



Crabtree, Rohrbaugh & Associates

KARNS CITY
AREA SCHOOL DISTRICT

ARCHITECTURE /
ENGINEERING SERVICES
CHICORA ELEMENTARY
DECEMBER 3, 2020

1 PROJECT SCHEDULE

2 DESIGN PHASES

3 SCHEMATIC DESIGN

① PROJECT SCHEDULE

PROJECT SCHEDULE – DESIGN PHASE

July – September 2020

Programming / Preliminary Design

October – November 2020

Schematic Design – “*Exploration*”

December – February 2021

Design Development – “*Refinement*”
Act 34 Public Hearing

March – April 2021

Construction Documents – “*Preparation*”

Note:

- *Board Action required at end of each Design Phase*
- *Schedule is pending Municipal and Regulatory Agency Approvals*
- *Estimated Start of Construction in July 2021*

BOARD UPDATES & APPROVALS

December 3, 2020	Board Approval: Schematic Design
January 11, 2021	Board Review of Building DD Phase
February 8, 2021	Board Review of Building DD Phase
March 8, 2021	Board Approval: Design Development & Act 34 Booklet
April 12, 2021	Board Approval: Release Project for Bidding
May/June 2021	Tentative Bid Receipt
June 2021	Board Approval: Intent to Award
July 2021	Issue Notice to Proceed: Start Construction

ACT 34 PUBLIC HEARING SCHEDULE

Step #1

Board Approval of Maximum Building
Construction Cost / Review Draft Act 34 Booklet

Step #2

Architect submits Act 34 Booklet to PA
Department of Education for review and
approval to advertise

Step #3

School District and Solicitor coordinate
advertisement 20 days prior to Hearing date

Step #4

Act 34 Public Hearing, conducted by School District,
Solicitor, Architect and Financial Consultant

Step #5

End of 30 day waiting period to compile proof
of publication, written comments and Hearing minutes

② DESIGN PHASES

NOTE: The images in the upcoming slides do not represent the design of the Chicora Elementary School additions and renovations. These example images are used to illustrate project development and detail throughout the various design phases.

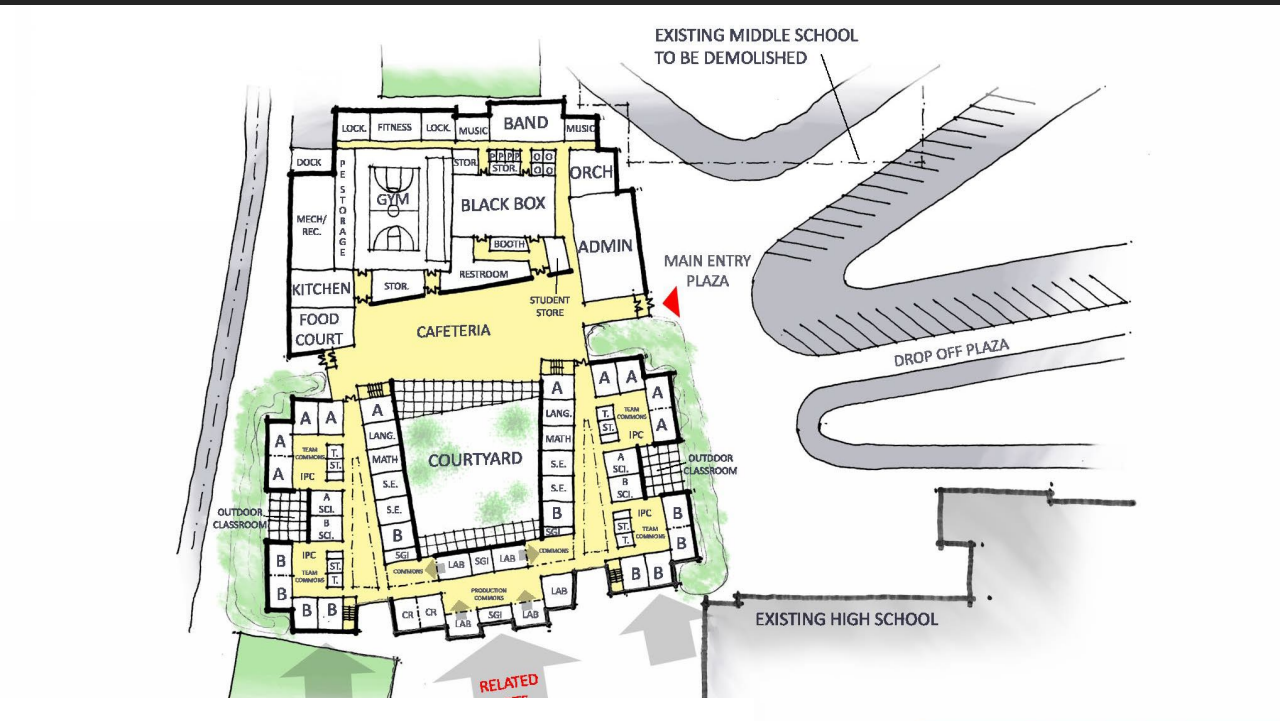
A hand-drawn site plan for a proposed school layout. The plan shows a central courtyard area labeled 'COURTYARD' with a 'CATERING' area and 'OUTDOOR CR.' (Classroom) area. Surrounding the courtyard are various buildings: 'MUSIC', 'FITNESS/LOCKERS', 'Gym', 'ADMIN', 'BLACK BOX', 'REC/MECH', 'KITCH/FOOD COURT', '8TH', '7TH', and 'SPECIALS ART/TECH.'. A 'DOCK' is located near the 'MUSIC' building. A 'BAND LOT' is shown to the right of the courtyard. A 'NEW PARKING & PARENT DROP OFF' area is indicated at the top. Red arrows show the flow of traffic and pedestrian movement. A 'SHARED BUS DROP OFF' area is also marked.

