

Pat Allen | Rachel Barrow | Alex Byard | Melanie Fonner | Brad Frederick | Brian LaChance | Mike Palmer

mission

nexus

function

experience

community

education

conclusion

appendix





Our mission is to develop a design that merges education with the community in a facility that is safe and cost effective while functioning as a learning tool.



goals



function

experience

community

education

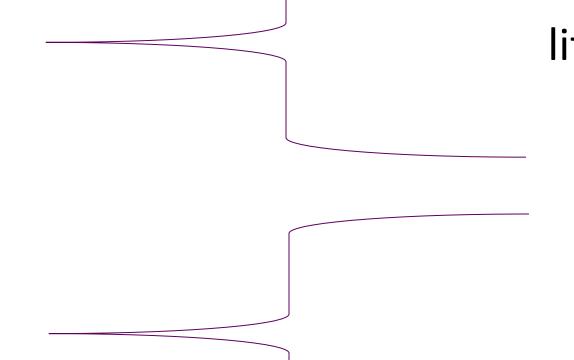
conclusion

appendix



owner

nexus



lifecycle & maintenance

safety & security

cost effective

integration

reduce, recover, reuse

learning tool

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reading elementary school

nexus

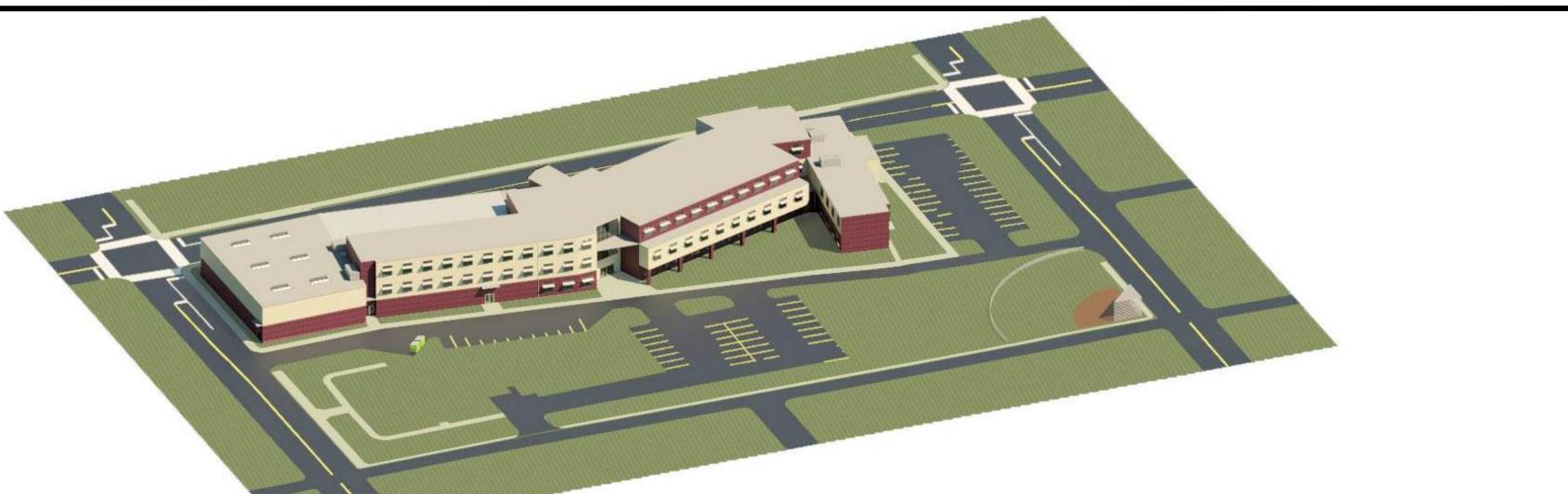
function

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reading

nexus

function

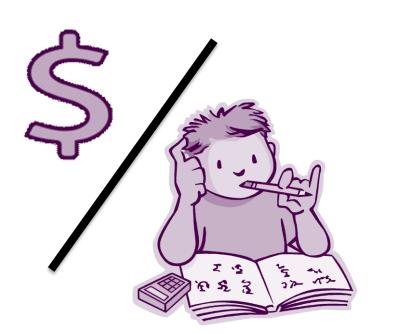
experience

community

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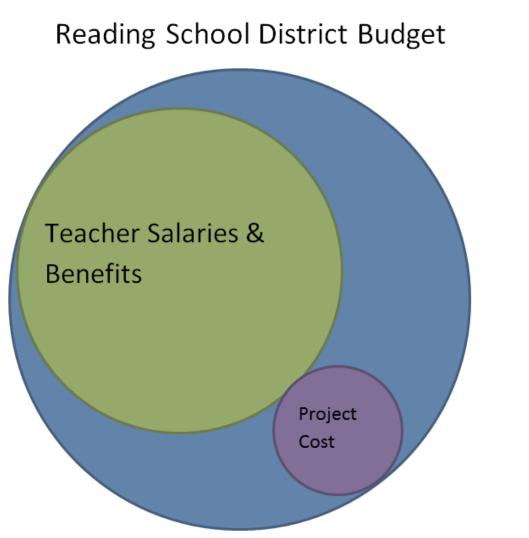
PA Average- \$14,535

Reading- \$12,989

 $$12,989 / student \times 1055 students = $13.7MM$

\$13.7MM / 89,500 SF = \$153 / SF

\$17.5MM / 89,500 SF = \$195 / SF

















site

nexus

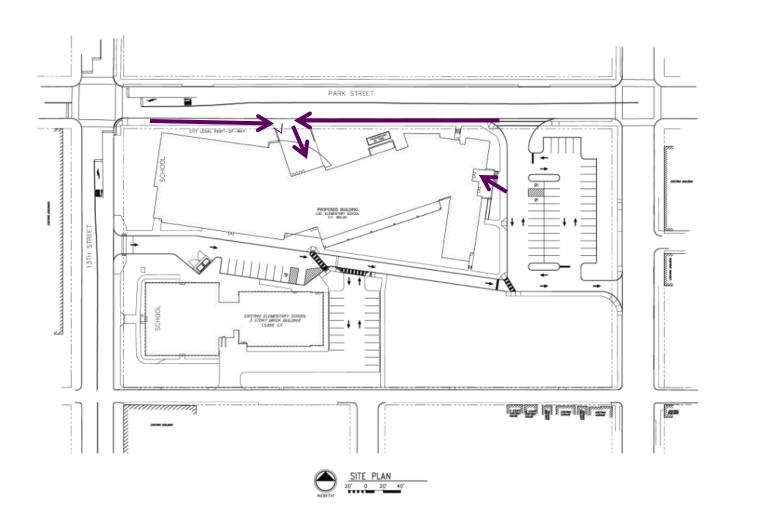
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function

nexus

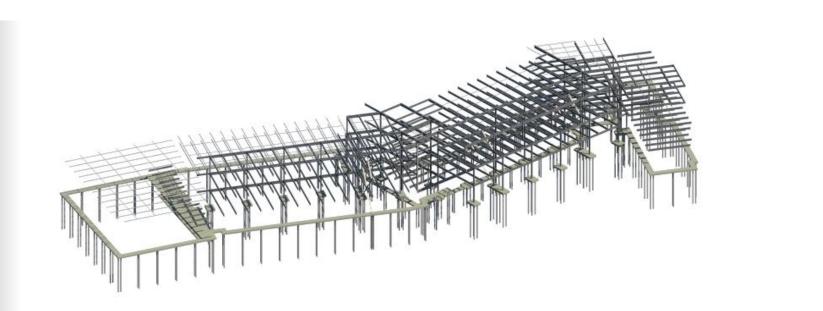
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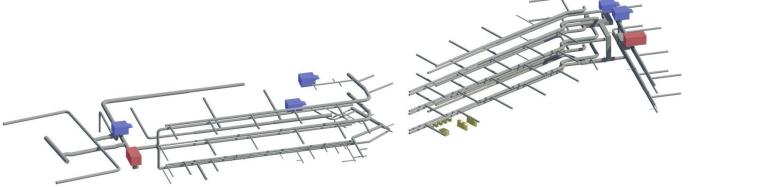
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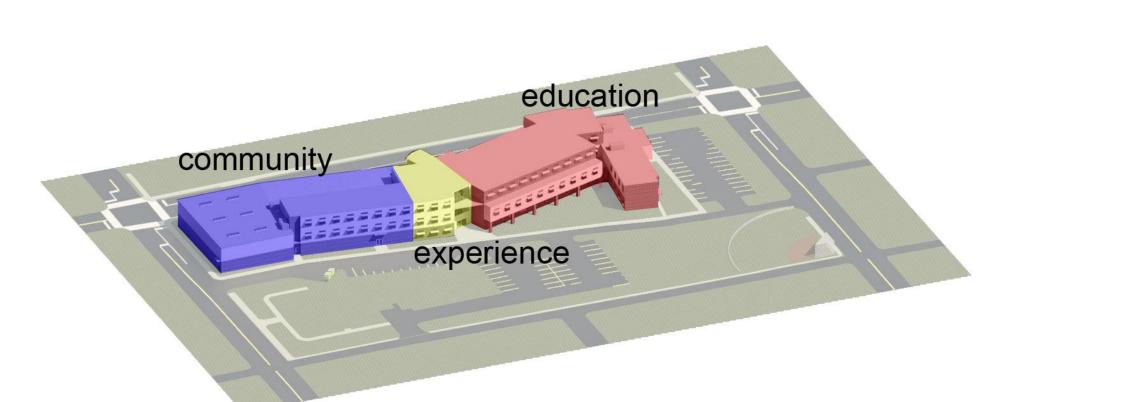
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experience - lobby



nexus

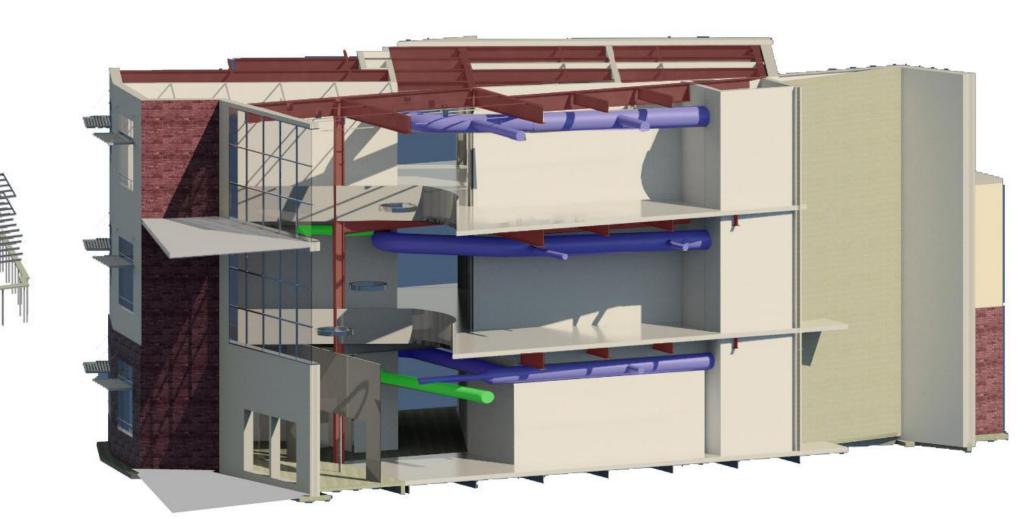
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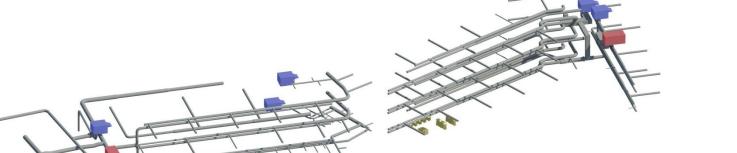
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experience - lobby



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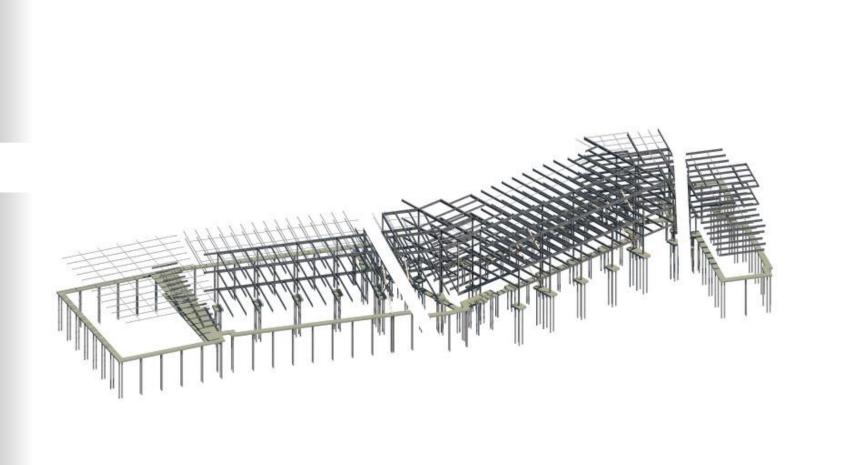
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experience - lobby



