



DESIGN DEVELOPMENT PRESENTATION

NEW BIRDVILLE ELEMENTARY SCHOOL

BIRDVILLE INDEPENDENT SCHOOL DISTRICT

Huckabee



Acknowledgments	2
Narrative	3
Existing Site Plan	4
Site Plan	5
Floor Plans	6-8
Exterior Views	9-11
Interior Views	12-14
Space Program	15
Schedule	16



NEW BIRDVILLE ELEMENTARY SCHOOL
BIRDVILLE INDEPENDENT SCHOOL DISTRICT

Birdville ISD

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Conan Mathson, CCM	Senior Officer – Design & Construction
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Civil Engineering

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Arlington, TX

MEP Engineering

Estes, McClure & Associates
Tyler, TX

Structural Engineering

Huckabee
Fort Worth, TX

Technology/Security

CRUX Technology and Security Solutions
Fort Worth, TX

Interior Design

Huckabee
Fort Worth, TX

Food Service

JMK
Rowlett, TX

ACKNOWLEDGMENTS



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BIRDVILLE INDEPENDENT SCHOOL DISTRICT

Introduction

As part of the 2014 Bond Program, a replacement campus for Birdville Elementary was planned to serve 750 students. Huckabee met with Birdville Elementary staff and BISD administration to develop a program of spaces similar to the existing BISD elementary prototype, held a design charrette, and met with staff again to further develop specific spaces.

Existing Site Conditions

Placing the new building on the existing site poses some challenges, all of which can be overcome with some advanced planning. First, the existing school will remain occupied and in operation while the new school is being constructed adjacent to it. Careful coordination will be taken with BISD and specifically Birdville Elementary staff to prevent the construction of the new building from impeding on the day to day functionality and instructional delivery at the existing campus. Daily access will be maintained for parents, staff and buses.

Second, the new facility is well beyond the required clearance of the adjacent gas well site that is on the west side of Bewley Street. This is equal or better when compared to the location of the existing campus.

Third, addressing current drainage issues and preventing future drainage issues will require thoughtful design within very tight site constraints. The existing site slopes down from the high northwest corner where the existing facility is located toward a point 10' lower on the southeast corner where the new facility will be located. A substantial amount of fill dirt will be required to bring the southeast portion of the site up to grade and allow for proper drainage around the new building. This will result in a retaining wall along the southern property line. An upgrade of the underground storm drainage system and on-site detention will also be required to correct current drainage issues on the site. Discussion with the city is on-going to refine the drainage plans both for during construction and post-construction.

Site Development

The new elementary school will have a prominent presence on Carson Street. The main entrance will face Carson along with the library, administration suite and two-story academic wing. The cafetorium, kitchen and gym will extend along the southern boundary of the site. Parking will be provided at the front of the site for visitors. The majority of this lot will be designated for the Shannon Center across Carson Street as it is used currently. Staff will park in the back inside of the bus loop. Overflow parking for events is still available on the district-owned lot immediately north of the project site that is currently used by Birdville Elementary staff.

Overall site circulation keeps parents and buses separate for peak drop-off and pick-up times. As a result of the traffic study received since the Schematic Design presentation in

October, we are proposing that parents will now enter from the south entry off of Bewley and travel around the Shannon Center parking lot, along the front of the building and around the south side of the building to the cafeteria to drop off their children and then exit onto Bewley Street. This eliminates any additional traffic on Carson and maximizes stacking space on site to around 75 cars. The bus route remains as previously shown. The buses will have their own drive separate from the parents and will enter from the north drive off of Bewley and drop off students in front of the gym before looping back around to exit onto Bewley. The service drive for the kitchen is also located on the south side of the site at the end of the parent lane.

A play area for students on the southwest portion of the site can be accessed from the gym without students having to cross any driveways.

