EARTHWORK QUANTITY NOTES:

1. THE CUT AND FILL QUANTITIES SHOWN ON THIS PLAN ARE FOR PERMITTING PURPOSES ONLY. THE GRADING CONTRACTOR IS CAUTIONED THAT THE QUANTITIES SHOWN ARE THE ENGINEER'S ESTIMATE FOR PERMITTING PURPOSES ONLY. THE GRADING CONTRACTOR SHALL COMPLETE THEIR OWN ESTIMATE WHEN BIDDING. NO ADDITIONAL COSTS WILL BE ALLOWED FOR GRADING WITHOUT JUSTIFICATION DUE TO PLAN CHANGES OR REVISIONS. EARTHWORK BALANCE IS BASED ON FINISH GRADE AND DOES NOT ACCOUNT FOR SUBGRADE, RETAINING WALL BACKFILL AND UTILITY/SEWER TRENCHES.

2. TRUCKS SHALL NOT EXCEED POSTED WEIGHT LIMITS FOR CITY, COUNTY AND MODOT BRIDGES DURING HAUL OPERATIONS.

3. EARTHWORK CUT/FILL QUANTITIES
   - 3.1. CUT - 1.08 FACTOR = 57,345 CU. YDS.
   - 3.2. FILL - 1.08 FACTOR = 86,573 CU. YDS.
   - 3.3. TOTAL APPROXIMATE IMPORT FOR THIS PROJECT = 29,228 CU. YDS.

GENERAL NOTES

1. DRIVEWAY LOCATIONS SHALL NOT INTERFERE WITH THE SIDEWALK HANDICAP RAMPS, OR CURB INLET SUMPS
2. SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (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.
   - 2.1. TRUNCATED DOMES FOR CURB RAMPS LOCATED IN PUBLIC RIGHT OF WAY SHALL MEET PROWAG REQUIREMENTS AND SHALL BE CONSTRUCTED USING RED PRE-CAST TRUNCATED DOMES PER PAVEMENT DETAILS.
3. ANY PROPOSED PAVILIONS OR PLAYGROUND AREAS WILL NEED A SEPARATE PERMIT FROM THE BUILDING DIVISION.
4. THE CONTRACTOR IS RESPONSIBLE TO CALL MISSOURI ONE CALL AND THE CITY OF O'FALLON FOR THE LOCATION OF UTILITIES. CONTACT THE CITY OF O'FALLON (636) 379-3814 FOR THE LOCATION OF CITY MAINTAINED CABLE FOR STREET LIGHTS AND TRAFFIC SIGNALS, ALL OTHER UTILITIES CALL MISSOURI ONE CALL 1-800-DIG-RITE. 1-800-344-7483
5. ALL PROPOSED UTILITIES AND/OR UTILITY RELOCATIONS SHALL BE LOCATED UNDERGROUND.
6. ALL PROPOSED FENCING REQUIRES A SEPARATE PERMIT THROUGH THE BUILDING SAFETY DIVISION.
7. ALL CONSTRUCTION OPERATIONS AND WORK ZONE TRAFFIC CONTROL WITHIN THE RIGHT OF WAY WILL FOLLOW MODOT OR M.U.T.C.D. STANDARDS WHICHEVER IS MORE STRINGENT.
8. (INTENTIONALLY OMITTED)
9. ALL SUBDIVISION IDENTIFICATION OR DIRECTIONAL SIGN(S) MUST HAVE THE LOCATIONS AND SIZES APPROVED AND PERMITTED SEPARATELY THROUGH THE PLANNING AND DEVELOPMENT DIVISION.
10. MATERIALS SUCH AS TREES, ORGANIC DEBRIS, RUBBLE, FOUNDATIONS, AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. IF THE MATERIAL LISTED PREVIOUSLY ARE REUSED, A LETTER FROM A SOIL ENGINEER MUST CLARIFY AMOUNT, LOCATION, DEPTH. ETC. AND BE APPROVED WITH THE CONSTRUCTION PLANS. LANDFILL TICKETS FOR SUCH DISPOSAL SHALL BE MAINTAINED ON FILE BY THE DEVELOPER. BURNING ON SITE SHALL BE ALLOWED ONLY BY PERMIT FROM THE LOCAL FIRE DISTRICT. IF A BURN PIT IS PROPOSED THE LOCATION AND MITIGATION SHALL BE SHOWN ON THE GRADING PLAN AND DOCUMENTED BY THE SOILS ENGINEER.
11. TWENTY-FOUR (24) HOURS PRIOR TO STARTING ANY OF THE WORK COVERED BY THE ABOVE PLANS AND AFTER APPROVAL THEREOF, THE DEVELOPER SHALL MAKE ARRANGEMENTS WITH THE CONSTRUCTION INSPECTION OFFICE TO PROVIDE FOR INSPECTION OF THE WORK, SUFFICIENT IN THE OPINION OF THE CITY ENGINEER, TO ASSURE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS AS APPROVED.
12. THE CITY ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL MAKE ALL NECESSARY INSPECTIONS OF CITY INFRASTRUCTURE, ESCROW ITEMS OR INFRASTRUCTURE LOCATED ON THE APPROVED PLANS.
13. ALL INSTALLATIONS AND CONSTRUCTION SHALL CONFORM TO THE APPROVED ENGINEERING DRAWINGS. HOWEVER, IF THE DEVELOPER CHOOSES TO MAKE MINOR MODIFICATIONS IN DESIGN AND/OR SPECIFICATIONS DURING CONSTRUCTION, HE/SHE SHALL MAKE SUCH CHANGES AT HIS/HER OWN RISK, WITHOUT ANY ASSURANCE THAT THE CITY ENGINEER WILL APPROVE THE COMPLETED INSTALLATION OR CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO NOTIFY THE CITY ENGINEER OF ANY CHANGES FROM THE APPROVED DRAWINGS. THE DEVELOPER MAY BE REQUIRED TO CORRECT THE INSTALLED IMPROVEMENTS SO AS TO CONFIRM TO THE APPROVED ENGINEERING DRAWINGS. THE DEVELOPER MAY REQUEST A LETTER FROM THE CONSTRUCTION INSPECTION DIVISION REGARDING ANY FIELD CHANGES APPROVED BY THE CITY INSPECTORS.
14. CITY APPROVAL OF THE CONSTRUCTION SITE PLANS DOES NOT MEAN THAT ANY BUILDING CAN BE CONSTRUCTED ON THE LOTS WITHOUT MEETING THE BUILDING SETBACKS AS REQUIRED BY THE ZONING CODE.

