JONESBOROUGH K-8 SCHOOL DESIGN COMMITTEE

October 28, 2020

Visitor Center, 117 Boone Street

4:00 P.M.

Meeting Agenda

The Jonesborough K-8 School Design Committee will meet Wednesday, October 28, 2020, at 4:00pm, at the Visitor Center, 117 Boone Street.

1. Approve the minutes from the September 30, 2020 meeting
2. Update on Agreements/Funding
3. Design Update
4. Agriculture Learning Center and Outside Facility
5.. Discuss Next Meeting
6. Adjourn

JONESBOROUGH K-8 SCHOOL DESIGN COMMITTEE

September 30, 2020

The Jonesborough K-8 School Design Committee met Wednesday, September 30, 2020, at 4:00pm at the Jonesborough Visitor Center auditorium, 117 Boones Street in Jonesborough.

Present: Chuck Vest – Town of Jonesborough Mayor and Committee Chairman, Jodi Jones – Washington County TN Commissioner, Bryan Barnett, Town of Jonesborough Representative, Jan Allen - Washington County, TN School Board Representative, Dr. Flanary – Director, Washington County, TN Schools, Marybeth Dellinger, Washington County TN School Board, Whitney Riddle – Washington County TN School Board, Mike Masters – Washington County TN School Board, Glenn Rosenoff – Town Administrator - Town of Jonesborough, Laura Cusick – Town of Jonesborough Representative, Joe Grandy – Washington County Mayor - joined the meeting later

Support Personnel Present: Ken Ross – Clark Nexen Architects, Jay McCusker – Clark Nexsen Architects, Aaron Brumo – Clark Nexsen Architects, Shelby Mitchinson – Clark Nexsen Architects, Philip Patrick – Washington County Schools Maintenance Supervisor, Washington County, TN School, Tommy Burleson - Burleson Construction, Jim Wheeler - Town Attorney, Bob Browning – Project Manager - Town of Jonesborough

Chairman Chuck Vest called the meeting to order and introduced two new Design Committee members, Whitney Riddle and Mike Masters who have been recently elected to the Washington County School Board and were officially appointed on the Design Committee by the School Board. Chairman Vest then asked members to review the minutes from the June 24th meeting. Bryan Barnett moved the minutes be approved as presented. The motion was seconded by Jodi Jones and a role call vote was taken with the motion passing unanimously.

Chuck Vest announced that Ken Ross Architects was now officially merged with Clark Nexsen Architects and he asked Ken Ross to introduce the Clark Nexsen staff designing the Jonesborough School: Jay McCusker – architect, Aaron Brumo – architect, and Shelby Mitchinson – designer were introduced.

Jay McCusker was asked to provide an update of the school design, and before he led a discussion all members and support staff introduced themselves.

Jay McCusker used a PowerPoint presentation to review progress with the design. Because of there being new committee members, he went over the project goals that included the following:

- Build a school that will promote pride in Jonesborough.
  - Create an inspiring place for 21st Century learning.
  - Capitalize on outdoor spaces that connect to interior.
  - Preserve the rural character of site and surroundings.
- Incorporate community-based learning programs.
- Provide safe learning environment.
- Spend capital investment wisely.

Mr. McCusker said the Jonesborough project was being sized similar to the recently constructed Boones Creek Elementary (K-8) which was built to accommodate 1,100 PreK-8th grade students, with around 147,000 square feet resulting in 58 classrooms plus special education spaces. He reviewed the building location on the 48-acre school site and the existing views from various locations around the building. Mr. McCusker briefly discussed the overall layout of the school site stating that the site plan includes an area where a separately funded agriculture learning center was hoped to be developed and where athletic facilities and playgrounds might be developed based on planning to-date. He said the focus has been on the layout of the school building itself, but that the design team intended to make a recommendation on more specific detail of the entire school site layout at the next meeting or at the end of the schematic design phase.

Laura Cusick asked about traffic safety at the intersection of Skyline Drive and N. Cherokee Street (Tavern Hill Road). It was explained that the proposed traffic circle on the site plan was being recommended because the circle allows traffic to continuously move, and the traffic configuration tried to address the current safety issue resulting in the speed of traffic coming over the hill on Tavern Hill Road. The change in street layout requires traffic coming out over the hill on Tavern Hill Road into the Town limits to stop and turn onto Skyline Drive, and the traffic circle is located on more of a flat topography with much better sight distance. Ms. Cusick asked about widening Skyline Drive, and Jay McCusker said that would be considered when engineer Todd Wood worked on more construction detail. Bob Browning said there is already a plan to widen N. Cherokee Street coming down the hill from the area already improved closer to US-11E. He said at this point it was a little difficult to determine to extent there will be an additional traffic on Skyline Drive or Tavern Hill Road.

