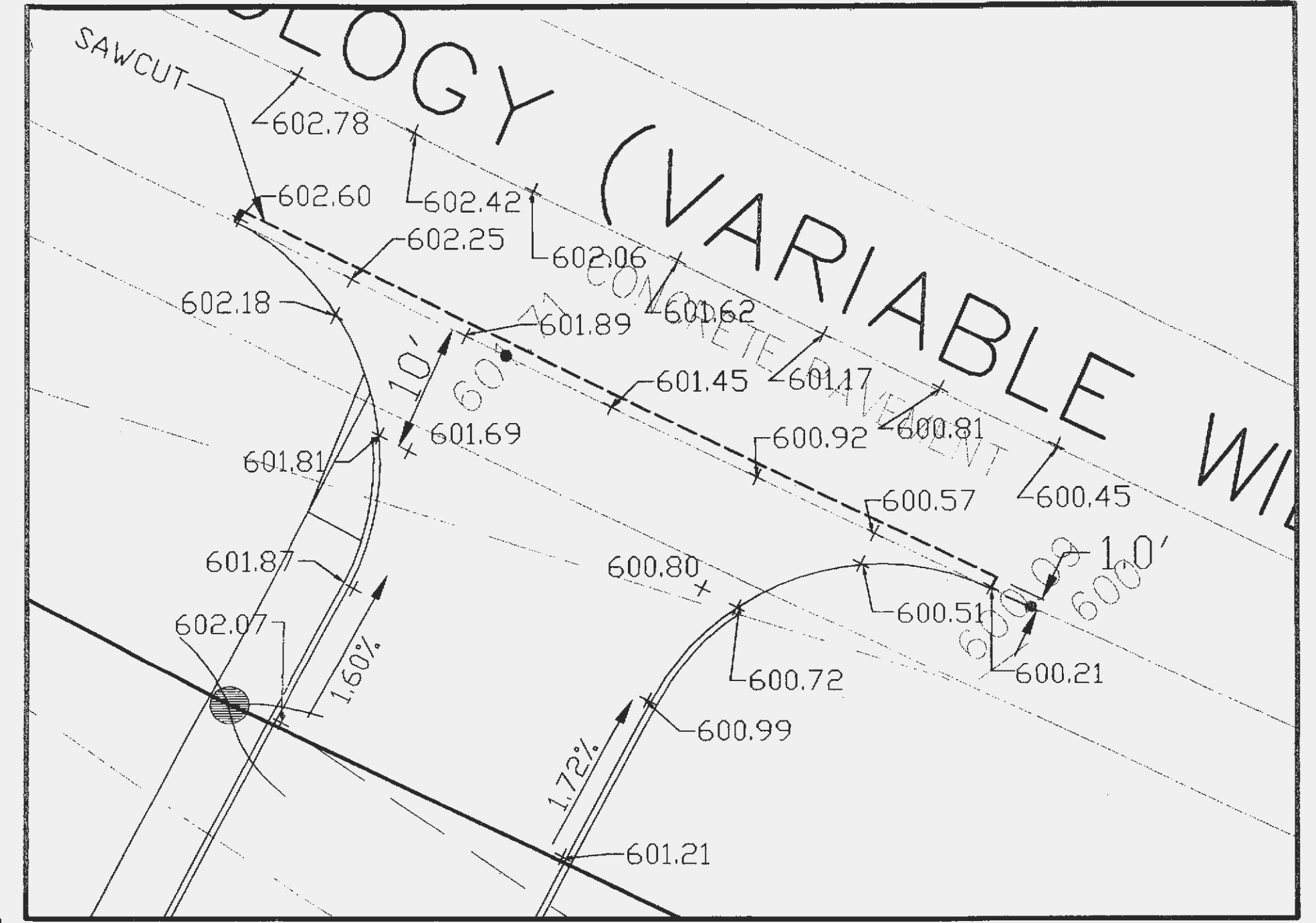


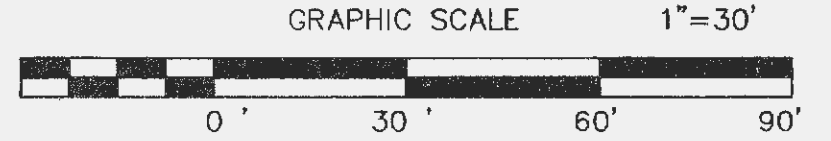
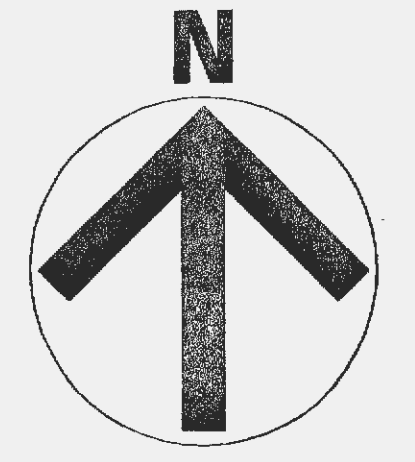
- A KENTUCKY BLUEGRASS 90 LBS/ACRE
MIXED WITH PERENNIAL RYEGRASS
30 LBS/ACRE.
 - B KENTUCKY BLUEGRASS 135 LBS/ACRE
MIXED WITH PERENNIAL RYEGRASS
45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.
 - C SPRING OATS 100 LBS/ACRE
 - D WHEAT OR CEREAL RYE
150 LBS/ACRE.
 - E SOO
 - F STRAW MULCH 2 TONS/ACRE.
- * IRRIGATION NEEDED DURING JUNE AND JULY.
** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOO.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C			D						
SODDING			E**									

