Rectangle

**CITY OF PORTLAND, OREGON – BUREAU OF DEVELOPMENT SERVICES**

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| **MECHANICAL CHECKSHEET**  |  | Application # : | **17-281471-000-00-MT** |
| **Mechanical Permit** |  | Review Date : | **June 17, 2018** |
| **To:** | APPLICANT | KEITH WHITINGMERRYMAN BARNES ARCHITECTS. INC1231 NW HOYT #403PORTLAND, OR 97209 | Work: | 503 222-3753 |
| Fax: | 503 295-6718 |
| e-Mail: | kwhiting@merrymanbarnesarchitects.com |
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| **From:** | BDS Mechanical Engineer | Ali Soheili | Phone:Fax: | 503-823-7027503-823-7692 |
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| **cc:** | OWNER | PORTLAND CITY OF(PORTLAND & HOUSING BUREAU421 SW 6TH AVE #500PORTLAND, OR 97204-1620 |  |  |
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| **PROJECT INFORMATION** |
| Street Address: | 6465 NE MARTIN LUTHER KING JR BLVD |
| Description of Work: | Mechanical for new 70 - unit, affordable housing project |

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| Based on the plans and specifications submitted, the following items appear to be missing or not in conformance with the Oregon Mechanical Specialty Code and / or other city, state, or federal requirements. |
| **Item #** | **Location on plans** | **Code Section** | **Clarification / Correction Required** |
| **1.** | General  | OMSC 2014 106.3.1 | Exhaust fans as specified, have long run of 4” round duct. For the static pressure, the CFM may not be delivered as specified, revise duct size. |
| **2.** | M 2.0A | OMSC 2014 106.3.1 | Water heater room 135, Indicate on plans all water heaters are concentric. |
| **3.** | M 2.0B | OMSC 2014 106.3.1 | Drawing scale for this sheet only is incorrect. It is printed small and hard to read. this one sheet will be reviewed at the time of re-check. |
| **4.** | General | OMSC 2014 106.3.1 | Balance the return air for indoor units. For example, sheet M2.1A between grids H/J3 and 1.5 for HP 1B showing 300 CFM supply, and only 100 CFM return. |
| **5.** | M 2.1B M 2.2B | OMSC 2014 607 | Grids M0.9 and 3.5 provide fire damper at penetration of electric room 214. |
| **6.** | General | OMSC 2014 607 | Duct work for the exhaust fans shall be in a non-rated soffit, if not provide radiation dampers. Show soffits on mechanical plans. |
| **7.** | General | OMSC 2014 607 | Duct work for the hood exhaust and dryer vent shall be in a non-rated soffit. Show soffits on mechanical plans. |
| **8.** | General | OMSC 2014 106.3.1 | Provide a gas diagram om mechanical plans. |
| **9.** | General | OMSC 2014 Appendix C | Show equivalent length of gas piping on gas diagram. Equivalent length shall include the elevations, bends, and frictions. |
| **10.** | General | OMSC 2014 Appendix C | Show BTU/HR for all gas fixtures in each gas diagram. |
| **11.** | General | OMSC 2014 106.3.1 | Show location and discharge of condensate piping. |
| **12.** |  |  |  |

**INSTRUCTIONS**

To respond to this checksheet, come to the Bureau of Development Services located at 1900 SW Fourth Ave. The Development Service Center (1st floor) and Permitting Services (2nd floor) are open Monday through Friday from 8:00 a.m. to 3:00 p.m. (close at noon on Thursday). Please update all sets of submitted drawings by either replacing the original sheets with new sheets, or editing the originally submitted sheets. You can review ''How to Update Your Plans in Response to a Checksheet'' at http://www.portlandoregon.gov/bds/article/93028 Visit the BDS website for more helpful information and a current listing of services available in the Development Services Center.

Please complete the attached Checksheet Response Form and include it with your re-submittal.

If you have specific questions concerning this Checksheet, please call me at the phone number listed above. To check the status of your project, go to <http://www.portlandonline.com/bds/index.cfm?c=34194>. Or, you may request the status to be faxed to you by calling 503-823-7000 and selecting option 4.

You may receive separate Checksheets from other City agencies that will require separate responses.

**NEW RECHECK FEE**: Please note that for plans submitted on or after July 1, 2010 plan review fees for Life Safety, Structural, Site Development and Planning and Zoning will cover the initial review and up to two checksheets and the reviews of the applicant's responses to those checksheets. All additional checksheets and reviews of applicant responses will be charged $155 per checksheet.

Appeals: Pursuant to City Code Chapters 24.10, 25.07, 26.03, 27.02, and 28.03, you may appeal any code provision cited in this Checksheet to the BDS Administrative Board of Appeal within 180 calendar days of the review date. For information on the appeals process and costs, including forms, appeal fee, payment methods and fee waivers, go to www.portlandoregon.gov/bds/appeals, call (503) 823-7300 or come in to the Development Services Center. Permit application expiration will not be extended pending resolution of any administrative appeal.

# Mechanical Checksheet Response

**Permit #: 17-281471-000-00-MT Date: 7-18-18**

**Customer name and phone number: \_\_\_Takako Baker, MFIA, 50-234-0548**

*Note: Please number each change in the ‘#’ column. Use as many lines as necessary to describe your changes. Indicate which reviewer’s checksheet you are responding to and the item your change addresses. If the item is not in response to a checksheet, write* **customer** *in the last column.*

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| **#** | **Description of changes, revisions, additions, etc.** | Checksheet and item # |
| 1 | For EF-1(Town house RR’s), the desigin CFM is 60 CFM @ 0.25” w.g. The specified Fan is capable of delivering 60 CFM @ up to 0.30”w.g.For EF- 2 and 3, I have corrected the airflow to 80 CFM max, as this is the minimum CFM requirement per Code. The static pressure has been increased to 0.30”w.g. to reflect worst case (first floor EF-3). The specified fan is capable of delivering 80 CFM up to 0.40”w.g.  | #1 |
| 2. | Water Heater vents are specified as Concentric Fittings, typical of 5 on the plan. I’ve added “Typical of 5, one for each water heater.” | #2 |
| 3. | The drawing scale is corrected. See revised M2.0B. | #3 |
| 4. | RA grilles have been corrected to 300 CFMs. See revised M2.1A and M2.1B. | #4 |
| 5. | Fire dampers are provided at Elect Room penetration. See revised M2.1B and M2.2B. | #5 |
| 6. | The bathroom exhaust fan and ductwork are in a dropped ceiling. A note has been added on all mechanical sheets to reflect this information.  | #6 |
| 7. | Ductwork for hood exhaust is not in a rated soffit. The duct runs between the joists , but the rated assemblies wraps around the joists and the exhaust ductwork. A sheet note has been added to reflect this information, and references a detail on architectural sheet. | #7 |
| 8. | Gas piping diagrams have been added on M6.8. See Revised M6.8 | #8 |
| 9. | See detail on M6.8. | #9 |
| 10. | See Detail on M6.8. | #10 |
| 11. | Shown on plumbing plan. Added a note on each Mechanical sheet to refer to plumbing plan for condensate drain lines. | #11 |
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(*for office use only)*