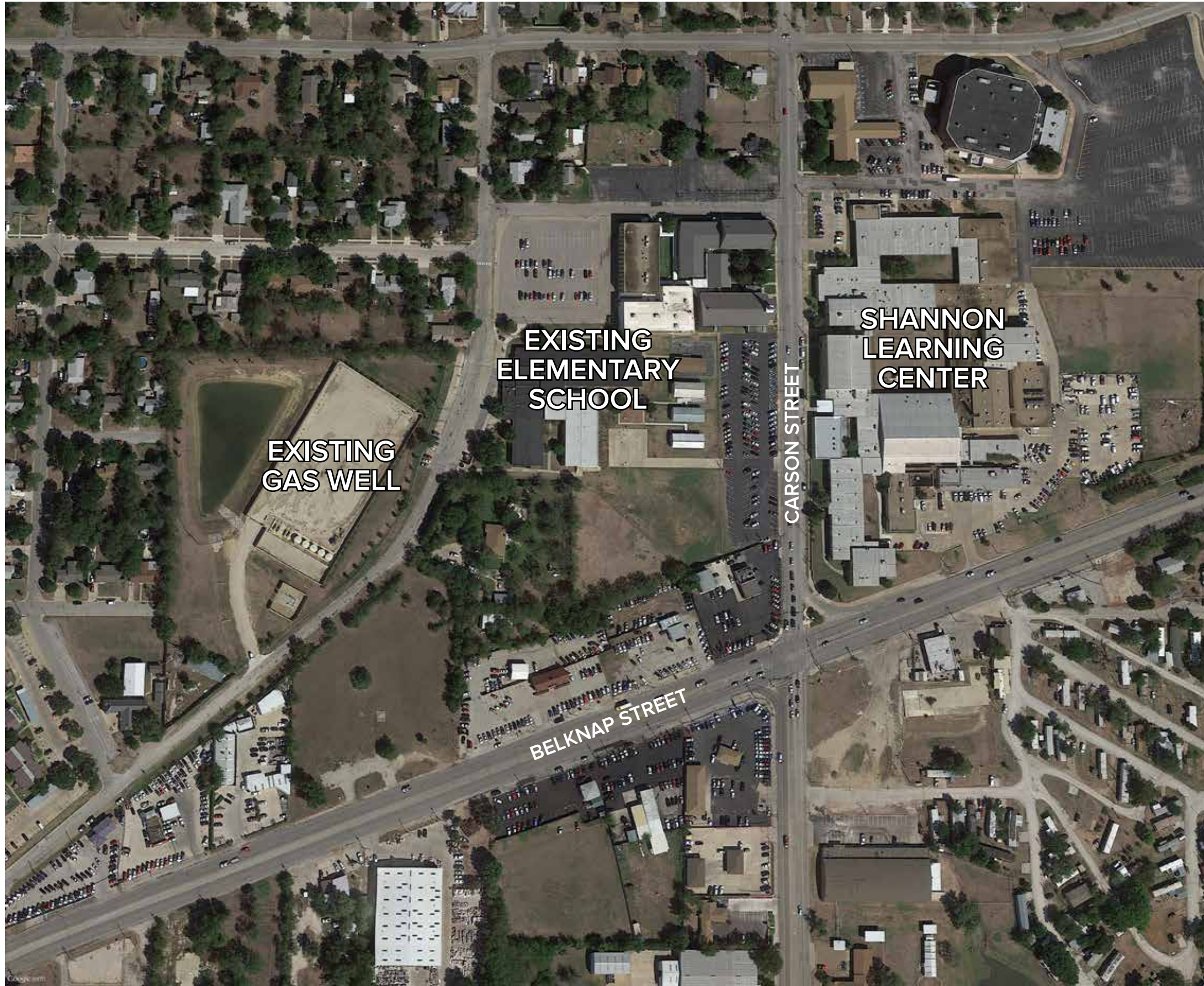
Building

The new facility will be two-stories totaling 90,000SF, designed for 750 students. The main entry provides direct access to the administration suite for visitors to check into the office before being granted access to the campus. The main entrance also provides direct access to the library after hours for community use. This center will be self-contained including a single restroom so that no one will need to enter the remainder of the building. The library is intended to be the learning hub of the school with flexible furniture and technology throughout to accommodate multiple learning settings, formal and informal, for large or small groups or individuals.

