Nauset Regional High School Building Project
Nauset Regional School District

Topic: Educational Visioning Teacher Interviews
Meeting Minutes
Date: 12/12/2018 and 12/13/2018

Present: Teacher and Student Groups – NRHS
Kent Kovacs – Flansburgh Architects
Betsy Garcia - Flansburgh Architects
David Croteau - Flansburgh Architects
David Stephen – New Vista Design
Richard Marks – Daedalus Projects, Inc
Christina Opper – Daedalus Projects, Inc

The following notes were taken during two days of teacher and student focus group interviews conducted by Flansburgh Architects and New Vista Design. Faculty Focus Groups were assembled by discipline, and each met for a period of 45-75 minutes, depending on what the schedule allowed.

Attached are the meeting notes from this kick-off meeting produced by David Stephen, the educational programmer, from New Vista Design.
Math Teachers

- Stephanie Tupper
- Steve Swinarski
- Neil Milen
- Kathleen MacDonald
- Jessica Reeves
- Sharon Richards
- Karen Lagasse
- Kate Blascio
- Justin Bohannon – not in attendance

- Space is limited and classrooms are small
  - There are classes of 31-32 students in some classrooms
  - Classes average 23-24 students
  - They still have leveling in the school, so some of the lower level classes are smaller
- They have 10 teachers and are in dire need of one more teacher
- They are the first department to lose classrooms, had 10 and now have 9 classrooms
- They also lost the Math Office, so there are no places to retreat to
  - No places to put students to take tests
  - The only storage and meeting space is in our classrooms
- Special Needs classrooms use the spaces
- There is one traveling teacher in the department
- The Fire Chief comes through for annual inspections and doors need to stay clear
  - This means we lose essentially two corners in every classroom
- There are activities they presently do that can’t be accommodated in their present classrooms:
  - The biggest challenge is finding the space in the room to arrange in dynamic groupings
  - They have an 85-minute block which lends itself to varied groupings and activities, but that is very challenging
- We never see anyone – never leave our building. It is very isolating
There are not teacher commons spaces and collaboration spaces
Back in the day, they had teacher space in what is now the Media Lab
It was a huge loss in terms of faculty collegiality
The previous layout (before the new building) was much better in terms of school culture

Ideally have a smaller and closely located Math Office, as well as a larger collaboration space that is reasonably accessible so that they see people outside of their classrooms
We should be a 1:1 school, but that is particular to departments in terms of programs used
They would like a Math Department Office that has:

- A space to spread out and put projects together
- Some resources (although moving away from paper resources)
- Some sort of SmartBoard for PD or for display
- A place to meet with parents or hold small meetings
- Sound proofing

Dispersed offices can be very beneficial
People prefer to stay departmental

- It is good to be collocated
- It’s hard to think about being integrated, because we don’t operate that way

If we had a team structure it might be easier to wrap our heads around it
In a perfect world, it would be great to have a Math Lab
Or each student has a laptop where they could have math-based drawing programs
There is a lot of technology where you can set up simulations for stats and probability
Can’t happen in a regular classroom – need a space for rolling a ball
They would like to be more centrally located
Having multiple teaching walls would be good so that multiple students could work on things at the same time

Other Ideas:

- Would be great for clubs to have storage space
- Faculty toilets
- A sink and mini refrigerator within the team room
- Pumping Room for mothers
- Private spaces
- The idea of having a pool for the community is an important one, there are only 3 pools on the whole Cape
- We need to think about schools that people can see and visit

The challenge for us is that what we know now has a defined our space and culture
Presently they have 9 labs, and the MSBA has given them 8
Some labs require very specific set ups (i.e. Biotech needs a super sterile environment)
The first step is to designate what dedicated spaces they need
Can you optimize a subject specific science course?
- Optimize most classrooms for General (wet and dry) science subjects
- Roger has gas in his room – demonstration tables
- Need to differentiate between wet and dry and sterile
  - Biotech, Marine Sciences
  - Robotics (could also be Makerspace)
- If we had lockable and controllable spaces that would allow us to share more

A dedicated greenhouse would be a great space to teach biology
Connect to the outdoors... bring the garden to us
- Use the woods and vernal pools that are nearby
- That is a huge part that we all take for granted
- How easy it is to access outside
- It’s exciting to see kids actually doing things
- Here we are in a “tunnel.” It’s very inwardly focused
Should we create a dedicated garden?
When they wrote the SOI it was Biotech and Marine Science that was struggling with spaces
- They are making it work but are being held back by their spaces
- At Woods Hole – bringing salt water stuff is messy. You need to hose it down.
- Biotech, Marine Science and Robotics
This group needs to write about what they are doing and what kinds of spaces they need.
By end of February, we need to submit a template to the MSBA that outlines our needs.
We need to document the limiting factors for our programs.

- Before, the Math and Science departments were very connected.
- In terms of Virtual Labs, they may be used in some schools, but the science teachers feel strongly that they do not give students the chance to work with their hands and learn in more authentic ways.

Other thoughts:
- The idea of a Student Union that brings you together with one stop shopping.