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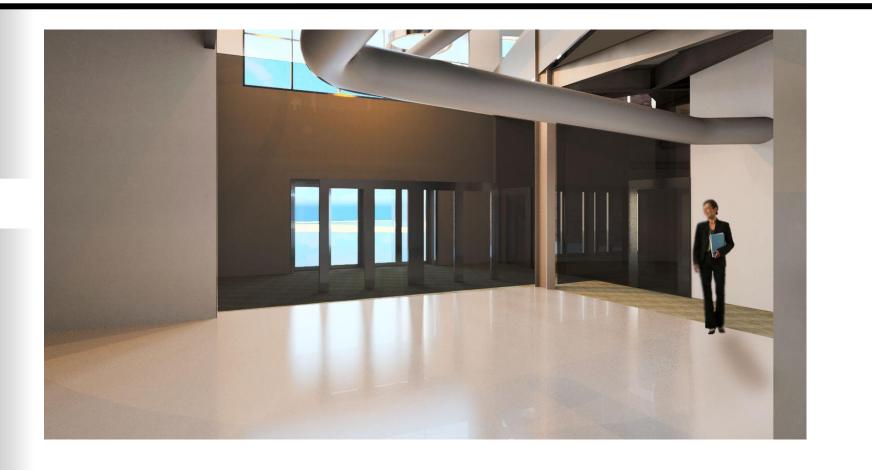
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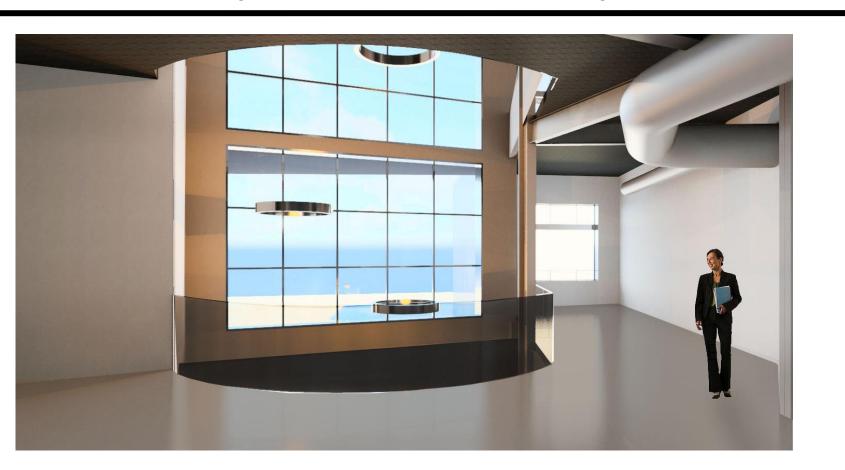
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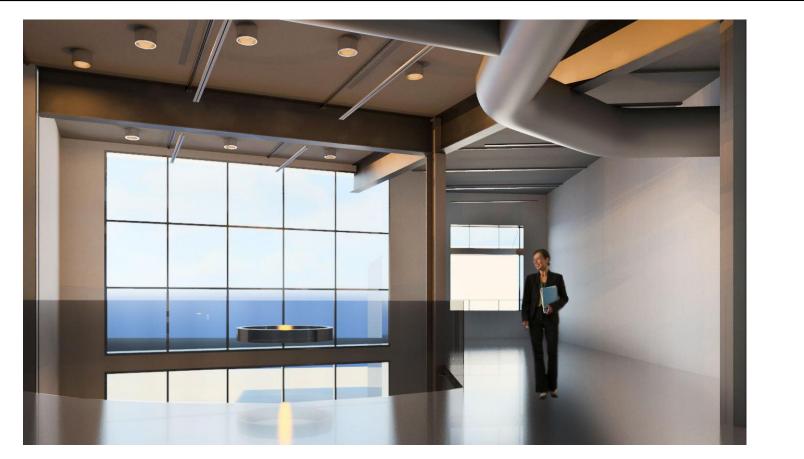
community

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function

nexus

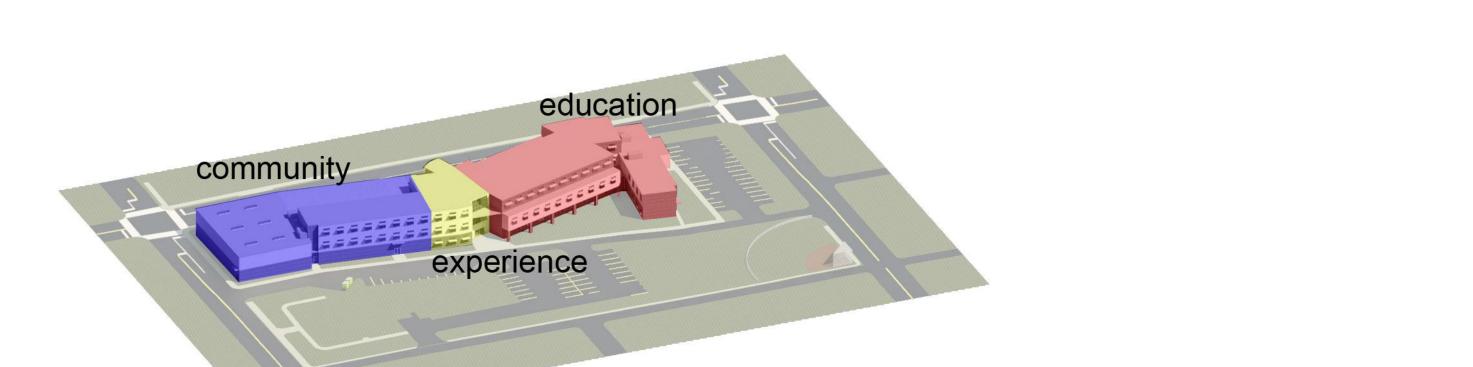
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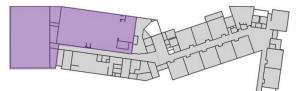








community - pool



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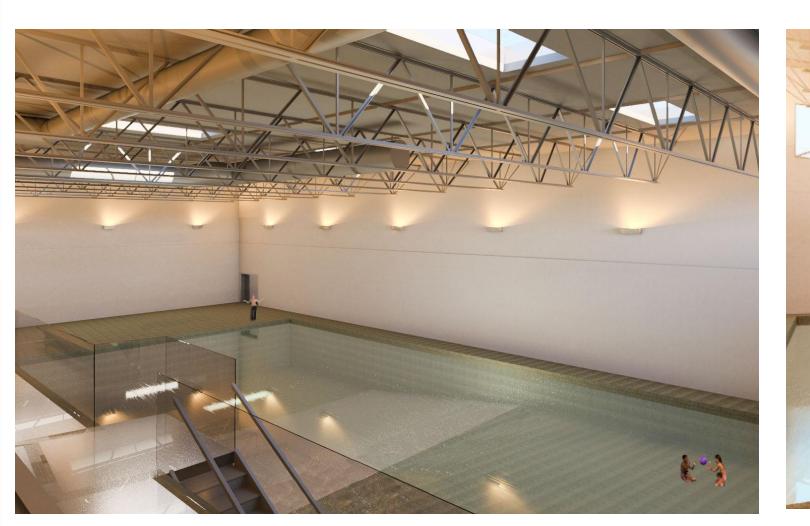
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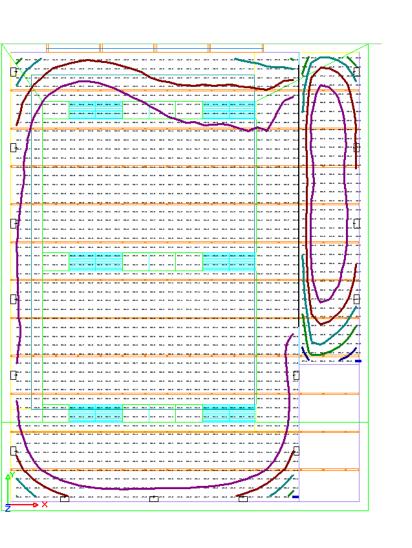
community

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community - gymnasium



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function

experience

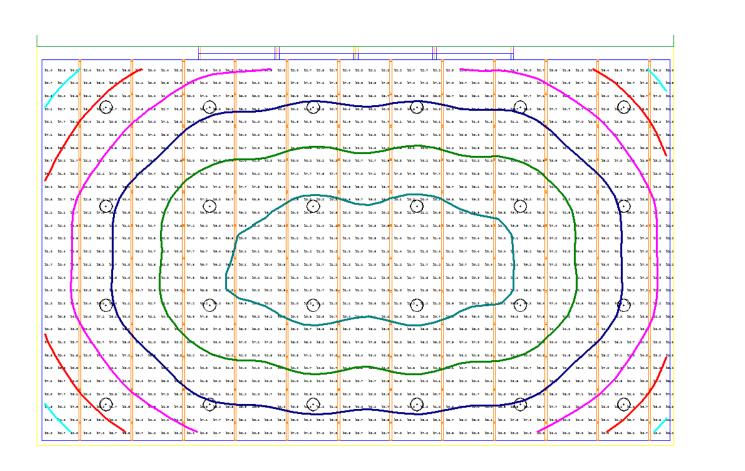
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function

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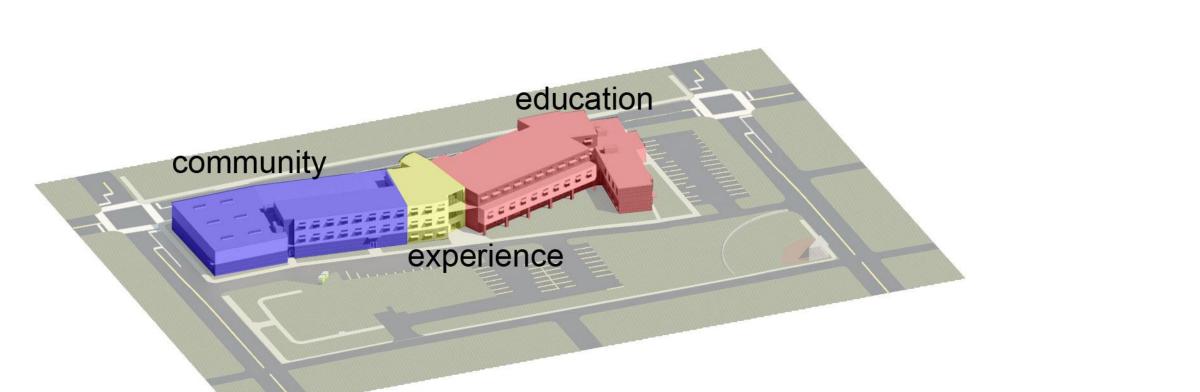
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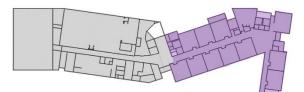








education - classroom



nexus

function

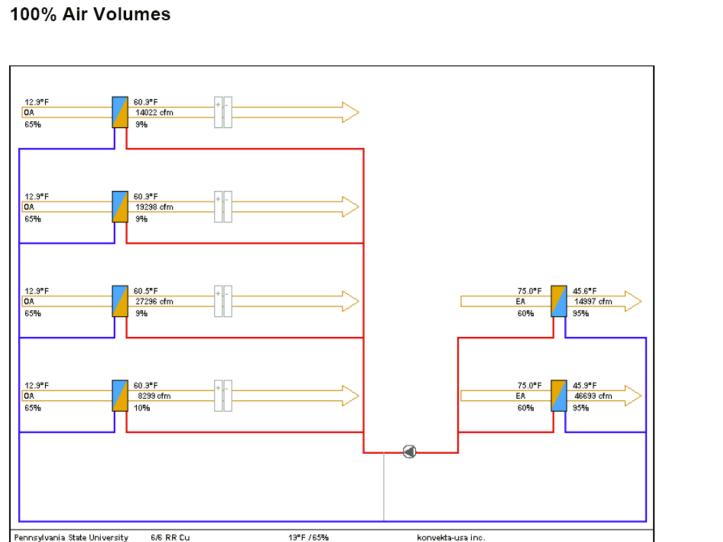
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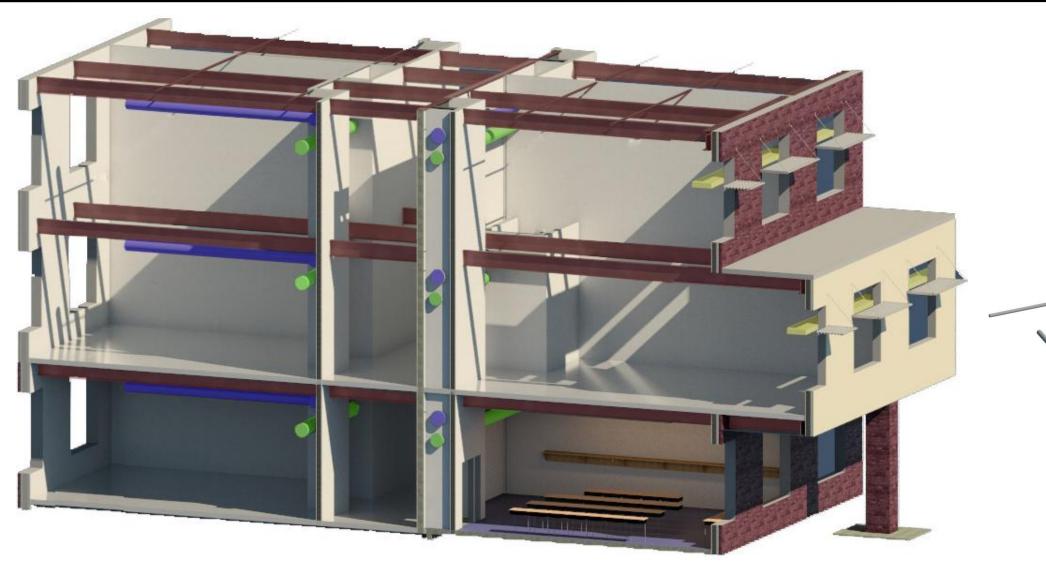
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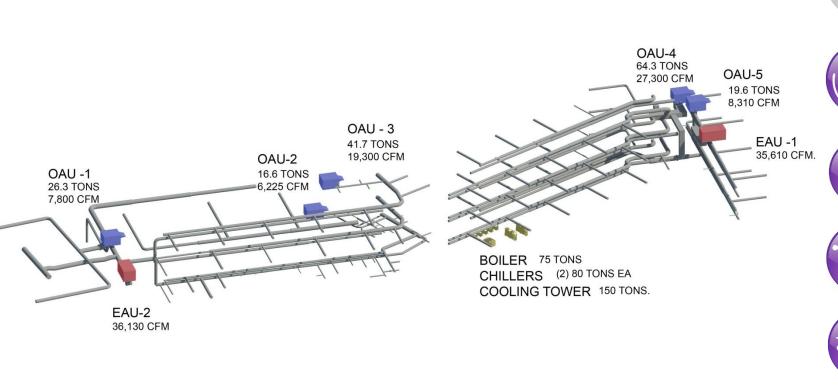
community