VEGETATION SCHEDULE

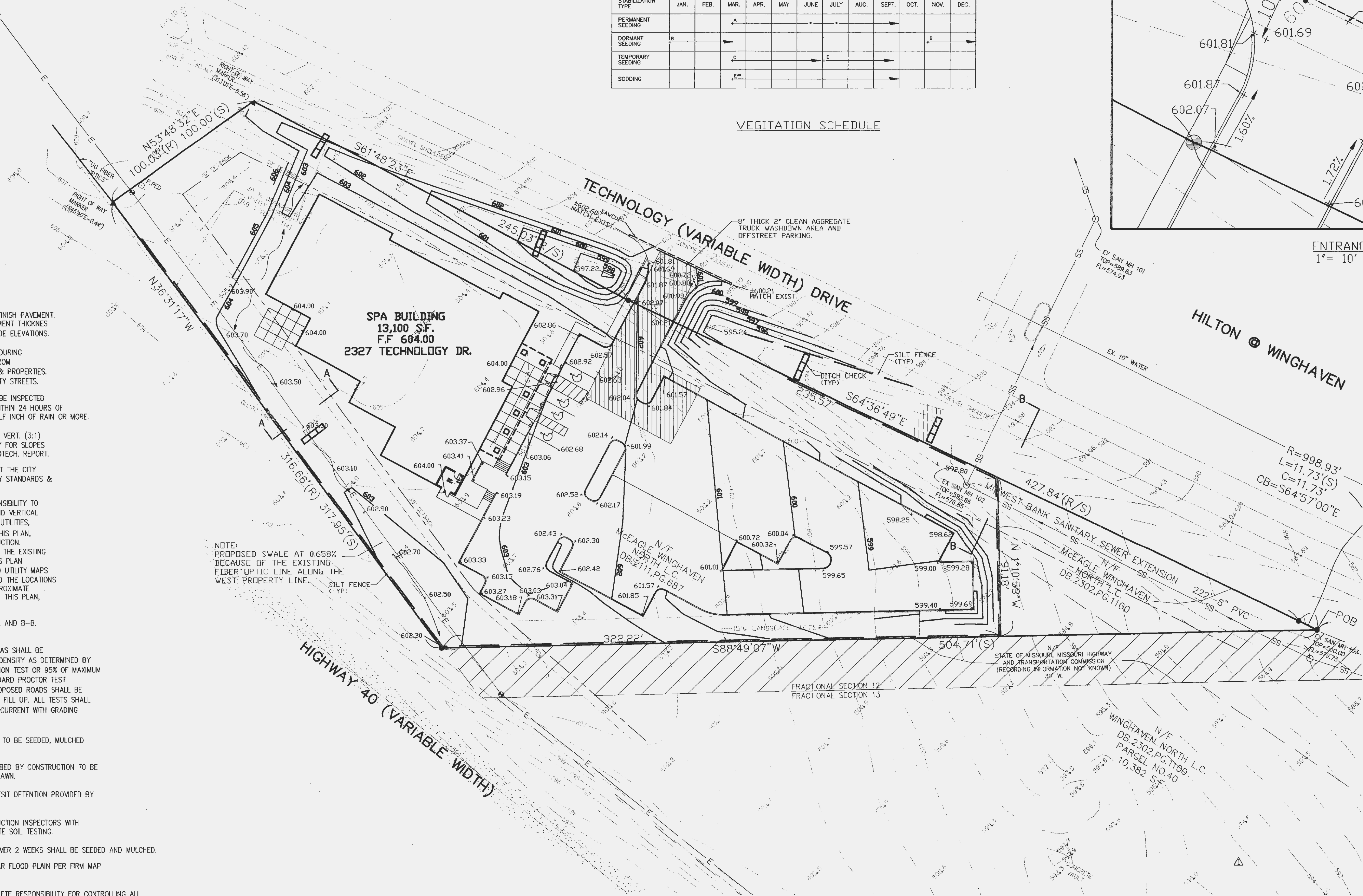


ENTRANCE WARPING DETAIL
1" = 10'



- NOTES:
- ALL GRADES ARE TO FINISH GRADE OR FINISH PAVEMENT. THE CONTRACTOR SHALL DEDUCT PAVEMENT THICKNESSES IN BUILDING AREAS TO OBTAIN SUBGRADE ELEVATIONS.
 - SILTATION CONTROL SHALL BE UTILIZED DURING CONSTRUCTION TO PREVENT SILTATION FROM RUNNING ONTO THE ADJACENT STREETS & PROPERTIES. NO STORM WATER SHALL DRAIN ONTO CITY STREETS.
 - ALL EROSION CONTROL SYSTEMS SHALL BE INSPECTED AND NECESSARY CORRECTIONS MADE WITHIN 24 HOURS OF ANY RAINSTORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE.
 - MAXIMUM SLOPE SHALL BE 3 HORIZ. TO 1 VERT. (3:1) THE CIVIL ENGINEER ASSUMES NO LIABILITY FOR SLOPES EXCEEDING THOSE RECOMMENDED BY GEOTECH. REPORT.
 - ALL GRADING AND DRAINAGE SHALL MEET THE CITY OF O'FALLON AND ST. CHARLES COUNTY STANDARDS & SPECIFICATIONS.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS AND SIZES OF ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT SHOWN ON THIS PLAN, PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER HAS NOT FIELD VERIFIED THE EXISTING UTILITIES. THE UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM RECORDS AND UTILITY MAPS MADE AVAILABLE TO THE ENGINEER AND THE LOCATIONS AND SIZES SHALL BE CONSIDERED APPROXIMATE ONLY. OTHER UTILITIES, NOT SHOWN ON THIS PLAN, MAY EXIST ON OR NEAR THE SITE.
 - REFER TO SHEET C7 FOR SECTIONS A-A AND B-B.