GRADING NOTES

1. DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH AN ENGINEER'S SOIL REPORTS PRIOR TO AND DURING SITE GRADING. THE SOIL REPORT WILL BE REQUIRED TO CONTAIN THE FOLLOWING INFORMATION ON SOIL TEST CURVES (PROCTOR REPORTS) FOR PROJECTS WITHIN THE CITY:
   - 1.1. MAXIMUM DRY DENSITY
   - 1.2. OPTIMUM MOISTURE CONTENT
   - 1.3. MAXIMUM AND MINIMUM ALLOWABLE MOISTURE CONTENT
   - 1.4. CURVE MUST BE PLOTTED TO SHOW DENSITY FROM A MINIMUM OF 90% COMPACTION AND ABOVE AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (A.S.T.M.-D-1157) OR FROM A MINIMUM OF 95% AS DETERMINED BY THE "STANDARD PROCTOR TEST ASSHTO T-99, METHOD C" (A.S.T.M.-D-698). PROCTOR TYPE MUST BE DESIGNATED ON DOCUMENT.
   - 1.5. CURVE MUST HAVE AT LEAST 5 DENSITY POINTS WITH MOISTURE CONTENT AND SAMPLE LOCATIONS LISTED ON DOCUMENT
   - 1.6. SPECIFIC GRAVITY
   - 1.7. NATURAL MOISTURE CONTENT
   - 1.8. LIQUID LIMIT
   - 1.9. 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.
2. ALL FILL PLACED IN AREAS OTHER THAN PROPOSED STORM SEWERS, SANITARY SEWERS, PROPOSED ROADS, AND PAVED AREAS SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP IN 8" LIFTS AND COMPACTED TO 90% MAXIMUM DENSITY AS DETERMINED BY MODIFIED AASHTO T-180 COMPACTION TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T-99. ENSURE THE MOISTURE CONTENT OF THE SOIL IN FILL AREAS CORRESPONDS TO THE COMPACTIVE EFFORT AS DEFINED BY THE STANDARD OR MODIFIED PROCTOR TEST. OPTIMUM MOISTURE CONTENT SHALL BE DETERMINED USING THE SAME TEST THAT WAS USED FOR COMPACTION. SOIL COMPACTION CURVES SHALL BE SUBMITTED TO THE CITY OF O'FALLON PRIOR TO THE PLACEMENT OF FILL. PROOF ROLLING MAY BE REQUIRED TO VERIFY SOIL STABILITY AT THE DISCRETION OF THE CITY OF O'FALLON.
3. THE SURFACE OF THE FILL SHALL BE FINISHED SO 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 UNDER PLACEMENT TO FREEZE.
4. ALL SEDIMENT AND DETENTION BASINS ARE TO BE CONSTRUCTED DURING THE INITIAL PHASE OF THE GRADING OPERATION OR IN ACCORDANCE WITH THE APPROVED SWPPP.
5. WHEN GRADING OPERATIONS ARE COMPLETE OR SUSPENDED FOR MORE THAN 14 DAYS, PERMANENT GRASS MUST BE ESTABLISHED AT SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON SITE. BETWEEN PERMANENT GRASS SEEDING PERIODS, TEMPORARY COVER SHALL BE PROVIDED ACCORDING TO MISSOURI DEPARTMENT OF NATURAL RESOURCES PROTECTING WATER QUALITY - A FIELD GUIDE TO EROSION, SEDIMENT AND STORMWATER BEST MANAGEMENT PRACTICES FOR DEVELOPMENT SITES IN MISSOURI AND KANSAS.ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY IMPROVEMENTS) IN EXCESS OF 20% SLOPES (5:1) SHALL BE MULCHED AND TACKED AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET WHEN SEEDED.
6. NO SLOPES SHALL EXCEED 3 (HORIZONTAL): 1 (VERTICAL) UNLESS OTHERWISE APPROVED BY THE SOILS REPORT AND SPECIFICALLY LOCATED ON THE PLANS AND APPROVED BY THE CITY ENGINEER.
7. ALL LOW PLACES WHETHER ON SITE OR OFF SHALL BE GRADED TO PROVIDE DRAINAGE WITH TEMPORARY DITCHES.
8. ANY EXISTING WELLS AND/OR SPRINGS WHICH MAY EXIST ON THE PROPERTY MUST BE SEALED IN A MANNER ACCEPTABLE TO THE CITY OF O'FALLON CONSTRUCTION INSPECTION DEPARTMENT AND FOLLOWING MISSOURI DEPARTMENT OF NATURAL RESOURCES STANDARDS AND SPECIFICATIONS.
9. ALL TRENCH BACK FILLS UNDER PAVED AREAS SHALL BE GRANULAR BACK FILL, AND COMPACTED MECHANICALLY. ALL OTHER TRENCH BACK FILLS MAY BE EARTH MATERIAL (FREE OF LARGE CLODS, OR STONES) AND COMPACTED USING EITHER MECHANICAL TAMPING OR WATER JETTING, GRANULAR MATERIAL AND EARTH MATERIAL ASSOCIATED WITH NEW CONSTRUCTION OUTSIDE OF PAVEMENTS MAY BE JETTED, TAKING CARE TO AVOID DAMAGE TO NEWLY LAID SEWERS. THE JETTING SHALL BE PERFORMED WITH A PROBE ROUTE ON NOT GREATER THAN 7.5 FOOT CENTERS WITH THE JETTING PROBE CENTERED OVER AND PARALLEL WITH THE DIRECTION OF THE PIPE. TRENCH WIDTHS GREATER THAN 10 FEET WILL REQUIRE MULTIPLE PROBES EVERY 7.5 FOOT CENTERS.
   - 9.1. DEPTH, TRENCH BACK FILLS LESS THAN 8 FEET DEEP SHALL BE PROBED TO A DEPTH EXTENDING HALF THE DEPTH OF THE TRENCH BACK FILL, BUT NOT LESS THAN 3 FEET. TRENCH BACK FILL GREATER THAN 8 FEET IN DEPTH SHALL BE PROBED TO HALF THE DEPTH OF THE TRENCH BACK FILL BUT NOT GREATER THAN 8 FEET.
   - 9.2. EQUIPMENT, THE JETTING PROBE SHALL BE A METAL PIPE WITH AN INTERIOR DIAMETER OF 1.5 TO 2 INCHES.
   - 9.3. METHOD, JETTING SHALL BE PERFORMED FROM THE LOWEST SURFACE TOPOGRAPHIC POINT AND PROCEED TOWARD THE HIGHEST POINT, AND FROM THE BOTTOM OF THE TRENCH BACK FILL TOWARD THE SURFACE. THE FLOODING OF EACH JETTING PROBE SHALL BE STARTED SLOWLY ALLOWING SLOW SATURATION OF THE SOIL. WATER IS NOT ALLOWED TO FLOW AWAY FROM THE TRENCH WITHOUT FIRST SATURATING THE TRENCH.
   - 9.4. SURFACE BRIDGING, THE CONTRACTOR SHALL IDENTIFY THE LOCATIONS OF THE SURFACE BRIDGING (THE TENDENCY FOR THE UPPER SURFACE TO CRUST AND ARCH OVER THE TRENCH RATHER THAN COLLAPSE AND CONSOLIDATE DURING THE JETTING PROCESS). THE CONTRACTOR SHALL BREAK DOWN THE BRIDGED AREAS USING AN APPROPRIATE METHOD SUCH AS WHEELS OR BUCKET OF A BACKHOE. WHEN SURFACE CRUST IS COLLAPSED, THE VOID SHALL BE BACK FILLED WITH THE SAME MATERIAL USED AS TRENCH BACK FILL AND RE-JETTED. COMPACTION OF THE MATERIALS WITHIN THE SUNKEN/JETTED AREA SHALL BE COMPACTED SUCH THAT NO FURTHER SURFACE SUBSIDENCE OCCURS.
10. SITE GRADING.
   - 10.1. WITHIN CITY RIGHT-OF-WAY. MATERIAL IS TO BE PLACED IN EIGHT (8) INCH TO TWELVE (12) INCH LOOSE LIFTS AND COMPACTED PER THE APPROVED COMPACTION REQUIREMENTS. ONE (1) COMPACTION TEST WILL BE PERFORMED EVERY TWO HUNDRED FIFTY (250) FEET ALONG THE CENTERLINE FOR EACH LIFT.
   - 10.2. OUTSIDE OF CITY RIGHT-OF-WAY. MATERIAL IS TO BE PLACED IN EIGHT (8) INCH TO TWELVE (12) INCH LOOSE LIFTS AND COMPACTED PER THE APPROVED COMPACTION REQUIREMENTS. ONE (1) COMPACTION TEST WILL BE PERFORMED AT TWO (2) FOOT VERTICAL INTERVALS AND APPROXIMATELY EVERY ONE THOUSAND (1,000) CUBIC YARDS.
11. ACCESS TO THE SITE FROM ANY OTHER LOCATION OTHER THAN THE PROPOSED CONSTRUCTION ENTRANCE IS STRICTLY PROHIBITED!

PRECAST MODULAR BLOCK WALL NOTES:

1. THE PRECAST MODULAR BLOCK WALL IS SHOWN ON THESE PLANS ARE FOR HORIZONTAL AND VERTICAL LOCATION PURPOSES ONLY.
2. THE DESIGN OF THE MODULAR BLOCK WALL SHALL BE PROVIDED BY THE WALL CONTRACTOR. THE MODULAR BLOCK WALL PLANS SHALL BE SEALED BY AN ENGINEER REGISTERED IN THE STATE OF MISSOURI AND SUBMITTED TO THE CITY OF O'FALLON FOR A BUILDING PERMIT.
3. THE MODULAR BLOCK WALL DESIGN SHALL BE SUBMITTED TO THE PROJECT'S GEOTECHNICAL ENGINEER AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
4. MODULAR BLOCK RETAINING WALL SHALL BE CONSTRUCTED OUT OF A VERSA-LOK BLOCK WALL SYSTEM OR APPROVED EQUAL.
5. THE MODULAR BLOCK WALL BLOCK TYPE, AND SIZE SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE AND THE ARCHITECT PRIOR TO CONSTRUCTION. THE COLOR OF THE WALL SHALL BE GRAY THAT COMPLIMENTS OR MATCHES THE BUILDING. IF THE COLORING SELECTION IS CHANGED, A CHANGE ORDER WILL NOT BE PERMITTED. COLOR SHALL BE ACCEPTED BY THE CITY OF O'FALLON PRIOR TO AUTHORIZATION BY THE GENERAL CONTRACTOR TO ORDER THE BLOCK.
6. THE ELEVATIONS SHOWN FOR THE MODULAR BLOCK WALL MAY VARY ACCORDING TO THE WALL SYSTEM SELECTED. THE ABBREVIATION "TW" XXX.XX AS INDICATED ON THE GRADING PLANS INDICATES THE PROPOSED ELEVATION AT THE TOP OF THE FINISHED WALL. THE ABBREVIATION "BW" XXX.XX INDICATES THE FINISHED GROUND ELEVATION AT THE FACE OF THE COMPLETED WALL. THE ACTUAL ELEVATION OF THE BOTTOM OF THE MODULAR BLOCKS OR FOUNDATION WILL BE DIFFERENT AND SHALL BE BASED ON THE WALL DESIGN. THE "GRND" ELEVATION MAY REFERENCE THE GROUND ELEVATION AT THE TOP OF THE WALL IF THE WALL IS FREESTANDING. VERIFY ALL ELEVATIONS PRIOR TO AUTHORIZING WORK.
7. THE PROJECT GEOTECHNICAL ENGINEER SHALL COMPLETE A GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN WHILE THE RETAINING WALL ENGINEER SHALL REVIEW GLOBAL STABILITY, FOUNDATION STABILITY AND WALL STABILITY AND ISSUE A REPORT TO THE OWNER AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION. THE WALL CONTRACTOR/INSTALLER SHALL PROVIDE THE GLOBAL STABILITY ANALYSIS AND WALL DESIGN REPORT IN ADDITION TO ANY ADDITIONAL COSTS ASSOCIATED WITH THE RETAINING WALL DESIGN SHALL BE INCLUDED IN HIS/HER BID.
8. INTERNAL STABILITY ANALYSES SHOULD CONFORM TO THE LATEST DESIGN METHODOLOGY ACCEPTED FOR USE BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA), AASHTO, OR THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA). SINCE THESE ANALYSIS PROCEDURES ARE BASED ON THE USE OF DRAINED STRENGTH PARAMETERS, THE BACKFILL USED FOR THE GEOGRID REINFORCED BACKFILL SECTIONS SHOULD BE A PERMEABLE GRANULAR MATERIAL CONFORMING TO THE ASSUMPTIONS OF THE ANALYSIS. COHESIVE SOIL OR GRANULAR MATERIAL CONTAINING HIGH AMOUNTS OF FINES ARE NOT CONSIDERED PERMEABLE AND SHOULD NOT BE ALLOWED IN THE GEOGRID REINFORCED BACKFILL ZONES, UNLESS PROVISIONS ARE MADE TO PROVIDE BACK SLOPE AND SURFACE DRAINAGE THAT WOULD PREVENT WATER FROM ENTERING THE BACKFILL. BOTH THE AASHTO AND FHWA DESIGN METHODS SPECIFY THAT REINFORCED BACKFILL MATERIALS CONTAIN LESS THAN 15 PERCENT PASSING THE NO. 200 SIEVE. THE DESIGNER SHOULD STATE IN THE CONSTRUCTION SPECIFICATIONS THE BACKFILL MATERIAL DESCRIPTION AND DESIGN STRENGTH PARAMETERS SO THAT UNSUITABLE MATERIALS ARE NOT ALLOWED IN THE BACKFILL ZONES DURING CONSTRUCTION.
9. GLOBAL STABILITY OF THE WALL SYSTEMS SHOULD BE ANALYZED USING BOTH DRAINED AND IMPERMEABLE STRENGTH PARAMETERS. PARAMETERS USED IN THE ANALYSIS SHOULD NOT EXCEED THOSE GIVEN IN THE FOLLOWING TABLE FOR THE NATIVE AND FILL MATERIALS ENCOUNTERED, OR ANTICIPATED TO THE BE PLACED BEHIND THE REINFORCING ZONES OF THE PROJECT. THESE PARAMETERS ARE BASED ON LIMITED LABORATORY TESTING PERFORMED AS PART OF THIS STUDY AND OUR EXPERIENCE WITH SIMILAR MATERIALS. CONFIRMATORY TESTING IS RECOMMENDED. WE RECOMMEND THAT THE WALL CONTRACTOR/DESIGNER BE REQUIRED TO PROVIDE THE GLOBAL STABILITY ANALYSES BASED ON THE PLANNED FINAL CROSS-SECTIONS, INCLUDING THE TOPOGRAPHY ABOVE AND BELOW THE WALLS, USING THE GENERALIZED SUBSURFACE STRATIGRAPHY DISCUSSED IN GEOTECHNICAL REPORT.
10. THE WALL ENGINEER AND WALL CONTRACTOR SHALL PROVIDE THE OWNER, THE GENERAL CONTRACTOR AND THE DEVELOPER A WARRANTY OF AT LEAST 10 YEARS. THIS PRICE MUST BE INCLUDED IN BID.
11. ALL WALL COLORS SHALL BE INCLUDED IN THE ORIGINAL BID. NO CHANGE ORDERS WILL BE ACCEPTED BASED ON WALL COLOR SELECTION FROM ARCHITECT AND/OR OWNER. COLOR SHALL BE DETERMINED AT LEAST 2 WEEKS PRIOR TO MANUFACTURING BLOCK.
12. VERIFICATION OF ELEVATIONS BY THE WALL ENGINEER IS REQUIRED PRIOR TO SUBMITTING SHOP DRAWINGS. IF ANY DISCREPANCIES ARE FOUND WITH THIS GRADING PLAN AND THE WALL DESIGN, THE WALL ENGINEER SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION AND ORDERING OF BLOCK.

GRADING PLAN NOTES:

1. THE CONTRACTOR SHALL RESTORE OFFSITE CONSTRUCTION AREAS TO AN EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. ALL GRADES SHALL BE WITHIN 0.1 FEET MORE OR LESS OF THOSE SHOWN ON THE GRADING PLAN.
3. NO SLOPE SHALL BE GREATER THAN 3:1 AND SHALL BE EITHER SODDED OR SEEDED AND MULCHED UNLESS OTHERWISE NOTED OR DETAILED.
4. THE CONTRACTOR SHALL FIELD INVESTIGATE THE ENTIRE SITE PRIOR TO HIS BID SUBMITTAL NOTING THE EXISTING VEGETATION AND TREES AND INCLUDING THE REMOVAL AND DISPOSAL OF SAME IN HIS BID.
5. NO AREA SHALL BE CLEARED WITHOUT PERMISSION OF THE OWNER.
6. EROSION AND SILTATION CONTROL WILL BE PROVIDED AS REQUIRED TO PREVENT RUN-OFF. REFER TO THE EROSION CONTROL PLAN AND DETAILS.
7. ALL TRASH, DEBRIS, ORGANIC MATERIAL, REFUSE, FROZEN EARTH, ETC., SHALL BE REMOVED FROM FILL AREAS PRIOR TO THE PLACEMENT OF CONTROLLED FILL. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
8. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL PER THE EROSION AND SEDIMENT CONTROL PLAN AND MAY BE REQUIRED TO PROVIDE ADDITIONAL MEASURES AS REQUESTED BY CITY OF O'FALLON, SHOULD EROSION CONTROL PLAN PROVE TO BE INSUFFICIENT.
9. CARE SHALL BE EXERCISED IN COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES OR PIPES IN ORDER TO PREVENT DAMAGE TO THE WATERPROOFING MEMBRANES, JOINTS, SEALS AND/OR THE PIPES AND STRUCTURES THEMSELVES. COMPACTION AND PLACING OF BACKFILL AND FILL MATERIALS SHALL BE PERFORMED UNDER THE CONTINUOUS SUPERVISION OF AN APPROVED TESTING LABORATORY. FILL SHALL NOT BE PLACED ON FROZEN GROUND, NOR SHALL FILLING OPERATIONS CONTINUE WHEN THE TEMPERATURE IS SUCH AS TO PERMIT THE LAYER UNDER PLACEMENT TO FREEZE.
10. ALL CITY, COUNTY, AND STATE ROADS SHALL BE KEPT FREE OF DIRT DAILY.
11. FINAL GRADES AT THE PROJECT BOUNDARY SHALL MATCH EXISTING ELEVATIONS UNLESS OTHERWISE SHOWN.
12. THE DEVELOPER IS REQUIRED TO PROVIDE ADEQUATE STORM WATER SYSTEMS IN ACCORDANCE WITH O'FALLON STANDARDS AND SPECIFICATIONS.
13. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF O'FALLON STANDARDS.
14. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.
15. G.C. TO BE AWARE THAT A LAND DISTURBANCE PERMIT WILL BE REQUIRED. SITE PLAN/PLAT APPROVAL IS NOT TO BE CONSTRUED AS APPROVAL OF A LAND DISTURBANCE PERMIT.
16. ALL WORK SHALL BE IN COMPLIANCE WITH THE PROJECT GEOTECHNICAL SERVICES REPORT FOR THIS PROJECT.
17. ANY DISTURBED SIDEWALK AREAS SHALL BE REPLACED WITH FULL SLABS.
18. CONTRACTOR SHALL CONFIRM ALL EXISTING SLOPES FOR ACCESSIBLE ROUTES AS WELL AS THE ACCESSIBLE PARKING STALLS AND ACCESSIBLE AISLES WITH A SLOPE METER TO CONFIRM MAXIMUM SLOPES ARE NOT EXCEEDED.
19. CONTRACTOR IS REQUIRED TO PROVIDE AS-BUILT SPOT ELEVATIONS ALONG THE ACCESSIBLE ROUTES SHOWN ON THIS PLAN EVERY 10 FEET IN ORDER TO CONFIRM MAXIMUM (2%) CROSS-SLOPE AND MAXIMUM (5%) SLOPES IN THE DIRECTION OF TRAVEL. IN ADDITION, SPOT ELEVATIONS ARE REQUIRED ON ALL CORNERS AND MIDPOINTS OF ACCESSIBLE PARKING STALLS AND ACCESSIBLE AISLES TO CONFIRM MAXIMUM 2% SLOPES ARE NOT EXCEEDED IN ALL DIRECTIONS. THIS INFORMATION SHALL BE PROVIDED, A MINIMUM OF 2 WEEKS BEFORE STORE TURNOVER.
20. THE GENERAL CONTRACTOR & CONCRETE CONTRACTOR SHALL FIELD VERIFY ADA SLOPES DURING CONCRETE POUR. A 2' SMART LEVEL WITH AN ACCURACY TO .029 PERCENT SHALL BE USED FOR VERIFYING SLOPES. ANY SLOPES IN THE ADA AREAS THAT EXCEED A 2% CROSS SLOPE ALONG THE BUILDING, ADA STALLS AND/OR SIDEWALK, 5% RUNNING SLOPE FOR SIDEWALKS AWAY FROM THE PROPOSED BUILDING, AND EXCEED 8.3% ON RAMPS SHALL BE REMOVED AND REPLACED AT THE CONCRETE CONTRACTOR'S EXPENSE. THE SURVEYOR FOR STAKING CAN PROVIDE A REFERENCE FOR ELEVATION HOWEVER CONFIRMATION IS REQUIRED BY SLOPE LEVEL DURING CONSTRUCTION.
21. ALL LANDSCAPE ISLANDS AND GREEN SPACE IN THE RIGHT-OF-WAY SHALL BE IRRIGATED.
22. EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
23. IRRIGATION PLAN WILL BE DESIGN BUILD. ALL REQUIRED CONDUIT AND STUBS UNDERNEATH THE PAVEMENT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR AND INSTALLED PRIOR TO CURB AND PAVEMENT INSTALLATION. STUBS FOR CONDUITS SHALL BE 2" DIAMETER MINIMUM.
24. CONTRACTOR SHALL CONFIRM ALL EXISTING SLOPES FOR ACCESSIBLE ROUTES AS WELL AS THE ACCESSIBLE PARKING STALLS AND ACCESSIBLE AISLES WITH A SLOPE METER TO CONFIRM MAXIMUM SLOPES ARE NOT EXCEEDED.

   SPOT ELEVATION REFERENCE:
   ALL ELEVATIONS SHOWN ON THE GRADING PLAN ARE TO TOP OF PAVEMENT OR FINISHED GROUND UNLESS NOTED OTHERWISE. ELEVATIONS TO POINTS OTHER THAN THE TOP OF PAVEMENT ARE NOTED AS FOLLOWS:
   TP=TOP OF PAVEMENT
   TC=TOP OF CURB
   TW=TOP OF WALL
   BW=FINISHED GROUND AT FACE OF WALL
   GRND=FINISHED GROUND IN AREAS OUTSIDE OF PAVEMENT

EROSION CONTROL NOTES

1. THE PERMITTEE SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE PERMITTEE 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 THE CLEARING OPERATIONS AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY CITY OF O'FALLON AND AS NEEDED BY MODOT. THE PERMITTEE'S RESPONSIBILITIES INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF O'FALLON AND AS REQUIRED BY MODOT MAY AT THEIR OPTION DIRECT THE PERMITTEE 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 AND/OR SWALES SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED TO THE SATISFACTION OF THE CITY OF O'FALLON AND AS REQUIRED BY MODOT."
2. ALL EROSION CONTROL SYSTEMS ARE TO BE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAIN STORM RESULTING IN ONE-QUARTER INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHT OF WAY OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS AFTER THE END OF THE STORM.
3. EROSION CONTROL DEVICES (SILT FENCE, SEDIMENT BASIN, ETC.) SHALL BE IN ACCORDANCE WITH MISSOURI DEPARTMENT OF NATURAL RESOURCES PROTECTING WATER QUALITY - A FIELD GUIDE TO EROSION, SEDIMENT AND STORMWATER BEST MANAGEMENT PRACTICES FOR DEVELOPMENT SITES IN MISSOURI AND KANSAS.
4. THIS DEVELOPMENT IS REQUIRED TO PROVIDE LONG TERM POST CONSTRUCTION BMP'S SUCH AS; LOW IMPACT DESIGN, SOURCE CONTROL AND TREATMENT CONTROLS THAT PROTECTS WATER QUALITY AND CONTROLS RUN OFF TO MAXIMUM EXTENT PRACTICAL IN COMPLIANCE WITH PHASE II ILLICIT STORM WATER DISCHARGE GUIDELINES. (ORD. 5082, SECTION 405.245)
5. GRADED AREAS SHALL BE SEEDED AND MULCHED (STRAWED) WITHIN 14 DAYS OF STOPPING LAND DISTURBANCE ACTIVITIES. UNLESS IT CAN BE SHOWN TO THE CITY ENGINEER THAT WEATHER CONDITIONS ARE NOT FAVORABLE, VEGETATIVE GROWTH IS TO BE ESTABLISHED WITHIN 6 WEEKS OF STOPPING GRADING WORK ON THE PROJECT. THE VEGETATIVE GROWTH ESTABLISHED SHALL BE SUFFICIENT TO PREVENT EROSION AND THE STANDARD SHALL BE AS REQUIRED BY EPA AND DNR. (70% COVERAGE PER SQUARE FOOT) ORD. 6496, SECTION 405.095

SANITARY SEWER NOTES

1. ALL SANITARY SEWER INSTALLATION IS TO BE IN ACCORDANCE WITH M.S.D. STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.
2. BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF SANITARY SEWER STRUCTURES. PRE CAST CONCRETE STRUCTURES ARE TO BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF O'FALLON.
3. CONNECTIONS AT ALL SANITARY STRUCTURES ARE TO BE MADE WITH A-LOCK JOINT OR EQUAL
4. ALL SANITARY LATERALS SHALL BE A MINIMUM OF 4" RESIDENTIAL, 6" COMMERCIAL DIAMETER PIPE.
5. ALL SANITARY MAINS SHALL BE A MINIMUM OF 8" DIAMETER PIPE.
6. ALL SANITARY SEWER LINE WITH A SLOPE GREATER THAN 20% WILL REQUIRE CONCRETE CRADLE OR CONCRETE COLLAR AT EACH PIPE JOINT. SANITARY LINE WITH A SLOPE GREATER THAN 50% WILL REQUIRE A SPECIAL APPROVED DESIGN AS SHOWN ON DETAIL SHEET.
7. ALL MANHOLES BUILT WITHIN THE 100 YEAR FLOOD PLAIN MUST HAVE LOCK TYPE WATERTIGHT MANHOLE COVERS.
8. ALL SANITARY SEWER MAINS MUST HAVE A MINIMUM OF 42" COVER.
9. WHEN SANITARY MAINS CROSS OVER STORM LINE THE SANITARY MAIN MUST BE DUCTILE IRON PIPE FOR 10 FEET ON EACH SIDE OF THE CROSSING.
10. ENCASE WITH CONCRETE BOTH SANITARY AND STORM SEWER AT CROSSING WHEN STORM SEWER IS WITHIN 18 INCHES ABOVE SANITARY SEWER. ADD CONCRETE CRADLE TO ONLY RCP STORM SEWER AND ENCASE FLEXIBLE STORM SEWER WHEN IT IS MORE THAN 18 INCHES ABOVE SANITARY LINE. SHOW ON PROFILE SHEET.
11. THE SANITARY SEWERS SHOULD RUN DIAGONALLY THROUGH THE SIDE YARDS TO MINIMIZE ANY ADDITIONAL UTILITY EASEMENTS REQUIRED.
12. ALL SANITARY SEWER STRUCTURES SHALL BE WATERPROOFED ON THE EXTERIOR IN ACCORDANCE TO MISSOURI DNR SPECIFICATIONS 10CSR-8.120 (7)(E).
13. ALL SANITARY SEWER PIPE SHALL BE SDR35 OR EQUAL. ALL SANITARY SEWER LATERALS SHALL BE SCHEDULE 40.
14. ALL SANITARY SEWER MANHOLES AND PIPES WILL BE TESTED TO THE FOLLOWING SPECIFICATIONS. ASTM C1244, STANDARD TESTING METHOD FOR CONCRETE SEWER MANHOLE BY NEGATIVE AIR PRESSURE (VACUUM), LATEST REVISION ASTM F1417, STANDARD TESTING METHOD FOR INSTALLATION ACCEPTANCE OF PLASTIC GRAVITY SEWER LINES USING LOW PRESSURE AIR, LATEST REVISION.
15. ADD 1" MINUS ROCK BACK FILL TO ALL SANITARY SEWER AND ALL OTHER UTILITIES THAT LIE WITHIN THE 1:1 SHEAR PLANE OF THE ROAD.