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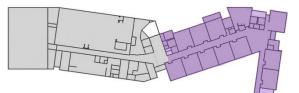








education - classroom



nexus

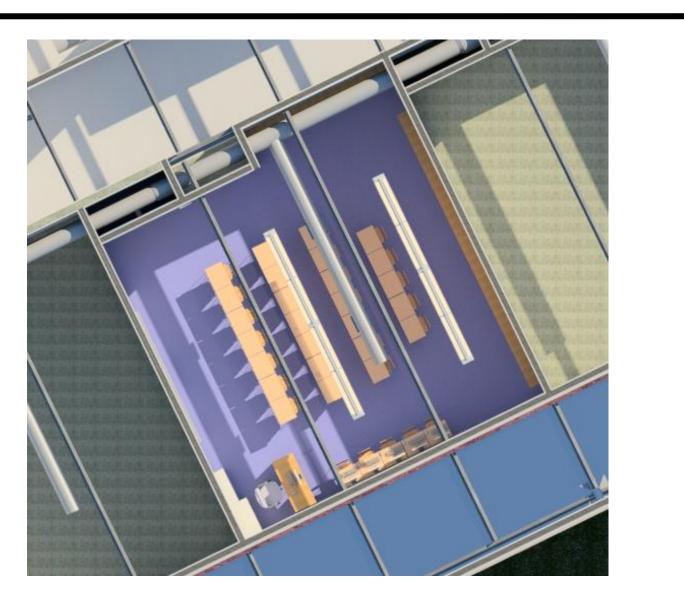
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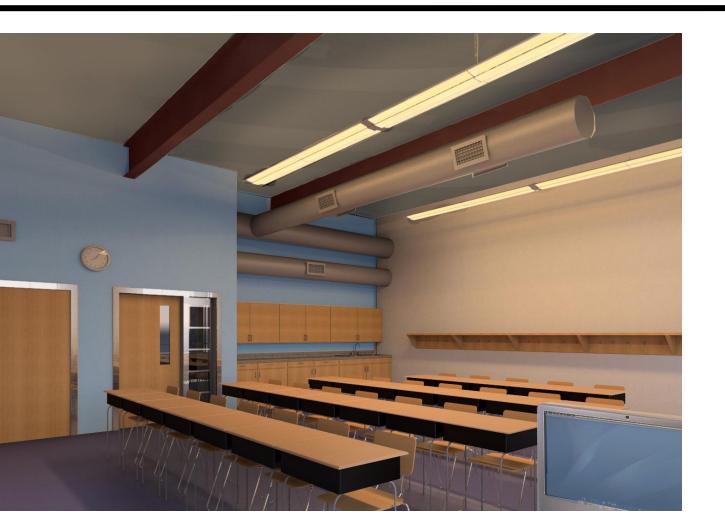
experience

community

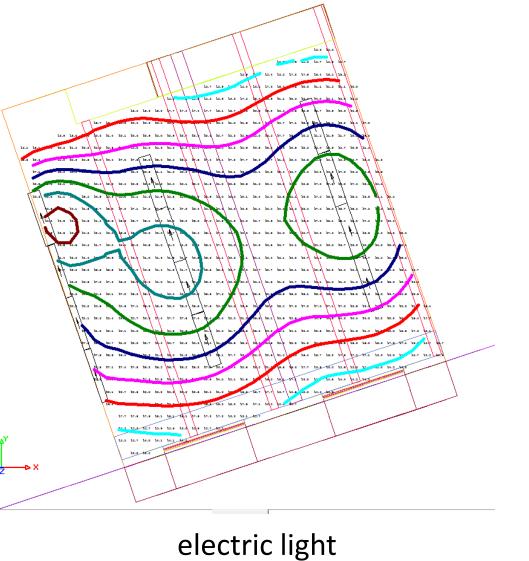
education

conclusion





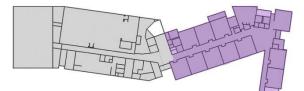
teacher perspective







education - classroom



nexus

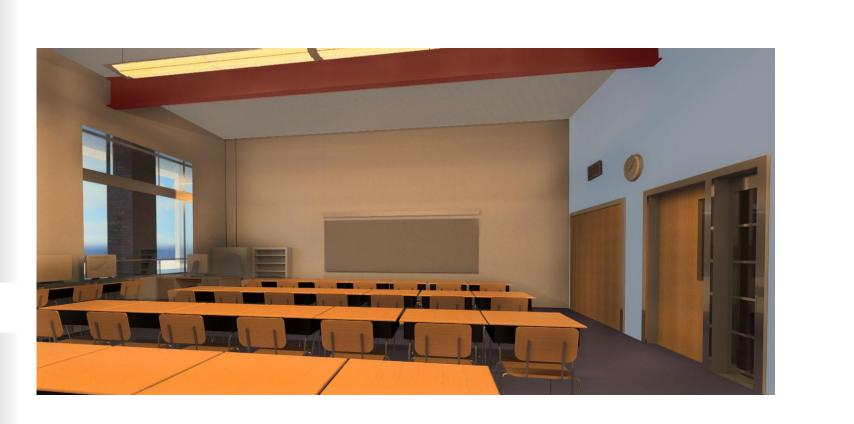
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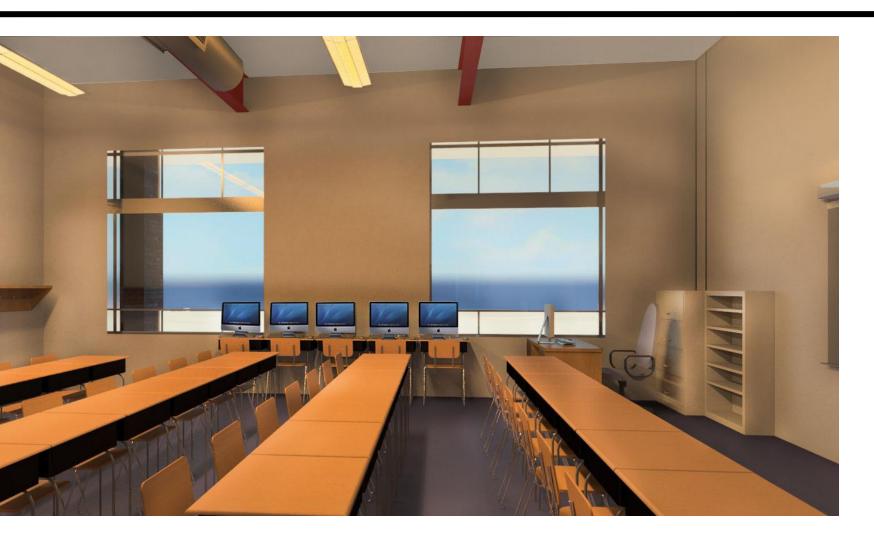
community

education

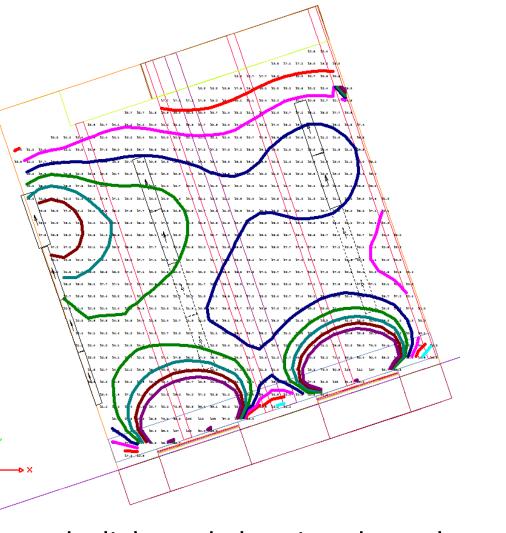
conclusion







entrance perspective



daylight and electric – december















function

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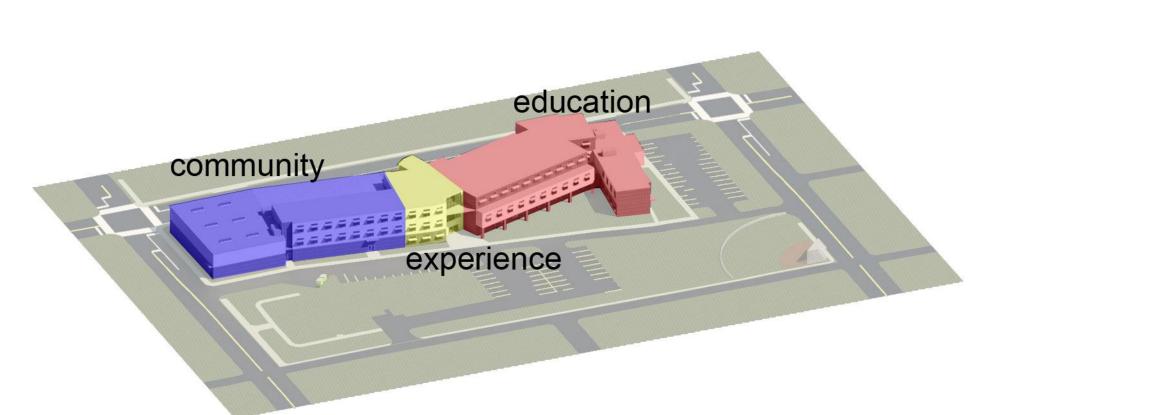
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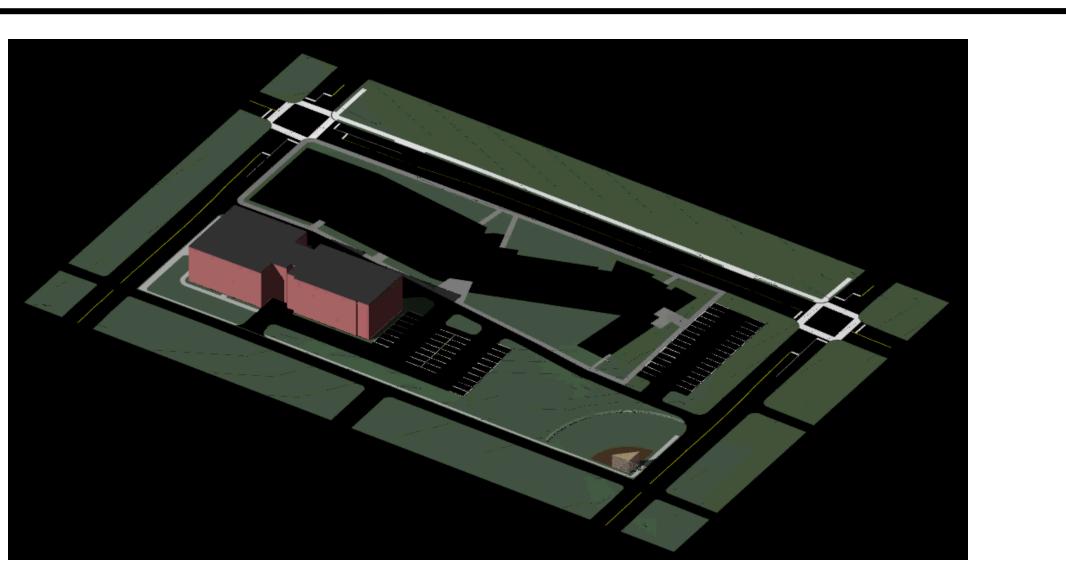
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reading elementary school

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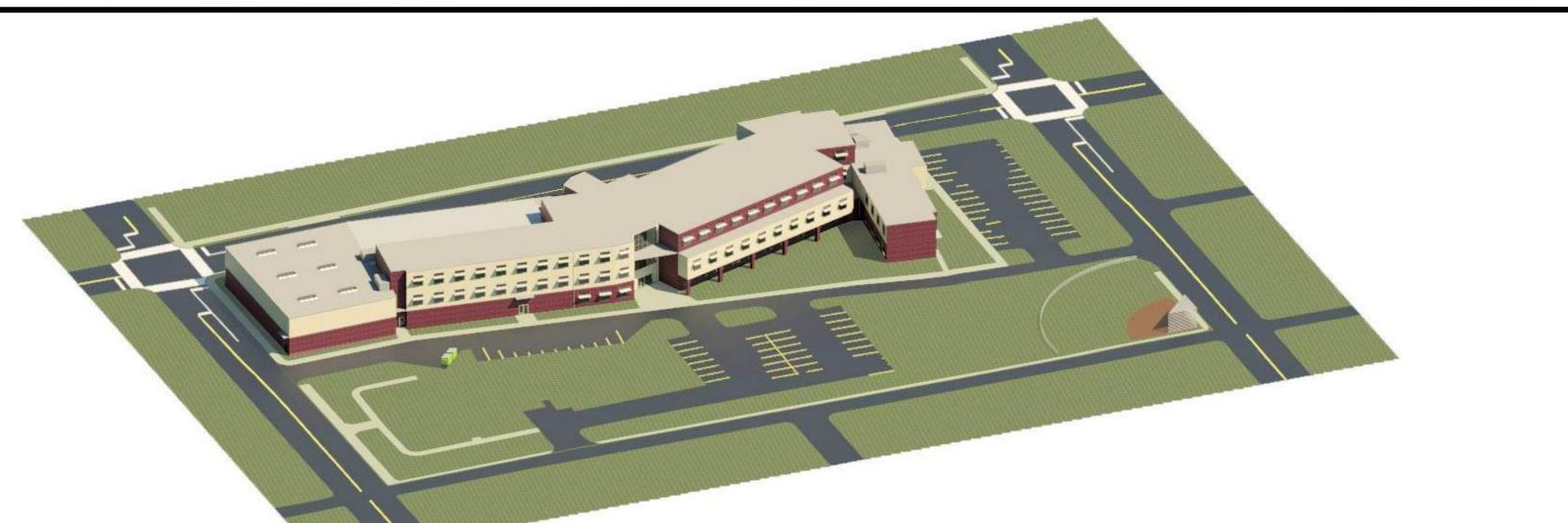
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recap of goals

