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TO: Haysville Board of Education

FR: Dr. Clint Schutte, Assistant Superintendent of Business & Finance

DA: September 17, 2018

RE: Authorization to Seek Bids – HWMS Greenhouse

History / Relevance: As part of the Innovation grant application process science teachers from Haysville West Middle School put in an application to have a greenhouse built on school grounds to be used as part of the curriculum. As the cost exceeds the innovation grant authority this application was referred to facilities for consideration.

What: We are asking for a resolution authorizing Haysville USD 261 to seek bids for purchase and erection of a 30' by 40' greenhouse.

Why: To enhance the learning environment and to provide project based learning opportunities for middle school students. Please see the attached Innovation Grant Application.

Where: This request pertains to the HWMS greenhouse project only.

When: We will bring the bids back to the December board of education meeting for approval.

How: The Executive Director for Operations will develop an RFP and seek competitive bids prior to the December BOE Meeting.

Who: Executive Director for Operations, Director of Facilities, Assistant Superintended for Business & Finance, HWMS Principal and HWMS Science teachers will collaborate on the location and development of the RFP.

How Much: The cost of this project is projected to exceed \$20,000. The cost to seek bids is \$0.

If you have any questions, please contact me.

Thank you for your consideration.

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Responder

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Time to complete

1. Name *

2. School/Department *

3. Job Title *

4. What problem do you want to solve? *

5. How do you want to solve it? *

We want to build a greenhouse classroom on the grounds at Haysville West Middle School. Students can then grow plants that can be used in several classes to show diversity of species, types of plants, and life cycle of plants. Students will also plan flower beds and gardens with different "themes" that can be built/planted on school grounds. They can use the greenhouse to start the seeds for these plants. By planting diverse species on school grounds, we will give habitat to a larger variety of insect and bird species. Our students can then observe and identify these during their science classes.

6. How will you know it worked? *

Our first year goal is to be able to give each student who works during Guided Study and/or after school in the greenhouse and each teacher at Haysville West Middle School a potted plant during Teacher Appreciation Week. Our second year goal is to have "club" members begin planning and building gardens for the front of the school and possible addition of a native flower/grass area near the retention pond. We also see the possibility of a fundraiser of selling annual plants and/or vegetable for the home garden. Along with the growing of plants, students will gain knowledge in greenhouse effect, "cutting" of plants, open vs closed systems, types of plants, food chains/webs, life cycle of organisms. The greenhouse can also be used by other subject areas. Art class could go to the greenhouse to draw/paint plants and flowers. Math class could use the greenhouse for real life applications of concepts like ratios and probability. Language Arts/Reading classes could use the greenhouse as inspiration for writing prompts.

7. How much will it cost? *

\$20,000 for construction costs, materials, and equipment for the classroom

8. How will you share your results? *

Student participants will be given plants to take home to share with their family. Staff will also receive plants that can be taken home or kept in the building. We will plant and maintain gardens on school grounds. This will enhance the aesthetic beauty of the grounds and increase the diversity of the fauna, animal/insects in our local ecosystem.

