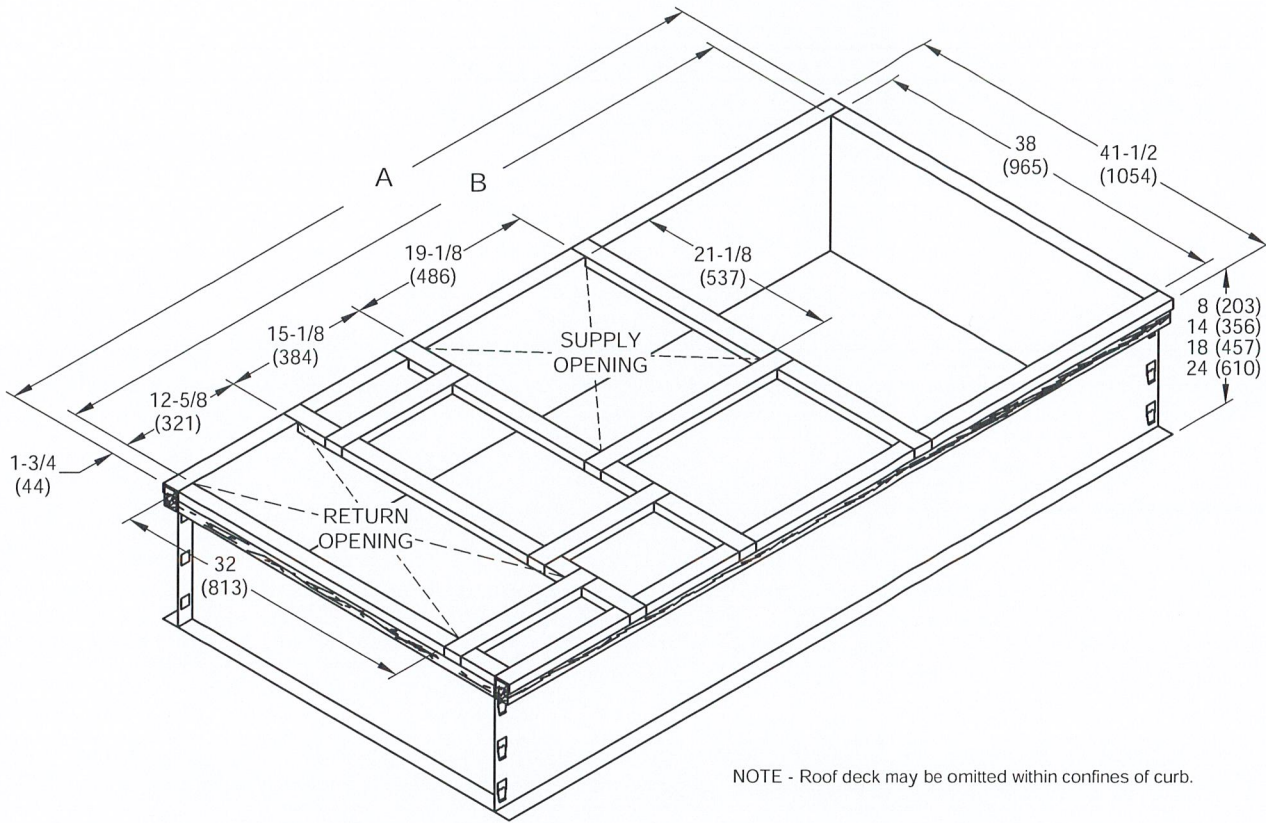
OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER AND
 OPTIONAL BAROMETRIC RELIEF DAMPERS WITH HOOD
 (Horizontal Application)