STORM SEWER NOTES

1. ALL STORM SEWER INSTALLATION IS TO BE IN ACCORDANCE WITH M.S.D. STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.
2. BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM SEWER STRUCTURES. PRE CAST CONCRETE STRUCTURES ARE TO BE USED UNLESS OTHERWISE APPROVED BY THE CITY OF O'FALLON.
3. A 5/8" TRASH BAR SHALL BE INSTALLED HORIZONTALLY IN THE CENTER OF THE OPENING(S) IN ALL CURB INLETS AND AREA INLETS.
4. ENCASE WITH CONCRETE BOTH SANITARY AND STORM SEWER AT CROSSING WHEN STORM SEWER IS WITHIN 18 INCHES ABOVE SANITARY SEWER. ADD CONCRETE CRADLE TO ONLY RCP STORM SEWER AND ENCASE FLEXIBLE STORM SEWER WHEN IT IS MORE THAN 18 INCHES ABOVE SANITARY LINE. SHOW ON PROFILE SHEET.
5. THE STORM SEWERS SHOULD RUN DIAGONALLY THROUGH THE SIDE YARDS TO MINIMIZE ANY ADDITIONAL UTILITY EASEMENTS REQUIRED.
6. ALL CONCRETE PIPES WILL BE INSTALLED WITH O-RING RUBBER TYPE GASKETS.
7. CONNECTIONS AT ALL STORM STRUCTURES ARE TO BE MADE WITH A-LOCK JOINT OR EQUAL.
8. PRE CAST CONCRETE INLET COVERS SHALL NOT TO BE USED.
9. THE SWALE IN THE DETENTION BASINS SHALL HAVE A MINIMUM 2% LONGITUDINAL SLOPE AND BE LINED WITH A PERMANENT EROSION CONTROL BLANKET THAT WILL ALLOW INFILTRATION OF STORM WATER.
10. ALL STRUCTURES AND FLARED END SECTIONS MUST BE CONCRETE. H.D.P.E. PIPE AND CMP PIPE WILL NOT BE ALLOWED FOR DETENTION BASIN OUTFLOWS, FINAL PIPE RUN TO DETENTION BASINS, CREEK DISCHARGE OR OTHER APPROVED MEANS.
11. RIP RAP SHOWN AT FLARED END SECTIONS WILL BE EVALUATED IN THE FIELD BY THE ENGINEER, CONTRACTOR, AND CITY INSPECTORS AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED, IF NECESSARY TO REDUCE EROSION ON AND OFF SITE.
12. ADD 1" MINUS ROCK BACK FILL TO ALL STORM SEWERS THAT LIE WITHIN THE 1:1 SHEAR PLANE OF THE ROAD.
13. AREAS WITHIN MODOT RIGHT-OF-WAY SHALL BE PER MODOT'S STANDARD DETAILS AND SPECIFICATIONS.

METROPOLITAN SAINT LOUIS SEWER DISTRICT CONSTRUCTION STANDARDS AND DETAILS CAN BE FOUND AT:
HTTPS://WWW.STLMSD.COM/MSD-WORK/CONSTRUCTION/STANDARD-CONSTRUCTION-SPECS/STANDARD-DETAIL-SHEETS

FLOOD PLAIN INFORMATION

1. REFER TO SECTION 415 FOR FLOODPLAIN DEVELOPMENT INFORMATION

RETAINING WALLS: TERRACED AND VERTICAL

1. A PERMIT IS REQUIRED FOR ALL RETAINING WALLS THAT ARE 48 INCHES OR TALLER IN HEIGHT, MEASURED FROM THE TOP OF THE FOOTING TO THE TOP OF THE WALL OR FOR WALLS THAT SUPPORT A SURCHARGE LOAD OR THAT ALTERS THE CHANNELIZED DRAINAGE OF ANY LOT OR DRAINAGE AREA.
2. RETAINING WALLS WILL NOT BE ALLOWED IN PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.
3. ANY RETAINING WALL MORE THAN THIRTY (30) INCHES TALL WHICH SUPPORTS A WALKING SURFACE THAT IS WITHIN TWO (2) FEET OF THE WALL WILL REQUIRE A GUARD ON THE RETAINING WALL.
4. RETAINING WALLS THAT ALTER THE CHANNELED DRAINAGE OF ANY LOT OR DRAINAGE AREA SHALL NOT BE CONSTRUCTED WITHOUT PRIOR APPROVAL AND PERMITTING FROM THE CITY OF O'FALLON ENGINEERING DEPARTMENT REGARDLESS OF THE HEIGHT OF THE WALL.
5. SEE SECTION 405.275 OF THE CITY CODE FOR ADDITIONAL DESIGN REQUIREMENTS.

GENERAL SITE NOTES:

1. AREA OF TRACT: 23.65 ACRES
2. PARCEL ID: 2-056BC250-00-0002.0000000
3. BASIS OF BEARINGS FOR THIS SURVEY WAS ADOPTED FROM THE MISSOURI STATE PLANE COORDINATE SYSTEM, NAD 1983, EAST ZONE.
4. BENCHMARK: ELEVATION WAS ESTABLISHED USING THE MISSOURI DEPARTMENT OF TRANSPORTATION'S VRS, RTK SYSTEM, NAVD 88 DATUM.
5. CURRENT ZONING: I-1 LIGHT INDUSTRIAL
6. STORMWATER REQUIREMENTS FOR DETENTION AND WATER QUALITY SHALL BE PROVIDED FOR IN A REGIONAL DETENTION BASIN.
7. ALL PUBLIC IMPROVEMENTS SHALL BE REQUIRED TO MEET ADAAG 2010 AND CITY OF O'FALLON DESIGN STANDARDS.
8. DIMENSIONS SHOWN FOR PROPOSED IMPROVEMENTS ARE FROM FACE OF CURB OR FACE OF BUILDING UNLESS SPECIFICALLY NOTED.
9. SIDEWALKS ALONG THE ACCESSIBLE ROUTE SHALL NOT HAVE A SLOPE EXCEEDING 1'V:20'H. SLOPES GREATER THAN 1'V:20'H MUST BE DESIGNED AS A RAMP UNLESS PARALLEL WITH THE PROPOSED ROAD GRADE OR THE SLOPE IS ASSOCIATED WITH A CURB RAMP.
10. SIDEWALKS, CURB RAMPS, RAMPS AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS, SPECIFICATIONS AND SIGNAGE.
11. NO GRADE SHALL EXCEED 3:1 SLOPE.
12. STORMWATER SHALL BE DISCHARGED AT ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE NATURAL DISCHARGE POINTS.
13. ALL LANDSCAPING SHALL BE PROVIDED AS REQUIRED BY THE CITY OF O'FALLON.
14. COMMON GROUND AREAS SHALL ALSO BE GENERAL UTILITY AND DRAINAGE EASEMENTS FOR THE USE BY THE UTILITIES SERVED IN THE CITY OF O'FALLON.
15. ALL PARKING LOT AND ROADWAY IMPROVEMENT AREAS SHALL USE VERTICAL CONCRETE CURB AS REQUIRED PER CITY STANDARDS AND SPECS.
16. ANY CONFLICTING SPECIFICATIONS OR NOTES SHALL BE SUPERCEDED BY THE MORE CONSERVATIVE SPECIFICATION.
17. THIS PROJECT SHALL FOLLOW ALL STANDARD SPECIFICATIONS PER THE CITY OF O'FALLON ORDINANCES.