Social Studies

- Henry Evans
- Ryan
- Paul

- Sue
- Laura
- Mike
- Tom

- We have never had enough classrooms in the building.
- Have teachers on a cart.
- Don’t have a lot of needs other than enough classrooms.
- We have 10 teachers and used to have more and may end up having more.
- We have been light on the number of teachers we have.
- Classrooms are small – with 28 kids in a classroom its standing room only.
- If we think about the MSBA’s 85% utilization, with a block schedule you only get to 100% or 75%.
- Now they have 10 classrooms.
- They also a need for a large testing area particularly in the Spring.
- At one point they needed to rent out the Sheraton.
- Having a small departmental office with a breakout private space, but also a large interdepartmental collaboration space.
- Need departmental storage space.
- At the moment there are teachers we never see or even know.
- As we go toward more IB (International Baccalaureate) this will be more and more important be connected with other teachers.
- It’s very isolating to go outside to a different building.
- This is not southern California.
- Most say that they like going outdoors.
- Kids get fresh air and there are fewer behavioral problems.
- Would love a common area for kids and a nice staff common area.
- For classrooms would like:
  - More flexible furniture – the ability to stand or sit.
  - Larger table surfaces for project-based learning.
  - Multiple teaching walls and projection surfaces.
  - White board space.
  - Up-to-date technology.
  - Strong wi-fi infrastructure.
  - Flag in the classroom.
- Outdoor space where the school can gather outside and maybe do graduation, not just in the gym.
- An amphitheater would be great for the history department.
- Security – we should consider:
  - It’s strange that you could have anyone walking through the campus.
  - But people like the open campus.
  - People don’t want a fence around it – they only stop mostly honest people.
  - The security issue is unusual for a public high school, not for an independent school or college campus.
  - St. Johns prep has ID cards that students swipe…there will be a whole security visioning process.
- The number of doors means we track in all sorts of stuff and air quality suffers.
- It’s a mess in January. There need to be some sort covered walkways.
- Hiring more personnel would be good.
English Language Arts

- Dave
- Ezra
- Salina
- Jenny
- Sally
- Paul
- Noelle
- Meredith
- Beth
- Maura
- Aramy?

- Many of us are huge proponents of the open campus
  - Love that kids can go outside between classes
- We are strapped for space – if we can get some sort of additional room, we need
  - Special Education Space
  - Copy room – with printer
  - A mini theater for lecture and presentations
  - Smaller theater
- “Liage” indoor small theater and open space
  - Opens up to the outdoors – indoor outdoor theater
- Having some kind of Student Center
  - Springfield College learning center – beautiful stacks with workspaces around it
- Would be nice for ELA to be near the Media Center/Library

- Within the Library now there are computers, but as an instructor it’s difficult to do effective conferencing
  - The structure we have has great potential
  - The Library is in a good place and has great views
  - A coffee space would be good
- ELA likes being in A building because have own realm, but also can feel very disconnected from Admin
  - Is there a way of creating a central hub – spoke?
  - It would be good to connect disciplines more
- We need to think about how will to address the issue of security

World Language

- Amy - Spanish
- Jen - Spanish
- Ariana - Spanish
- Carolina - Spanish
- Alison - ASL
- Deb – French

- They department is incredibly fragmented
  - No common space for students to gather or departments to collaborate
- We could greatly benefit from having a commons space that is flexible for other activities
  - Reading area
  - Flexible space
- Presentational space is very important for language classes
- A place to interview students one on one and still be able to see into our classrooms
- The possibility of permanent devices like iPads that are just there in the classroom
- Highly flexible classrooms
  - Teachers could create banks of stations
- Having visibility for foreign language – sections of dining halls or cafeterias for foreign languages can be spoken at designated tables that are part of the mix
- More office space and private space

- A lab classroom for foreign language – where kids could improve their listening and speaking skills
  - We had labs in the past, now use the materials within the classroom
- For American Sign Language (ASL) – it is highly visual
  - For ASL classrooms
    - Use tennis balls to make furniture more quiet
    - More flexible furniture to reduce time on set-up
    - Also lighting that is easy to control or remote light switch
    - Showing lots of movies with ASL
    - The Node Chair would be good – and you can get it with or without the desks... which can get in the way of students signing
- If we have connecting doors then they should lock for safety
  - If we are still an open campus – fobs or ID cards for access to buildings
- Aesthetics that are warmer and more inviting (unlike the present school)
  - Less industrial
- LEED and New England Chips is not required, but it can give you and additional 2% reimbursement
- Align with MA state building code
- The Living Building challenge is a different commitment
  - Requires the participants to keep it going
- How do people feel about the open campus of the school?
  - It’s the one thing that Sean likes about the facility
  - But need more interaction in student or teacher’s commons
- Nursing mothers – need private area and ways to sterilize and lock

**Art Teachers**

- Jody Craven – Metal and Jewelry
- Jane McGown – Fashion, Child Psychology
- Ryan Campbell – Studio Art and Photography
- Ginny Ogden – Print Making
- Dan Anthony - Instrumental
- Norma Jean – Culinary Arts

- It would be nice if the Arts could be physically connected

  **Instrumental** (Dan Anthony) does 6 different ensembles and teachers 85 kids – largest is 53
  - Ideally close to performance space
  - Nice to have flexibility of space, but Choral and Band need their own spaces
  - Have a computer lab that they all share, and it is sometimes used as a practice space
  - Need more storage and practice space
  - Three practice rooms are now butted up against Ginny’s room. One is used for storage and the other two are both fully functional
  - Percussion closet also set up for practice rooms
  - Lots of kids want to use
  - Needs 3-5 practice rooms
  - Band room now fits 70-80 kids, but Tom used to have up to 110 students at one time
  - Flat space is better than tiered room
  - The music program needs a lab that is separate from the visual arts
  - A piano and guitar class could be taught in a lab setting
  - Ensemble room could be a Visual Arts
  - Metal grate instrument lockers that can be accessed in set-back hallway
  - Need sound isolation so not disturbing others
  - We would use a computer lab for graphic design and digital photography
  - Tom – current band room needs more space

