

**Jefferson County School District No. R-1  
Support Services**

**TECHNICAL GUIDELINES 2007**

**DIVISION 31 – Earthwork  
December 1, 2007**

**Jefferson County School District, R-1 TECHNICAL GUIDELINES  
Division 31 – Earthwork**

**DIVISION 31 – EARTHWORK**

**31 06 00 Schedules for Earthwork - December 1, 2007**

- Grading Schedule

Item	Maximum Slope	Minimum Slope
Driveways	7% (7 feet in 100 feet)	1%
Parking Areas	4% or per ADA	1%
Pedestrian Sidewalks	Per ADA	1%
Pedestrian Cross Slope	Per ADA	1%
Grassed Playfields	3%	2%
Grass swales	9%*	3%
Paved swales	4%	1%
Terraces, Embankments	33%	2%
Playpads, Courts, Tennis	1%**	1%**
10 ft Building Perimeter	25%	5%
Athletic Fields	2.4% ***	1.6%
HS Football:	18 inch crown	18 inch crown

\* NOTE: Not recommended. Where slope of grass swales equals or exceeds 10% slope, provide permanent check dams to control erosion.

\*\* NOTE: Slope end-to-end or diagonally for each pair of courts

\*\*\* Note: Maximum longitudinal field slope if evenly sloped from crown at center of field to ends. If slope is continuous across the length of the field, maximum grade is 1.8%.

END SECTION 31 06 00

**31 22 00 Grading - December 1, 2007**

- Balance cut and fill to the greatest extent possible without compromising specified drainage criteria.
- Export and dispose of debris, organic matter and soil that does not meet specification criteria.
- See 31 06 00 for Grading Schedule

END SECTION 31 22 00

**31 23 00 Excavation and Fill – December 1, 2007**

- Work in this section is open to any product or material meeting the requirements of this Technical Guideline.
- Source of imported structural fill materials is subject to the review and approval of the Geotechnical Engineer
  1. NOTE: Confirm conditions of Geotechnical Engineer "acceptance" of fill materials.

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- a. Testing may be only for expansiveness and exclude capability of material to meet specified structural performance criteria.
2. Verify and enforce actual material sources consistent with approved submittals.
- Submittals
  1. Samples:
    - a. Soil samples per Geotechnical engineer
  2. Test Reports
  3. Closeout:
    - a. Submittals listed above, updated to record status.
    - b. Samples excluded.
- Excavation
  1. Every effort should be made to identify and indicate existing underground utilities and construction on the appropriate drawings.
  2. UNCC and Jefferson County School District, R-1 utility locates are mandatory.
  3. Protect or relocate trees and improvements proposed to remain in the finished construction.
- Fill
  1. Strictly comply with recommendations and reports of Geotechnical Engineer.
  2. Use Standard Proctor curve.
    - a. Use of Modified Proctor curve requires prior approval of Jefferson County School District, R-1
  3. Squeegee:
    - a. Apply to 12 inch minimum thickness at play apparatus areas
- Rock:
  1. Specify with CAUTION!
  2. Size and place rock carefully to avoid locating "projectiles" within throwing distance of buildings, site lighting, etc.
- Compaction
  1. Maximum lift per Geotechnical Report
  2. Preferred compaction method:
    - a. Sheepsfoot roller
  3. Prohibited compaction methods:
    - a. Construction machinery such as bulldozer or backhoe.
  4. Compacted areas should shed water.
    - a. Avoid conditions which can trap water and leech it to adjoining compacted subgrade or pavement.

END SECTION 31 23 00

**31 24 00 Embankments – December 1, 2007**

- Work in this section is open to any product or material.

END SECTION 31 24 00

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**31 25 00 Erosion and Sedimentation Controls – December 1, 2007**

- Work in this section is open to any product or material.
- See 01 41 00 - Regulatory Requirements

END SECTION 31 25 00

**31 30 00 Earthwork Methods – December 1, 2007**

- Work in this section is open to any product or material.

END SECTION 31 30 00

**31 32 00 Soil Stabilization – December 1, 2007**

- Work in this section is open to any product or material.

END SECTION 31 32 00

**31 40 00 Shoring and Underpinning – December 1, 2007**

- Work in this section is open to any product or material.

END SECTION 31 40 00

**31 50 00 Excavation Support and Protection – December 1, 2007**

- Work in this section is open to any product or material.

END SECTION 31 50 00

**31 60 00 Special Foundations and Load-Bearing Elements – December 1, 2007**

- Work in this section is open to any product or material.

END SECTION 31 60 00