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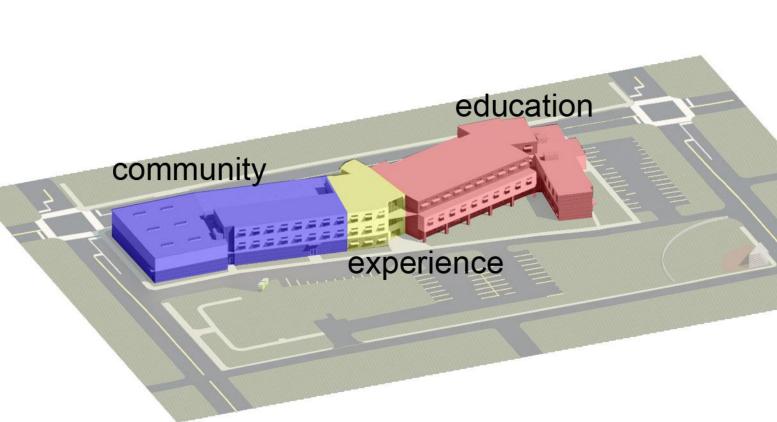
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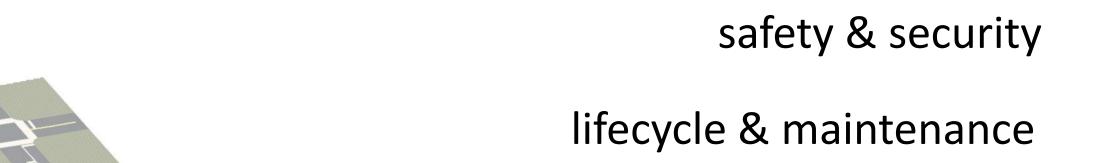
appendix



reduce, recover, reuse

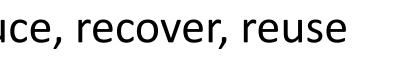














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look-ahead

nexus structure

- RAM model
- detailing structure

ETABS model

- detailing connections of the steel beams to the concrete bearing wall
- detailing the reinforcing in the concrete walls for compression and for lateral shear

mechanical

- working with HVAC manufacturers
- system investigations energy storage
- investigate ways of altering the configuration of the air handlers and exhaust components
- investigate opportunities for more advanced energy savings; update energy models

< 15 weeks until Friday, February 22, 2013



-modeling – building completeness, material selections, rendering capabilities
-supporting documentation and drawings – codes, zoning, and other legal
requirements; specification standards

Nov. 12 – week 1 (presentation 11/12)

Dec. 10 – week 5 (report draft 12/14)

Jan. 7 – week 9 (presentation 1/9)

Jan. 21 – week 11 (presentation 1/23)

Feb. 4 – week 13 (presentation 2/6)

Feb. 18 – week 15 (final submission 2/22)

lighting / electrical

- light the offices, hallways, clinic, and exterior
- investigate and determine the appropriate electrical system
- update energy models to determine energy savings

construction management

- detailed estimate structure, façade, MEP, finishes
- first cost versus life cycle analyses
- detailed schedule update structural components; more in-depth MEP and finishing sequences; risk analysis
- site logistics / 4D more detailed including equipment simulations; clash detection
- constructability systems integration; crane and concrete pump sizing;
 hoist functionality
- LEED analysis LEED checklist; sustainability challenges; cost benefit analysis

conclusion

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site logistics

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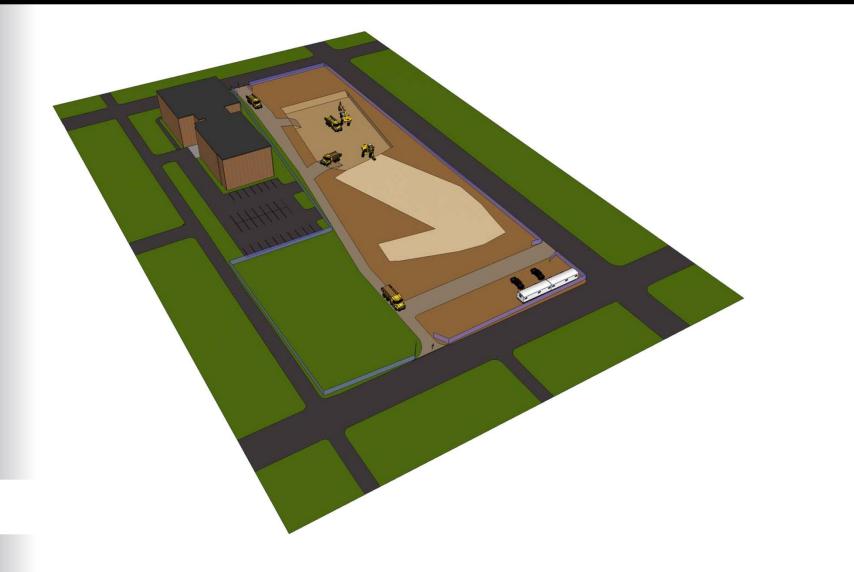
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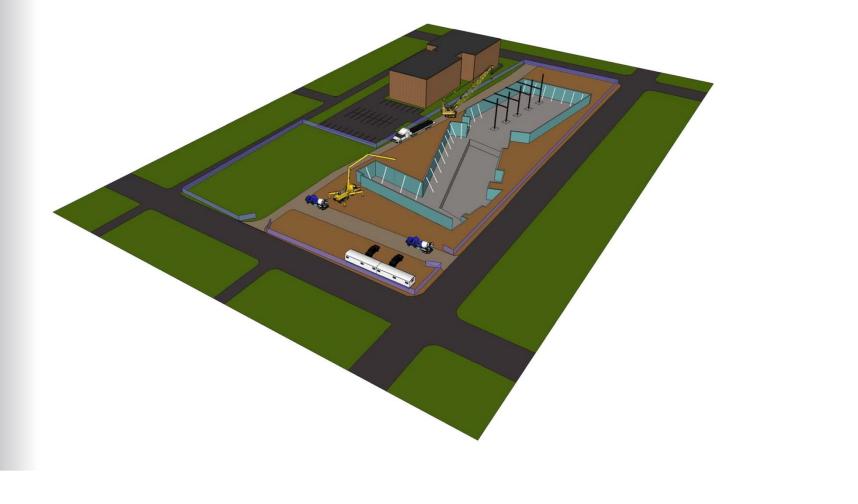
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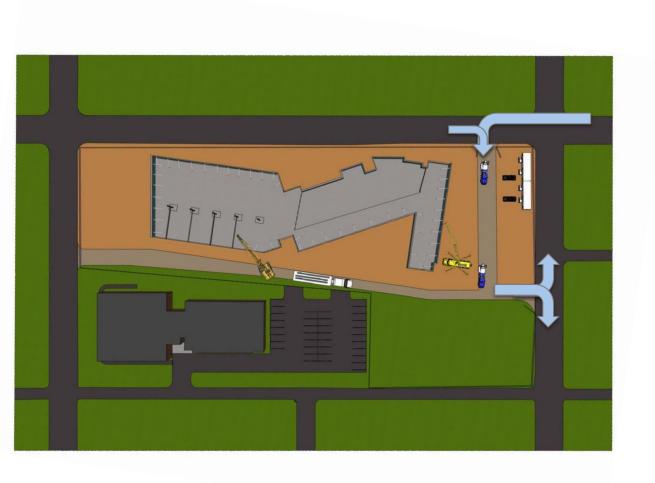
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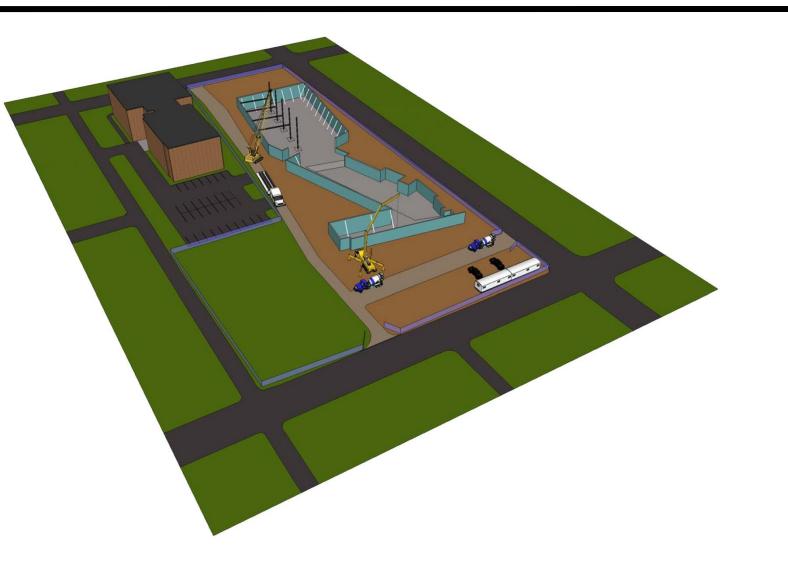
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schedule



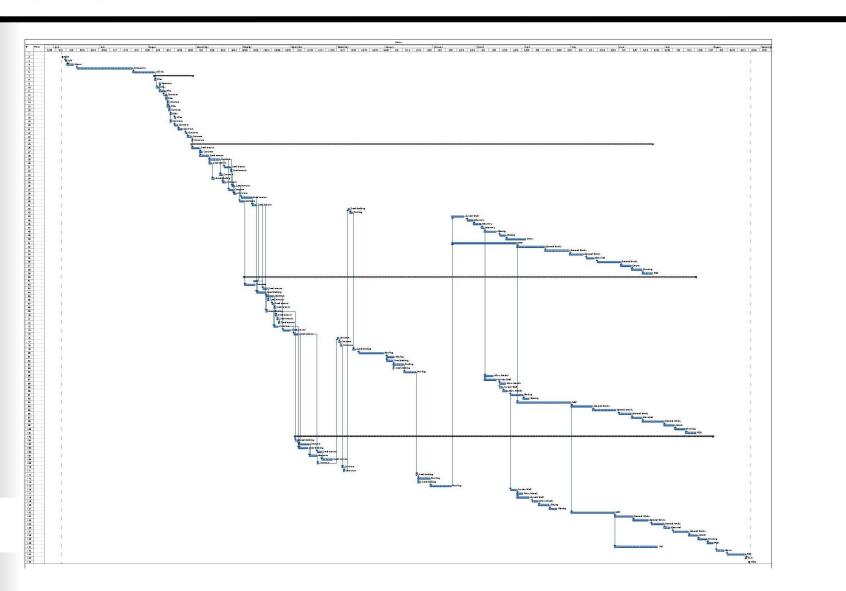
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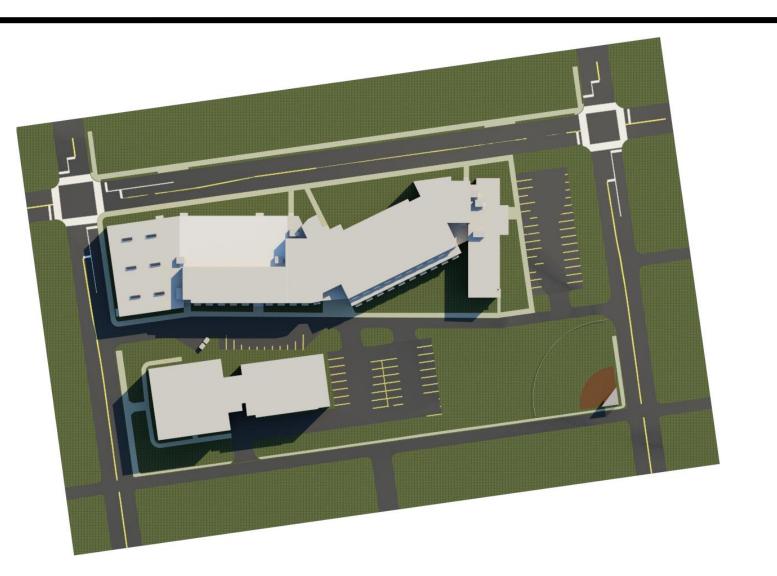
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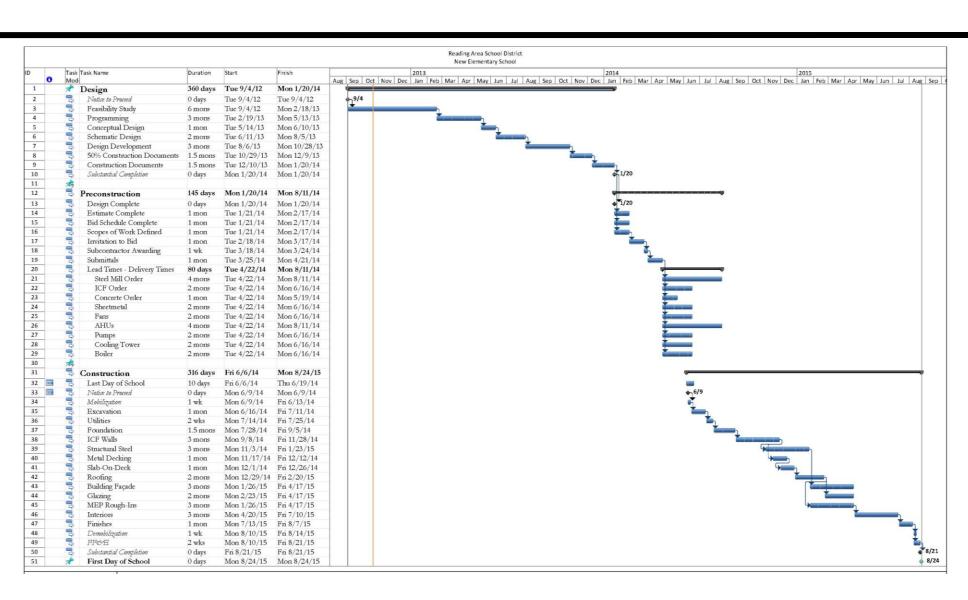
community