  **Photography and Studio Arts**
  - It’s tricky having a multi-purpose room
  - It would be great to connect the Dark Rook to her room
  - A dedicated Visual Technology Lab that Jane could also use
    - But Jane and Ryan should each have a designated computer area in their own spaces
  - If Jane had computers in her Fashion and Graphic Design space she would use them
  - Storage is a huge issue
  - Moveable furniture with up to date electrical
  - Needs a dressing room as well
  - Classes range from 24 – 12 (fewer kids as they get more advanced)
  - 12 individual stations could be good.
  - A demonstration station as well

  **Woodworking** is cut off from all of his colleague
  - Classes of 16 students
  - But he makes a lot of noise
  - An overhead door for delivery
  - Lots of windows
  - Having some outdoor space adjacent would be great
  - Access to a computer lab for more CNC manufacturing – that is an adjacent clean lab with 16 stations
  - The present shop is a good size, but there is no dust control
  - Having a clean bench space and a machine room would be good
  - Maybe have the shop close to the stage
  - It’s hard to know how much they would collaborate if they had better adjacencies
Think about a spray booth that is ventilated that everyone could share.

A dream would be to have a common art space that could be opened to the outside and double as a ventilated space.

**Ginny – Printmaking and 2D art**
- She and Ryan do most of the 2-D art
- Most classes are 26 students
- One side is all the drying racks and printing presses... they take up 1/3 of the room
- Large format color printers would be good – so long as they could control who uses it
- They would like to have areas for display everywhere – now used magnets, but hard to get at
- White board walls that are very versatile

**Norma Jean – Life Skills**
- Needs more ventilation and light
- Max class size is 16 (with knives and fire that is plenty)
- Presently, there is lots of wasted space
- Needs a demo station
- Commercial gas ovens – all gas would be ideal
- Need a wheelchair access station that is workable
- Need small stacked washer dryer
- A commercial dishwasher – short cycle!
- Stainless steel prep tables and shelving
- Outdoor grill/kitchen station (which could be utilized by several departments)
- Flat screen monitor
- Access to color printer

**Lisa Brown – Diversity, Human Rights and Cultural Anthropology**
- Her program has always been limited by space
- Could have 40-50 if she didn’t have to turn kids away
- A real classroom for 25 – where she can sit in a circle
- Art space nearby for projects
- Direct access to a classroom with PBL
- Near a Ted Talk area for 70-100 people (not a 400-500 auditorium)
- Flexible Black Box type of space
- Brings in about 25 people a year
- Seminars on weekends and at night with community members coming in
- A lecture hall with tiered seating space would be great
- An outdoor classroom in the nice weather
- Need space to accommodate the kind of intimate community gatherings and events that we pride ourselves on
- Need to be near any new student center

**Business and Technology**

**Lisa Orlandella – Tech integration**

**Katy McCully – Technology/Video**

**Alan Castellano – Business (shares classrooms)**

**Roberta Endich – Library/Learning Commons/VHS**

**Jerry Gordon – Comp Science**

**Harry Terkanian – Volunteer/MIT WarriorWorks**

Lisa shared a PowerPoint presentation which gives an overview of current technology programming as connected to space usage and needs. Please see appendix on pages _______ for a copy of the PPT.

Highlights of the PowerPoint included:
- HS is a 1:1 iPad school
- Current lab for computer science and business is not flexible and negatively impacts student learning
- Classrooms for computer and business should ideally have:
  - 100” interactive whiteboards

- Would be great to have a café where left over food can be eaten
- Close to the cafeteria and on the first floor would be good as well
- Don’t have a generator – could lose a lot of food in the fridge if the power goes out

- Floor to ceiling whiteboards
- Flexible furniture
- Cannot currently provide video production classes. We are reliant on our partnership with Lower Cape TV
- To ensure long-term viability of program the will need an independent TV studio/video production studio and classroom
- More Mac editing computers
- Soundproofing is essential
o 3D printer needs proper additive manufacturing ventilation for 3D printing and soldering
o We need a project-based engineering lab that is visible to the school/community
  ▪ 3D printing
  ▪ CNC routing
  ▪ Soldering
  ▪ Available to students/community before, during and after school
  ▪ Not to be shared with or taken away from Jewelry program
o We need a Robotics Lab space
  ▪ WarrierWorks space does not have room for running the autonomous cars or fly the drones
  ▪ Special storage locker for Lipo Lithium batteries
  ▪ Drones cannot be flown in a national park, except on school grounds.
  ▪ A developmentally appropriate version of the MIT Beaver Lab
  ▪ Gerry’s computer science workroom does not have secure storage and is not organized
o It would be great to have an inviting space for teacher workshops and PD

o Other Technology needs:
  ▪ Videoconferencing capabilities for each classroom.
  ▪ Robust technology infrastructure
  ▪ AC for summer work and computer cooling
  ▪ Dimmable lighting AND natural lighting
  ▪ Breakout spaces for group work and individual work. Desks that move from sitting to standing. Ergonomic design for multiple body types
  ▪ Plentiful and accessible outlets
  ▪ Electronic access to lab spaces for those who need to work before/after school
  ▪ Space to share strategies and collaborate
  ▪ With up-to-date equipment and large interactive whiteboard
  ▪ Offices for partnerships

o Library Learning Commons
  ▪ Library needs independent and quiet spaces
  ▪ “Cave Spaces” and “Watering Hole” spaces
  ▪ A private space for presentations
  ▪ Space for more than one class at a time
  ▪ Every department should have a copier

Note: Please the complete Business and Tech Ppt. at end of these notes.