UTILITY PLAN NOTES:

1. ALL COMPACTED FILL MATERIAL PER THE PROJECT GEOTECHNICAL REPORT SHALL BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
3. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 3'-6' COVER ON ALL WATERLINES AND 3'-6' ON ALL SANITARY SEWER LINES.
4. CONTRACTOR SHALL COORDINATE WITH BUILDING ARCHITECT AND TELEPHONE COMPANY FOR EXACT LOCATIONS OF TELEPHONE ENTRY TO THE BUILDING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDUITS, PULL WIRES, TRENCHING, BACKFILL, ETC. REQUIRED BY TELEPHONE COMPANY.
5. CONNECTION FROM THE METER TO SITE UTILITY LINES SHALL BE MADE BY BUILDING CONTRACTOR.
6. REFER TO INTERIOR MECHANICAL, ELECTRIC AND PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
7. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
8. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
9. CONTRACTOR SHALL COORDINATE WITH BUILDING ARCHITECT AND GAS COMPANY FOR EXACT LOCATION OF GAS ENTRY. G.C. TO INCLUDE IN BID FOR CONTRACTOR ANY GAS PIPING, CONDUITS, TRENCHING, BACKFILLING, ETC. REQUIRED BY GAS COMPANY.
10. CONTRACTOR SHALL COORDINATE WITH BUILDING ARCHITECT AND ELECTRIC COMPANY FOR EXACT LOCATION OF ELECTRIC ENTRY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONDUITS, TRENCHING, BACKFILLING, CABLES, ETC. REQUIRED BY ELECTRIC COMPANY.
11. REFERENCE MEP PLANS FOR GAS SERVICE SIZING.
12. ALL UTILITY SEWER TRENCH BACKFILL SHALL HAVE GRANULAR BACKFILL AND BE MECHANICALLY COMPACTED.
13. THE CONTRACTOR SHALL VERIFY THE LOCATION, CONDITION AND ELEVATION OF ALL PROPOSED SEWER CONNECTION POINTS PRIOR TO THE START OF CONSTRUCTION. . CONTRACTOR SHALL ENSURE THE INVERT ELEVATIONS FROM THE MEP DRAWINGS MATCH THE CIVIL DRAWINGS PRIOR TO CONSTRUCTING IN THE FIELD. ANY DISCREPANCIES THAT WOULD INTERFERE WITH THE PROPOSED SEWER DESIGN SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER
14. ALL PERMIT FEES AND COSTS ASSOCIATED WITH BRINGING UTILITY, SEWER AND WATER SERVICES TO THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL FEES AND COSTS SHALL BE INCLUDED IN THE CONTRACTORS BID.
15. G.C. IS TO PROVIDE TRENCH, WIRE, AND CONDUIT FOR TELEPHONE AND ELECTRICAL SERVICES, BACKFILL AND GRADE SMOOTH FOR A COMPLETE TELEPHONE AND ELECTRIC INSTALLATION.
16. G.C. TO PROVIDE OPENING FOR CITY OF O'FALLON TO MAKE TAP. G.C. IS ALSO TO PROVIDE TRENCH, BACKFILL AND GRADE SMOOTH FOR A COMPLETE WATER LINE INSTALLATION.
17. ALL LANDSCAPE ISLANDS AND GREEN SPACE IN THE ADJOINING RIGHT-OF-WAY SHALL BE IRRIGATED.
18. EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
19. IRRIGATION PLAN SHALL BE DESIGN/BUILD AND INCLUDED WITHIN THE GENERAL CONTRACTOR'S BID. ALL REQUIRED PIPING, FITTINGS AND CONDUIT UNDERNEATH THE PAVEMENT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR AND INSTALLED PRIOR TO CURB AND PAVEMENT INSTALLATION. TEMPORARY IRRIGATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
20. THE CONTRACTOR SHALL INCLUDE THEIR BID COORDINATION WITH POWER COMPANY AND ANY ESTIMATES PROVIDED BY THE POWER COMPANY. THE GENERAL CONTRACTOR SHALL INCLUDE IN THEIR BID ANY POTENTIAL OR ACTUAL RELOCATION AND/OR REMOVAL OF ANY ASSOCIATED ELECTRIC FEES, PAYMENTS AND/OR PAYMENTS TO THE ELECTRIC COMPANY FOR SERVICES RENDERED..
21. THE CONTRACTOR SHALL INCLUDE ALL TELEPHONE INSTALLATION COSTS BY THE LOCAL PHONE COMPANY IN HIS/HER BID.
22. ANY INFORMATION ON THESE PLANS THAT MAY REFERENCE A DIFFERENT MANUFACTURER BASED ON THE NOMENCLATURE OF THE CALLOUT IN THE PLANS, PROFILES OR DETAILS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THEIR BID PACKAGE. IF THE CONTRACTOR CANNOT GET AN ANSWER RELATING TO THE MANUFACTUER AND/OR TYPE OF A PRODUCT OR MATERIAL THE CONTRACTOR SHALL REFER TO THE MORE EXPENSIVE PRODUCT TO ENSURE ALL BIDS ARE REFERENCING THE SAME PRODUCT.
23. DUE TO VARYING STRUCTURE TYPES FOR UTILITIES, THE CONTRACTOR SHALL VERIFY CURB AND ELEVATION LOCATIONS ADJOINING THE UTILITY TO ENSURE THAT THE LOCATION, DEPTH AND ELEVATION MATCH ACCORDINGLY. GRATE INLETS WITH SIDE INTAKES HAVE A CRITICAL LOCATION THAT MUST BE LOCATED WITHIN THE CURB. PREMIER DESIGN GROUP WILL NOT BE RESPONSIBLE FOR STRUCTURE PLACEMENT DUE TO CHANGES FROM THE CONSTRUCTION DOCUMENTS.
24. NAMING CONVENTION OF STORM SEWER STRUCTURES IS AS FOLLOWS:

	NAME	ABBREVIATION	DESCRIPTION
24.1.			
24.2.	AREA INLET	AI	OPEN ON FOUR SIDES
24.3.	DOUBLE AREA INLET	DAI	TWO AREA INLETS COMBINED
24.4.	GRATE INLET WITH SIDE INTAKE	GSI	MSD 2 GRATE INLET WITH SIDE INTAKE OR ADS GRATE WITH INTAKE
24.5.	GRATE INLET	GI	MSD 2 GRATE INLET
24.6.	GRATE INLET - PEDESTRIAN	PGI	ADS PEDESTRIAN GRATE INLET
24.7.	DOUBLE GRATE INLET	4GI	MSD DOUBLE GRATE INLET
24.8.	MANHOLE	MH	MSD STORM SEWER MANHOLE OR ADS NYLOPLAST MANHOLE
24.9.	CURB INLET	CI	MSD CURB INLET
24.10.	DOUBLE CURB INLET	DCI	MSD DOUBLE CURB INLET
24.11.	CLEANOUT	CO	CLEANOUT WITH CAST IRON TOP
24.12.	ADS DOME	DME	ADS NYLOPLAST STRUCTURE AND 30" DOME
24.13.	YARD DRAIN	YD	ADS OR NDS 12" YARD DRAIN WITH DOME
24.14.	TRENCH DRAIN	TD	REFER TO DETAIL FOR TYPE AND SPECIFICATIONS.

