WESTHOFF FIRMENTARY SCHOOL PHASE II BUILDING ADDITION

A TRACT OF LAND IN FRACTIONAL SECTION 16 TOWNSHIP 47 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN, ST. CHARLES COUNTY, MISSOURI

HWY 40 SOUTH OUTER LAKE SAINT LOUIS HWY 40

- INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.
- 2) ALL FILLED PLACES, INCLUDING TRENCH BACKFILLS, UNDER BUILDINGS, PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, SHALL BE COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST," (A.S.T.M.-D-1557). ALL FILLED PLACES WITHIN PUBLIC ROADWAYS THE "STANDARD PROCTOR TEST AASHTO T-99, METHOD C" (A.S.T.M.
- 3) ALL TRENCH BACKFILLS UNDER PAVED AREAS SHALL BE GRANULAR BACKFILL, AND SHALL BE COMPACTED TO 90% OF THE MAXIMUM TEST," (A.S.T.M.-D-1557). ALL OTHER TRENCH BACKFILLS MAY BE EARTH MATERIAL (FREE OF LARGE CLODS OR STONES). ALL TRENCH BACKFILLS SHALL BE WATER JETTED.
- 4) NO AREA SHALL BE CLEARED WITHOUT THE PERMISSION OF THE PROJECT
- GRADING PLAN.
- OR SEEDED AND MULCHED.
- 7) ALL CONSTRUCTION AND MATERIALS USED SHALL CONFORM TO CURRENT
- 8) ALL MECHANICAL EQUIPMENT TO BE SCREENED FROM PUBLIC VIEW.
- 9) PROPOSED BUILDING WILL COMPLY WITH CURRENT AMERICAN DISABILITY ACT REQUIREMENTS.
- 11) ALL UTILITIES SHOWN ARE EXISTING UNLESS OTHERWISE NOTED. ALL NEW UTILITIES
- SHALL BE LOCATED UNDERGROUND.
- 12) ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- 14) TOTAL TREES EXISTING: 44 TREES (SEE TREE INVENTORY & LANDCAPE LEGEND)
- NUMBER 1689 AND PROVIDE LANDSCAPING AS SET FORTH IN ARTICLE 23 OF THE CITY OF O'FALLON ZONING ORDINANCES. (SEE TREE INVENTORY & LANDSCAPE LEGEND)
- Reference Benchmark RM58 Elevation 487.55 (NAVD29, USGS DATUM) 16) THE DEVELOPER SHALL COMPLY WITH CURRENT ARTICLE 13 PERFORMANCE STANDARDS. Cut "Box" on the Northwest wing wall of the old Highway K Bridge
 - $\frac{\text{Site Benchmark} \text{Elevation 483.32}}{\text{Cut "Box" in the center of 6' concrete golf cart path, $\pm 175'$ South;}$ and $\pm 40^{\circ}$ East of the Northeast corner of subject property, $\pm 5^{\circ}$ opposite

BENCHMARKS

DEVELOPMENT NOTES

1. Area of Tract:

2. Existing Zoning:

4. Area of Existing Building:

Minimum Side Yard:

Area of Base Bid:

3. Existing Use:

6. Owner:

17.48 Acres

R-1 P.U.D. (CITY OF O'FALLON) ELEMENTARY SCHOOL 42,347 Sq. Ft.

20,015 Sq. Ft. 6,133 Sq. Ft. Area of Alternate No. 1: Area of Future Phase 3: 4,332 Sq. Ft. 5. The required height and building setbacks are as follows: Minimum Front Yard:

> Minimum Rear Yard: 25 feet Maximum Height of Building: 35 feet

> > Ft. Zumwalt School District O'Fallon, MO 63366 (314) 272-6620

6 feet

7. Site is served by: City of O'Fallon Sewer Ameren Union Electric Company St. Charles Gas Company City of O'fallon Water GTE Telephone Company Fort Zumwalt School District O'Fallon Fire Protection District

8. No flood plain exists on this tract per F.I.R.M. map # 29183 C 0230 E and 29183 C 0235 E dated August 2, 1996.

38 classrooms x 2 parking spaces

9. Topographic information is per Walker and Associates.

10. Parking Required: Elementary school — Two parking spaces per each classroom

= 76 parking spaces required Existing Parking Provided = 177 spaces with 6 handicap spaces

Alternate Parking No. 3 = 39 spaces 11. Parking Landscaping Required: 177 spaces \times 270 \times 6% = 2,867 sq.ft.