SWS (School Within a School) and VHS (Virtual High School)

• Diane Keon – School Within a School
  • Look at St. Johns Prep
  • Tech Integration Lab for PD for teachers... but has no windows and heat
  • We need a place to get people out of their departments – set up a room like a mock classroom
  • Also, we need a color copier that students can access with a code
  • A café area in the Library
  • Testing tends to commandeer a lot of space
  • Cyber Seniors relationship with older community
  • We need enough bandwidth
  • Capacity for this program will grow with the push of CS in the future
  • Building space will need the same square footage as English/Math etc

• Karen Novacon – School Within a School
  • We can’t build a space for the program we have today

Edgenuity Program (Virtual High School)
  o Now in its 6th year at Nauset
  o Runs 60-70 courses
  o Will not being going away
  o Another teacher might want to offer Entrepreneurship
  o This needs to be written into the educational plan
  o Last year service 130 students in her room
  o Independent learning, interns, MCAS prep
  o Blended and self-paced learning
  o Now had 2 tables with 8 computers on each one
    ▪ 16 stations
    ▪ Some kids work on their own laptops
    ▪ Also takes in Special Ed kids
  o Her room should be tripled in size
  o Overflow now goes to the Library to do work
Now in N210 (Foreign Language Dept.)
- Access (night program) uses her room three nights a week – this is for kids that need to work during the day, but are working towards their diploma
- Is also working with adults in the community and kids who haven’t graduated
- Also have Virtual High School which is asynchronous learning and based in the Library
- Now kids taking Cyber Security
- Social Media

**School Within a School (SWS)**
- Has been around for a long time
- Karen started 23 years ago, but didn’t have a great reputation
- Teach integrated History and English
- Unite and do common PBL that integrates across disciplines
- Only have 11th and 12th graders in two different cohorts
- Have always had a special space, but now smaller
- Need a guest speaker space – a small presentation
- A third teacher teaches in SWS and she has an English class of 28 and its not big enough
- All do a lot of Project-based and creative assessment
- Need tables that can work and come together
- Quiet space for reading
- Collaborative learning space between classrooms
- Enough storage for supplies
- Sinks in the classrooms
- Close to Arts – their kids are project based
- Largest class is 25 – used to have a lottery
- As AP has grown the numbers have decreased
  - Unfortunately, we are trying to keep the program alive
- 120+ students total
- Portable chairs and desks
- Office space
- Storage space for books and materials
- No exhibition space and walls of cinderblock
- Would love a draw down exhibition
- Need more whiteboards
- Movable SmartBoards
- Small room

**PE and Health**
- Bruce Strunk
- Jesse Peno
- Scott McGrath
- Addie Weeks
- Heather Stevens
- Michelle

- Nauset services more in PE than many other larger schools
  - Fitness is a large part of the Cape life
  - Many kids work around the docks, but don’t know how to swim
- They service 240 kids a day in the fitness center
  - 140-150 are in classes, the rest are after school athletes
- Starting Jan 7, they are offering before school PE for kids that can’t fit it in their schedule
- We need to understand the current, past and future scheduling
- Health room is a converted closet and far away from the fitness center
- Kids come in from all different directions from outdoors, so not one place that they come in
- Can be very chaotic. The way the gym is configured, there is no true lobby
- There is no safe space for kids to wait for a ride and see their parents picking them up.
- No defined front of the building or the school
- No storage to store gear of any sort
- Things get left wherever kids can find a space
- We have the big footprint of the gym
- The Fitness Center is nice compared with others around
  - 25 students maximum in classes, but some have up to 29-30
  - It would be great to set up for not just strength training, but also conditioning
  - From October to April they are stuck inside
  - Don’t have enough space if they are all on
  - Out of 7 blocks, 2 teachers may have classes operating in make-do spaces
  - Most of the kids in the strength training programs are non-athletes
  - Hoping to get a space that is a bigger to have 2 teachers at a time
  - The sightlines in the Fitness Center aren’t great
  - By NSCA standards, the room is compliant... but if you take away the L we are incompliant
  - If we had the ability to run two classes at once, we could fill them
  - Only ¼ of the cardio machines work
• Social emotional learning - stress relief is an important component of the program
• E200 is an architecture space that gets used for health
  o It’s not a classroom
  o The male staff bathroom is in the classroom
• In terms of numbers of student, we now have
  o 150 kids in fitness center classes
  o 40 in yoga
  o Lifetime fitness – 140
  o Sophomore PE – 103
  o Health – 100
  o Outdoor Ed – 50
  o Athletic Training Class - 15
• Dance is not part of the program
• But wanted to talk about a multi-purpose space
• Chris really wants the student services in a centralized area, with the PE and wellness close by
• Gym and Phys Ed area may tie into many different things
• If they could be more centrally located that would be good
• Nurse should be closer
• The Gym is not well configured:
  o If they were able to utilize the gray floor would have 1/3 more space
  o They could not function in 12k/15k sf
  o Goal for fitness would be to serve two classes at a time
  o Bigger space with better sightlines
  o 10SF per child in strength training
  o ½ class would do strength and the other cardio
• Would like a multi-purpose room for
  o Yoga
  o Dance
  o Spinning
• Maybe divide it in half and use the other for health – but ideally this would be separate
• Need a health classroom
• Wrestling (now in cafeteria) is an afterschool activity
• Climbing walls are part of the outdoor education program
• Now hard to access with a lot of equipment in front of it
• Have an outdoor ropes course and zipline
• Everything could be clustered around the gym and convenient to pool
  o Having a storage space that is linked to outdoors that is adjacent to the gym for athletic equipment, PE equipment