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schedule

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| | | | | | Nexus |
|--------------------------------|----------|-------------|--------------|----------------|--|
| Task Name | Duration | Start | Finish | Resource Names | 3rd Quarter 4th Quarter 1st Quarter 2nd Quarter 3rd Quarter Vlay Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun |
| 1 Construction | | | | | |
| 2 Last Day of School | 1 day | Fri 6/6/14 | Fri 6/6/14 | RSD | E RSD |
| 3 Notice to Proceed | 0 days | Mon 6/9/14 | Mon 6/9/14 | Nexus | ₹.6/9 |
| 4 Mobilization | 5 days | Mon 6/9/14 | Fri 6/13/14 | Nexus | Nexus |
| 5 Excavation | 25 days | Mon 6/16/14 | Mon 7/21/14 | Excavation | Excavation |
| 6 Utilities | 10 days | Tue 7/22/14 | Mon 8/4/14 | Utilities | Utilities |
| 7 Foundation | 19 days | Tue 8/5/14 | Fri 8/29/14 | Cimiles | |
| 8 piles - pool | 1 day | Tue 8/5/14 | Tue 8/5/14 | Piles | Piles |
| 9 footers - pool | 1 day | Fri 8/8/14 | Fri 8/8/14 | Concrete | Concrete |
| P.O. | 150 | | Thu 8/7/14 | Piles | Piles |
| 1 0, | 2 days | Wed 8/6/14 | | Piles | Piles |
| | 2 days | Fri 8/8/14 | Mon 8/11/14 | | Concrete |
| 2 footer - gym | 2 days | Mon 8/11/14 | Tue 8/12/14 | Concrete | Piles |
| piles - stair north | 1 day | Tue 8/12/14 | Tue 8/12/14 | Piles | Concrete |
| footers -stair | 1 day | | Wed 8/13/14 | Concrete | Concrete |
| piles - classroom | 2 days | Wed 8/13/14 | Thu 8/14/14 | Piles | Concrete |
| 6 footers -classroom | 1 day | Thu 8/14/14 | Thu 8/14/14 | Concrete | |
| 7 piles - NE corner | 1 day | Fri 8/15/14 | Fri 8/15/14 | Piles | Piles |
| 8 piles - east | 1 day | | Mon 8/18/14 | Piles | Piles |
| 9 footers - east | 1 day | Fri 8/15/14 | Fri 8/15/14 | Concrete | Concrete |
| 0 pool walls | 2 days | Mon 8/18/14 | Tue 8/19/14 | Concrete | Concrete |
| 1 pool slabs | 3 days | Wed 8/20/14 | Fri 8/22/14 | Concrete | Concrete |
| 2 pool deck slab | 1 day | Mon 8/25/14 | Mon 8/25/14 | Concrete | Concrete |
| 3 basement walls | 3 days | Tue 8/26/14 | Thu 8/28/14 | Concrete | ₹ Concrete |
| 4 basement slab | 1 day | Fri 8/29/14 | Fri 8/29/14 | Concrete | Concrete |
| 25 First Floor | 205 days | Fri 8/29/14 | Mon 6/22/15 | | |
| 6 pool and gym columns | 2 days | Fri 8/29/14 | Tue 9/2/14 | Steel erector | ₹ Steel erector |
| gym slab on grade 1st | 2 days | Wed 9/3/14 | Thu 9/4/14 | Concrete | *Concrete |
| 8 classroom columns | 4 days | Wed 9/3/14 | Mon 9/8/14 | Steel erector | |
| 29 pool and gym walls 1st lift | 5 days | Tue 9/9/14 | Mon 9/15/14 | Concrete | ≛ ₁Çoncrete |
| basement beams | 2 days | Tue 9/9/14 | Wed 9/10/14 | Steel erector | 了Steel erector |
| pool beams | 2 days | Fri 9/19/14 | Mon 9/22/14 | Steel erector | Steel erector |
| 2 pool and gym girders | 1 day | Tue 9/23/14 | Tue 9/23/14 | Steel erector | Steel erector |
| 3 classroom slab on grade 1st | 2 days | Tue 9/16/14 | Wed 9/17/14 | Concrete | Concrete |
| 4 classroom metal decking | 2 days | Thu 9/11/14 | Fri 9/12/14 | Steel decking | Steel decking |
| 5 classroom slab on deck 1st | 2 days | Thu 9/18/14 | Fri 9/19/14 | Concrete | Concrete |
| 6 pool and gym beams 1st | 2 days | Wed 9/24/14 | Thu 9/25/14 | Steel erector | Steel erector |
| classroom walls 1st lift | 3 days | Mon 9/22/14 | Wed 9/24/14 | Concrete | Concrete |
| 8 east slab on grade 1st | 2 days | Thu 9/25/14 | Fri 9/26/14 | Concrete | Concrete |
| 9 classroom beams 1st | 5 days | Tue 9/30/14 | Mon 10/6/14 | Steel erector | Steel erector |
| 0 east walls 1st | 3 days | Mon 9/29/14 | Wed 10/1/14 | Concrete | Concrete |
| east wans 1st east beams 1st | | | | | Steel erector |
| | 3 days | Tue 10/7/14 | Thu 10/9/14 | Steel erector | Steel decking |
| | 1 day | Mon 12/8/14 | Mon 12/8/14 | Steel decking | Roofing |
| | 2 days | Tue 12/9/14 | Wed 12/10/14 | Roofing | Rooning Curtain Wall |
| classroom curtain walls 1st | 6 days | Fri 2/13/15 | Fri 2/20/15 | Curtain Wall | Masonry |
| 45 pool and gym brick 1st | 4 days | | Thu 2/26/15 | Masonry | |
| 46 classroom brick 1st | 3 days | Fri 2/27/15 | Tue 3/3/15 | Masonry | Masonry |
| 47 east brick 1st | 2 days | Wed 3/4/15 | Thu 3/5/15 | Masonry | Masonry |
| 48 windows 1st floor icf | 6 days | Fri 3/6/15 | Fri 3/13/15 | Glazing | Glazing |

|) | Task Name | Duration | Start | Finish | Resource Names | ter | | 3rd Quarter | | Ath C | Quarter | 1.4 | Quarter | | 2nd Quarter | | 3rd Quarter |
|----|----------------------------------|----------|--------------|--------------|----------------|-----|-----|-------------|--------|-------|---------------|----------|---------------|-----|----------------|--------------|---------------|
| | Tuon Hume | Daration | Start | 1 111/211 | nesource Names | May | Jun | | ug Sep | Oc | | | lan Feb | Mar | | ay Jun | Jul Au |
| 50 | exterior doors 1st floor | 9 days | Fri 3/20/15 | Wed 4/1/15 | Doors | | | | | TIII | | | | | Doors | | 1 |
| 51 | MEFP rough-ins | 30 days | Fri 2/13/15 | Thu 3/26/15 | MEP | | | | | | | | - | | MEP | | |
| 52 | stud walls | 12 days | Fri 3/27/15 | Mon 4/13/15 | General Works | | | | | | | | T | | General V | √orks | |
| 53 | gypsum wallboard | 12 days | Tue 4/14/15 | Wed 4/29/15 | General Works | | | | | | | | | | Gen | eral Works | |
| 54 | casework | 7 days | Thu 4/30/15 | Fri 5/8/15 | General Works | | | | | | | | | | <u>™</u> G | eneral Works | |
| 55 | fixtures | 5 days | Mon 5/11/15 | Fri 5/15/15 | Electrical | | | | | | | | | | 6 | Electrical | |
| 56 | finishes | 10 days | Mon 5/18/15 | Mon 6/1/15 | General Works | | | | | | | | | | | Genera | |
| 57 | carpet tile flooring | 5 days | Tue 6/2/15 | Mon 6/8/15 | Carpet | | | | | | | | | | | Carp | |
| 58 | concrete floor finishing | 5 days | Tue 6/9/15 | Mon 6/15/15 | Flooring | | | | | | | | | | | Flo | |
| 59 | equipment | 5 days | Tue 6/16/15 | Mon 6/22/15 | RSD | | | | | | | | | | | * F | RSD |
| 60 | Second Floor | 202 days | Thu 10/2/14 | Mon 7/20/15 | | | | | | | | | | | | | & |
| 61 | gym metal decking | 2 days | Wed 10/8/14 | Thu 10/9/14 | | | | | | IN. | | | | | | | |
| 62 | pool and gym walls 2nd lift | 5 days | Thu 10/2/14 | Wed 10/8/14 | Concrete | | | | | - | oncrete | | | | | | |
| 63 | gym beams 2nd | 3 days | Tue 10/14/14 | Thu 10/16/14 | Steel erector | | | | | 117 | Steel erector | | | | | | |
| 64 | classroom metal decking | 4 days | Fri 10/10/14 | Wed 10/15/14 | Steel decking | | | | | | Steel decking | | | | | | |
| 65 | classroom walls 2nd lift | 3 days | Thu 10/16/14 | Mon 10/20/14 | Concrete | | | | | | Concrete | | | | | | |
| 66 | pool trusses north | 1 day | Fri 10/17/14 | Fri 10/17/14 | Steel erector | | | | | 0 | Steel erector | | | | | | |
| 67 | pool trusses south | 1 day | Mon 10/20/14 | Mon 10/20/14 | Steel erector | | | | | 1 | Steel erector | | | | | | |
| 68 | pool truss braces | 1 day | Tue 10/21/14 | Tue 10/21/14 | Steel erector | | | | | | Steel erector | | | | | | |
| 69 | east metal decking | 1 day | Thu 10/16/14 | Thu 10/16/14 | Steel decking | | | | | T | Steel decking | | | | | | |
| 70 | gym trusses west | 1 day | Wed 10/22/14 | Wed 10/22/14 | Steel erector | | | | | | Steel erector | | | | | | |
| 71 | gym trusses east | 1 day | Thu 10/23/14 | Thu 10/23/14 | Steel erector | | | | | | Steel erector | | | | | | |
| 72 | gym truss braces | 1 day | Fri 10/24/14 | Fri 10/24/14 | Steel erector | | | | | | Steel erector | 1 | | | | | |
| 73 | east walls 2nd | 3 days | Tue 10/21/14 | Thu 10/23/14 | Concrete | | | | | | Concrete | | | | | | |
| 74 | classroom beams 2nd | 5 days | Mon 10/27/14 | Fri 10/31/14 | Steel erector | | | | | | \$teel erec | or | | | | | |
| 75 | east beams roof | 3 days | Mon 11/3/14 | Wed 11/5/14 | Steel erector | | | | | | Steel ere | ctor | | | | | |
| 76 | gym slab on deck 2nd | 1 day | Mon 12/1/14 | Mon 12/1/14 | Concrete | | | | | | I I | oncrete | | | | | |
| 77 | classroom slab on deck 2nd | 1 day | Tue 12/2/14 | Tue 12/2/14 | Concrete | | | | | | | Concrete | | | | | |
| 78 | east slab on deck 2nd | 1 day | Wed 12/3/14 | Wed 12/3/14 | Concrete | | | | | | | Concrete | a) | | | | |
| 79 | pool and gym roof decking | 2 days | Thu 12/11/14 | Fri 12/12/14 | Steel decking | | | | | | | Steel de | king | | | | |
| 80 | pool and gym roof | 10 days | Mon 12/15/14 | Tue 12/30/14 | Roofing | | | | | | | Ro | ofing | | | | |
| 81 | pool and gym skylights | 3 days | Fri 1/2/15 | Tue 1/6/15 | Glazing | | | | | | | - | Glazing | | | | |
| 82 | classroom 2nd floor roof decking | 2 days | Fri 1/2/15 | Mon 1/5/15 | Steel decking | | | | | | | | teel decking | | | | |
| 83 | classroom 2nd floor roof | 5 days | Tue 1/6/15 | Mon 1/12/15 | Roofing | | | | | | | | Roofing | | | | |
| 84 | east roof decking | 1 day | Tue 1/6/15 | Tue 1/6/15 | Steel decking | | | | | | | T. | steel decking | | | | |
| 85 | east roof | 6 days | Tue 1/13/15 | Tue 1/20/15 | Roofing | | | | | | | | Roofing | | | | |
| 86 | pool and gym aluminum panel 2nd | 4 days | Fri 3/6/15 | Wed 3/11/15 | Misc. Metals | | | | | | | | | | c. Metals | | |
| 87 | classroom curtain walls 2nd | 6 days | Fri 3/6/15 | Fri 3/13/15 | Curtain Wall | | | | | | | | | | rtain Wall | | |
| 88 | classroom aluminum panel 2nd | 4 days | Mon 3/16/15 | Thu 3/19/15 | Misc. Metals | | | | | | | | | - | Visc. Metals | | |
| 89 | east curtain wall 2nd | 2 days | Mon 3/16/15 | Tue 3/17/15 | Curtain Wall | | | | | | | | | | urtain Wall | | |
| 90 | east aluminum panel 2nd | 3 days | Wed 3/18/15 | Fri 3/20/15 | Misc. Metals | | | | | | | | | - | Misc. Metals | | |
| 91 | windows 2nd floor icf | 6 days | Mon 3/23/15 | Mon 3/30/15 | Glazing | | | | | | | | | 1 | Glazing | | |
| 92 | windows 2nd floor cw | 4 days | Tue 3/31/15 | Fri 4/3/15 | Glazing | | | | | | | | | | Glazing | | |
| 93 | MEFP rough-ins | 25 days | Fri 3/27/15 | Thu 4/30/15 | MEP | | | | | | | | | | MEF | ř | |
| 94 | stud walls | 10 days | Fri 5/1/15 | Thu 5/14/15 | General Works | | | | | | | | | | - | General Wor | ks |
| 95 | gypsum wallboard | 10 days | Fri 5/15/15 | Fri 5/29/15 | General Works | | | | | | | | | | 1 | General | Works |
| 96 | casework | 6 days | Mon 6/1/15 | Mon 6/8/15 | General Works | | | | | | | | | | | Gene | eral Works |
| 97 | fixtures | 5 days | Tue 6/9/15 | Mon 6/15/15 | Electrical | | | | | | | | | | | Ele | ectrical |
| 98 | finishes | 10 days | | | General Works | | | | | | | | | | | * | General Works |