Existing Landscaping Provided = 17,815 sq.ft. 12. Site Coverage Calculations: Building = 62,362 SQ.FT. Pavement = 282,061.10 SQ.FT.

Green Space = 417,113.96 SQ.FT.

13. Developer must supply city construction inspectors with soil reports prior to or during site soil testing.

14. The contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltation/fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon and/or MoDOT. The Contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or the City of O'Fallon and/or MoDOT may at their option direct the Contractor in his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement or in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon and/or MoDOT.

15. Sidewalks, curb ramps, ramps and accessible parking spaces shall be constructed in accordance with the current approved "Americans with Disabilities Act Accessibility Guideline" (ADAAG) along with the required grades, construction materials, specifications and signage. If any conflict occurs between the above information and the plans, the ADAAG Guidelines shall take precedence and the Contractor prior to any construction shall notify the project engineer.

16. Sanitary sewer laterals and water lines to have a minimum of 42" of cover.

17. All graded areas that are to remain bare for over 6 months must be seeded and mulched.

18. All erosion control systems shall be inspected and necessary corrections made within 24 hours of any rainstorm resulting in a one-half inch rain or more.

19. Proposed alternates to be constructed with this plan.

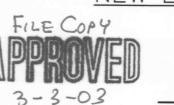
LANDSCAPE LEGEND

INDICATES EXISTING ORNAMENTAL SHRUBS (spireas, forsythia, barberries, privets, lilacs)

QTY. (44) ~ INDICATES EXISTING HARDWOOD TREE (ashes, oaks, maples, birches, sweet gum) QTY. (140) ~ INDICATES EXISTING 6' TALL EVERGREEN TREE PLANTED ON 10' CENTERS

LANDSCAPING AS DEPICTED IS SUBJECT TO FINAL DESIGN BY A QUALIFIED LANDSCAPE DESIGNER

SEE LANDSCAPING PLAN FOR NEW LANDSCAPING

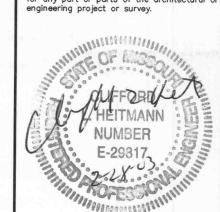


COVER SHEET OVERALL SITE/GRADING PLAN ENLARGED SITE PLAN ENLARGED GRADING PLAN DRAINAGE AREA MAP CONSTRUCTION DETAILS

SH EN 0 RATED HOUSE SOURI INCORPOR/ MANSION F LOUIS, MISS) 231.5485

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DISCLAIMER OF RESPONSIBILITY I hereby specify that the documents intended to be authenticated by my seal are limited t this sheet, and I hereby disclaim any responsibility for all other Drawings, Specifications Estimates, Reports or other documents or nstruments relating to or intended to be us for any part or parts of the architectural or



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REVISIONS 2-24-03 CITY COMMENTS

2-28-03 CITY COMMENTS



ENGINEERING PLANNING SURVEYING

1052 South Cloverleaf Drive St. Peters, MO. 63376-6445 636-928-5552 FAX 928-1718

12-13-02 98-10001TI PROJECT NUMBER

FILE NAME

DESIGNED CHECKED

O'FALLON FILE NUMBER 99-125.0

-800-DIG-RITE

PRINCIPALS & STANDARDS

grade not to exceed a 3:1 slope (33%). Steeper grades may be

protected (a designed head wall or toe wall may be required).

appropriate section(s) of the adopted BOCA Codes and must be

approved by the City Building Department. Permanent safety

guards will be constructed in accordance with the appropriate

Sediment and erosion control plans for sites that exceed

debris basins, silt traps or filters, staked straw bales or

20,000 square feet of grading shall provide for sediment or

other approved measures to remove sediment from run-off

Where natural vegetation is removed during grading, vegetation

as possible during the next seeding period after grading has

When grading operations are completed or suspended for more

than 30 days permanent grass must be established at sufficient

Retaining walls that exceed a height of four (4) feet shall require the construction of safety guards as identified in the

All excavations, grading, or filling shall have a finished

approved by the designated official if the excavation is

through rock or the excavation or the fill is adequately

section(s) of the adopted BOCA Codes.