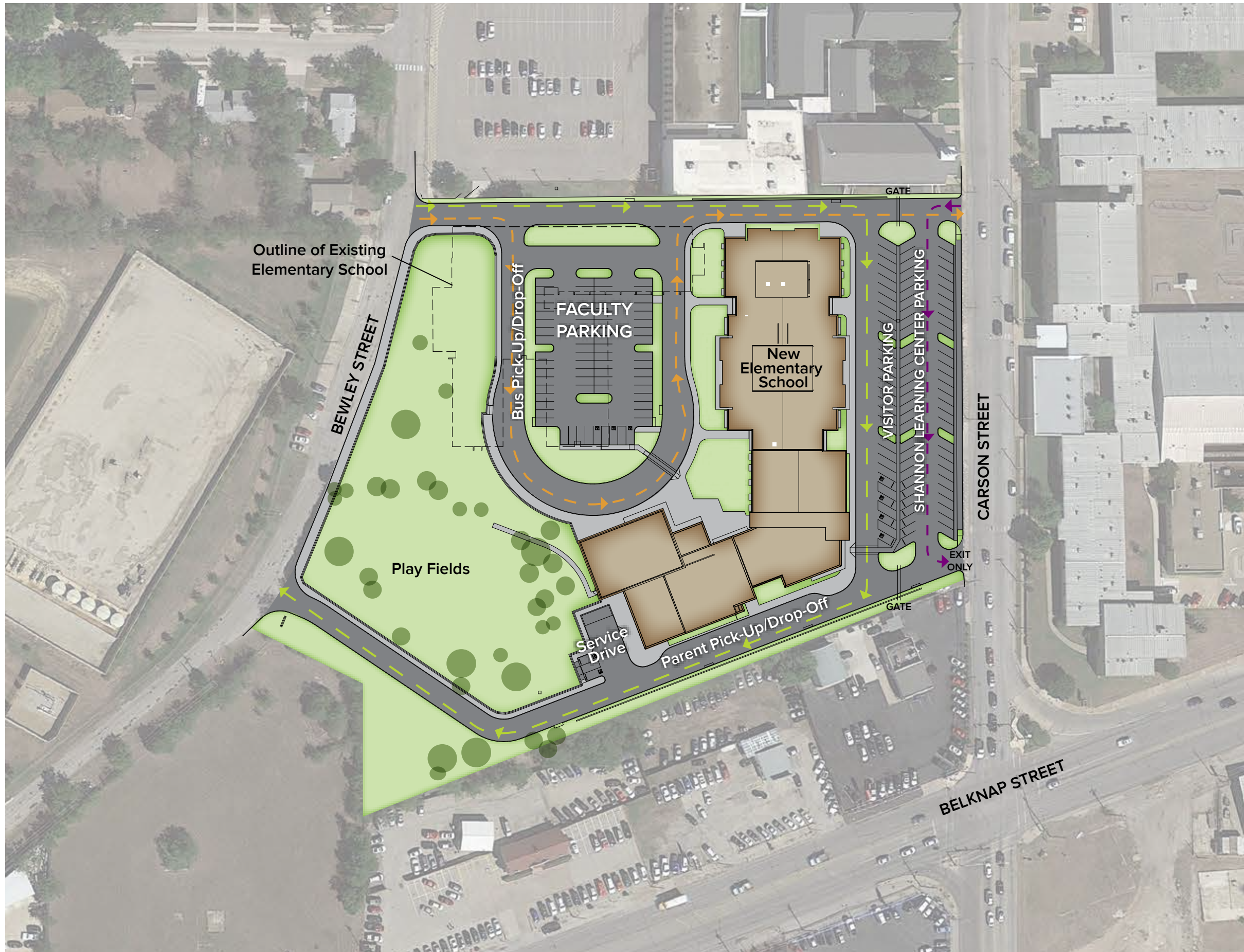
The two-story academic wing is designed for Kindergarten through second grade on the first floor and third through fifth grade on the second floor. One Pre-kindergarten classroom and two ABE classrooms are also on the first floor near the administration suite. Both floors have a science classroom and computer lab for shared use. Due to site constraints, no future additions are planned. However, two extra classrooms on the second floor will allow for some flexibility and growth.

While similar to the current elementary prototype, a few modifications have been made. First, every classroom will have windows for natural daylight. Each grade level is designed as a pod of five classrooms with a central collaboration area. The collaboration area when compared to other campuses has been reduced to the size of half of a classroom and will be more clearly defined and suited for small group activities. This area will have visual supervision from each classroom. It will include a sink with cabinet storage, writable wall surfaces, tackable surfaces and a projector. These spaces will also gain from natural light through a second story clerestory or through a light well to the first floor below.

Down the corridor from the library are the gym on the north side and the cafetorium on the south side. The cafetorium will be supported by a kitchen of the same design as the current elementary prototype. There is convenient access from both the parent drop off/pick-up lane and the bus drop-off/pick-up area for use before and after school. A stage will front the cafetorium for assemblies and performances and can also be accessed from the music classroom behind for student entry.