WATER NOTES

1. FIRE HYDRANTS SHALL BE A MAXIMUM OF 600' APART. LOCAL FIRE DISTRICT APPROVAL IS REQUIRED.
2. COORDINATE WITH THE WATER COMPANY ON THE LOCATION OF WATER METERS. FOR METERS IN THE CITY'S DISTRICT, METERS SHALL BE IN THE RIGHT-OF-WAY, OTHERWISE AN ACCESS EASEMENT FROM THE RIGHT-OF-WAY SHALL BE PROVIDED.
3. ALL WATER MAIN MUST HAVE A MINIMUM OF 42" OF COVER. (CITY WATER MAINS)
4. PROVIDE WATER VALVES TO ISOLATE THE SYSTEM.
5. ALL WATER MAINS SHALL BE CLASS 200 SDR 21 OR EQUAL WITH LOCATOR/TRACER WIRES
6. IF THE EXCAVATIONS ARE MADE IN THE IMPROVED PORTION OF THE RIGHT-OF-WAY, TWELVE INCHES OF GRANULAR BACKFILL WILL BE PLACED OVER EXPOSED FACILITIES AND CONTROLLED LOW STRENGTH MATERIAL (CLSM) AKA FLOWABLE FILL WILL FILL THE HOLE WITH EIGHT INCHES OF THE FINISHED SURFACE FOR CONCRETE PAVEMENT. THERE WILL BE A PLASTIC MEMBRANE PLACED BETWEEN THE ROCK BASE AND THE CLSM TO PREVENT THE MATERIAL FROM BLEEDING INTO THE ROCK BASE. THE REMAINING EIGHT INCHES WILL BE RESTORED BY PLACING A 28 DAY, 4,000 PSD CONCRETE MIX.
7. DISINFECTING: DISINFECTING SHALL BE ACCOMPLISHED BY PLACING SUFFICIENT HYPO CHLORITE GRANULE (HTH) IN EACH SECTION OF PIPE TO ACHIEVE A CHLORINE RESIDUAL IN THE PIPELINE, UPON INITIAL FILLING, OF 50 MG/L (PPM). HT. TABLETS WILL NOT BE ALLOWED. FOLLOWING COMPLETION OF THE PIPELINE, IT SHALL BE SLOWLY FILLED WITH WATER AND A SAMPLE WILL BE TAKEN IMMEDIATELY AND THE CHLORINE RESIDUAL MUST BE 50 MG/L OR GREATER. THE SOLUTION SHALL BE ALLOWED TO STAND FOR 24 HOURS AND A SAMPLE SHALL THEN BE TAKEN. THE CHLORINE RESIDUAL AFTER 24 HOURS SHALL BE 30 MG/L OR GREATER. IF THE PIPING SHOWS INSUFFICIENT CHLORINE RESIDUALS IN EITHER TEST, THE PIPING SHALL BE RE-CHLORINATED BY THE INJECTION OF HYPO CHLORITE SOLUTION UNTIL SATISFACTORY RESULTS ARE ACHIEVED. ALL DISINFECTING SHALL BE DONE BY THE CONTRACTOR. ONLY THE TESTING TO DETERMINE THE CHLORINE RESIDUAL WILL BE DONE BY THE CITY.
8. PRESSURE TESTING: IMMEDIATELY FOLLOWING DISINFECTION, THE PIPING SHALL BE PUMPED TO A PRESSURE (AT THE HIGHEST POINT IN THE PROJECT) OF 150 PSI OR HIGHER WHERE THE WORKING PRESSURE IS HIGHER THAN 150 PSI AS DETERMINED BY THE CITY. IN SUCH CASES, THE PRESSURE SHALL BE AS SPECIFIED BY THE CITY AND TWO PRESSURE TESTS SHALL BE CONDUCTED. THE FIRST TEST SHALL BE WITH THE FIRE HYDRANT AUXILIARY VALVE OPEN AND BE TO 50 PSI. THE SECOND TEST SHALL BE WITH THE FIRE HYDRANT AUXILIARY VALVE CLOSED AND BE TO THE HIGHER PRESSURE AS DIRECTED BY THE CITY. ALL PUMPING EQUIPMENT AND PRESSURE GAUGES SHALL BE PROVIDED BY THE CONTRACTOR. AFTER ACHIEVING THE TEST PRESSURE, THE PIPING SHALL BE LEFT CLOSED FOR A PERIOD OF TWO (2) HOURS. AT THE END OF THIS TIME THE PRESSURE DROP SHALL NOT EXCEED 2 PSI. IN ADDITION, IF THE PRESSURE APPEARS, IN JUDGMENT OF THE CITY'S REPRESENTATIVE, TO BE CONTINUING TO DROP, THE TEST SHALL BE CONTINUED FOR ANOTHER TWO (2) HOURS AND IF ANY FURTHER DROPS OCCUR, THE TEST SHALL BE CONSIDERED A FAILURE. IF THE PRESSURE TEST FAILS, THE CONTRACTOR WILL BE REQUIRED TO FIND AND CORRECT THE SOURCE OF THE LEAKAGE. IF THIS REQUIRES DRAINING OF THE PIPELINE, WHEN THE LEAKAGE IS CORRECTED, THE PIPELINE MUST BE RE-DISINFECTED AND THE PRESSURE TESTED AGAIN UNTIL SATISFACTORY RESULT ARE ACHIEVED. ANY MDNR REQUIRED DECHLORINATION WILL BE PERFORMED BY THE CONTRACTOR.
9. ALL TOPS FOR VALVES, METERS, AND MANHOLES ARE TO BE CONSTRUCTED TO WITHIN 1 INCH (0.08') OF FINISH GRADE. GRADING AROUND STRUCTURE TOPS ON SLOPES NEED TO BE ACCOUNTED FOR.
10. BACTERIOLOGICAL TESTING: AFTER SATISFACTORY DISINFECTION AND PRESSURE TESTING, A SAMPLE SHALL BE TAKEN BY THE CONTRACTOR IN THE PRESENCE OF A CITY REPRESENTATIVE AND SUBMITTED TO A LABORATORY APPROVED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES AND THE CITY FOR BACTERIOLOGICAL ANALYSIS. AFTER 24 HOURS, A SECOND SAMPLE SHALL BE TAKEN IN A LIKE MANNER AND SUBMITTED FOR ANALYSIS. THE TWO SAMPLES TAKEN ON CONSECUTIVE DAYS ,A MINIMUM OF 24 HOURS APART, MUST BE FOUND TO BE "SAFE" BY THE TESTING LABORATORY, AND COPIES OF THE TEST RESULTS MUST BE SUPPLIED TO THE CITY. IF THE SAMPLES ARE NOT FOUND TO BE "SAFE" FURTHER FLUSHING AND/OR DISINFECTION AS DIRECTED BY THE CITY SHALL BE CONDUCTED BY THE CONTRACTOR UNTIL "SAFE" SAMPLES ON TWO CONSECUTIVE TEST DAYS ARE ACHIEVED. FOLLOWING SUCCESSFUL BACTERIOLOGICAL TESTING AND A DETERMINATION BY THE CITY THAT THE SAMPLES ARE "SAFE", THE MAINS MAY BE PLACED INTO SERVICE.