NOTE - Return Air Duct and Transition must be supported

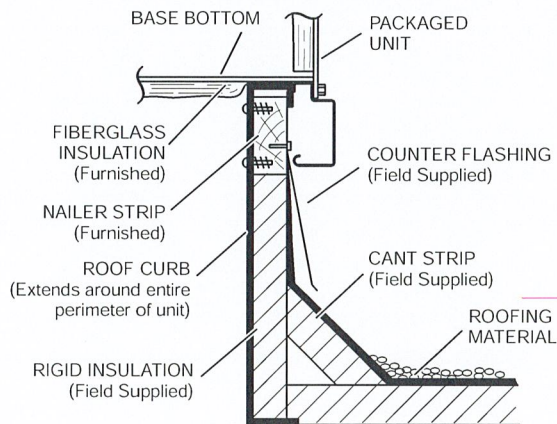
DIMENSIONS - ACCESSORIES

HYBRID ROOF CURBS - DOUBLE DUCT OPENING - STANDARD AND FULL PERIMETER

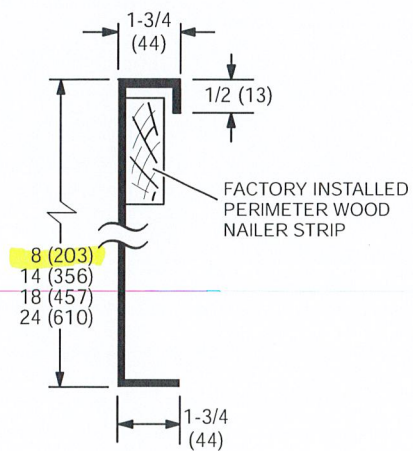


NOTE - Roof deck may be omitted within confines of curb.

TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB



Model No.	A		B	
	in.	mm	in.	mm
Standard - 036, 048, 060, 072, 074 1 090	79-3/4	2026	76-1/4	1937
Full Perimeter - 090	92-3/4	2356	89-1/4	2267

1 090 models can be used on smaller 79-3/4 in. (2026 mm) roof curbs (not full perimeter) with 15-3/4 in. (400 mm) overhang at condenser end of unit. See dimension drawing on page 53

THIS IS A 3-PAGE FORM - ALL INFORMATION IS REQUIRED FOR PROJECT REVIEW

HISTORIC DISTRICT COMMISSION PROJECT REVIEW REQUEST

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

Date: March 11, 2021

PROPERTY INFORMATION

ADDRESS: 1403 Bagley, Detroit, MI 48216 AKA: _____

HISTORIC DISTRICT: Corktown

SCOPE OF WORK: (Check ALL that apply)

<input type="checkbox"/> Windows/ Doors	<input type="checkbox"/> Roof/Gutters/ Chimney	<input type="checkbox"/> Porch/ Deck	<input type="checkbox"/> Landscape/Fence/ Tree/Park	<input type="checkbox"/> General Rehab
<input type="checkbox"/> New Construction	<input type="checkbox"/> Demolition	<input type="checkbox"/> Addition	<input checked="" type="checkbox"/> Other: <u>HVAC Rooftop Install</u>	

APPLICANT IDENTIFICATION

Property Owner/
Homeowner Contractor Tenant or
Business Occupant Architect/Engineer/
Consultant

NAME: Brian Hurttienne COMPANY NAME: _____

ADDRESS: 1401 Bagley CITY: Detroit STATE: MI ZIP: 48216

PHONE: 313-825-2005 MOBILE: 313-850-6689 EMAIL: brian@cha-c.com

PROJECT REVIEW REQUEST CHECKLIST

Please attach the following documentation to your request:

PLEASE KEEP FILE SIZE OF ENTIRE SUBMISSION UNDER 30MB

- Completed Building Permit Application (highlighted portions only)
- ePLANS Permit Number (only applicable if you've already applied for permits through ePLANS)
- Photographs of ALL sides of existing building or site
- Detailed photographs of location of proposed work (photographs to show existing condition(s), design, color, & material)
- Description of existing conditions (including materials and design)
- Description of project (if replacing any existing material(s), include an explanation as to why replacement--rather than repair--of existing and/or construction of new is required)
- Detailed scope of work (formatted as bulleted list)
- Brochure/cut sheets for proposed replacement material(s) and/or product(s), as applicable

NOTE:

Based on the scope of work, additional documentation may be required.

See www.detroitmi.gov/hdc for scope-specific requirements.

Upon receipt of this documentation, staff will review and inform you of the next steps toward obtaining your building permit from the Buildings, Safety Engineering and Environmental Department (BSEED) to perform the work.

SUBMIT COMPLETED REQUESTS TO HDC@DETROITMI.GOV