Bryan Barnett asked about the proposed student drop-off areas for car riders which Jay McCusker said was in a peninsula layout and was projected to accommodate 17 vehicles on each side. Mr. Barnett said parents were concerned about this area being covered. Jay McCusker said the design at this point includes the entire drop off area being covered, but the cost of doing that ranged from expensive to very expensive, and we would need to see if the project cost would allow that covering to be included.

Jay McCusker went over the classroom layout for both floors including the new location of the Media Center. He said the Media Center was now on the first floor, just inside the courtyard, in the area of the Related Arts, and it was taking on a much more prominent focus in the building design. Mr. McCusker also pointed out that the stage was now adjoining the auxiliary

gym and not the big gym which is in constant use before, during, and after school. He said the consensus was that the stage in this location would be much more functional, and could possibly be used for band practice instead of a separate band room.

Mayor Vest mentioned that Design Committee members had not received classroom layout schematics that have a color key associated with them that helped show how those spaces might be used. Jay McCusker said schematics with a color key would be sent out to members.

Jay McCusker discussed the courtyard area formed by the u-shaped layout of the school building. He said he thought that this area should be properly designed as a space to enhance learning, and they have discussed the options of including outside instruction areas, a reading porch, nicely landscaped areas that could include plant identification spaces, as well as secure play areas. Mr. McCusker said the area surrounded on three sides by the building was a very safe outdoor area for students. Using a three-dimensional view of the building, he showed an example of how the courtyard area might be developed.

Jan Allen asked about the size of the art room and its potential layout. Jay McCusker said there had not been a full conversation about the art room and the Related Arts spaces. He said the intent at this point was to get the learning areas generally located, and then to work on detailing out the individual areas. Ms. Allen asked about teacher access to restrooms, and Mr. McCusker said there were a number of spaces within the general room layout plan designated as administration that could have bathrooms for teacher use. He said that these restrooms in the teacher support areas would have to be spaced out and easily assessable to the teachers.

Jay McCusker discussed the access points to the school building and the location of the CDC classrooms. He said these classrooms along with the Pre-K area were accessible by vehicle from the bus loop area, and that the CDC classrooms had relatively easy access to the cafeteria. A discussion took place about the overall width of areas associated with the building. Jay McCusker said the building wings would be approximately 80 feet across, and the courtyard would be approximately 100 feet across. The main entrance hallway would be between 18-20 feet across, and the standard corridor would be about 12 feet across.

Bryan Barnett asked about the concession area associated with the gym and whether it would have sales window access into the gym or just to the hallway. Jay McCusker said that they are looking to see how access to the gym might be accomplished, but that the concession access issue became a lot more complicated when considering bleachers, athletic storage, lockers, etc. Laura Cusick said PTA storage was always a big concern to parents, as well.

The upstairs room layout was discussed and the question of student access to the upstairs was raised. Jay McCusker pointed out that there were four sets of stairs accessing the second floor and an elevator. He said, however, for security reasons he felt there needed to be a discussion about how these stair areas were actually used especially before school.

A typical classroom layout was discussed, and Jay McCusker compared a proposed classroom layout in the new Jonesborough K-8 School to the more typical classroom layout used on the more recently constructed county school buildings. He said the bathroom layout has been changed where bathrooms are associated with individual classrooms in the K-4 rooms and not

shared. This change is less expensive and gives teachers better control of restroom use. The layout of the cubby area has changed eliminating the enclosed cubby room that took up space and created control issues for teachers. The cubbies are now open against the wall which provides much better sight access and more control over which students are into which cubby. It also adds to additional actual teaching area. Jay McCusker said the changes in classroom layout provide better security and increase actual teaching area from 754 square feet to 782 square feet, and also increases the size of the classroom storage rooms. A question was raised about the possible use of "pocket" doors instead of regular doors to increase usable area. Tommy Burleson said pocket doors were fine in residential use, but they would not hold up in a heavy use facility like a school. Jay McCusker said a lot of new schools were constructed without the substantial teacher storage areas designed into the more recent Washington County Schools. He said the areas were also used for security (student protection) and were a major asset. Mr. McCusker said that there was less counter space in the revised classroom layout, but that administrative feedback has been that teachers tended to only use the counters for surface storage, and the bigger storage areas were much better places for materials to be placed.

Jay McCusker showed an outside elevation of what the courtyard could look like, and he showed an inside elevation of what the main entrance area by the administration area might look like. Bryan Barnett said he felt it was important to preserve flex spaces within the school, and to avoid highly congested areas within the school.