Guidance

• Dee
• Sarah
• Steve
• Katie

• Guidance is in a unique situation in that they can see the campus as a whole
• Help students to created and monitor their educational vision and workplan
• They administer over 600 AP exams per year
  o Sometimes 90-100 kids at a time
  o Shut down the library for two weeks
  o Music has to be quiet
  o That will not be going away
• Have college admissions people that come... could have 1-50 students
• Can currently accommodate 8 in a conference room
• Need a conference room for 15
  o Need more meeting space
  o Have access to only one conference room
  o Re-entry meetings, college folks, special Ed
  o IEP meetings can get large
  o General office size is too small, which bumps them into the conference room
• They could use a dedicated computer area for 3-6 computers... not in the middle of the flow of the office
• The biggest challenge now is space and confidentiality
  o Spaces to make up tests and working one on one with a counselor without taking up
• Have a closet are for Special Ed files, but need a secure area for file storage
  o Records room – galley style
  o Now keep students’ cumulative files in their offices
  o 220 students per counselor
  o They follow their students all four years
• Need more confidentiality
• Offices are not conducive to working with a family
• In individual offices need a desk and small table space
• Need 7 offices
Also, a small private area where a counselor could come in to work with students

- But that could be a Special Ed space

- We always need an extra office
- Benefit to be near the Main Office and Special Ed
  - Work closely with school psychologist

- Space to present to groups of up to 60
- Need windows in their office doors
- Want to be accessible to the public and admissions counselor
- Part of and near Student Union
- They meet way more often with parents

### Special Needs and Nursing

- Erin Sullivan
- Vanessa
- Christine Barnes – Life Skills
- Kathy

- Jacob
- Janie – Nurse
- May – also runs weekly after school Special Ed program
- Joan
- Amanda

- 3,000 SF of dedicated Special Education
- MSBA guidelines – you will get 10,000 SF
- We need someone to start inventorying how they might be used
  - Keep them adjacent to Guidance
  - All of these spaces could go near Nurse
  - Easy access for an ambulance
  - Right now it’s hard to find places

- Inventory of spaces they need:
  - Quieter and distraction free space and office for Speech Therapy is important
  - Also a Reading Lab
    - An area specifically for reading
    - Need privacy
    - Title One money
    - Lots of supplies that are needed
  - Vision
    - Needs one office with area for testing
    - Should be close to the secretary and guidance
    - Constantly consulting with counselors and department heads
    - A testing space for students not in mainstream classes
    - We need small group and midsized spaces for testing
    - Ability to test lighting and have full control
  - Special Ed records are separate from Guidance
    - Need their own separate records room
    - Space to organize the records without leaving the records room
    - The records room that exists is filled with food, unrelated to special needs
  - Shared conference room for up to 15

- Jenna, Chris, Bonnie, Vanessa, Mark,
  - 6 of them share 3 rooms

- Space for small groups of up to 6 students
- Large group space for up to 10
- Small space
  - For deaf and cochlear implant students – need very quiet spaces
  - Need auditory breaks during the day
  - Visually impaired students (low incident students have outside consultants who need a home base) need more access to resources
  - Dedicated OT and PT near each other
    - Near gym and culinary
    - Fitness center
  - Small group classes for academic support up to 10
  - Legally not supposed to have more than 12 students in a CR
  - Need to be big enough to separate kids who are having behavior problems
  - Mark likes the space he is in now (N211)
  - Opportunity to work with one group and be close to others
  - It’s hard to know how many spaces we need
  - Right now the schedule is not built well

- Ed Assistants need a space
  - The SmartBoard is, often times, the center of attention – and have lost the whiteboard space

- With Special Ed kids it is helpful to use varied modalities
  - Space for actually doing things and be flexible about where the center of attention is

- During the Advisory Block we have about 80 groups meeting simultaneously, will likely be going up to 110 groups
  - Now about 15 for most groups
  - Service, SEL, the business of being a student

- Adjustment counselor flip flops between general ed. and special ed. We will need a counselor space
Life Skills – Christine Boggs

- We need 2 classrooms, although right now they have 1
- Need private bathrooms
- Students are legally not supposed to be in the same classroom
- No more than 5 students per class
- Right now have 3 and 3
- Need an area for classroom type activity
- Also life skill activities – now have one, but will need two
  - Kitchen (regular looking)
  - Sink
  - Washer Dryer
  - Mini-apartment (between the two classrooms)

Other Ideas:
- Vocational simulation
- Also helps to bring outside agencies in and to make private classrooms
- Good to centrally locate them near Special Ed resources

Student Advisory Group

PLUSSSES (What they like about the school)

- Like outdoor campus
  - Being outside
  - Option to be able to eat outside
  - Alternative lunch spaces
- B Building lobby
- Library Lobby
  - Library – seats around the edge
  - Light and quiet
  - Nice to look through the books
- Darkroom – it is old, but one of the only ones on the Cape
- Playing fields –
- Art classes that are available
- Independent studies
  - Teacher sponsored
  - Some are in the Library
- The culture of the school fosters independence

