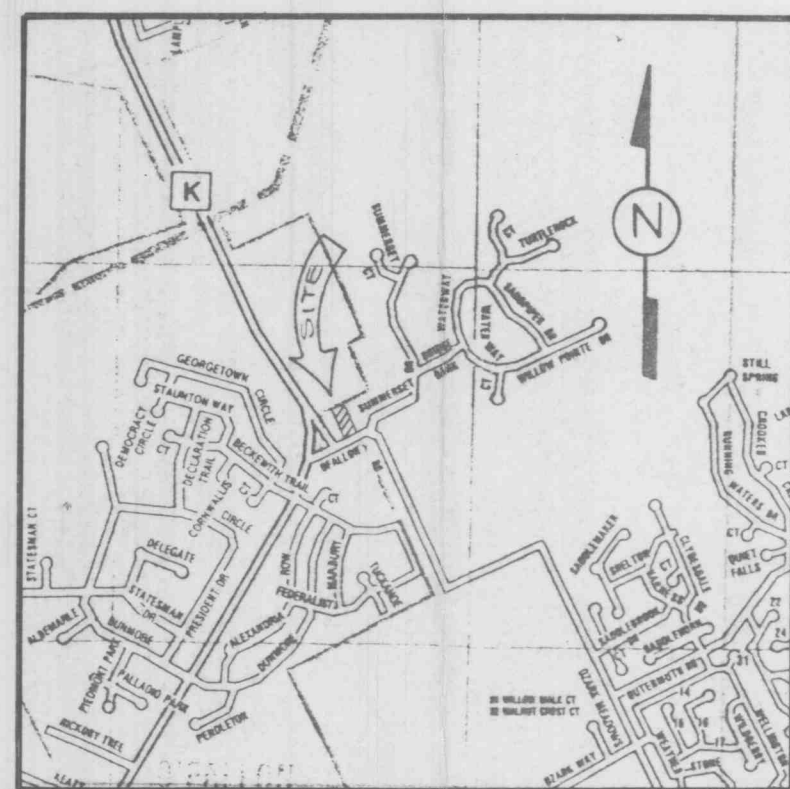


Landing of O'Fallon
A GRADING PLAN OF
 A TRACT OF LAND BEING PART OF
 U. S. SURVEY 1696
 TOWNSHIP 46 NORTH, RANGE 3 EAST,
 LOCATED IN THE CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI

GRADING NOTES



LOCATION MAP

SCALE: 1"=50'



- I. GENERAL**
- No area shall be cleared without authorization from the project engineer.
 - All grading work performed shall be within a 0.1 foot tolerance of the grades shown on the grading plan.
 - A Geotechnical Engineer shall be employed by the owner and be on site during grading operations.
 - 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 Engineer.
 - Before the grading begins, the owner shall employ a competent, licensed surveyor to establish all lines and grades.
 - The contractor shall notify the Geotechnical Engineer at least two days in advance of the start of the grading operation.
 - All construction shall be performed in accordance with the specifications, ordinances, rules, regulations, guidelines and/or policies of the City of O'Fallon and other governing jurisdictional authorities.
 - Underground utilities shown on this plan have been plotted from available records and information, and their locations shall be considered approximate only. The verification of the actual location of all underground utilities, either shown or not shown on this plan, shall be the responsibility of the contractor(s), and the verification of the actual location shall be performed prior to beginning work.