Dr. Flanary asked about the Administrative area and whether the space needs were considered for all of the functions taking place within the administrative area including the SRO. Jay McCusker said they have been using the layout of the administration area at the Boones Creek Elementary as a guide, but they would be focusing on those needs in much more detail when they completed to general building layout. He said they will be getting back to the School System personnel to review the more detailed layout to ensure the needs are being addressed.

Mary Beth Dellinger asked about safety associated with the CDC area and Jay McCusker said the outside area will be secured and enclosed.

A discussion took place on the Design Committee schedule as well as the projected construction schedule. Jay McCusker said they were operating with the following projected schedule:

Schematic Design (current phase) to be completed:	November, 2020
Design Development:	February, 2021
Construction Manager (contractor) at risk selection at 50% Constr. Drawings)	April, 2021
Construction Documents	June, 2021
Construction	July 2021 – May, 2023
School Opens	August, 2023

Bob Browning went over the use of term construction manager and said that the bid process would actually be initiated about half way through the development of construction drawings. With the assistance of Burleson Construction (construction advisor) the Town would select the contractor that will build the building. The contractor selected will work with the Design Team and the Construction Advisor to complete the design drawings in a manner that the contractor

will be able to submit a guaranteed maximum price within the funds available. Bob Browning said the purpose of the process was to do the value engineering as design was underway in order to bring the project within the funds available. Value engineering after the bids were received was much more likely to result in a major loss of quality when forced to reduce costs. A question was raised about the adequacy of the contingency available in the budget ($570,000). Jay McCusker said the figure was acceptable to Rural Development, and that the process resulting in a guaranteed maximum price for the building construction greatly reduced the need for a substantial contingency.

A discussion took place about the next steps in design and the issues intended to be addressed at the October meeting of the Design Committee. Jay McCusker said they want to finalize the schematic design that will allow them to start detailing the layout of all rooms and better address outside areas around the building. It will also help Burleson Construction with cost projections. He said the next phase in design is when they address the problems.

Chairman Chuck Vest asked members about the meeting date in October, and it was decided to meet on Wednesday, October 28th, at 4:00pm, at the Visitor Center. Mayor Vest thanked everyone for their participation.

Meeting ended at 5:45pm.

Design Committee
New Jonesborough School K-8

AGENDA PRESENTATION

DATE: October 28, 2020 **AGENDA ITEM #:** 2

SUBJECT: Update on Agreements/Funding

BACKGROUND:

The revisions to the Lease, Inter-Local Agreement, and Intent to Accept Title documents have been approval by the County Commission, Washington County School Board, and Jonesborough Board of Mayor and Aldermen. The funding from Rural Development has been secured for the project at 2.25%. With the signing of the documents we are proceeding with obtaining the interim financing needed for the project. We are expecting to close on the interim financing on October 29th, which will be the entire $32,750,000 to make payments during construction at an interest rate of .92%. The interim financing gets paid off by the Rural Development bond which is issued at the end of the project. We only pay interest on the interim money drawn down. Interest on the Rural Development bond is not paid until the bond is issued after the project is complete. This is mentioned because the Rural Development funding process is different from a traditional bond.

Design Committee
New Jonesborough School K-8

AGENDA PRESENTATION

DATE: October 28, 2020 **AGENDA ITEM #:** 3

SUBJECT: Design Update

BACKGROUND:

Jay McCusker, Aaron Bruno, and Shelby Mitchinson of Clark Nexsen (KRA) Architects will be using a Powerpoint presentation to provide the Design Committee an update of the classroom layout of the school building, as well as some concepts of the design features associated with the external look of the building.

Classroom Layout – There has been continued work on exploring the details of room relationships and functions that impact the locations of certain classrooms, and their relationships to restrooms, the cafeteria, gym, administration, etc. One major change has been moving two science rooms that were located on the second floor above the administration area down the hallway to where they are now over the media center. This helps the layout of the administration area below, and allows for some additional square footage in rooms on the second floor wing where the science rooms were originally located. This change does not impact the overall square footage.

More details are being sought that will help define actual space needs. For example, in looking at the band room space needed, the issue is raised about the number or students typically in band, and how often the band room is needed for practice. Jonesborough Middle School apparently has 20 students in band. We have found in some locations the large band room is only used one or two hours a day. Discussion is taking place about using the stage for band practice. It is also a somewhat large space that is not used frequently during the school day. That would free up a lot of additional space.

We have sent out some questions to the School System seeking as much detail as possible on certain area functions that will hopefully ensure we are addressing the operational needs of the school. I am sending you a copy of the correspondence to see where we are headed. We will meet with key personnel to discuss needs in more detail. This is the information we especially need during Design Development.