| Task Name | Duration | Start | Finish | Resource Names | ter | 100 | 3rd Q | uarter | | 4th Qua | rter | 1 | Lst Quar | er | | 2nd Quarte | er | 3 | rd Quarter | |
|--------------------------------|----------------------------|--------------|--------------|----------------|-----|-----|--------|--------|-----|---------|-------------|-------------|----------|-------------|-----|------------|---------|----------|-------------|-------|
| | G2001 9. 00 P100 (Facility | Filedoff. | DISWARD. | | May | Ji | ın Jul | | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | | Aug |
| carpet tile flooring | 5 days | Tue 6/30/15 | Mon 7/6/15 | Carpet | 1 | | | | | | | | | | | | | | Carpet | - |
| concrete floor finishing | 5 days | Tue 7/7/15 | Mon 7/13/15 | Flooring | | | | | | | | | | | | | | | Flooring | 8 |
| equipment | 5 days | Tue 7/14/15 | Mon 7/20/15 | RSD | | | | | | | | | | | | | | | TRSD | |
| 2 Third Floor | 188 days | Tue 11/4/14 | Fri 7/31/15 | | | | | | | | - | _ | | | - | | | | | |
| gym metal decking 3rd | 2 days | Tue 11/4/14 | Wed 11/5/14 | Steel decking | | | | | | | Steel d | ecking | | | | | | | | |
| 4 gym walls 3rd lift | 5 days | Thu 11/6/14 | Wed 11/12/14 | Concrete | | | | | | | Con | C 1000 | | | | | | | | |
| 5 classroom metal decking | 4 days | Thu 11/6/14 | Tue 11/11/14 | Steel decking | | | | | | | Stee | decking | | | | | | | | |
| 6 gym beams roof | 3 days | Tue 11/18/14 | Thu 11/20/14 | Steel erector | | | | | | | St. | eel erector | 2. | | | | | | | |
| 7 classroom walls 3rd lift | 3 days | Thu 11/13/14 | Mon 11/17/14 | Concrete | | | | | | | Co Co | ncrete | | | | | | | | |
| 8 classroom beams roof | 5 days | Fri 11/21/14 | Thu 11/27/14 | Steel erector | | | | | | | | Steel erect | or | | | | | | | |
| 9 east walls 3rd lift | 1 day | Tue 11/18/14 | Tue 11/18/14 | Concrete | | | | | | | P C₀ | ncrete | | | | | | | | |
| 0 gym slab on deck 3rd | 1 day | Thu 12/4/14 | Thu 12/4/14 | Concrete | | | | | | | | Concrete | | | | | | | | |
| 1 classroom slab on deck 3rd | 1 day | Fri 12/5/14 | Fri 12/5/14 | Concrete | | | | | | | | Concrete | • | | | | | | | |
| 2 gym roof decking | 1 day | Wed 1/21/15 | Wed 1/21/15 | Steel decking | | | | | | | | | St | eel deckin | g | | | | | |
| 3 gym roof | 6 days | Thu 1/22/15 | Thu 1/29/15 | Roofing | | | | | | | | | | Roofing | | | | | | |
| 4 classroom roof decking | 2 days | Thu 1/22/15 | Fri 1/23/15 | Steel decking | | | | | | | | | ₹ S | teel deckir | ng | | | | | |
| 5 classroom roof | 10 days | Fri 1/30/15 | Thu 2/12/15 | Roofing | | | | | | | | | i | Roofi | ing | | | | | |
| 6 gym curtain walls 3rd | 4 days | Mon 3/23/15 | Thu 3/26/15 | Curtain Wall | | | | | | | | | | | * | Curtain Wa | II | | | |
| 7 gym aluminum panel 3rd | 2 days | Fri 3/27/15 | Mon 3/30/15 | Misc. Metals | | | | | | | | | | | ď | Misc. Met | als | | | |
| 8 clasroom curtain walls 3rd | 6 days | Fri 3/27/15 | Fri 4/3/15 | Curtain Wall | | | | | | | | | | | | Curtain V | Vall | | | |
| 9 classroom aluminum panel 3rd | 4 days | Mon 4/6/15 | Thu 4/9/15 | Misc. Metals | | | | | | | | | | | | Misc. N | ∕letals | | | |
| 0 windows 3rd floor icf | 5 days | Fri 4/10/15 | Thu 4/16/15 | Glazing | | | | | | | | | | | | Glazi | ing | | | |
| 1 windows 3rd floor cw | 3 days | Fri 4/17/15 | Tue 4/21/15 | Glazing | | | | | | | | | | | | 🎳 Gla | zing | | | |
| 2 MEFP rough-ins | 19 days | Fri 5/1/15 | Thu 5/28/15 | MEP | | | | | | | | | | | | | N | ΛEP | | |
| 3 stud walls | 8 days | Fri 5/29/15 | Tue 6/9/15 | General Works | | | | | | | | | | | | | 4 | General | l Works | |
| 4 gypsum wallboard | 8 days | Wed 6/10/15 | Fri 6/19/15 | General Works | | | | | | | | | | | | | | Gen | eral Works | |
| 5 casework | 6 days | Mon 6/22/15 | Mon 6/29/15 | General Works | | | | | | | | | | | | | | * | General Wor | ks |
| 6 fixtures | 4 days | Tue 6/30/15 | Fri 7/3/15 | Electrical | | | | | | | | | | | | | | 4 | Electrical | |
| 7 finishes | 8 days | Mon 7/6/15 | Wed 7/15/15 | General Works | | | | | | | | | | | | | | | Genera | Wor |
| 8 carpet tile flooring | 4 days | Thu 7/16/15 | Tue 7/21/15 | Carpet | | | | | | | | | | | | | | | Carpe | t |
| 9 concrete floor finishing | 4 days | Wed 7/22/15 | Mon 7/27/15 | Flooring | | | | | | | | | | | | | | | Flo | pring |
| 0 equipment | 4 days | Tue 7/28/15 | Fri 7/31/15 | RSD | | | | | | | | | | | | | | | RS | D |
| 1 Commissioning | 20 days | Fri 5/29/15 | Thu 6/25/15 | TAB | | | | | | | | | | | | | | TA | AB . | |
| 2 Demobilization | 5 days | Mon 8/3/15 | | Nexus | | | | | | | | | | | | | | | * | Nexus |
| 3 FF&E | 10 days | | Fri 8/21/15 | RSD | | | | | | | | | | | | | | | | B |
| 4 Substantial Completion | 0 days | Fri 8/21/15 | Fri 8/21/15 | Nexus | | | | | | | | | | | | | | | | 4 |
| 5 First Day of School | 1 day | Mon 8/24/15 | | RSD | | | | | | | | | | | | | | | | + |



cost

nexus

function

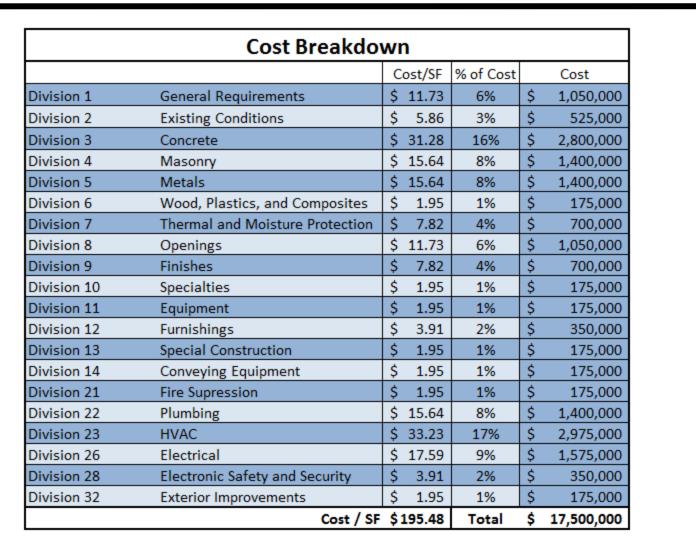
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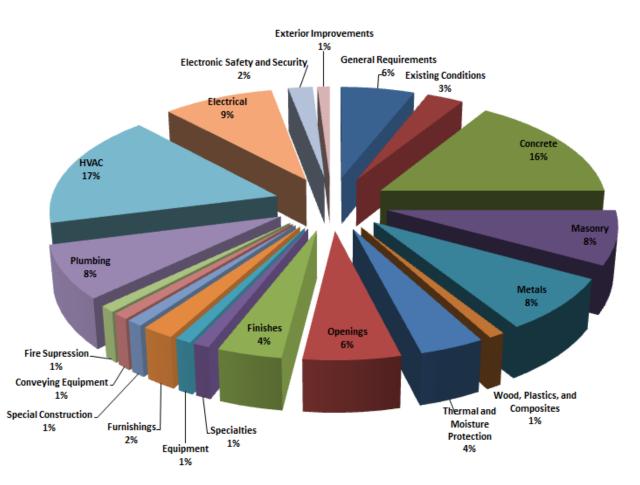
education

conclusion

appendix



Cost Breakdown



| | Cost Breakdown | w/ | Poo | | |
|--------|---------------------------------|----|--------|-----------|------------------|
| | | С | ost/SF | % of Cost | Cost |
| ion 1 | General Requirements | \$ | 11.73 | 6% | \$ 1,050,000 |
| ion 2 | Existing Conditions | \$ | 5.86 | 3% | \$ 525,000 |
| ion 3 | Concrete | \$ | 31.28 | 16% | \$ 2,800,000 |
| ion 4 | Masonry | \$ | 15.64 | 8% | \$ 1,400,000 |
| ion 5 | Metals | \$ | 15.64 | 8% | \$ 1,400,000 |
| ion 6 | Wood, Plastics, and Composites | \$ | 1.95 | 1% | \$ 175,000 |
| ion 7 | Thermal and Moisture Protection | \$ | 7.82 | 4% | \$ 700,000 |
| ion 8 | Openings | \$ | 11.73 | 6% | \$ 1,050,000 |
| ion 9 | Finishes | \$ | 7.82 | 4% | \$ 700,000 |
| ion 10 | Specialties | \$ | 1.95 | 1% | \$ 175,000 |
| ion 11 | Equipment | \$ | 1.95 | 1% | \$ 175,000 |
| ion 12 | Furnishings | \$ | 3.91 | 2% | \$ 350,000 |
| ion 13 | Special Construction | \$ | 1.95 | 1% | \$ 175,000 |
| | Pool | \$ | 27.93 | - | \$ 2,500,000 |
| ion 14 | Conveying Equipment | \$ | 1.95 | 1% | \$ 175,000 |
| ion 21 | Fire Supression | \$ | 1.95 | 1% | \$ 175,000 |
| ion 22 | Plumbing | \$ | 15.64 | 8% | \$ 1,400,000 |
| ion 23 | HVAC | \$ | 33.23 | 17% | \$ 2,975,000 |
| ion 26 | Electrical | \$ | 17.59 | 9% | \$ 1,575,000 |
| ion 28 | Electronic Safety and Security | \$ | 3.91 | 2% | \$ 350,000 |
| ion 32 | Exterior Improvements | \$ | 1.95 | 1% | \$ 175,000 |
| | Cost / SF | \$ | 223.41 | Total | \$ 20,000,000 |



daylighting / artificial

nexus

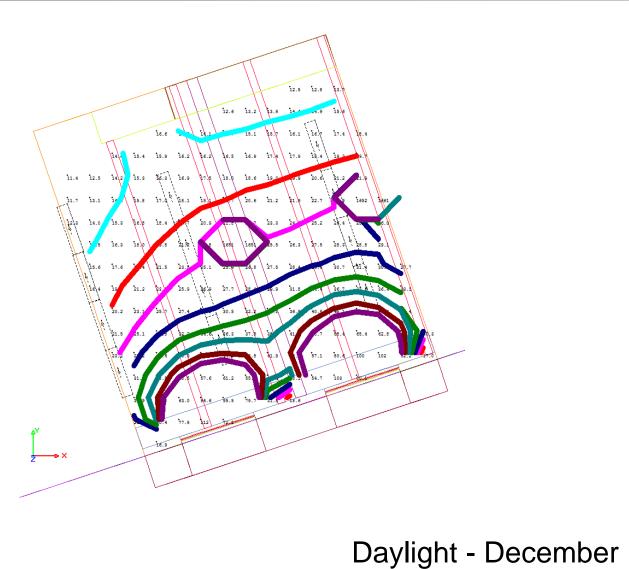
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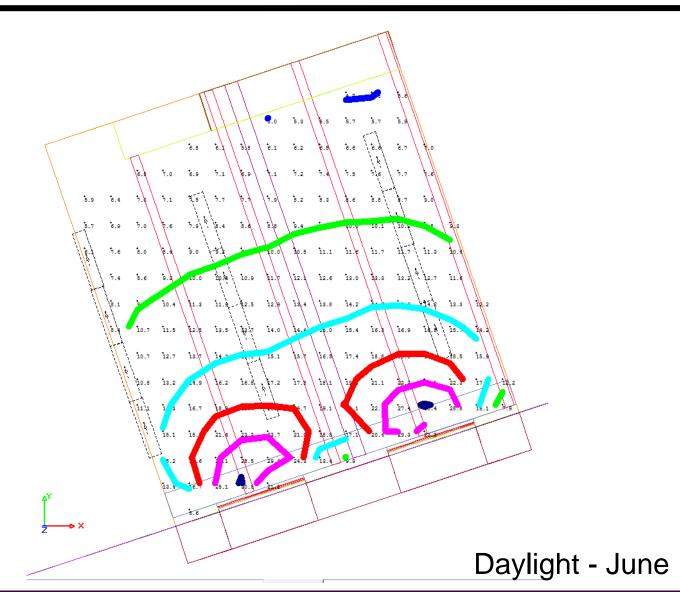
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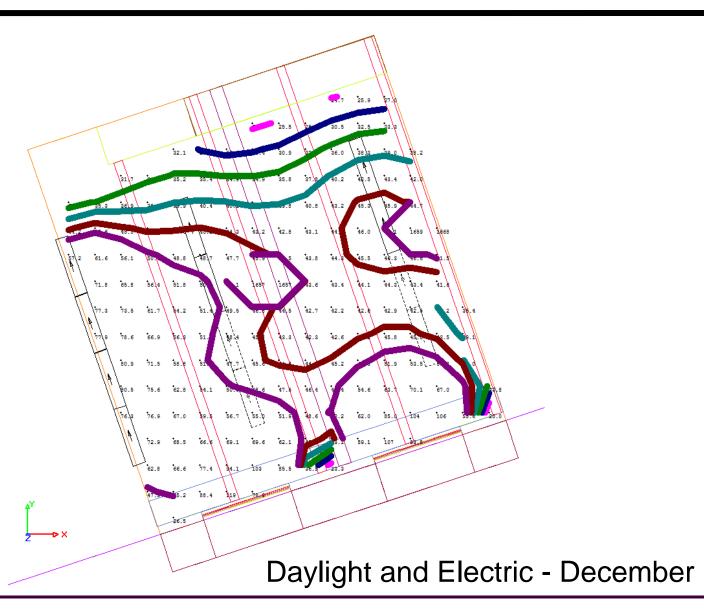
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daylighting / artificial