EXISTING SITE PLAN

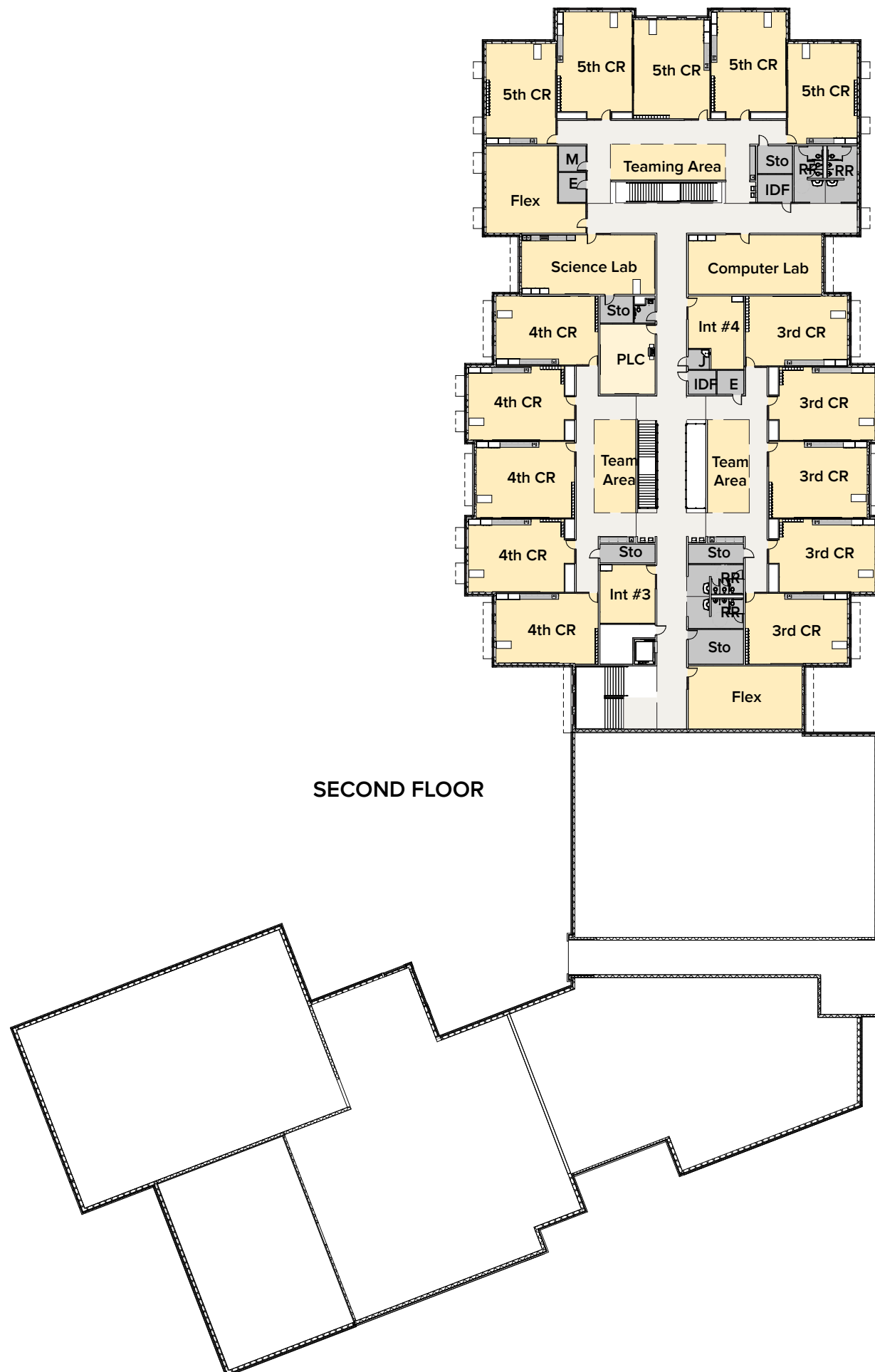