Structural/Mechanical – Working with the consulting engineers and Burleson Construction, there have been some important decisions made regarding the roof structure and the HVAC. The plan now is for a flat roof which will greatly simplify the roof structure and reduce cost. In-depth discussions include Philip Patrick, and all agreed wasted space with a gabled roof would be eliminated, and the open flat roof would establish a very good location for HVAC units and their maintenance. In some

area schools, HVAC space is associated with the internal layout of each classroom, and inside units have to be worked on in or at the classroom. Also, when large "chillers" are used that serve the entire school, when a chiller goes down and there is only one, there is no heat or cooling in the entire school. With the HVAC system selected, there will be one complete unit on the flat roof for each classroom and no inside units. The units will be placed on the roof above classrooms and the only addition is ductwork going down directly into the classroom. Access will be provided to the roof for maintenance, and that all takes place outside of the building. Compressors can be changed efficiently without having to climb into attic space, and a couple of back-up compressors can be kept on hand to allow for quick repairs when needed. Teachers will have total control of their own room temperature.

The flat roof will have a membrane material. A boardwalk type system will be installed to keep equipment and shoes off of the membrane roof. Phillip Patrick says he has had more problem with leaking gabled metal roofing than he has had with flat membrane roofs. Tommy Burleson says the cost savings with the HVAC system proposed will be significant.

With HVAC units on a flat roof, the architects are looking at sight views from different angles. We don't want the school to look like Walmart from II-E as you pass by with all of the HVAC units on top of the roof. The main area of concern is looking at the school from the traffic circle area and the top access points. Clark Nexsen is looking at parapet walls in the building roof design to hide the HVAC units on the roof. They have a program that models sight views.

As you can see from the questions being asked, we still have information to collect before detailing out various spaces within the school. Again, the detailing on room interiors and space relathionships normally takes place during the Design Development phase which is supposed to begin the second half of November.

If Design Committee members have comments or questions about the function or layout of certain spaces within the school, it will be helpful to bring those up in the meeting or email them to us.

Design Committee
New Jonesborough School K-8

AGENDA PRESENTATION

DATE: October 28, 2020 **AGENDA ITEM #:** 4

SUBJECT: Agriculture Learning Center and Outside Facilities

BACKGROUND:

We have previously discussed the value of pursuing agriculture-based education associated with the new Jonesborough School. An application for grant funding to construct a separate facility we are calling the Agriculture Learning Center (ALC) and develop a K-8 curriculum was submitted to the US Department of Agriculture for grant funding from a new program that dove-tailed nicely with what we want to accomplish. The problem was the program was a national program funded at only $3 million with a maximum grant of $300,000. USDA received 500 applications and they funded 10, and we were not one of the 10. There are a number of local partnering agencies involved in the planning and are excited about the project, and no one wants to give up on the project.

I have reformatted the USDA application into a better narrative that we intend to send to the Governor and the TN Commissioner of Agriculture seeking financial support for the project. We are not aware of a public school programming in gardening and farming skills with K-8 students, and more than ever young people are determining what their interest areas are at a younger age. The skills taught positively impact all learning disciplines, and there certainly is a need to teach healthier eating through growing and preparing your own produce and food products.

I have attached the revised description of the project for your information. We are currently talking to our new state legislators about the project and need for their support in Nashville. The ALC shows up on the master plan for the 48-acre school site, and the narrative hopefully explains what is intended if we can get it funded. It is not part of the school funding other than the grading that would be undertaken for the entire site. Water and sewer will be coming by the proposed site for the ALC, and we would stub out connections to the building.

Outside Facilities

The design work has purposefully focused on the school building and not outside layout and facilities beyond the previously planning that has taken place. Our goal has been to get through schematic design before returning to outside planning. Fire Chief Fritts and Civil Engineer Todd Wood did meet with the area State Fire Marshall to go over the current layout and access plan for the school. We want to make sure that we did not have to construct a drive all around the eastside of the building for fire safety purposes. We got very positive initial feedback from the State Fire Marshall's office, and the only change communicated was to make the car rider drop-off lane 20-feet instead of 15-feet for better fire vehicle access.

JONESBOROUGH AGRICULTURE LEARNING CENTER
PROJECT PROPSAL

The Town of Jonesborough is partnering with the Washington County School System and local agriculture based agencies to develop an Agriculture Learning Center (ALC) in association with the construction of a new Jonesborough K-8 School currently in design. Funding is being requested to assist in the construction of the Agriculture Learning Center building that will be a separate facility from but in very close proximity to the new Jonesborough School. An agriculture based curriculum will be developed for K-8 students resulting in on-going instruction during the day while school is in session. After hours, weekends and in summer months the ALC will be used by various partnering agencies to undertake educational programs for all ages, teaching gardening and farming skills and concepts as well as good nutrition and culinary techniques.