Document Educational Program.

Establish Project Goals and Site Considerations, Site Survey of Existing Conditions, determine necessary approvals.

Establish Building Organization, Prioritize Program and Site Adjacencies and Develop Traffic Circulation.

Develop Floor Plans based on Educational Program and existing site conditions



PROJECT EXAMPLES



Design Development Phase

1. Civil Engineering:

Site design of vehicular circulation, parking, drop-off areas, pedestrian connections. Land Development submission with storm water management plans.



2. Architectural Plans:

Refinement of Floor Plans, final check of Educational Program, meetings with Faculty to develop Interior layouts, establish Floor Plans to begin design of structural, food service, mechanical, electrical and plumbing systems.

PROJECT EXAMPLES



Construction Documents Phase

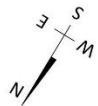
1. Civil Engineering:

Acquire necessary permits and approvals required for construction.

2. Architectural Plans:

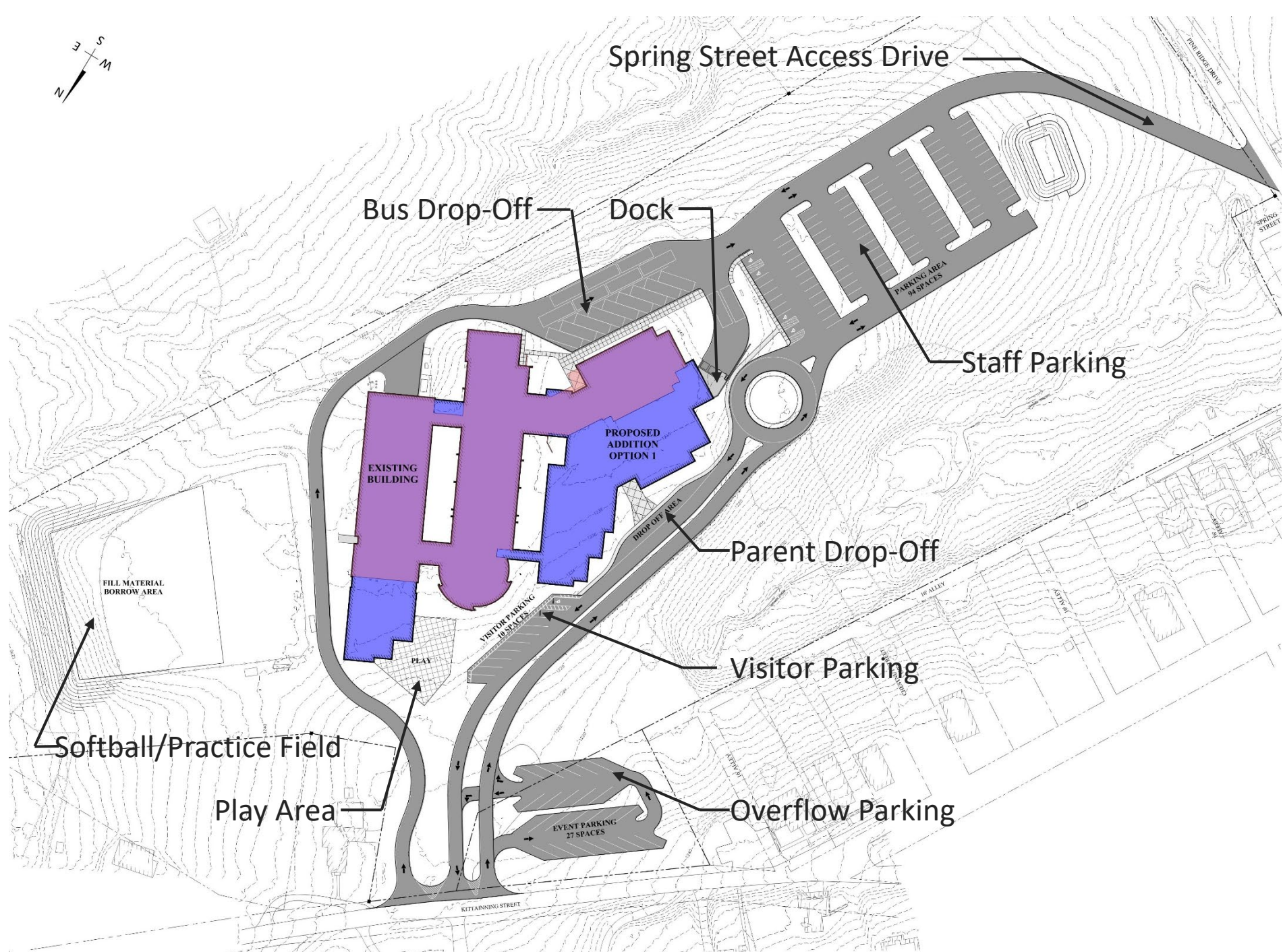
Final production of Construction Documents with coordination and integration of building systems including structural, food service, mechanical, plumbing, electrical and civil engineering.