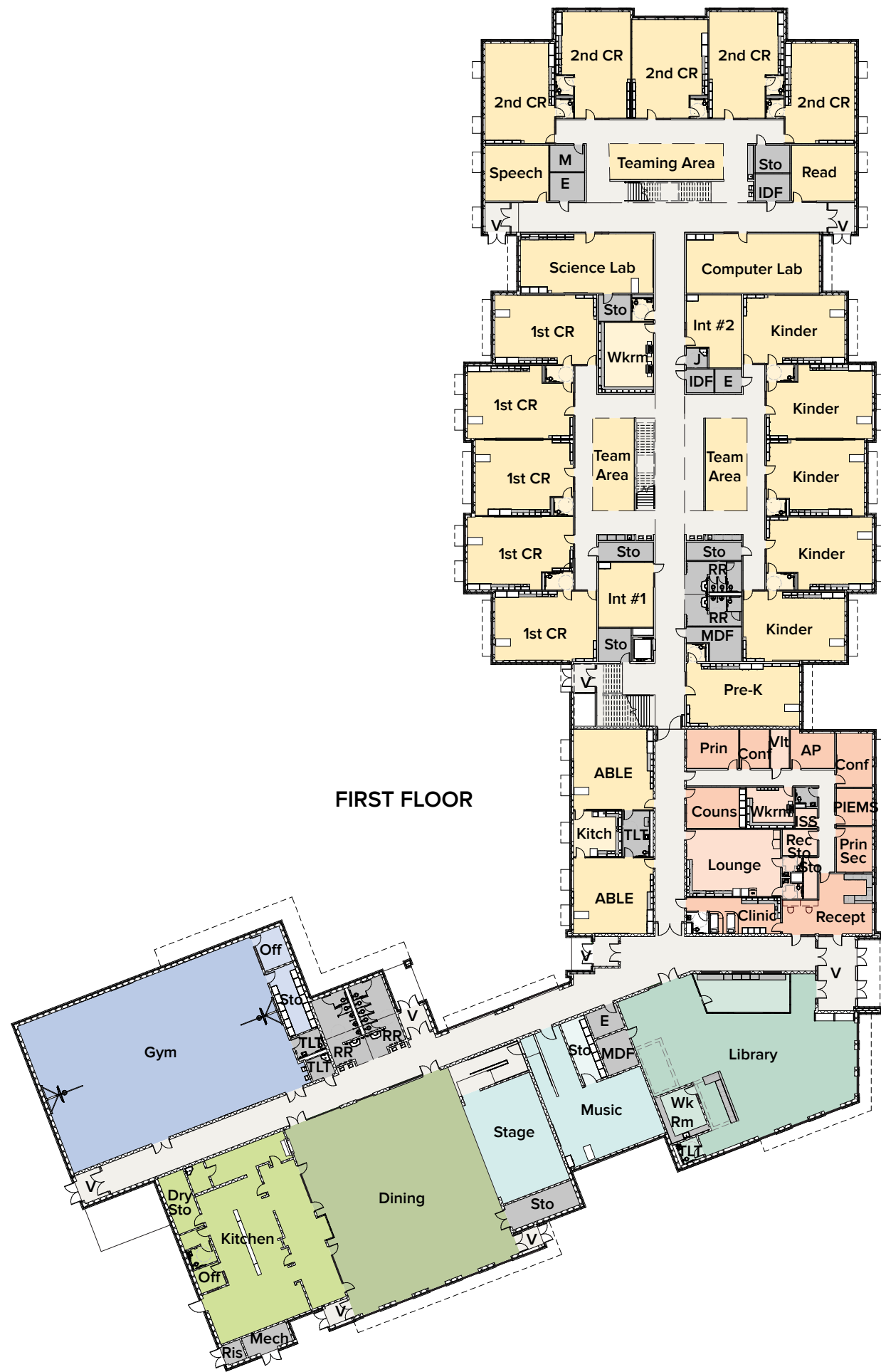