PROJECT OVERVIEW AND GOALS:

The Agriculture Learning Center project is a two-year initiative that, if funded, is intended to be designed in the first half of 2021 with construction beginning in late summer of 2021. The project also includes the development of an innovative curriculum in teaching sustainable gardening and small farming skills to K-8 students as well as good nutrition and food preparation skills. Curriculum development will be undertaken by a collaborative effort of Town, school and agency personnel that have a substantial background in agriculture based instruction. The curriculum team will have the goal of developing a creative educational program for young people that will help establish a sustainable interest in growing their own produce and food products that will continue through the upper grades and as adults. By the time young people reach middle school age, they have established their interest areas. It is important that these young students have the opportunity to learn a wide variety of skills that will help them be more self-reliant, more healthy, more capable of addressing the issues occurring in everyday life, and more knowledge about how to be successful in gardening and small farming.

It is expected that the Agriculture Learning Center will be constructed and available for use by the summer of 2022 before the completion of the Jonesborough K-8 School scheduled for August, 2023. This will allow the facility to be used by partnering agencies, and provide time to properly prepare outside growing areas, equipment acquisition, and functionality testing of the facility and curriculum before students enter the new school building. More specifically, the Agriculture Learning Center (ALC) is being developed as the "home" facility to undertake the following activities:

Construct a building that becomes the Jonesborough Agriculture Learning Center for the purpose of establishing a top-notch facility to facilitate training of children and adults in agricultural skills and concepts with the intent of creating sustainable sources of healthy food products.

- The Town will facilitate the input from the project partners into the ALC design to ensure the facility provides the agricultural building amenities that foster the best learning environment. Project management will also be provided by the Town to make sure a quality contractor is obtained to construct the ALC, and Town staff will be responsible for overseeing the installation and construction of the demonstration technology facilities.

The components of the ALC building will include the following:

a. A walk-in cooler
b. Small commercial kitchen
c. Classroom area with technical connections
d. Potting shed area
e. Covered but open pavilion area
f. Storage room
g. Restrooms

During the numerous interactions among the project partners in developing all aspects of the ALC building design, construction and programming, the partners will develop a schedule of facility use that accommodates all participants and maximizes use the new instructional facility.

Develop a K-8 curriculum in teaching farming and gardening skills that helps school age children become familiar with growing skills and concepts that help them develop an interest in farming and gardening with the intent of creating future local farmers, and at the very least master gardeners that become a source of locally grown healthy food products and beautification efforts in Washington County and the region.

- The Town will work with project partners to develop an appropriate curriculum for teaching k-8 students about gardening, nutrition and cooking skills. Partners will research any similar programs, whether school sponsored or through any government or non-profit organizations from across the country, to develop a resource compilation of best practices and innovative activities that will help create a highly effective and creative K-8 curriculum. The curriculum developed will be submitted to the Washington County Schools and the TN Department of Educations for review and approval. Teachers undertaking the ALC program will be trained in all aspects of the curriculum before the Center is opened to students. The K-8 curriculum developed will be made available to any other school program in Tennessee interested in teaching agriculture based skills.

Operate a training program for K-8 students that teaches emerging technologies of growing produce and creating food products in a more urban environment including, but not limited to, techniques in raised beds, green walls and container and pot gardening; hydroponics, greenhouse use, community gardening, as well as more typical home gardening and small farm field cropping with the intent of providing hands-on instruction through the in-school program. Also, provide training for older youth and adults when school is not in session. Instruction will take place in a newly constructed facility designed to facilitate in-school and community-based instruction in growing and preparing healthy food.

Establish a training program in developing community gardens, and create a group of student facilitators and instructors that work with various community churches, community centers and organizations with the intent to form a community garden network growing healthy produce that especially serves low income persons and families.

- Project partners will conduct a survey to determine where community gardens exist in Washington County, and make a list of possible locations associated with churches, community centers and other schools that instructors can use to help direct participating students in their planning exercises. The partners will research effective methods of establishing community gardens and the important characteristics of successful community gardens that make them sustainable. Instruction guides will be developed by the partners that will focus on key food production skills that are specifically helpful in a community garden setting. All the information collected and guides developed along with principles learned through the instruction and implementation of the program will be combined into a How-To Manual to possibly assist efforts in other communities.

Create a program within the ALC that trains school age children on the importance of good nutrition. The ALC will include a small commercial kitchen to facilitate instruction. The program will help them learn to prepare and cook healthy meals, with the intent that they learn good eating habits and have the self-reliance to a carry this knowledge and skills into their adult lives. This culinary component of the ALC will also be designed to train interested adults when the K-8 school is not in session.

