

#Build25

Kindergarten Expansion Update



Topics



- Timeline
- Floor Plans
- Renderings
- Additional Considerations
 - Potential Patton Gym Expansion
 - Solar Study
 - Stormwater

VAH Meeting Schedule

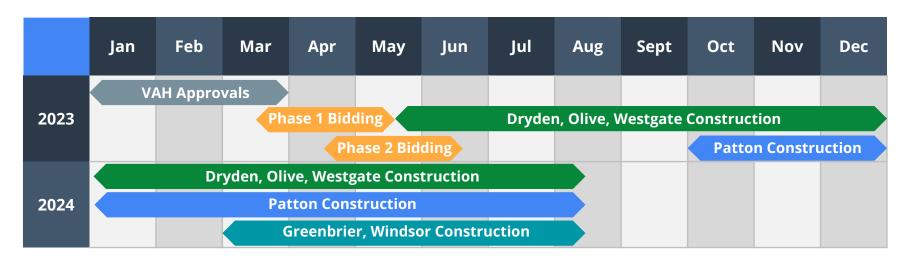


School		Neighborhood Meeting	Conceptual Design Review	Design Commission	Plan Commission	Village Board of Trustee Meeting #1	Village Board of Trustee Meeting #2
Dryden	-	COMPLETE	COMPLETE	1/10/23	1/25/23	TBD	TBD
Olive	hase	COMPLETE	COMPLETE	TBD	2/8/23	TBD	TBD
Westgate	ā	COMPLETE	COMPLETE	1/10/23	1/25/23	TBD	TBD
Patton	2	COMPLETE	12/14/22	TBD	TBD	TBD	TBD
Greenbrier	Phase	COMPLETE	12/14/22	TBD	TBD	TBD	TBD
Windsor	Ē	COMPLETE	12/14/22	TBD	TBD	TBD	TBD

• Phase 2 Design and Plan Commission Application submitted on 12/9/22

Preliminary Timeline





- VAH Approvals currently anticipated to be complete by April 2023. Schedule is fluid based on VAH
 review capacity.
- **Dryden**, **Olive**, and **Westgate** construction to commence late spring 2023
- Patton Potentially construction start fall of 2023. Possibility construction will not begin until spring of 2024.
- Greenbrier and Windsor commence construction spring of 2024.

Floor Plans





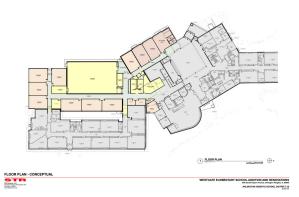


Dryden

Greenbrier

Olive







Renderings







Renderings









VIEW 1



Patton

Renderings









Westgate

Windsor



Additional Considerations



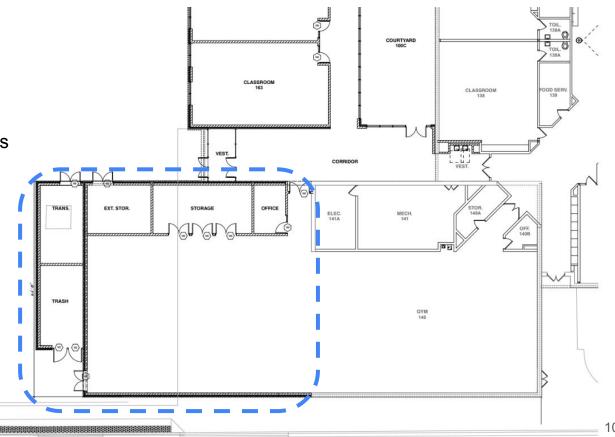
Patton Potential Gym Expansion



 A potential increase in PE hours will require additional gym space to support multiple PE sections at the same time.

 Potential to expand gym towards the southwest in order to provide additional gym space.

ROM Estimate \$2.5 - \$3.3M



Solar Study (i)

Analysis Results for the 50 kW PV System

- Initial System Cost \$ 120,000
- ComEd Incentive \$ 10,000
- Inflation Reduction Act (IRA) Payment \$ 36,000
- Cost after incentives: \$74,000
- Year-one generation 59,750 kWh
- Year-one CO2 Equivalent reduction 25 tons
- Simple payback period 7.6 Years
- Year 25 Cumulative Positive Cash Flow \$147,227

Month	Solar Generation (kWh)	School Use (kWh)	Use after Solar (kWh)	Share Solar
January	1,697	32,581	30,884	5%
February	2,099	30,645	28,545	7%
March	5,015	30,551	25,536	16%
April	6,493	29,048	22,554	22%
May	7,159	29,850	22,691	24%
June	7,778	27,719	19,941	28%
July	7,811	26,999	19,188	29%
August	7,117	36,132	29,015	20%
September	5,910	33,094	27,184	18%
October	4,035	29,463	25,428	14%
November	2,782	27,481	24,699	10%
December	1,832	28,831	26,999	6%
Total	59,730	362,394	302,665	16%



- 50kW system was selected as a baseline to offset the anticipated electricity needs from the new addition.
- PV system modeled life: 25 years
- PV system output degradation: 0.5%/year
- Panels have a 30 year production warranty that is pro rated
- System will offset between 5% 29% of School's total electricity needs

Solar Study (iii)

Pros:

- Solar panels can provide a clean, renewable source of energy for the school.
- Using solar panels can help the school reduce its carbon footprint.
- A solar panel system can provide a learning opportunity for students, who can learn about renewable energy and how it works.
- A solar panel system can save the school money on energy costs in the long run.
- Panel provide an added layer of protection to the roof membrane from UV.

Cons:

- The initial cost of installing a solar panel system can be significant.
- Solar panels may not be suitable for all schools, depending on the size and orientation of the school's roof.
- Solar panels require regular maintenance and cleaning to continue operating efficiently. If a roof leak occurs, panels may need to be disconnected, removed, and reinstalled
- Solar panels may not provide enough energy to meet the school's energy needs, particularly if the school is located in an area with limited sunlight.
- End of Life Replacement needs to be closely coordinated with roof replacement

Stormwater Update

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- Dryden Currently plan to install new underground detention structure south of existing building. A potential project with VAH detention does not appear to be feasible per Civil Engineer review.
- Greenbrier Current stormwater detention contains enough volume per Civil Engineer review. Pending VAH / MWRD approval.
- Olive-Mary Stitt Current onsite stormwater detention installed in 2016 contains enough volume per Civil Engineer review. Pending VAH / MWRD approval.
- Patton Currently intend to install new underground Stormtrap detention structure under existing parking lot to meet required stormwater detention volume.
- Westgate Currently intend to install new underground Stormtrap detention structure in field south of school.
 There remains a potential option to expand the detention facility on Park District property at Wilke / Kirchoff where Westgate has permitted detention from 1977.
- Windsor Current underground Stormtrap detention structure contains enough volume per Civil Engineer review. Pending VAH / MWRD approval.





Questions?