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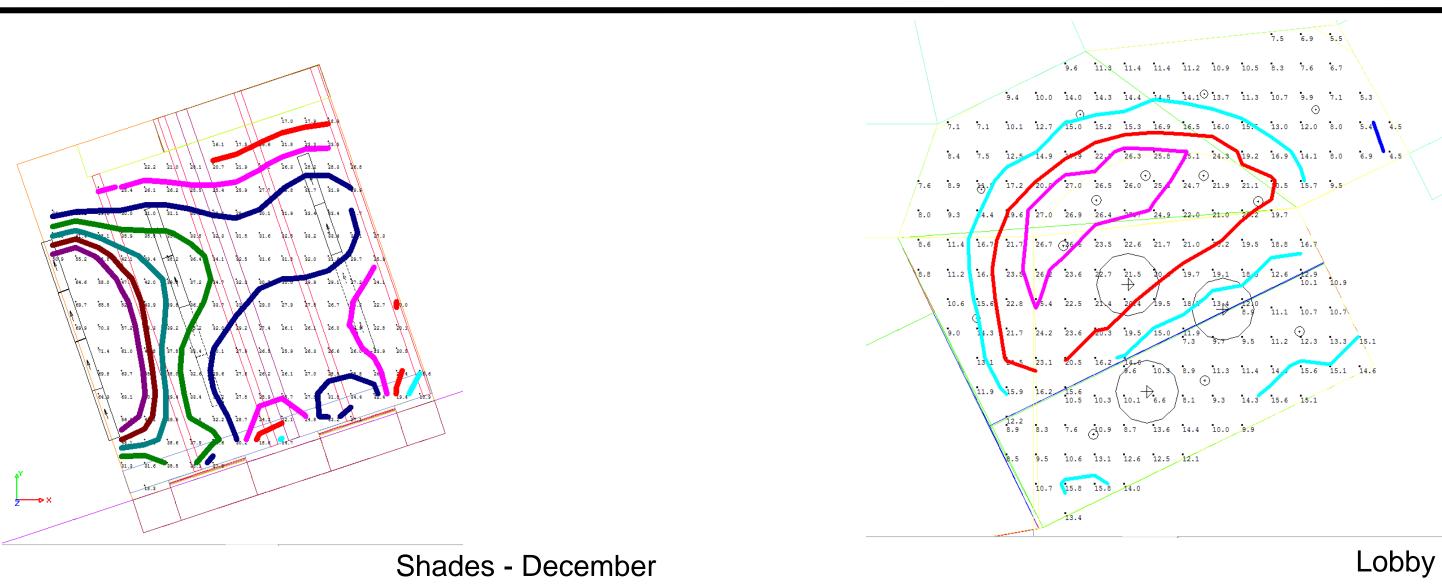
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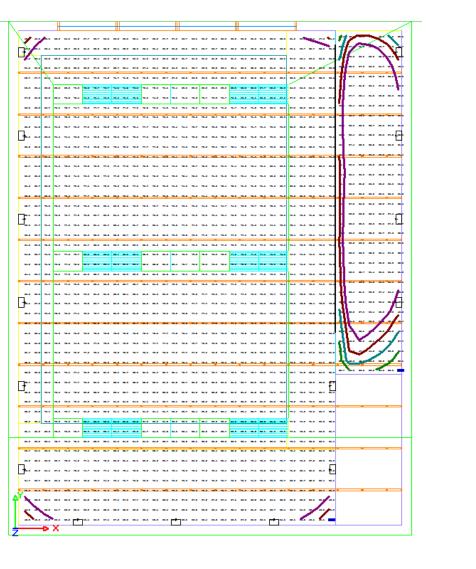
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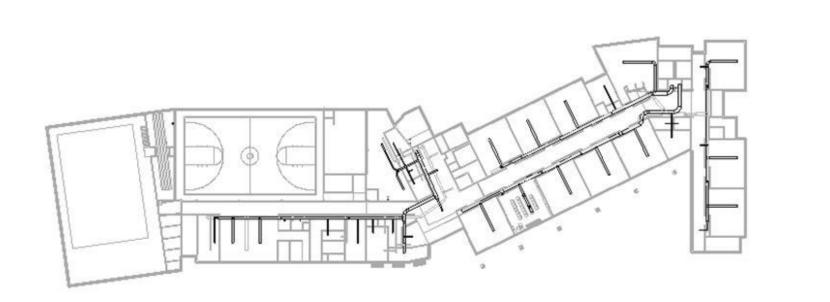
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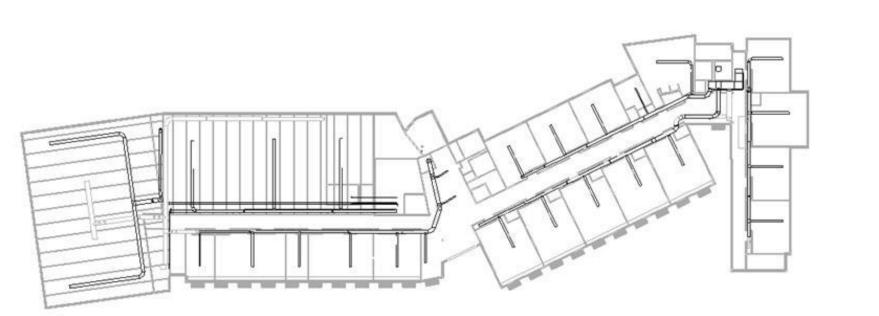
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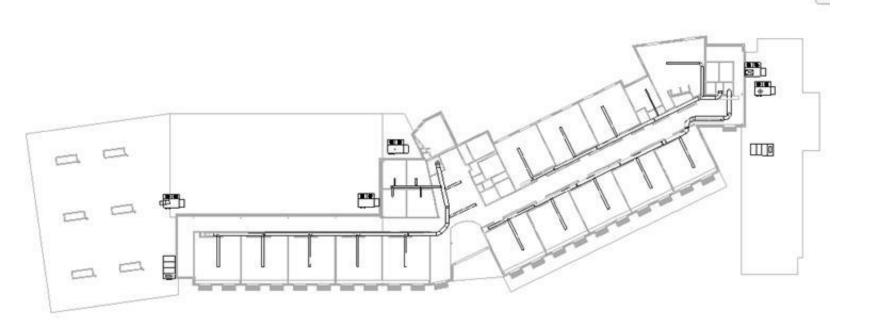
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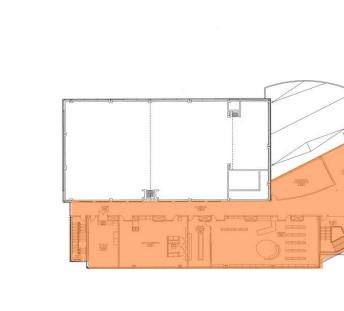
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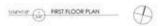
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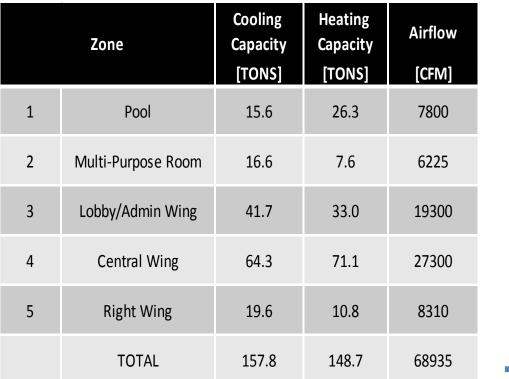
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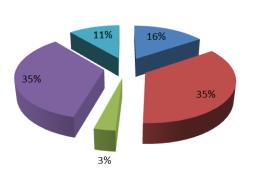
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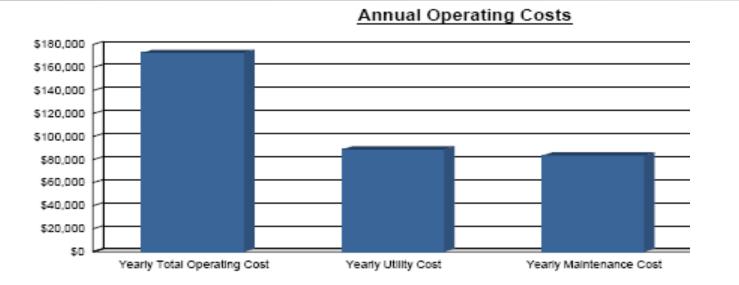
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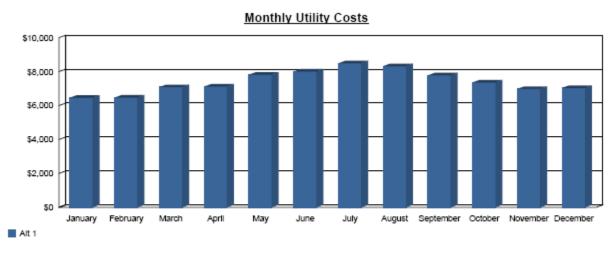


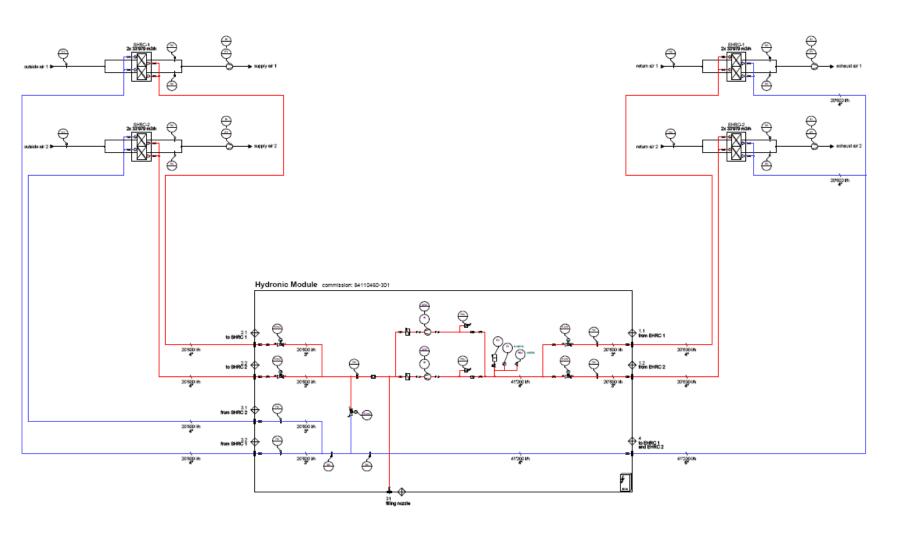


■ Lights ■ People ■ Misc ■ Envelope ■ Infiltration











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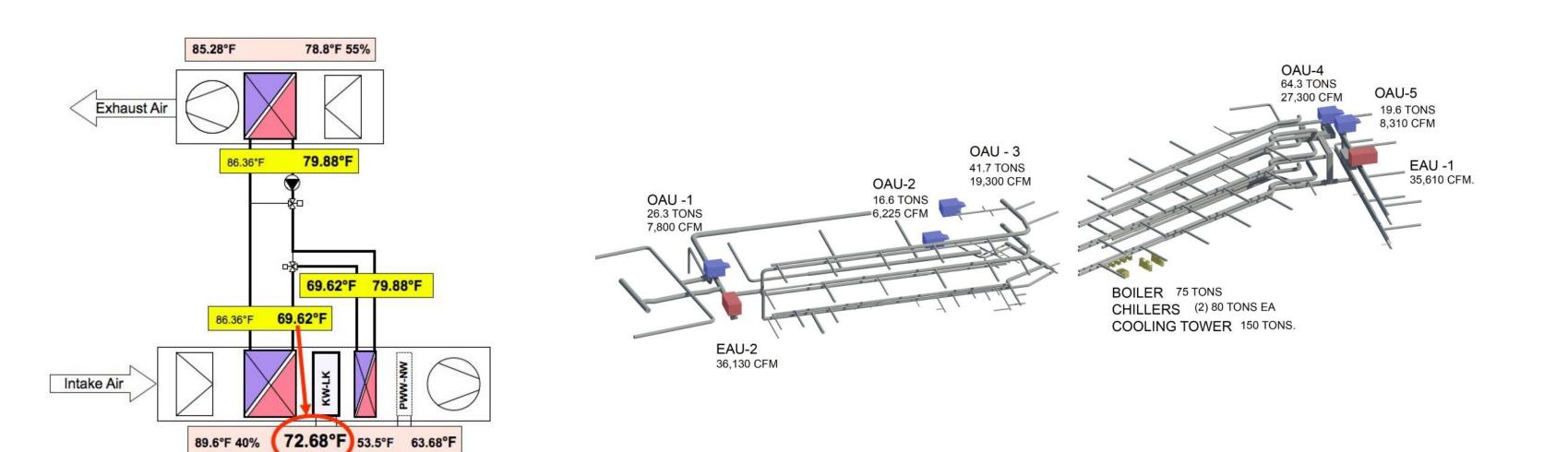
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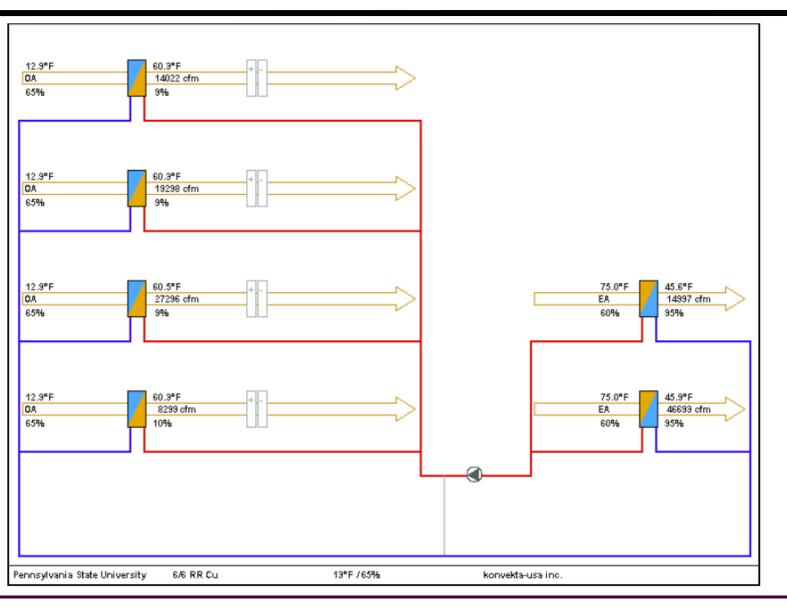
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De-humidification Circuit