- Work with the Extension Service, Family Consumer Science Agent, Boones Street Market chef and solicit assistance from other area chefs to develop an instructional plan in the culinary arts to prepare and cook healthy meals that are utilizing the produce and any other food to be grown at the ALC Make initial contacts with consulting chefs to ensure that the small commercial kitchen is developed to be as effective as possible in an instructional environment.

Develop the facility and resources for teacher and volunteer training in order to establish a qualified group of additional instructors needed to sustain an in-school program.

- Partnering agencies will work together to develop a group of possible instructors needed to assist with the ALC programming through a series of possible workshops that provide the educational support that results in a very qualified team of teachers to help carry out the instruction program.

PROJECT NEED:

Jonesborough is the oldest town in Tennessee, established in 1779. It is the county seat of and centrally located in Washington County (1777) which is the first governmental jurisdiction in the nation named after George Washington. For generations, the Jonesborough area has been a source of food for Northeast Tennessee. But things are changing. As Washington County continues to become more urbanized, there has been a serious decline in small farms and even gardening. This is especially true in Jonesborough and larger Johnson City. The three largest employers in the County are within then (10) minutes of Jonesborough, and include East Tennessee State University, Ballard Health Medical Center, and the Mountain Home Veterans Administration complex. The growth and enhancements of these employers have provided a major source of employment and income that has led to subdivision

growth and property value increases that have generated cost-benefit challenges for continued farming. An interesting dynamic associated with the areas close to these major employers is the fact that the areas are designated by USDA as low income with food access problem areas.

As urban growth expands west through the Town of Jonesborough, small farms and gardens are disappearing and now young school age children are much more interested in staying inside and playing video games than learning about where their food is coming from. And more importantly, how easy it is to grow fruit and vegetables. As we become more invested in technology, the self-reliant skills of growing your own vegetables and food products are quickly being lost. Gardening and farming techniques also are changing, and there are emerging technologies that combine cutting-edge science with agriculture that can engage the iPhone generation and provide them with important life skills. Young people are growing up without the opportunity to learn these skills.

There is no long range plan to engage young school age children in learning skills and concepts in growing and properly preparing food at the time in their lives they are developing areas of interest that will greatly influence how they spend their time as adults. There is also no agriculturally based facility in Washington County that is specifically designed to teach "growing" skills and concepts to K-8 students. At the same time there is an immediate need by partnering agencies for facility space designed to provide farming and gardening education and training to older youth and the wider community.

With the continued rise of childhood obesity and diabetes in our area, there is a need for more access to healthy foods and education on to how these fresh food products can be prepared for more healthy living. According to the CDC, almost 38% of Tennessee students are overweight or obese. A diverse population of school age children need to be taught how to grow quality produce and food products, how to use them in the most nutritious way, and to be able to do this whether in a backyard lot or in containers on an apartment porch. In the highly technical world, it is important that youth are given the opportunity and are encouraged through human-to-human engagement to help make their community a better place to live for everyone. And looking to the future, it is important that young people understand the value of small farms, the green space these farms provide, and the quality of life and self-reliance that can be obtained with the knowledge and skills of farming whether as a career or as a part-time endeavor.

THE ORGANIZATIONS INVOLVED IN THE PROJECT

Town of Jonesborough – The Town is seeking funding for the project because leaders recognize the importance of the farm community to the future of the Town and Washington County, and the importance of ensuring that agriculturally based educational opportunities are available to teach our youth how to grow the food we need and what it takes to care for one of the most beautiful areas of America. There is a wide range of skills necessary to successfully operate and maintain a farm operation including soil science and stormwater management, plant science, composting, organic methods in production and pest control, equipment repair and maintenance, and quality financial and business planning. We feel that the teaching of many of these skills to the younger school age child will result in an increase in the number of small growers in

Washington County. However, these skills are also essential in many of the positions established by the Town to provide basic services, care of parks and open spaces, and to maintain quality water and sewer services. It is getting much harder to hire a young employee that has any skill set outside the technology involved in cell phones, I-pads and computers.

The Town of Jonesborough provides storage space and public space needed for the Jonesborough Farmers Market, and leases the building for $1.00 a year that houses the Boone Street Market, the year-round market for small producers to sell local produce and food products. The Town of Jonesborough has staff with years of experience in project management and has a Town Recorder who is a CPA and has years of experience in financial management of state and federal grants. The Town will provide project management for construction components of the project, and will facilitate the involvement of the project partners in the curriculum development as well as the effort to establish a program coordination plan among the agencies. Key Personnel: Glenn Rosenoff: Town Administrator – years of planning experience in and experienced management and administration. Abbey Miller: Town Recorder and CPA, 18 years of financial accounting experience as Jonesborough's Town Recorder, and previously a government auditor. Bob Browning: Project Manager with 30 years of experience in grant management.