MINUSES (What they don’t like about the school)

- No outdoor learning spaces
- No place where the whole school can go – have to split them up by classes
- Lack of security: anyone can get on campus
- Need something like an amphitheater in the “bowl”
- Don’t have enough bathrooms that work
- Auditorium is too small
- Theater acoustics are bad, designed for lecture
- Need changing rooms
- Need more windows
- Air conditioning – it gets really hot
- Locker Rooms are creepy – like a horror movie
  - Need new showers, now no privacy
  - Only one way in and one way out
- Going through doorways to get from class to class is hard and tricky
  - It gets very crowded so now use the middle
Student Green Club

PLUSSES (What they like about the school)
- The outdoor campus – important to the culture of the school
- Trees and gardens and the feeling of nature
  - Inventoried the trees in the courtyard last year in Green Club
- The Art facilities – big ceilings and rooms
- The artwork you see around the school and murals
  - Concern with renovation displacing existing art
- Nice to have places to eat lunch outside
  - Kids don’t have to eat in the cafeteria
- In the winter is would be great to have more commons areas
- We have a very relaxed environment, it would be great to have more places to eat
- Coming here feels very spaced out and open – refreshing
  - The middle school feels very enclosed
- Having the freedom to be on an open campus helps you learn about individual responsibility

MINUSES (What they don’t like about the school)
- Winters can be hard
  - Use a lot of ice melt to keep the trails open
- In the E Building – classrooms are really hot or cold
- When it rains the campus gets flooded
  - Classrooms get messy with all the mud and water
- Water facilities in general – only one water bottle filling station on the entire campus
  - Few sinks that allow students to wash out containers in order to recycle containers
  - Having some sinks in the cafeteria would be good
- Don’t have many bathrooms, or they are too small or far away
- The locker room showers need to be fixed
  - There are only a couple you can use
  - Mostly used after athletic events
- In the winter, not a lot of space for sports teams (i.e. 90 kids doing track)
  - Another bigger space for all sports in general
- The auditorium is small and so is the stage
  - We have a great drama and music program but have to perform at Nauset Middle
- The Gym has a lot of space, but could be organized better and be more efficient
  - Kids don’t use lockers –
    - Athletic lockers may get used by sports teams – for clothes they change into for sports

Student Choral Group

PLUSSES (What they like about the school)
- Love the open campus
  - Get to go outside, especially after 85 minutes
  - Being cooped up in one space
  - Good socially to have the open campus
  - Feels like a college
- Would be a good idea to offer a hallway of some sort
- Like the parking around the entire campus – makes circulation easy
  - Wrap around parking
- Nooks and crannies places to eat lunch and gather
- It’s good that all of the departments have their own space, but poorly placed right now

MINUSES (What they don’t like about the school)
- Keep the old auditorium, even if we build a new one
  - Gets taken by the athletic department
- A big auditorium would be used. They would like:
  - Not just the stage and the seats
  - Dressing rooms
  - Studio spaces
  - Practice rooms
  - Amphitheater
  - A black box theater
  - Offer more opportunities for theater productions
MINUSES (What they don’t like about the school)

- Open campus is a double-edged sword – anyone can come in, but there are multiple ways to get out
- The N building is the most likely place that a security issue would happen
- Flow during passing time is very congested (N building doorway)
  - Almost a fire hazard
  - Stairways that 1/3-1/2 of kids are coming from N building
- Passing time in N building is horrible
  - Everybody is streaming into this one tiny slot
- Poor acoustics in the auditorium
  - Need a new performance center
- Because of the outdoor campus there is a lot of wear and tear on the inside
  - When it rains you have to hold onto the railing
  - The stairs are treacherous
  - Catch germs
- Don’t need lockers
- Windows that are in the classroom are a great idea
  - If window placement could be to the backs of the students that could be better in terms of distraction
- Accommodations for a deaf teacher
- Elevators are terrifying – you feel like they are going to break
- Practice room space, better and better access
- Charging stations throughout the school
- WE like the fitness center that is open to everybody, but it is very small
- A separate training area
- The library tables on the second level serve as the student hub – need more of that
  - Doesn’t have that many books – more space for books
  - People would use the library more is they felt that it had more books
  - Have a subscription to a scholarly website, but don’t have the actual books
- The library has become a Commons – trying to do too many things
- Need a real commons area, so the activities don’t clash
- Re-did some handicapped access a few years ago
- It needs better drainage when it rains – forms lakes
- Outdoor spaces
  - Have a small area of picnic tables – need more across the campus
  - It gets competitive to find a space to sit
- The outdoor campus is only usable for a few months – more ways to stay inside

Student Blue Sky Ideas

The following Blue Sky Ideas were brainstormed by students from each of the three groups we met with: a student Advisory Group, the Green Club, and a group of music students. Ideas have been grouped by theme and listed in priority order based on the number of students that mentioned them. Those with a number next to them indicated the number of the idea was mentioned. If a bullet point has no number, then it was mentioned by only one student.