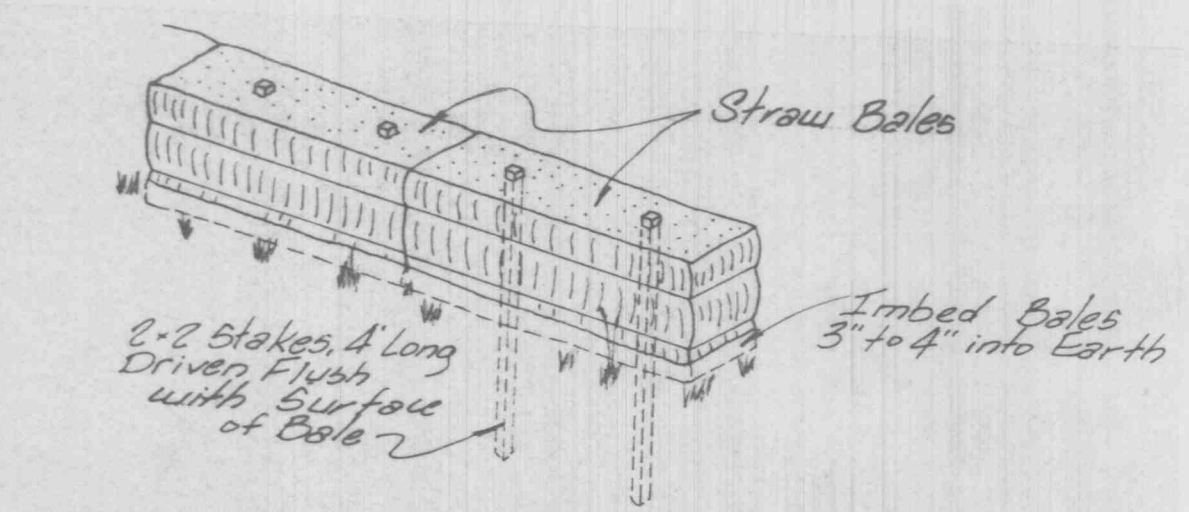
- II. SPECIFICATIONS**
- Site preparation includes the clearance of all stumps, trees, bushes, shrubs, and weeds; the grubbing and removal of roots and other surface obstructions from the site; and the demolition and removal of any man-made structures. The unsuitable material shall be burned (after securing permits) and or properly disposed of on-site. Topsoil and grass in the fill areas shall be thoroughly disced prior to the placement of any fill. The Geotechnical Engineer shall approve the discing operation.
 - Compaction equipment shall consist of tandem rollers, pneumatic-tired rollers, vibratory rollers, or high speed impact type drum rollers acceptable to the Geotechnical Engineer. The roller shall be designed so as to avoid the creation of a layered fill without proper blending of successive fill layers.
 - The Geotechnical 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 regular intervals.
 - The Geotechnical 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 Geotechnical Engineer of its acceptance prior to the placement of additional fill.
 - All areas to receive fill shall be scarified to a depth of not less than 6 inches and then compacted to at least 85 percent of the maximum dry density as determined from the modified Proctor compaction test (ASTM D-1557). Natural slopes steeper than 1 vertical to 5 horizontal to receive fill will have horizontal benches, with minimum widths of 12 feet and maximum height of 5 feet, cut into the slopes before the placement of any fill. The fill shall be loosely placed in horizontal layers not exceeding 5 inches in thickness and compacted in accordance with the specifications given below. The Geotechnical Engineer shall be responsible for determining the acceptability of soils placed. Any unacceptable soils placed shall be removed at the contractor's expense.
 - 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 the optimum moisture control.
 - 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 should not be placed on frozen ground, nor shall filling operations continue when the temperature is such as to prevent the layer under placement to freeze.
 - All fills shall be compacted to 90% of maximum density as determined by the "Modified AASHTO T-99 Compaction Test" (ASTM D-1557).

3 DISTURBED AREAS ARE NOT TO BE LEFT UNSEED. A SCHEDULE FOR SEEDING IS TO BE SUBMITTED WHEN GRADING IS STARTED

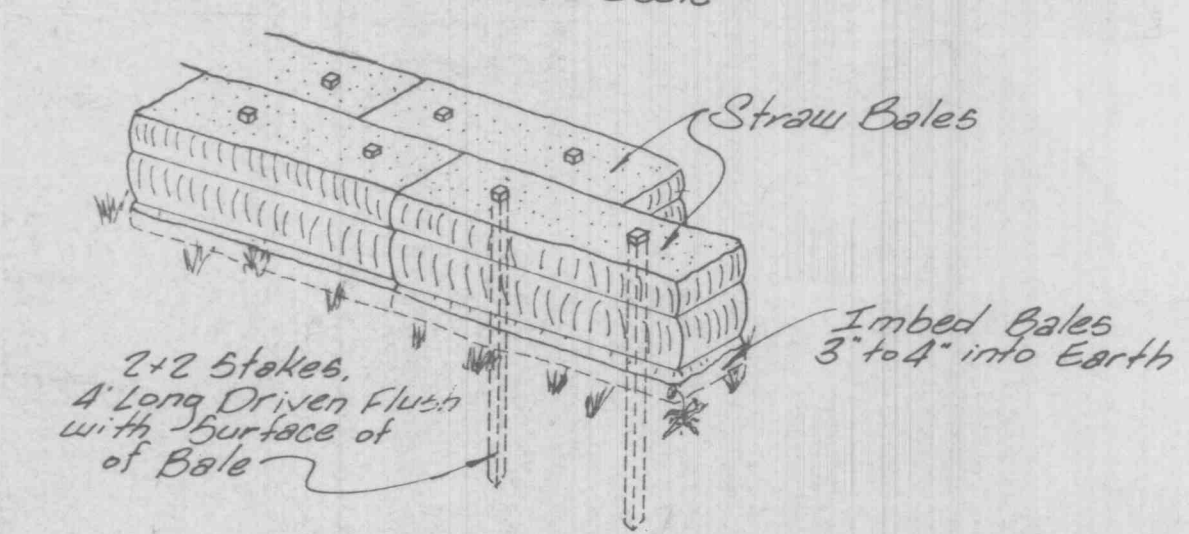
APPROVED AS NOTED
 3-1-93
 Frank G. G...
 (Signature)

PREPARED FOR:
 KAPLAN PROPERTIES
 I-70 NORTH SERVICE ROAD
 P.O. Box 340
 ST. PETERS, MISSOURI 63376
 TELEPHONE: (314) 946-6971

DATE:	NO.:	REVISION:		
MUSLER ENGINEERING COMPANY				
CIVIL ENGINEERING - PLANNING - LAND SURVEYING				
6240 Mexico Road, St. Peters, Missouri 63376				
Telephone: (314) 441-4555				
DATE:	DRAWN:	CHECKED:	PROJECT NO.:	SHEET NO.:
25 FEB. 93	DEH/BU	R.S.M.	93-058A	1 OF 1



SILTATION CONTROL DETAIL
TYPE I
 Not to Scale



SILTATION CONTROL DETAIL
TYPE II
 Not to Scale