structural

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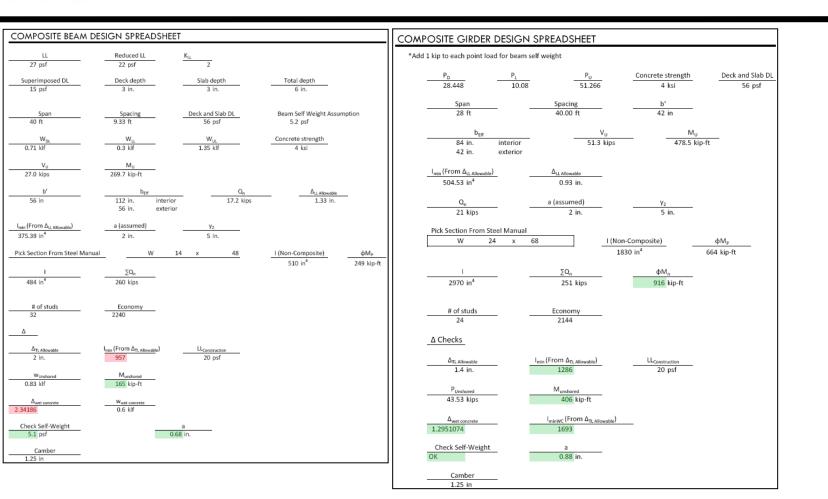
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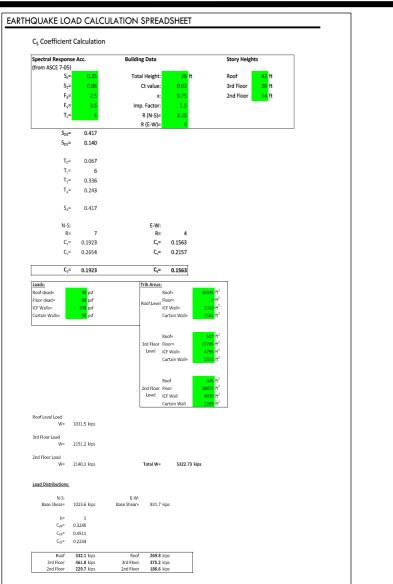
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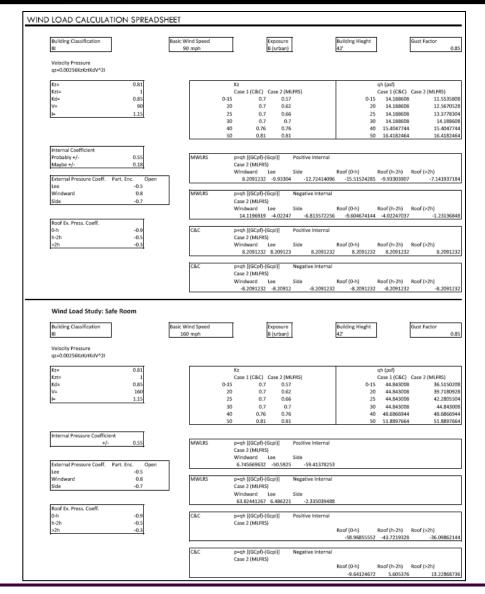
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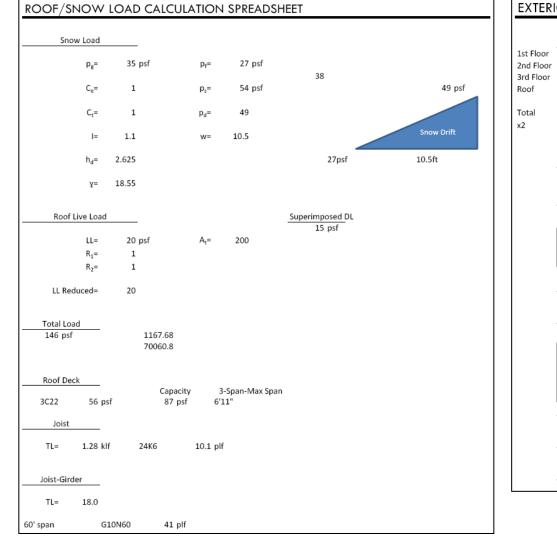
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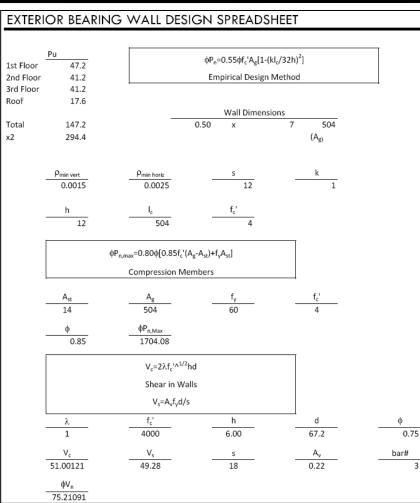
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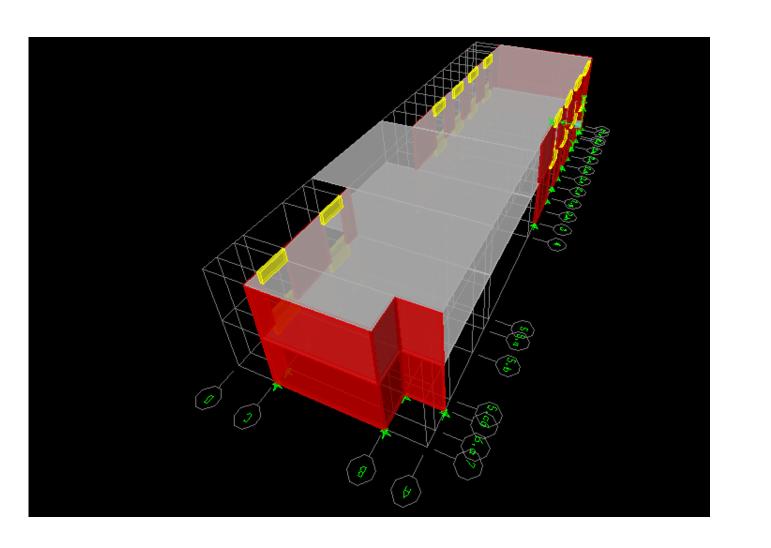
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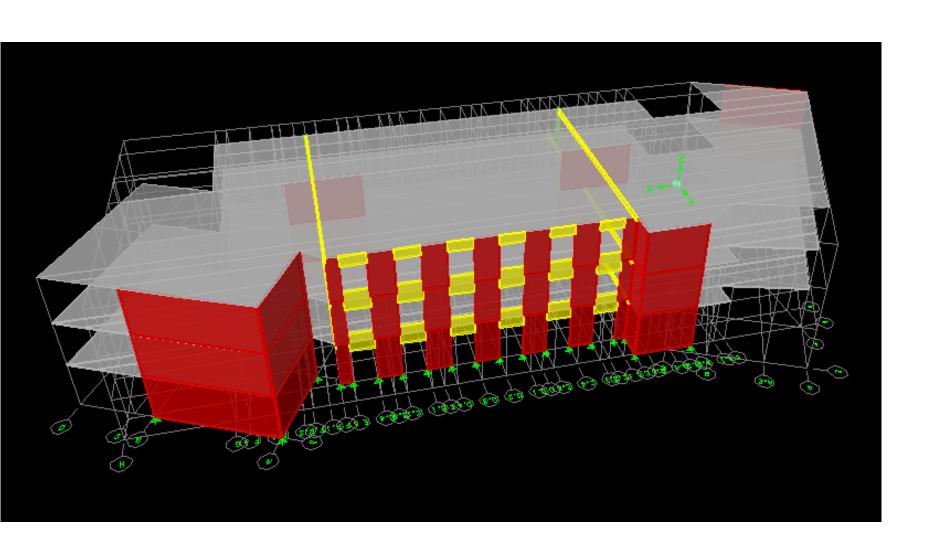
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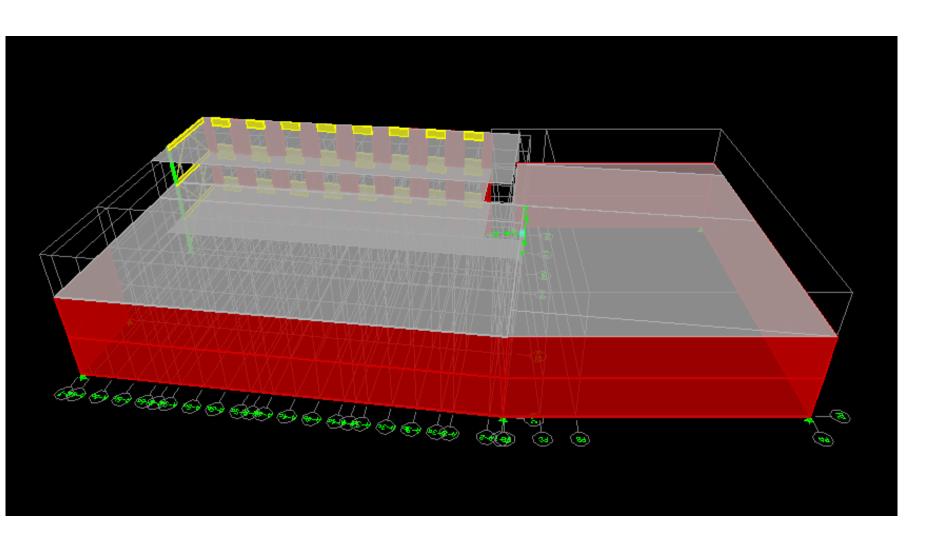
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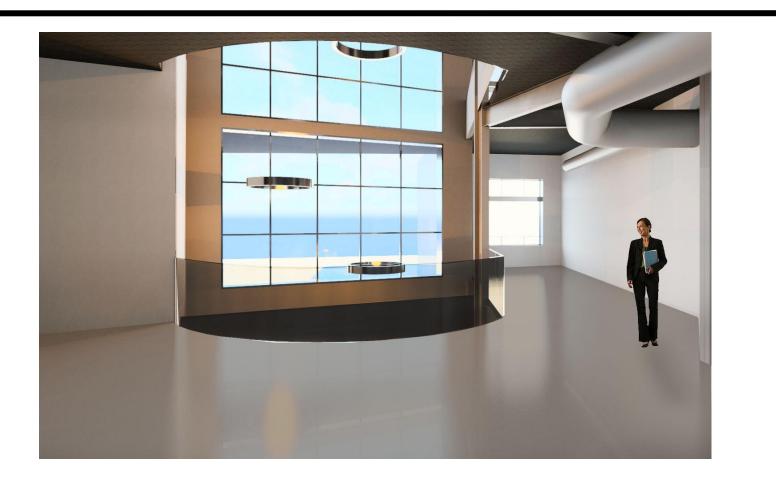
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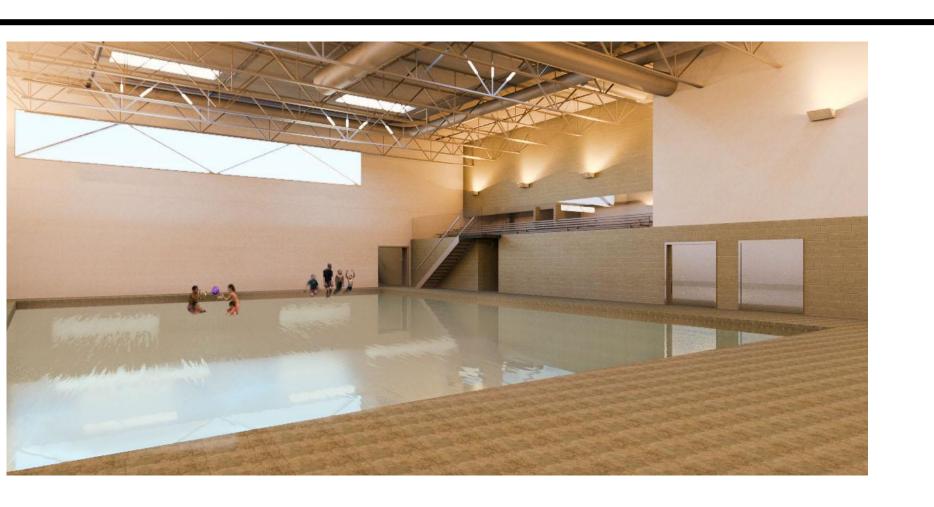
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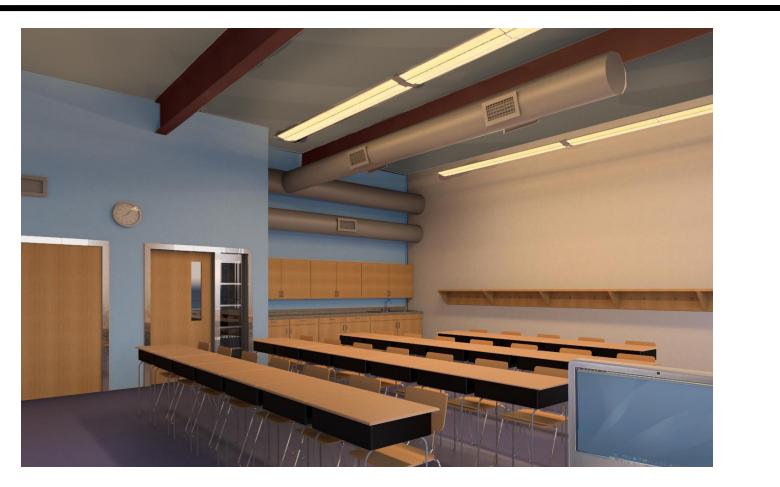
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