Green Practices (72)

- Use greenhouse (14)
- Solar panels/power for everything (7)
  - Full roof solar
- Wind turbine/power from ocean (6)
- Natural light (5)
  - More windows
  - Skylights
- Metal/reusable silverware and plating (4)
- Avoid using a lot of paper (3)
  - Encourage assignments that can be completed online to limit the amount of paper used
  - Encourage everyone to print double sided
- Rainwater collection (3)
- Farm to table lunches (3)
  - Food from local resources
- Automatic lights (3)
  - Automatic shut-off
- UVM toilets have special composting factors, less wasteful (2)
  - Composting toilets
- Water-saving/efficient toilets (2)
- All new recycling/composting structures and areas (2)
- Solar power heated sidewalks (2)
- Use compostable cutlery
  - Work with composter for cafeteria
Student Blue Sky Ideas Continued

- Use recycled materials like recycled plastic for the bathroom stalls
- Sinks in cafeteria to wash out containers to recycle
- Aerators, dual flush toilets to conserve water in bathrooms
- Encourage people to eat less meat to reduce methane emitted into the atmosphere thereby causing global warming
- Encourage students to bring their own cutlery
- Implement LED light bulbs
- Encourage everyone to turn off lights when no one is in classroom
- Use environmentally friendly school supplies
- Encourage students to take buses rather than drive to limit carbon dioxide emissions
- Encourage kids to bring water bottles to school
- Water filtration system through the whole school
- Turn off computers to save energy
- Encourage students to pick up trash
- Power generated from treadmills
- Use compost/composter
- Recycling rooms where people bring and sort through recycling there
- Anywhere in building where there is a trashcan, have a recycling bin and compost bin too
- Hydroponics program

Outdoor Spaces and Connections (25)
- Rooftop gardens (8)
- Gardens (7)
  - More plants, trees, and gardens
  - Improve garden area
  - Vegetable garden and orchard where food is used for breakfast and lunch and free for students/staff
- Observatory (3)
- Have plants in classrooms and hallways (2)
- Inside connected to outside
- Outdoor fountain
- Outdoor seating for lunches
- Heated pathways and courtyard
- Outdoor learning spaces

Athletics (18)
- Indoor heated pool (4)
- Swim team (2)
- Indoor track (2)
- Area for track team to run
- Indoor turf – weather here is so unpredictable
- Lights by the outdoor track
- Big gym with good equipment for all teams
- Newer locker rooms
- Bigger fitness center
- Fitness/yoga/dance studio
- Gymnastics center
- Adventure/outdoor equipment room with equipment to use for classes, field trips, and stuff you can borrow
- Ice skating rink (could flood tennis court during winter?)
- Pool tables, foosball tables (maybe at lunch could be used)

Building Comfort and Utility (11)
- Heating and AC that works (3)
- More parking (2)
- More stairway access
- Better ventilation in clay room
- Common room for before and after school, etc.
- Bigger gallery so students work can be more involved
- More areas with printers, computers, charging stations, quiet place to study, etc.
- Sitting rooms to study or have lunch (library isn’t always the best option)

Performance Spaces (7)
- A Performing Arts Center (3)
- Black box theater
- Bigger auditorium
- Practice rooms for music/drama students
- Film room/dark room

Student Commons (6)
- A student common space
- Place for independent work

Safety and Security (5)
- “Key card” ID’s for students to enter buildings – still allows open campus but provides safety (1)

Bathrooms (5)
- More bathrooms throughout school (3)
- Air dryers and automatic sinks in bathroom (2)
Student Blue Sky Ideas Continued

Art Resources (5)
- More places for students to express their art – a bigger and more formal gallery (3)
- A new Dark Room
- Another printing press

Classrooms and Labs (3)
- Standing desks/tables
- Classrooms with more comfortable seating (desks/chairs aren’t often needed)
- More lab spaces for science

Library (2)
- More seating in the library
- More comfortable chairs in classrooms

Storage (1)
- More shelving and storage for the clay room (often hard to find space for storing work)
Business and Technology Department
Interview with Flansburgh and New Vista

December 12, 2018

Department members:
Lisa Orlandella, Tech. Int. Specialist/ Dept Head
Alan Castellano, Business Teacher
Jerry Gordon, Computer Science Teacher
Katie McCully, Videography Teacher
Roberta Endich, Librarian

MIT/WarriorWorks Consultants:
Ed Rohmer
Harry Terkanian

Capacity for this [computer science] program will grow with the push of CS in the future. Our building space will need the same square footage as English/Math etc. We can’t build a space for the future program based on the space we have today. WE NEED THE EQUIVALENT SQUARE FOOTAGE AS OTHER CORE COURSES.

Superintendent Conrad

Business/Technology at Nauset

| Classroom: Business Classes (Intro to Business, Intro to Law, Personal Finance, Criminology) | Instructor: Alan Castellano
| Rooms B203 & B204 |
| TV Production Studio: Videography Classes (Video Technology! TV Production! Sports Production) | Instructor: Katie McCully
| Room: B205 |
| Computer Science Lab/Classroom: Computer Science Classes (Java, Python, AP Computer Science Principles, SolidWorks 3D design, MIT RaceCar) | Instructor: Jerry Gordon
| Room: B204 & B206 |
| Tech Integration Lab (for embedded teacher PD) | Instructor: Lisa Orlandella
| Room: A100 |
| (A lab where teachers have embedded professional development training during the day, so all new devices/software needs to be available for training. |
| Library/Learning Commons/VHS | Librarian: Roberta Endich |
| Hybrid-Class Lab: Blended Classes in the Edgenuity (E220) Lab | Instructor: Chris Grozier
| Room: N210 |
| MIT/WarriorWorks Consultants: Ed Rohmer and Harry Terkanian |

Five years ago, the Business Department grew into the Business and Technology Department.

