

DIVISION 2

SITE DEVELOPMENT DESIGN CONSIDERATIONS DESIGN GUIDELINES – DUVAL COUNTY PUBLIC SCHOOLS

SECTION 02001

Bus Traffic

Separation between bus traffic, regular vehicular flow, service traffic and pedestrian traffic. Bus traffic must have adequate parking, stacking on the school site, and loading space. Cars should stack on site rather than on city streets where possible. One-way traffic within bus loading zones. Traffic should flow so that the service-door side of the bus is adjacent to the loading zone. A protective 12-foot wide walkway canopy, to serve buses during inclement weather, will be provided. Posts for the canopy will be back 2'6" from the curb. An 8-foot minimum width-Covered Walkway will extend to the building. Length of canopy will accommodate a minimum of three buses.

Bus traffic patterns must preclude the possibility of pupils walking in front of bus vehicles. Bus stacking will be on site where practical and budget allows. Bus drives must not encircle the school or intersect with regular vehicular drives within the school site. All school bus roads entering into or exiting from campus roads or streets will have a 60 foot minimum radius turn on the inner edge of pavement on all curves as required by SREF and FBC. All one-way roads used by school buses within the school site must be constructed with curbs and drainage and be a minimum of 15 feet wide or as required by SREF and FBC.

Provide clear markings (DOT standards) for all access *drives* to facilitate traffic.

Parking, Vehicular Traffic and Pedestrian Traffic

Separate one-way accesses drive near a covered loading area of the school for parent drop-off and pick up of children. The loading area must have a minimum width of 15'-0" and a minimum length of 60'-0" or as required by SREF/FBC. **The covered walkways will be a minimum width of 10'-0". This traffic must be separated from bus traffic. If canopies extend beyond curb line, overhead clearance indicators will be provided.** DCPS preference is that canopies do not extend beyond curb line. Loading and unloading areas for Cafeteria, Custodial and School Supplies - shall be free of student and vehicular traffic. (Separate drive where practical and the budget allows). Provide outside lighting in all parking and loading zones. All new parking lots will have curbs and gutters to meet city standard details and positive drainage. **City of Jacksonville standard "header curb" only.** Refer top the follow tables for Parking requirements:

FBC 423.10.2.8 Minimum parking requirements.

423.10.2.8.1 Faculty and staff. One space for each member.

- 423.10.2.8.2** Visitors. One space for every 100 students.
- 423.10.2.8.3** Community clinics where provided. Ten spaces, including one accessible space.
- 423.10.2.8.4** High schools. One space for every 10 students in grades 11 and 12.
- 423.10.2.8.5** Vocational schools. One space for every two students.
- 423.10.2.8.6** Community colleges. One space for every two students.
- 423.10.2.8.7** Accessible parking. Parking spaces designated for persons with disabilities shall comply with the ADA, Chapter 11 of the Florida Building Code, Building, and Section 316.1955, Florida Statutes.

ADA spaces required per FBC 11-4.1.2

Total Parking in Lot	Required Minimum Number of Accessible Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2% of total
1001 and over	20 plus 1 for each 100 over 1000

Facilities for bicycle parking are required.

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Building Expansion and Re-locatable Classrooms

Design to include for future building expansion and Re-locatable Classrooms and consider grading, circulation patterns and Utility & Technology stub outs.

Service Docks

It is recommended Service Docks be covered or partially covered and Dock height be verified at all condition and locations as not to cause conflicts with service access or delivery of materials and services.

Energy Conservation

Designers are encouraged to consider building orientations and configurations that minimize heat loss and facilitate beneficial solar gain during heating season, allow for natural ventilation and promote natural day-lighting of building interior.

Courtyards

Enclosed Courtyards are not preferred, often present maintenance problems and should be used with great discretion. If used, provide for maintenance access to and do not install large tree planting. Provide hose bibs and adequate sized storm drain structures.