Parking Summary

Visitors	19
Faculty/Staff	81
Shannon Learning Center	66
Total	166



PROPOSED SITE PLAN



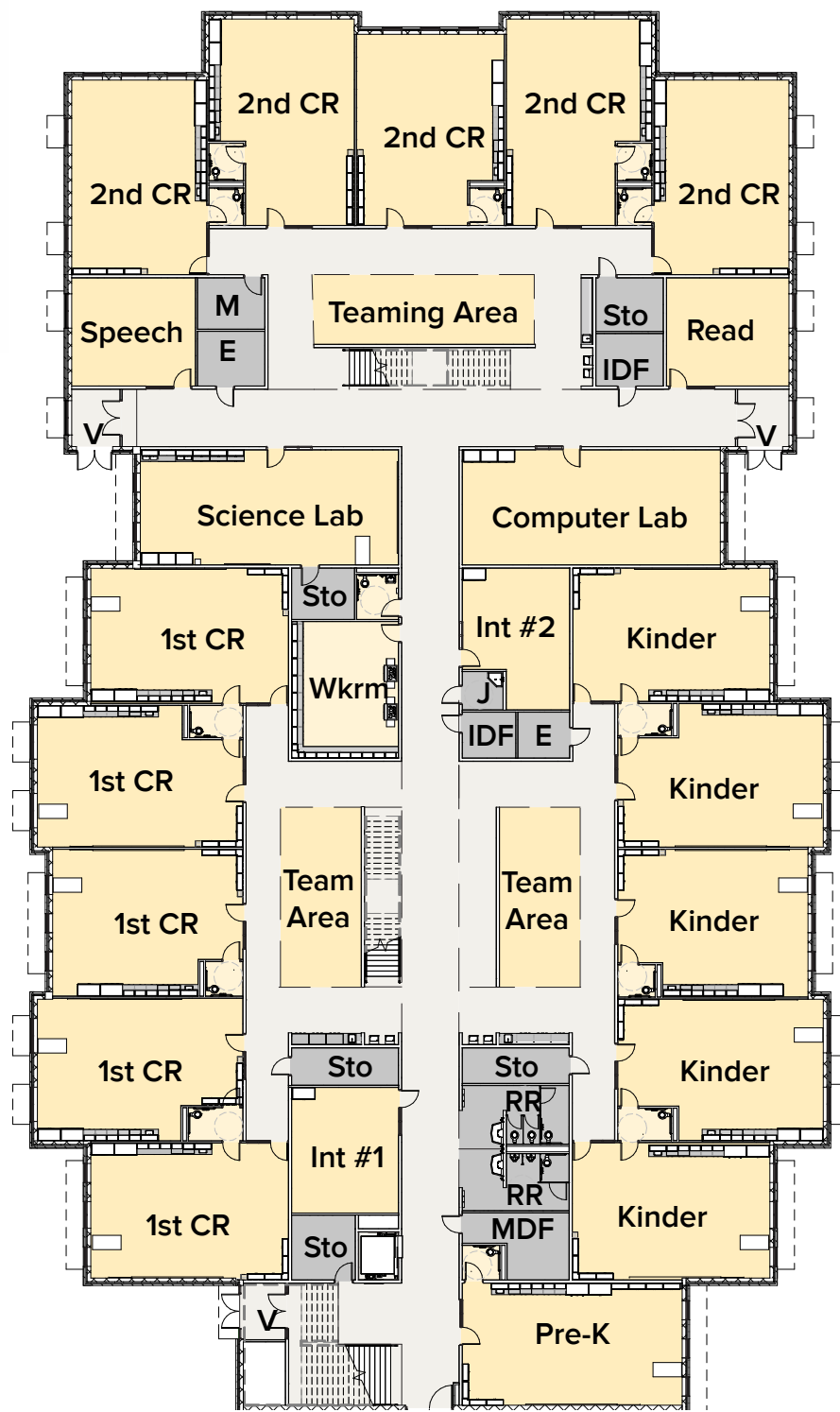
- Academic Space ■
- Athletic Space ■
- Dining ■
- Administration ■
- Library ■
- Circulation ■
- Support Space ■