 - ALL FILLED PLACES UNDER PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ALL FILL PLACED IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
 - REFER TO LANDSCAPE PLAN FOR AREAS TO BE SEEDED, MULCHED AND PLANTED.
 - ALL NON-PAVED AREAS OF SITE DISTURBED BY CONSTRUCTION TO BE RESTORED TO CONDITION OF EXISTING LAWN.
 - NO ON SITE DETENTION IS REQUIRED. OFFSITE DETENTION PROVIDED BY WINGHAVEN GLOBAL DETENTION BASIN.
 - DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH SOIL REPORTS PRIOR TO OR DURING SITE SOIL TESTING.
 - GRADED AREAS TO REMAIN BARE FOR OVER 2 WEEKS SHALL BE SEEDED AND MULCHED.
 - PROPERTY IS LOCATED OUTSIDE 100 YEAR FLOOD PLAN PER FIRM MAP PANEL #29183C043C E.P. 1996.
 - 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 STRAWBALES AND/OR SILTATION FABRIC FENCES (POSSIBLE METHODS OF CONTROL ARE DETAILED IN 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 MODOOT. 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 MODOOT MAY AT THEIR OPTION DIRECT THE CONTRACTOR IN HIS METHODS AS DEEMED FIT TO PROTECT PROPERTY AND IMPROVEMENTS. ANY DEPOSITING OF SILTS 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 MODOOT.

NOTE:
PROPOSED SWALE AT 0.658%
BECAUSE OF THE EXISTING
FIBER OPTIC LINE ALONG THE
WEST PROPERTY LINE.



THE SPA AT WINGHAVEN
GRADING PLAN

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Checked By	Drawn By	Project Number	Date	Sheet Number
JFH	BDG	02-245	02/25/03	C3

Revisions: Δ CITY REVIEW COMMENTS 4/10/03

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