Athletic Facility Requirements

MIDDLE SCHOOL/ K-8:

- A. Football /Soccer-field - to include Bermuda grass, irrigation system, (2) football soccer combination goals.
- B. Baseball field — to include fenced outfield, Bermuda grass infield and outfield with irrigation system, backstop, dugouts and readily available electricity for scoreboard. Provide hose Bibb at home field dugout.
- C. Softball field —to include fenced outfield, Bermuda grass outfield with irrigation system, backstop, dugouts and readily available electricity for scoreboard. Provide hose Bibb at home field dugout.

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- D. Outside running track -should include standard middle school stripping ,400 meter 6 lane, asphalt, one long jump, high jump , discuss and shot put pits.(with safety netting)
- E. Four (4) Outside multi-purpose courts basketball I volleyball.
- F. Electricity must be accessible on all fields for scoreboards, etc
- G. Gymnasium — should include wood full size basketball courts with , glass basketball backboards, padded end-walls at main court only, locker facilities, and volleyball equipment for (1) one court.

HIGH SCHOOL:

- A. Football/soccer field — to include Bermuda grass, irrigation, 2-combination football goal posts/soccer goals. Verify Field house and Bleacher requirements.

- B. Practice field — to include 130 yds. X 100 yds., Bermuda grass, irrigation, 2-combination football goal post/soccer goals.
- C. Baseball field — to include fenced outfield, Bermuda grass infield and outfield, dugouts, irrigation, and backstop. Include top rail protection.
- D. Softball Field — to include fenced outfield, Bermuda grass, irrigation, dugouts, and backstop. Include top rail protection.
- E. Running track - 8 Lane 400 meter with rubberized surface, (2) long jump pits, and pole vault runway, high jump area, discus and shot put pits (with safety netting). Requirements must be verified.
- F. (8) Outside multi purpose courts volleyball / basketball. (verify quantity)
- G. (6) Tennis courts — to include windscreens. (verify quantity)
- H. Concession Stand /Public Restroom and Storage Facility —Building should be positioned to be accessible for football, baseball and softball if possible. (Field positioning will be required to accomplish this.) **NOTE: Special design attention to make public restrooms vandal-resistant**
- I. Gender accommodated field house similar to prototype presently being built.
- J. Gymnasium — should include wood full size basketball courts with motorized (all back boards) glass basketball backboards at main court only, locker facilities, and volleyball equipment for (3) three courts. Wood Floors at main courts and Full width Gym pads .
- K. Electrical sound system must be accessible on all fields and gyms for scoreboards, etc.

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Miscellaneous - Design the following:

Exterior Mechanical Areas to be enclosed as referenced in Mechanical Design Guidelines. Provide reinforced positive draining concrete slab with fenced area with proper sized pads/curbs for equipment mounting. Slope slab away from building. **Main mechanical Equipment Rooms to have exterior doors where possible and all exterior equipment must meet City noise standards. Boiler rooms to have exterior door only.**

Dumpster Enclosures to be designed in keeping with the Building aesthetics. They should be a minimum of 20' wide by 15' deep with a 6" thick concrete slab, on top 6" thick complete apron. Gates fastened to a steel frame. Specify 6" minimum diameter Bollards at both the front and rear of the enclosure and a hose bib.

The following various issues must be addressed in the Site Design of a school. These considerations include:

Main building entrances which are readily identifiable

Building orientations and configurations which conserve energy and allow for natural day lighting and ventilation

The utilization of exterior terraces/patios for outdoor learning areas

Providing handicap accessibility to all Buildings and Play Areas as per SREF, FBC and ADA Requirements

The identification and preservation of natural site features such as wet lands or wooded areas are to be used to enhance Science programs.

Sidewalks are to be provided from all parking lots to the main building and where applicable from the gymnasium to the sports complex. Sidewalks are to be provided at all main fire exits. Use Standard Detail 12001.1 Brick ADA ramp, at all sidewalks

Walkways at building are to be sloped positively to drain outside of the overhang and to meet requirements by SREF/FBC.

END OF SECTION 02001