Appalachian Resource and Conservation & Development Council: ARCD has 25 years of experience on working with the agricultural community providing education to farmers and ranchers, promoting farmers markets, and measuring the capacity of the regional/local food systems. Because the organization services a region with a poverty rate higher than the national average, it operates under the belief that conservation of our natural and environmental assets, including agricultural assets, leads to regional prosperity. ARCD operates the Field School which is a beginning farmer business training program. The Winter Business Intensive component of the Field School is accredited by the TN Department of Agriculture. The ARCD is the first and only program outside of the UT Agriculture Extension Program to be accredited. ARCD also operates a Build It Up East TN program providing gardening education and material support for backyard, community, and school gardens.

ARCD will assist in curriculum development of the K-8 agriculture curriculum for students in the Jonesborough K-8 school, and they will assist in the development of at-home gardening projects undertaken by students involved with the agricultural instruction that want to carry out a project with their family. In addition, the ALC is being designed to be an excellent facility to carry out Field School workshops and training after school, weekends and during the summer. Key Personnel: Susan McKinney, Executive Director: Susan is a native of Washington County who has a Masters of Public Administration and Bachelor of Fine Arts degrees from East Tennessee State University and a Masters of Arts Administration from Savannah College of Art and Design. She grew up on a family farm that raised cattle, honey bees, and fruits and vegetables. She became involved in ARCD through the Field School which led her to develop her family farm into a market production endeavor growing chemical-free fruits and vegetables. Lexy Close, Beginning Farmer Services Director: Lexi is also a native of Northeast Tennessee with a Masters from Clark University. She is focused on sustainable agriculture and co-founded the "Build It Up East TN" program which helps

families in low income neighborhoods establish gardens in their own backyards. She is also the program director of ARCD's Field School.

Washington County Schools: The Washington County Department of Education is highly supportive of the development of the Jonesborough Agriculture Learning Center as part of the new Jonesborough K-8 school complex. Immediately adjacent to the location of the new school, the ALC will be available to supplement science instruction, and the agriculture-based curriculum will compliment and facilitate learning in all disciplines. Washington County Schools will provide leadership in operating the ALC, and provide staff input into the curriculum development and facility management. Key Personnel: Dr. Bill Flanary, Director of Washington County Schools: Dr. Flanary was an agriculture instructor for most of his career in the Washington County Schools and is an enthusiastic supporter of the development of the Agriculture Campus and Learning Center and its purpose. Ryan Arnett, Agriculture Instructor of Agriculture at David Crockett High School: He was runner-up teacher of the year in grades 9-12 in FY 2019-20, and led his high school squad to win the Tennessee State Envirothon Competition championship this last year. Envirothon is a competition in environmental science and resource management, and Crockett HS's state championship was the first time in 23 years a Northeast Tennessee School was eligible to go to the Nationals. Josh Conger, Agriculture Instructor at David Crockett HS: Ran his own landscaping company for many years, and is currently assisting Jonesborough in the development of water features at the Town's new Lincoln Park and the new Dog Park.

Grand Oak Farm and Green Earth Connection: A farm and consulting company run by Dana York. Grand Oak Farm has been in her family for 9 generations, even before Tennessee became a state. The farm operation is a Certified Naturally Grown farm that produces vegetables, cut flowers and hay. Dana is an outstanding teacher of emerging farm techniques and concepts. Key Personnel: Dana York: Farm owner with 34 years with USDA's Natural Resources Conservation Service, past president of Jonesborough Locally Grown, and lead instructor with ARCD's Field School. Dana has an Agriculture/Vocational Education degree and a masters in Organizational Psychology. As the Associate Chief for NRCS in Washington DC, she managed a 3 billion-dollar budget and oversaw the leadership team, agency programs, and 7000 employees. Dana will provide her years of experience into curriculum development and the design and construction of the ALC.

Washington County – UT Extension Service: The local comprehensive extension service operation managing the 4H program for youth, and an on-going schedule of workshops and classes in farming, consumer sciences, and agriculture. The Extension Service will be a great resource in instructional activities for youth, and the ALC will be available for their programming. Key Personnel: Adam Watson: Extension Agent II responsible for 4H youth development and agriculture and natural resources. Elizabeth Renfro: Family Consumer Science Agent. Elizabeth has years of experience in teaching good nutrition, food safety and family financial education.