FLOOR PLAN

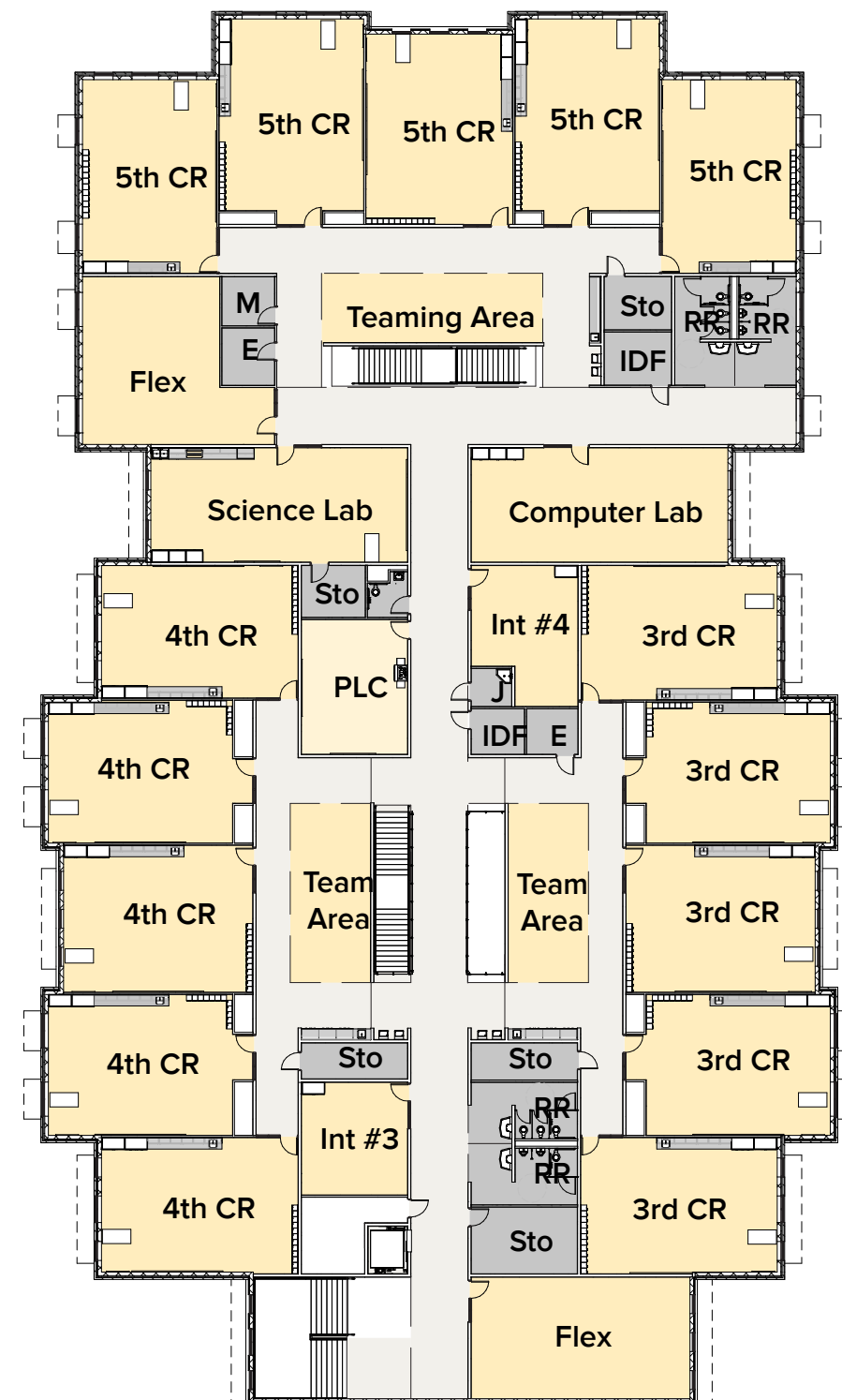


- Academic Space
- Athletic Space
- Dining
- Administration
- Library
- Circulation
- Support Space

ENLARGED FLOOR PLAN - NON-ACADEMIC WING



FIRST FLOOR



SECOND FLOOR

- Academic Space
- Athletic Space
- Dining
- Administration
- Library
- Circulation
- Support Space