Temporary siltation control measures shall be

maintained until vegetative cover is established at a

sufficient density to provide erosion control on the site.

shall be re-established in such a density as to prevent erosion. Permanent type grasses shall be established as soon

density to provide erosion control on the site. Between

All finished grades (areas not to be disturbed by future

improvement) in excess of 20% slopes (5:1) shall be mulched

and tacked at the rate of 100 pounds per 1,000 square feet

Provisions shall be made to accommodate the increased runoff

that gradients result in velocities of 2 fps (feet per second)

or less. Open channels with velocities more than 2 fps and

less that 5 fps shall be established in permanent vegetation

by use of commercial erosion control blankets or lined with

rock riprap or concrete or other suitable materials.

shall be constructed to prevent velocities above 5 fps.

The adjoining ground to development sites (lots) shall be

provided with protection from accelerated and increased

after grading. Unvegetated open channels shall be designed so

Detention basins, diversions or any other appropriate structures

surface water, silt from erosion, and any other consequence of

erosion. Run-off water from developed areas (parking lots.

paved sites and buildings) above the area to be developed

shall be directed to diversions, detention basins, concrete

gutters and/or underground outlet systems. Sufficiently

Development along natural watercourses shall have residential lot lines, commercial or industrial improvements, parking

areas or driveways set back a minimum of 25 feet from the top

anchored straw bales may be temporarily substituted.

of the existing stream bank. The watercourse shall be

include designed streambank erosion control measures.

Corps of Engineers guidelines shall be followed where

FEMA and U.S. Army

conditions.

Seeding Rates: Permanent:

Seeding Periods:

Tall Fescue - 30 lbs./ac.

Fertilizer Rates: Nitrogen

Smooth Brome - 20 lbs./ac.

Fescue or Brome - March 1 to June 1

Wheat or Rye - March 15 to November 1

flood plains and wetlands.

maintained and made the responsibility of the subdivision

trustees or in the case of a site plan by the property owner.

Permanent vegetation should be left intact. Variances will

applicable regarding site development areas designated as

All lots shall be seeded and mulched or sodded before an

occupancy permit shall be issued except that a temporary

occupancy permit may be issued by the Building Department

VEGETATIVE ESTABLISHMENT

For Urban Development Sites

APPENDIX A

- 120 lbs./ac. (2.75 lbs. per square foot)

30 lbs./ac.

* ENM = effective neutralizing material as per State

evaluation of quarried rock.

30 lbs./ac.

30 lbs./ac.

600 lbs./ac. ENM*

Combined Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.

Wheat or Rye - 150 lbs./ac. (3.5 lbs. per square foot)

August 1 to October

March 15 to September 15

Phosphate

Potassium

Mulch Rates: 100 lbs. per 1,000 sq. feet (4,356 lbs. per acre)

in cases of undue hardship because of unfavorable ground

caused by changed soils and surface conditions during and

permanent grass seeding periods, temporary cover shall be

GRADING NOTES

- 1. A Geotechnical Engineer shall be employed by the Contractor and be on site during grading operations. All soils tests shall be verified by the Geotechnical Engineer concurrent with the grading and backfilling operations.
- 2. The grading contractor shall perform a complete grading and compaction operation as shown on the plans, stated in these notes, or reasonably implied there from, all in accordance with the plans and notes as interpreted by the Geotechnical
- 3. The Contractor shall notify the Soils Engineer at least two days in advance of the start of the grading operation.
- 4. All areas shall be allowed to drain. All low points shall be provided with temporary ditches.
- 5. A sediment control plan that includes monitored and maintained sediment control basins and/or straw bales should be implemented as soon as possible. No graded area is to be allowed to remain bare without being seeded and mulched. Care should be exercised to prevent soil from damaging adjacent property and silting up existing downstream
- 6. Debris and foundation material from any existing on—site building or structure which is scheduled to be razed for this development must be disposed of off-site.
- 7. All trash and debris on site, either existing or from construction, must be removed and properly disposed of off-site.
- 8. Soft soil in the bottom and banks of any existing or former pond sites or tributaries or on any sediment basins or traps should be removed, spread out and permitted to dry sufficiently to be used as fill. None of this material should be placed in proposed public right-of-way locations or on any storm sewer locations.
- 9. Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds; the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The material shall be properly disposed of off-site. Topsoil and grass in the fill areas shall be thoroughly disced prior to the placement of any fill. The Soils Engineer shall approve the discing operation.
- 10. Compaction equipment shall consist of tamping rollers, pneumatic-tired rollers, vibratory roller, or high speed impact type drum rollers acceptable to the Soils Engineer. The roller shall be designed so as to avoid the creation of a layered fill without proper blending of successive fill
- 11. The Soils Engineer shall observe and test the placement of the fill to verify that specifications are met. A series of fill density tests will be determined on each lift of fill. Interim reports showing fill quality will be made to the Owner at
- 12. The Soils Engineer shall notify the Contractor of rejection of a lift of fill or portion thereof. The Contractor shall rework the rejected portion of fill and obtain notification from the Soils Engineer of its acceptance prior to the