③ SCHEMATIC DESIGN



Schematic Site Plan

- Existing Building
- New Addition



Educational Program

1. Planned Student Capacity
2. Quantity and Size of Educational Spaces
3. Outline of Support Spaces
4. Needed Adjacencies of Spaces

Crabtree, Rohrbaugh & Associates - Architects 401 East Main Street Mechanicsburg, PA 17055 Maryland • Pennsylvania • Virginia • West Virginia			Project No. 3325 Date 11/12/2020		
Karns City Area School District Chicora Elementary Educational Program of Spaces			675-700		
Capacity Goal			775		
Current Planned Capacity			775		
Kindergarten - 5 CRs			775		
Kindergarten	Classroom	1	25	25	
Kindergarten	Classroom	3	75	75	
Kindergarten	Classroom	1	25	25	
Kindergarten	Classroom	5	125	125	
1st Grade - 5 CRs			125		
1st Grade	Classroom	1	25	25	
1st Grade	Classroom	2	50	50	
1st Grade	Classroom	2	50	50	
2nd Grade - 5 CRs			125		
2nd Grade	Classroom	1	25	25	
2nd Grade	Classroom	2	50	50	
2nd Grade	Classroom	2	50	50	
3rd Grade - 4 CRs			100		
3rd Grade	Classroom	1	25	25	
3rd Grade	Classroom	2	50	50	
3rd Grade	Classroom	1	25	25	
4th Grade - 4 CRs			100		
4th Grade	Classroom	1	25	25	
4th Grade	Classroom	2	50	50	
4th Grade	Classroom	1	25	25	
5th Grade - 4 CRs			100		
5th Grade	Classroom	1	25	25	
5th Grade	Classroom	2	50	50	
5th Grade	Classroom	1	25	25	
6th Grade - 4 CRs			100		
6th Grade	Classroom	1	25	25	
6th Grade	Classroom	2	50	50	
6th Grade	Classroom	1	25	25	
Special Education			100		
K-2 Special Education Class		1	25	25	
3-4 Special Education Class		1	25	25	
5-6 Special Education Class		1	25	25	
Emotional Support		1	25	25	
Sanctuary		1	25	25	
Building Support			100		
Receiving/Storage		1	25	25	
Dock		1	25	25	
Janitors Closet		1	25	25	
1-2 Grade Level Storage		1	25	25	
4-3 Grade Level Storage		1	25	25	
5-6 Grade Level Storage		1	25	25	
Computer Lab Storage		1	25	25	
Emotional Support Storage		1	25	25	
Student Restrooms		1	25	25	
Technology Closet		1	25	25	
Administration			100		
Reception/Waiting area		1	25	25	
Conference Room		1	25	25	
Work Room		1	25	25	
Principal Office		1	25	25	
Asst. Principal Office		1	25	25	
Storage		1	25	25	
Data Closet		1	25	25	
Shared Toilet Room		1	25	25	
School Police		1	25	25	
Nurse			100		
Waiting Room		1	25	25	
Nurses Office		1	25	25	
Exam / Testing Room		1	25	25	
Iso Room / Storage		1	25	25	
Cot Areas		1	25	25	
Toilet Room w/		1	25	25	
Guidance			100		
Reception/Waiting		1	25	25	
Guidance Counselor Office		1	25	25	
File Storage		1	25	25	
Faculty			100		
Reception/Waiting		1	25	25	
Faculty room		1	25	25	
File Storage		1	25	25	
Site Program			100		
1 Parent Drop-Off and Parking		1	25	25	
2 Bus Drop-Off		1	25	25	
3 Maintain Softball Field w/ADA access - Base Bid. New practice (Soccer) Tr		1	25	25	
4 K-3 Playground fenced in. Playground - reuse or new?		1	25	25	
5 4-6 Play Area painted on asphalt paving (parking lot?)		1	25	25	
6 Service Road & Loading Dock		1	25	25	
7 ADD Alternate access drive to Spring St.		1	25	25	
Requested Program Adjacencies			100		
1 Administration - Main Entrance		1	25	25	



Schematic Floor Plan

- General Classrooms
- Special Education
- Small Group Instruction
- Music
- Art
- Library/Cafeteria/Gymnasium
- Faculty
- Building Support

KEY PLAN



QUESTIONS?



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