ENLARGED FLOOR PLAN - ACADEMIC WING



EAST EXTERIOR VIEW



EXTERIOR VIEW - FRONT ENTRY



WEST EXTERIOR VIEW



INTERIOR VIEW - TEAMING AREA



INTERIOR VIEW - ACADEMIC CORRIDOR

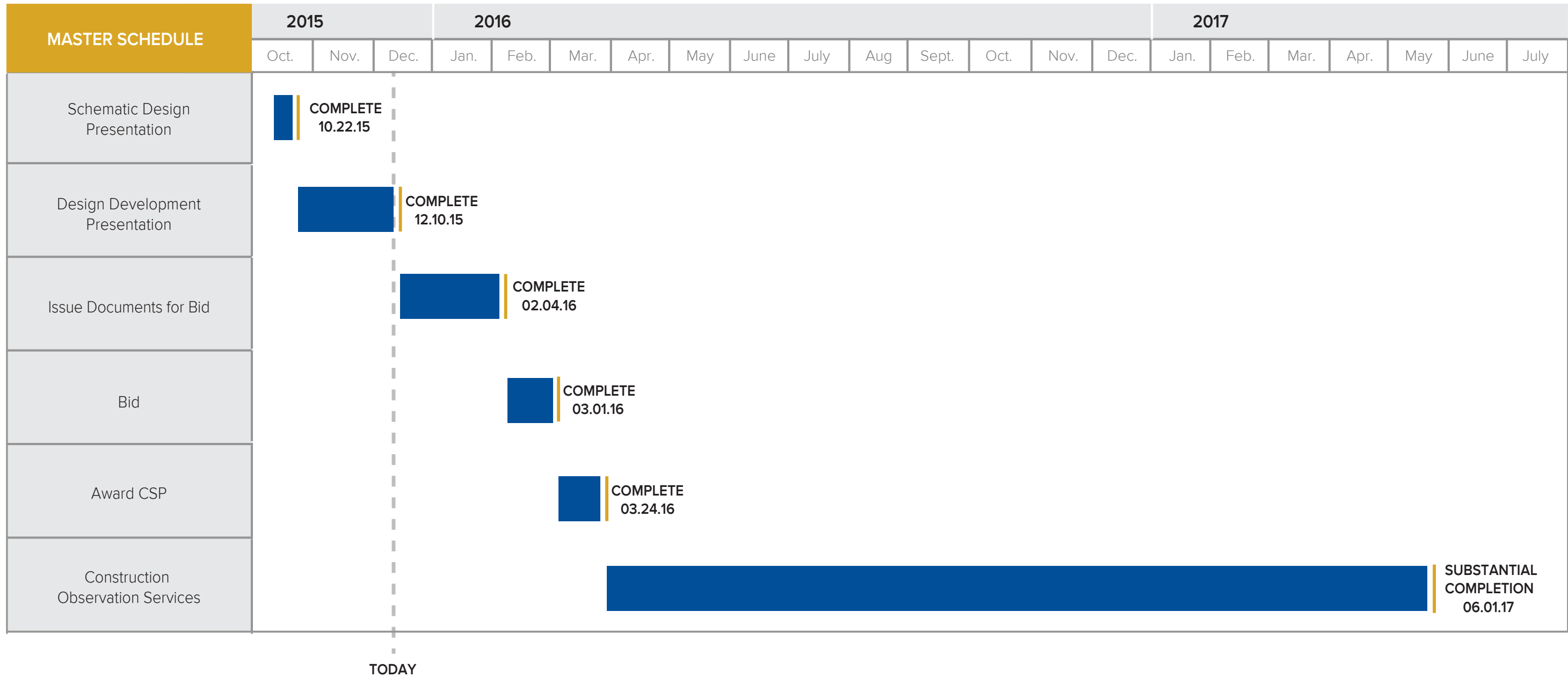


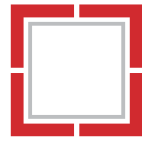
INTERIOR VIEW - LIBRARY

750 Student Capacity (core)		# stations	S.F.	Net Area
INSTRUCTIONAL SPACES				
First Floor (PK, K SPED, Grades 1 & 2)				20,275
Classrooms w/ Restrooms				
Classrooms with In-restrooms	11	810	8,910	
Student Restroom (in-class room)	11	40	440	
Standard Classrooms	5	810	4,050	
ABLE Classrooms	2	810	1,620	
ABLE Student Restroom	1	75	75	
Self-contained(or cool down) space	1	120	120	
Teacher Workroom	1	450	450	
Centralized teaming areas	3	450	1,350	
Computer Lab	1	900	900	
Science Classroom - Lab	1	900	900	
Science Classroom Storage	1	100	100	
Reading	1	400	400	
Speech	1	400	400	
Faculty Rest Rooms	1	50	50	
Custodial	2	80	160	
Storage	1	350	350	
Second floor (Grades 3-5)				19,820
Classrooms				
Standard Classrooms	15	810	12,150	
Flex Classrooms	2	810	1,620	
P.L.C. Room	1	450	450	
Centralized Teaming Areas	3	450	1,350	
Computer Lab	1	900	900	
Science Classroom - Lab	1	900	900	
Science Classroom Storage	1	100	100	
Custodial	2	80	160	
Intervention Rooms (Reading, Math, intervention)	4	405	1,620	
Faculty Rest Rooms	1	50	50	
Custodial	2	85	170	
Storage	1	350	350	
Academic Area Restrooms				1,200
1st Floor	1	600	600	
2nd Floor	1	600	600	
Fine Arts				1,250
Music				
Music Room	1	800	800	
Music Storage	1	250	250	
Ramp/access to Cafetorium Stage	1	200	200	

750 Student Capacity (core)		# stations	S.F.	Net Area
CORE SPACES				
Library				3,750
Stacks	1	3250	3,250	
Office	1	150	150	
Workroom	1	350	350	
Cafetorium				5,230
Dining Area	1	4000	4,000	
Storage	1	200	200	
Stage	1	950	950	
Custodial	1	80	80	
Kitchen				2,700
Preparation	1	1550	1,550	
Dish Washing area	1	350	350	
General Storage	1	250	250	
Dry Storage	1	250	250	
Office	1	120	150	
Locker R.R.	1	150	150	
Gym				5,150
Gym	1	4500	4,500	
Storage	2	200	400	
Office	2	125	250	
Restrooms				750
Cafeteria Gym area	1	600	600	
Staff/guest restroom	3	50	150	
SUPPORT SPACES				
Administration				4,065
Secure Vestibule	1	520	520	
Reception	1	520	520	
Parents Conference	1	125	125	
Principal's Office	1	220	220	
Principals Sec	1	170	170	
Asst. Principal Office	1	185	185	
Conference Room	1	200	200	
Counselor's Reception	1	60	60	
Counselor's Office	1	220	220	
PEIMS Office	1	150	150	
Record Storage	1	120	120	
Admin Workroom	1	225	225	
Admin Lounge	1	720	720	
Admin Toilet	2	40	80	
Clinic with rest room	1	400	400	
Vault (Student Records)	1	75	75	
Admin Storage	1	75	75	
MEP				460
Main Electrical	1	120	120	
Electrical	4	60	240	
Riser Room	1	100	100	
Technology				481
MDF	1	181	181	
IDF	5	60	300	

Subtotal Net Area (s.f.)- Student Restrooms	2,915
Subtotal Net Area (s.f.)- Staff Restrooms	330
Subtotal Net Area (s.f.)- Storage	2,345
SUBTOTAL NET AREA (s.f.)	65,131
Walls & Circulation	22,795.85
TOTAL GROSS AREA (s.f.)	87,926.85





MORE THAN ARCHITECTS