SWPPP PLAN

1. AN APPROVED COPY OF THE GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOTICE OF INTENT (NOI) AND THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. DETAILS ON THE GRADING AND DRAINAGE PLAN PERTINENT TO THE SWPPP SHALL BE CONSIDERED A PART OF THE SWPPP.
2. THE CONTRACTOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY WEEK AND WITHIN 24 HOURS OF THE RAINFALL OF 0.5 INCHES OR MORE. THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE SWPPP CONTROLS AND NOTE ANY EROSION AND SCHEDULE TO CORRECT AND DOCUMENT CORRECTION DATE.
3. THE OPERATOR SHALL AMEND THIS PLAN AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS WHICH BECOME EVIDENT DURING THE CONSTRUCTION AND /OR DURING PRECIPITATION EVENTS.
4. CONSTRUCTION ACTIVITIES ON THIS SITE INCLUDE GRADING OF ROADWAYS AND PARCELS, INSTALLATION OF ROADWAYS, DRAINAGE STRUCTURES, WATERLINES AND SEWER LINES.
5. THE STORM WATER AND EROSION CONTROL FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED BEFORE CLEARING AND GRADING ACTIVITIES COMMENCE TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR EROSION CONTROL.
6. THE STORM WATER AND EROSION CONTROL FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE RUNOFF AND SILTATION CONTROL. THEREFORE DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE SHOWN, SHOWN OR DESCRIBED BY THIS PLAN.
7. THE STORM WATER AND EROSION CONTROL FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
8. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
9. STORM WATER AND EROSION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS. LOCATIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS.
10. CATCH BASINS OR INLETS COLLECTING WATER FROM THE SITE, WHETHER ON OR OFF SITE, SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC OR OPENINGS PROTECTED DURING CONSTRUCTION.
11. WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCES SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF CLOGGED BY SOIL.
12. IF ANY PART OF THE STORM WATER POLLUTION PREVENTION MEASURE IS DAMAGED, IT SHALL BE REPAIRED
13. PROPERTIES ADJACENT TO THE PROJECT SITE ARE TO BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
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 PALN). 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 IMPLEMENTAION 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 SHALL BE REMOVED IMMEDIATELY. ANY DEPOSITING OF SILTS OR MUD 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. ALL FILLED PLACES UNDER PROPOSED STORM AND SANITARY SEWER AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAX. DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% MAX. DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO-99.
16. ALL FILLED PLACES IN PROPOSED ROADS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP TO 90% OF MAX. DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-180 COMPACTION TEST OR 95% MAX. DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO-99. ALL TESTS SHALL BE VERIFIED BY SOILS ENGINEER CONCURRENT WITH GRADING AND BACK FILLING OPERATIONS.
17. ALL GRADED AREAS THAT ARE TO REMAIN BARE FOR OVER TWO WEEKS SHALL BE SEEDED AND MULCHED PER MO DNR REQUIREMENT.
18. FOR THIS PROJECT NO WATER BODIES OR WETLANDS WILL BE DISTURBED.
19. ANY CHANGES REQUIRED BY THE PERMITTING AUTHORITY SHALL BE MADE WITHIN 7 DAYS OF THE NOTIFICATION. THE PERMITTEE SHOULD SUBMIT A CERTIFICATION TO THE PERMITTING AUTHORITY THAT THE REQUESTED CHANGES WERE COMPLETED.
20. NO SLOPES SHALL BE STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICLE). ALL 3:1 SLOPES TO HAVE SILT FENCE INSTALLED AND MAINTAINED AT THE TOP OF THE SLOPE WITH A SILT FENCE INTALLED EVERY SIX (6) FEET OF ELEVATION CHANGE THEREAFTER.

GRADING NOTES

REFER TO SHEET C 1.0 OR SHEET C 5.0 FOR SITE NOTES

ALL PAVING TO BE IN ACCORDANCE WITH ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES

DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTOR WITH SOIL REPORTS PRIOR TO OR DURING SITE SOIL TESTING. THE SOIL REPORT WILL BE REQUIRED TO CONTAIN THE FOLLOWING INFORMATION ON SOIL TEST CURVES (PROCTOR REPORTS) FOR PROJECTS WITHIN THE CITY.

1. MAXIMUM DRY DENSITY
2. OPTIMUM MOISTURE CONTENT
3. MAXIMUM AND MINIMUM ALLOWABLE MOISTURE CONTENT
4. CURVE MUST BE PLOTTED TO SHOW DENSITY OF A MINIMUM 90% COMPACTION AND ABOVE AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (A.S.T.M.-D-1557) OR FROM A MINIMUM OF 95% AS DETERMINED BY THE "STANDARD PROCTOR TEST AASHTO T-99, METHOD C" (A.S.T.M.-D-698). PROCTOR TYPE MUST BE DESIGNATED ON DOCUMENT.
5. CURVE MUST HAVE AT LEAST 5 DENSITY POINTS WITH MOISTURE CONTENT AND SAMPLE LOCATIONS LISTED ON DOCUMENT.
6. SPECIFIC GRAVITY
7. NATURAL MOISTURE CONTENT
8. LIQUID LIMIT
9. PLASTIC LIMIT

BE ADVISED THAT IF THIS INFORMATION IS NOT PROVIDED TO THE CITY'S CONSTRUCTION INSPECTOR THE CITY WILL NOT ALLOW GRADING OR CONSTRUCTION ACTIVITIES TO PROCEED ON ANY PROJECT SITE.