Nauset’s Technology plan (2014-2019)

- High school became a 1:1 iPad school ✔
- Needed: A Student Help Center will be part of the Media Center by September 2015 with students trained in basic technology troubleshooting, care, and maintenance ❌ (We did not have the space to include them in the tech office)
- Technology-specific courses applicable to college/career readiness are included in the Program of Studies and are available to all students at the High School ✔
- Needed: However, many of the courses offered must limit unplugged and other activities because of our space learning environment. ❌
Current experiences we cannot currently provide and how our current space prevents the desired education.

It is not currently possible to complete many "unplugged"/grouped activities in the computer science and business classes because there is a bisecting ledge, and heavy tables that do not allow for flexible grouping. The current space negatively affects student learning.

Currently the teachers are sharing this room.

Here's the educational experiences we aspire to provide in the future and the space we need to provide the education.

Business and Computer Science teachers need their own classrooms.

Both classrooms would benefit from
- 100" interactive whiteboards (for coding and Excel's small text)
- floor to ceiling whiteboards
- Flexible furniture where students can be quickly regrouped

C.S. classroom would benefit from laptop cart and large monitors to plug into.

CS needs own 3D printers due to its 3D printing/Additive Manufacturing class

Video Production:

The current video production classes are reliant on the relationship with Lower Cape TV. If that partnership were discontinued, the current space and equipment would not be able to sustain the video production classes. Because of this risk, our needs are to have an independent TV studio.

Here's the educational experiences we aspire to provide in the future and the space we need to provide the education.

An independent TV studio and classroom are needed. In addition to flexible furniture where students can confer in large and small groups, Soundproofing is essential. There needs to be more Mac editing computers so students can develop their individual editing skills (currently only 4). Tripods, camcorders, and external drives are needed.

TV studio needs 3-studio-camera-model, professional lighting and audio w/control room. Various set designs with anchor desk and green screen capabilities are a must.
Current experiences and current spaces that prevents the desired education.

Our 3D printer has the capability to create with nylon, wood paste, and more. However, our space does not have the proper ventilation and safe/secure (yet visible) location. Additionally, soldering has been used minimally because of a lack of a designated space.

Here's the educational experiences we aspire to provide in the future and the space we need to provide the education.

- NEEDED: A project-based engineering lab that is visible to the school/community. The lab would include 3D printing, CNC routing, and soldering capabilities where students/community can gain access before, during, and afterschool. This is not to be shared or taken away from our popular jewelry-making and woodshop spaces.

Current experiences we cannot currently provide and how our current space prevents the desired education.

We have courses that involve drone flight and even coding drones for autonomous flight. However, because we lack a formal space for these lessons, students are often disallowed to participate or put in a possibly unsafe environment.

Here’s the educational experiences we aspire to provide in the future and the space we need to provide the education.

Drone flights are illegal in a national park, so our flights need to carefully and safely stay within our boundaries. Because of wind/weather, an indoor drone flight space would be needed (in addition to the exterior space).
Current experiences we cannot currently provide and how our current space prevents the desired education.

Our existing WarriorWorks space is a busy lab environment with students working on MIT curricula involving writing code for autonomous cars, building a cathode ray tube-based scanning electron microscope, flying custom-made drones which uses UAS synthetic aperture radar and student-written code to autonomously fly.

Currently there’s no space to run the autonomous cars, which can go up to 35 mph. We are driving them with kids in the hallway. The drones have been flown in the library and sports fields, which of course is a safety concern.

In addition to secure storage of equipment, these activities require the use of Lipo Lithium Polymer Batteries (Pure 100C), which must be held in special storage lockers (see image to right).

Link to MIT’s BeaverWorks Curriculum

Here’s the educational experiences we aspire to provide in the future and the space we need to provide the education.

Robotics lab space -

Current experiences we cannot currently provide and how our current space prevents the desired education.

We are fortunate to have the availability of daily embedded tech-integration PD in the Tech Integration Lab. However, the room is less than inviting. It doesn’t have windows, heat, or exchange of air.

Here’s the educational experiences we aspire to provide in the future and the space we need to provide the education.

An inviting space where teachers are able to attend workshops, share strategies, and collaborate.

Needed: Up-to-date equipment, and software, large interactive whiteboard, all current technology used on campus.

Coffee maker, microwave, and a lounge environment.

Would benefit from being adjacent to the faculty lounge/mail room/copying machines. Would be best away from students.
Current experiences we cannot currently provide and how our current space prevents the desired education.

Library/Learning Commons:
- Often there are more than one class having an active learning session. Because of this, the classes can come in and work collaboratively but there is really no private space for presentations.
- Copy room limits teacher productivity

Here’s the educational experiences we aspire to provide in the future and the space we need to provide the education.

AND...
- Videoconferencing capabilities for each classroom.
- Robust technology infrastructure.
- AC for summer work and computer cooling.
- Dimmable lighting AND natural lighting.
- Breakout spaces for group work and individual work. Desks that move from sitting to standing. Ergonomic design for multiple body types.
- Plentiful and accessible outlets.
- Electronic access to lab spaces for those who need to work before/after school.

Developmentally appropriate version of MITs BeaverLab.
- Offices for partnerships.
- CyberSeniors - relationship with student/older community.
- Capacity for this program will grow with the push of CS in the future. Building space will need the same square footage as English/Math etc. We can’t build a space for the program we have today. WE NEED THE EQUIVALENT SQUARE FOOTAGE AS OTHER CORE COURSES.
- ONLINE courses / and international students → online courses.