placement of additional fill.

the optimum moisture control.

under placement to freeze.

- 13. All areas to receive fill shall be scarified to a depth of not less than 6 inches and then compacted in accordance with the specifications given below. Natural slopes steeper than 1 vertical to 5 horizontal to receive fill shall have horizontal benches, cut into the slopes before the placement of any fill. The width and height to be determined by the Soils Engineer. The fill shall be loosely placed in horizontal layers not exceeding 8 inches in thickness and compacted in accordance with the specifications given below. The Soils Engineer shall be responsible for determining the acceptability of soils placed. Any unacceptable soils placed shall be removed at the Contractor's expense.
- 14. The sequence of operation in the fill areas will be fill, compact, verify acceptable soil density, and repetition of the sequence. The acceptable moisture contents during the filling operation are those at which satisfactory dry densities can be obtained. The acceptable moisture contents during the filling operation in the remaining areas are from 2 to 8 percent above
- 15. The surface of the fill shall be finished so that it will not impound water. If at the end of a days work it would appear that there may be rain prior to the next working day, the surface shall be finished smooth. If the surface has been finished smooth for any reason, it shall be scarified before proceeding with the placement of succeeding lifts. Fill shall not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to permit the layer
- 16. Fill and backfill should be compacted to the criteria specified in the following table:

CATEGORY PERCENT COMPACTION Fill in building areas below footings Fill under slabs, walks, and pavement 90% Fill other than building areas 88% Natural subgrade 88% Pavement subgrade 90% Pavement base course 90% Measured as a percent of the maximum dry density as determined

by modified Proctor Test (ASTM-D-1557).

Moisture content must be within 2 percent below or 4 percent above optimum moisture content if fill is deeper than 10 feet.

GRADING QUANTITIES: (INCLUDES SUBGRADE)

1,198 C.Y. CUT 2,158 C.Y. FILL (INCLUDES 15% SHRINKAGE) 960 C.Y. SHORT

THE ABOVE GRADING QUANTITY IS APPROXIMATE ONLY, NOT FOR BIDDING PURPOSES. CONTRACTOR SHALL VERIFY QUANTITIES PRIOR TO CONSTRUCTION.

OCATION MAP

GENERAL NOTES

- 1) UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE
- SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY
- DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION
- 5) ALL GRADES SHALL BE WITHIN 0.2 FEET OF THOSE SHOWN ON THE
- 6) NO SLOPE SHALL BE STEEPER THAN 3:1. ALL SLOPES SHALL BE SODDED
- CITY OF O'FALLON STANDARDS.
- 10) SEE ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS, SERVICE CONNECTIONS, DETAILS, ETC.
- 13) MINIMUM TREE REQUIREMENTS PER ZONING ORDINANCE:

TOTAL REQUIRED: 26 TREES

15) THE DEVELOPER SHALL COMPLY WITH CURRENT TREE PRESERVATION ORDINANCE

over Dardenne Creek.

19) DETENTION FOR NORTHERN PORTION OF THIS SITE PROVIDED FOR IN HOMEFIELD MANOR VILLAGE N.

17) ALL CONSTRUCTION METHODS AND PRACTICES SHALL CONFORM WITH O.S.H.A. STANDARDS. 18) ALL FENCING AND SIGNS REQUIRE A SEPARATE PERMIT FROM PLANNING & ZONING.