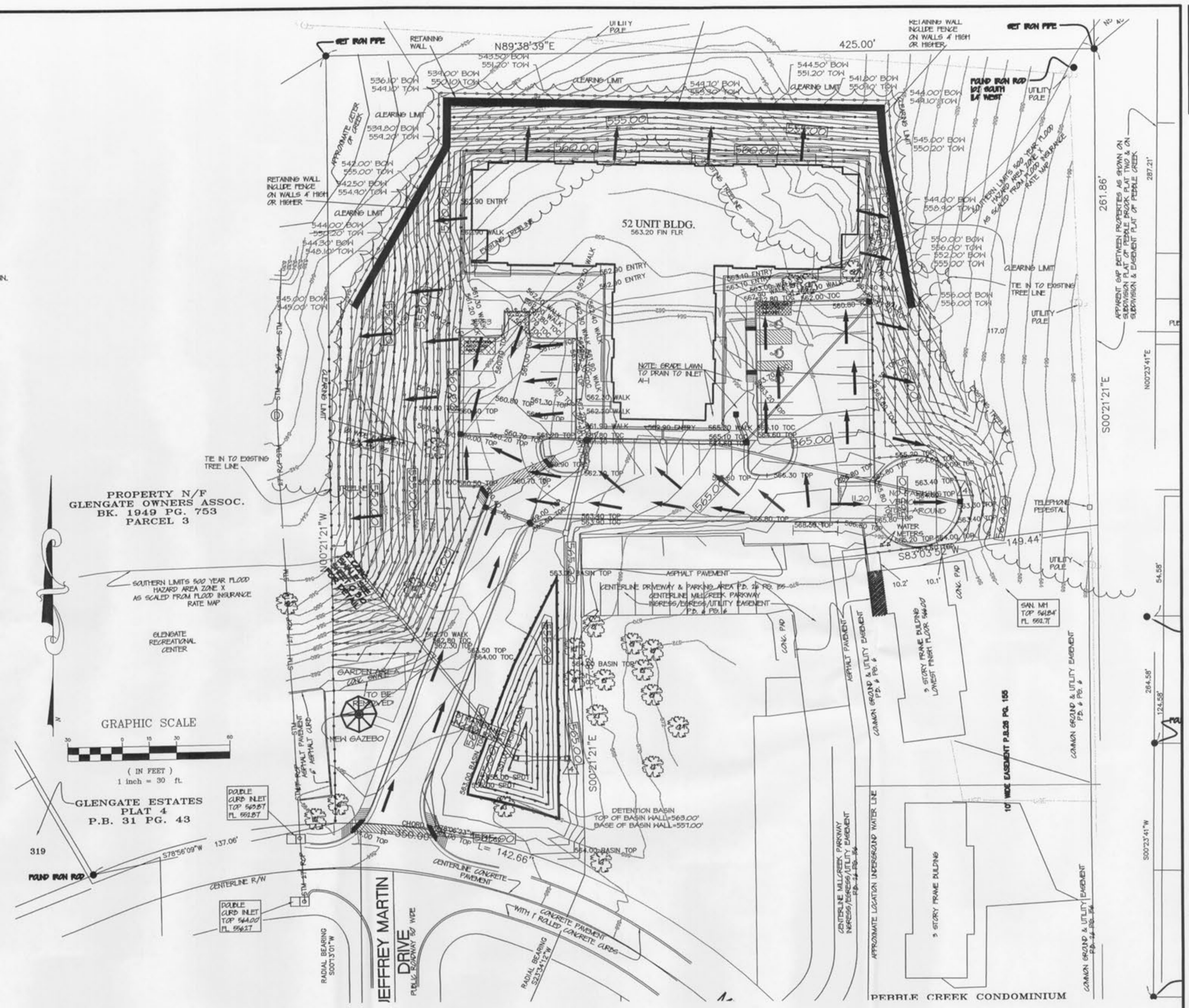
USGS DATUM

ALL ENGINERRING DRAWINGS ARE BASED ON THE FOLLOWING VERTICAL DATUM

REFERENCE BENCHMARK RM65 (NGVD29 DATUM) AS IT APPEARS ON ABOVE REFERENCED FLOOD INSURANCE RATE MAP - ELEVATION = 509.47' (DESTROYED AFTER HIGHWAY K RELOCATION)

SITE BENCHMARK NO. 1 - ELEV 563.12" (NGVD29 DATUM)
TOP IRON ROD AT SOUTHWEST CORNER OF SUBJECT PROPERTY.

SITE BENCHMARK 2 - ELEV = 579.34' (NGVD29 DATUM)
CROSS IN CONCRETE 2.9' NORTHWEST OF CENTERLINE HEATHER DRIVE AND MILL POND DRIVE.



SILT FENCE

1. THE FILTER FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 124 POUNDS AND A MINIMUM FLOW RATE OF 10 GALLONS PER MINUTE PER SQUARE FOOT. THE FILTER FABRIC SHALL HAVE ULTRAVIOLET RAY INHIBITORS TO ASSURE A LIFE EXPECTANCY OF SIX MONTHS.
2. THE TOE OF FILTER FABRIC SHALL BE ANCHORED IN A SIX BY SIX INCH DEEP TRENCH. FENCE SECTIONS SHALL BE JOINED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
3. THE SILT FENCE SHALL BE INSPECTED AFTER EVERY RAINFALL TO DETERMINE IF ANY PART OF THE FENCE NEEDS TO BE REPAIRED OR REPLACED. IF IT IS DETERMINED THAT THE FENCE NEEDS ANY REPAIR OR REPLACEMENT THIS SHALL BE DONE IMMEDIATELY.
4. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL OR BEFORE THEY ACCUMULATE TO 1/4 OF THE FENCE HEIGHT.
5. SILT FENCE SHALL BE BUILT AND MAINTAINED PER ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT EROSION AND SEDIMENT CONTROL GUIDLINES.

SILT FENCE

SITE GRADING PLAN

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