Jonesborough Locally Grown: Jonesborough Locally Grown is the 501(c)(3) organization that created and directs the Jonesborough Farmers Market and the Boones Street Market year-round outlet store. The Jonesborough Farmers Market serves local growers within a 100 miles radius of Jonesborough and allows members to

only sell what food products they have grown or produced themselves. Jonesborough Locally Grown has connections to area farmers who can be helpful in enhancing instruction and hands-on learning opportunities, and the organization can be an excellent resource in marketing and selling produce and food products grown through the ALC programs. They are also active in facilitating donations to the Jonesborough Food Pantry. Key Personnel: David Phillips, Boones Street Market Manager: David is a trained chef having been chef of his own restaurant and manager of a number of others. He is a great resource in healthy culinary practices using local food products. Karen Childress: Marketing Coordinator; Karen is one of the co-founders of Jonesborough Locally Grown and the force behind the Boones Creek Market. She is an excellent resource in communicating with the local growers that exist in Washington County, and a great cheerleader in encouraging new growers in the area and helping them market their food products.

Washington County Soil District: A board of county farmers excited about the ALC project who want to assist in soil conservation education and outreach using the District's Enviroscape model which can be incorporated into the ALC curriculum. The SCD, with an office in Jonesborough, is also highly likely to use the ALC for their education programming. Key personnel: Roy L. Gillis, Chairman. Roy is a long-time educator in the County. Rebecca Carr: District staff: Rebecca has led much of the District's environmental education efforts.

Natural Resources Conservation Service: NRCS has the mission of "Helping People Help the Land". The local NRCS also with an office in Jonesborough is excited about the opportunity to work with their partner, the Soil Conservation District to implement the ALC and provide technical assistance on the layout of the growing areas and other practices on the school grounds, as well as the K-8 curriculum. Key Personnel: Greg Quillen: District Conservationist, a great source of technical knowledge and skills on small and large county farms.

SUSTAINABILITY: Jonesborough's project to develop the Agriculture Learning Center becomes largely sustainable once the building and the associated outside facilities and areas are completed. The program will be incorporated into the curriculum of the adjoining K-8 school, and the after-school hour use will be with partnering programs that greatly benefit from their access to a facility designed specifically for comprehensive agriculturally-based instruction. The only need to make the program totally sustainable is the funding for in-school instruction and materials and supplies. There will not be an issue with the availability of highly qualified instructors capable of working with young students. Jonesborough has a history of community support for programs that enhance the quality of life. The community will cover the expense of supplies and materials needed for the program, as well as the cost of instruction, if instruction is not covered by the Washington County Schools.

Bob Browning

From: Glenn Rosenoff
Sent: Thursday, October 22, 2020 9:52 AM
To: D. Todd Wood; Bob Browning; 'Jay McCusker'; 'Aaron Brumo'
Subject: RE: Jboro School and Fire Marshall

Great news!

From: D. Todd Wood <todd@dtwoodengineering.com>
Sent: Thursday, October 22, 2020 8:30 AM
To: Bob Browning <BobB@jonesboroughtn.org>; 'Jay McCusker' <Jay.McCusker@clarknexsen.com>; 'Aaron Brumo' <ABrumo@ClarkNexsen.com>
Cc: Glenn Rosenoff <GRosenoff@jonesboroughtn.org>
Subject: Jboro School and Fire Marshall

Phil (Fire Chief) and I met with Joseph Strong, State Fire Marshall, this week while he was in Town regarding the school to mainly discuss fire access issues. We wanted to be sure we were not going to need additional drives around the building.

The brief meeting went very well with following summary:

1. Overall the plan looks good-better than the Boones Creek School layout.
2. We do not need to be able to access courtyard from the exterior with emergency vehicles since building is 2 story and would be within fall zone of the building. EMS can access through school.
3. Both he and Phil liked the idea of having the FDC, riser room, etc. near the short loading drive off of the bus loop near the cafeteria.
4. We don't need an additional drive or an extension of the loading area mentioned in 3 above as long as we at least have hard packed soil with grass along the side of the school adjacent to the play area/fields/open space. Or we can widen trail in this area a little more for an ambulance or tanker to access the play area/fields/open space. Probably best solution is to make sure the soil along one side of the trail is compacted well and the flat portion wide enough that the vehicle could travel part on the trail and part on the grass
5. The 15' drop-off lanes across front of school will need to be 20' for fire access.

I'll be updating the site plan soon with these items plus what Jay, Aaron, and I discussed recently.

D. Todd Wood, P.E.

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DTWOOD
ENGINEERING, INC.

Design Committee
New Jonesborough School K-8

AGENDA PRESENTATION

DATE: October 28, 2020 **AGENDA ITEM #:** 5

SUBJECT: Next Meeting

BACKGROUND:

We will run into Thanksgiving in November and Christmas in December when looking at our next meeting. Because schematic design is intended to be complete towards the end of November, it would be helpful to have one more meeting in 2020. If members could meet Wednesday, December 2nd, that should allow for the completion of schematic design, and not compete with the holidays at the end of the year.

RECOMMENATION:

Determine the next meeting date.