ROADWAY NOTES

1. ALL PAVING (PUBLIC AND PRIVATE) TO BE IN ACCORDANCE WITH ST. LOUIS COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON ORDINANCES.
2. IF THE INTERSECTING ROAD DOES NOT HAVE A CURB, THEN THE CURB ON THE NEW ENTRANCE SHALL BEGIN 10' FROM THE EDGE OF THE EXISTING ROAD.
3. PROVIDE 8" OF CONCRETE OVER 5" OF AGGREGATE BASE ROCK OR ASPHALT EQUIVALENT FOR MINOR RESIDENTIAL STREETS PER CITY CODE 405.370.(ORDINANCE NO. 6855)
   - 3.1. ROCK TO MEET THE ALL THE REQUIREMENTS OF MODOT TYPE 5 ROCK WITH A TIGHTER RESTRICTION ON THE FINES BEING THAT NO MORE THAN TEN PERCENT (10%) FINES SHALL PASS A NO. 200 SIEVE. (CITY CODE 405.210.B.1) THE GRADATION OF THIS ROCK NEEDS TO BE SUBMITTED TO THE CITY FOR APPROVAL. ANY DELIVERIES MADE WITHOUT THE PROPER DELIVERY TICKET, INCLUDING SIGNATURE, WILL NOT BE ACCEPTED. THE DELIVERY TICKET MUST LIST THE PROJECT NAME OR JOBSITE LOCATION. A SEPARATE CERTIFICATION SHEET MAY BE PROVIDED ATTACHED TO THE DELIVERY TICKET WITH A SIGNATURE OF THE COMPANY'S QUALITY CONTROL MANAGER. THE QUALITY CONTROL CERTIFICATION MUST BE CURRENT AND DATED WITHIN 4 WEEKS OF THE DELIVERY. (CITY CODE 405.210.A.2.K)
4. MULTI-USE TRAIL (WHEN REQUIRED) SHALL HAVE A MINIMUM OF 3" TYPE "C" ASPHALT OVER 4" AGGREGATE BASE PER CITY REQUIREMENTS.
5. TYPE C (BP-1) COMPACTION REQUIREMENTS SHALL BE 98% MINIMUM DENSITY ACCORDING TO ST. LOUIS CO. STANDARD SPECIFICATIONS.
6. PROVIDE PAVEMENT STRIPING AT ANY POINT WHERE THE MULTI-USE TRAIL CROSSES EXISTING OR PROPOSED PAVEMENT
7. ALL STREET STUB-OUTS OVER 250' IN LENGTH WILL REQUIRE A TEMPORARY TURNAROUND.
8. ALL SUB GRADE IN CUT OR FILL WILL NEED TO CONFORM TO THE CITY OF O'FALLON COMPACTION REQUIREMENTS
9. MATERIAL TESTING AND FREQUENCY. MATERIALS FOR CONSTRUCTION SHALL BE TESTED AND INSPECTED PER THE APPROPRIATE ASTM CODE OR AT THE CITY ENGINEER'S DISCRETION. THE DEVELOPER'S ENGINEER SHALL PERFORM QUALITY CONTROL GUIDELINES, IN ACCORDANCE WITH ST. LOUIS COUNTY REQUIREMENTS 501.3.1.
10. APPROVAL OF SUB GRADE AND BASE (SUB BASE). THE CITY ENGINEER OR REPRESENTATIVE SHALL APPROVE THE SUB GRADE BEFORE ANY BASE IS PLACED THEREON AND SHALL APPROVE THE BASE BEFORE CONCRETE OR SURFACE COURSE IS PLACED. THE SUB GRADE AND BASE SHALL BE SO CONSTRUCTED THAT IT WILL BE UNIFORM IN DENSITY THROUGHOUT.
11. IN ALL FILL AREAS IN THE ROADWAYS, SOIL TESTS SHALL BE SUBMITTED AND APPROVED BY THE CITY ENGINEER FOR EACH FOOT OF FILL AND AT LEAST ONE (1) TEST AND AN AVERAGE OF ONE (1) TEST WITHIN EVERY TWO HUNDRED FIFTY (250) FEET.
12. NO TRAFFIC WILL BE ALLOWED ON NEW CONCRETE PAVEMENT UNTIL IT HAS CURED FOR SEVEN (7) DAYS AND IT REACHES THREE THOUSAND FIVE HUNDRED (3,500) PSI WITHIN 28 DAYS.
   - 12.1. CONCRETE PAVEMENTS SHALL NOT BE APPROVED UNLESS IT REACHES A STRENGTH OF FOUR THOUSAND (4,000) PSI. CYLINDERS/COMPRESSIVE STRENGTH. ONE (1) SET OF FOUR (5) CYLINDERS WITHIN THE FIRST FIFTY (50) CUBIC YARDS AND ONE (1) SET PER ONE HUNDRED (100) CUBIC YARDS THEREAFTER. ONE (1) CYLINDER MUST BE TESTED AT SEVEN (7) DAYS, THREE (3) AT TWENTY-EIGHT (28) DAYS, AND ONE (1) HELD IN RESERVE.
13. PRIOR TO PLACEMENT OF AGGREGATE BASE MATERIAL ON SUB GRADE AND PRIOR TO PLACEMENT OF PAVEMENT ON BASE MATERIAL, THE SUB GRADE AND BASE MUST BE PROOF-ROLLED WITH A FULLY LOADED (TEN (10) TON LOAD) TANDEM TRUCK OR EQUIVALENT TIRE VEHICLE WITH ONE (1) PASS DOWN EACH DRIVING LANE NO FASTER THAN THREE (3) MILES PER HOUR. IF SOFT SPOTS ARE DETECTED, OR PUMPING, RUTTING OR HEAVING OCCURS GREATER THAN ONE (1) INCH AT THE SUB GRADE, THE ROADBED SHALL BE CONSIDERED UNSATISFACTORY AND THE SOIL IN THESE AREAS SHALL BE REMEDIATED TO THE DEPTH INDICATED BY THE CONTRACTOR'S TESTING FIRM AND APPROVED BY A REPRESENTATIVE OF THE CITY ENGINEER.
14. SUB GRADE AND BASE BENEATH PAVEMENTS SHALL BE COMPACTED TO ST. LOUIS COUNTY HIGHWAY DEPARTMENT SPECIFICATIONS. THE MOISTURE RANGE SHALL BE DETERMINED BY THE STANDARD OR MODIFIED PROCTOR DENSITY METHOD AASHTO T-99 AND WITHIN -2/+4 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
15. THE ENTIRE WIDTH AND LENGTH WILL CONFORM TO LINE, GRADE AND CROSS SECTION SHOWN ON THE PLANS OR AS ESTABLISHED BY THE ENGINEER. IF ANY SETTLING OR WASHING OCCURS, OR WHERE HAULING RESULTS IN RUTS OR OTHER OBJECTIONABLE IRREGULARITIES, THE CONTRACTOR SHALL IMPROVE THE SUB GRADE OR BASE TO THE SATISFACTION OF THE CITY BEFORE THE PAVEMENT IS PLACED. ADDITIONAL ROLLING OR METHODS TO VERIFY COMPACTION SHALL BE AT THE DISCRETION OF THE CITY ENGINEER. TOLERANCE ALLOWED ON ALL LINES, GRADES AND CROSS SECTIONS SHALL BE PLUS OR MINUS FOUR-HUNDREDTHS (+0.04) FEET.
16. UTILITY WORK PRIOR TO BASE CONSTRUCTION. NO BASE COURSE WORK MAY PROCEED ON ANY STREET UNTIL ALL UTILITY EXCAVATIONS (STORM AND SANITARY SEWERS, WATER, GAS, ELECTRIC, ETC.) HAVE BEEN PROPERLY BACK FILLED WITH GRANULAR MATERIAL, CRUSHED STONE OR GRAVEL MECHANICALLY TAMPED IN TEN (10) INCH LIFTS. UTILITIES INSTALLED AFTER SUB GRADE PREPARATION SHALL BE BORED. COMPACTION REQUIREMENTS SHALL FOLLOW ST. LOUIS COUNTY STANDARDS.
17. EQUIPMENT CALIBRATION. THE DEVELOPER'S CONTRACTORS AND SUBCONTRACTORS MUST HAVE THEIR EQUIPMENT CALIBRATED BY THE FOLLOWING MINIMUM STANDARDS.
   - 17.1. AIR METER--WEEKLY.
   - 17.2. CYLINDER COMPRESSION--ANNUALLY BY INDEPENDENT CALIBRATION SERVICE.
   - 17.3. BATCH SCALES--MONTHLY.
   - 17.4. NUCLEAR TESTING DEVICES--EVERY SIX (6) MONTHS.
   - 17.5. PROCTOR EQUIPMENT--EVERY SIX (6) MONTHS.
   - 17.6. SLUMP CONE--MONTHLY.
18. ALL PERMANENT TRAFFIC CONTROL WILL BE PER M.U.T.C.D. OR MODOT STANDARDS. S1-1 FROM THE M.U.T.C.D. MANUAL WILL BE USED AT ALL CROSSWALK LOCATIONS ACCOMPANIED WITH ETHER W16-9P OR W16-7P SIGNS.
19. ALL TRAFFIC SIGNALS, STREET SIGNS, SIGN POST, BACKS AND BRACKET ARMS SHALL BE PAINTED BLACK USING CARBOLINE RUST BOND PENETRATING SEALER SG AND CARBOLINE 133 HB PAINT (OR EQUIVALENT AS APPROVED BY CITY OF O'FALLON AND MODOT)
20. IF THE EXCAVATIONS ARE MADE IN THE IMPROVED PORTION OF THE RIGHT-OF-WAY, TWELVE INCHES OF GRANULAR BACKFILL WILL BE PLACED OVER EXPOSED FACILITIES AND CONTROLLED LOW STRENGTH MATERIAL (CLSM) AKA FLOWABLE FILL WILL FILL THE HOLE WITH EIGHT INCHES OF THE FINISHED SURFACE FOR CONCRETE PAVEMENT. THERE WILL BE A PLASTIC MEMBRANE PLACED BETWEEN THE ROCK BASE AND THE CLSM TO PREVENT THE MATERIAL FROM BLEEDING INTO THE ROCK BASE. THE REMAINING EIGHT INCHES WILL BE RESTORED BY PLACING A 28 DAY, 4,000 PSI CONCRETE MIX.

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architecture + design

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OWNER

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REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #01	10/5/2023

PROJECT NO.: 2207920
DATE: 9-15-2023
DRAWN BY: A. JONES
REVIEWED BY: M. FOGARTY

PROFESSIONAL SEAL

STATE OF MISSOURI
STEVEN MARION
NUMBER PE2006007195
PROFESSIONAL ENGINEER
10/4/2023

ENGINEERS AUTHENTICATION
The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.
STEVEN D. MARION P.E.
PROFESSIONAL ENGINEER
PE 2006007195

PROJECT TITLE
O'FALLON PUBLIC WORKS FACILITY

PROJECT ADDRESS:
1101 OLD E TERRA LANE
O'FALLON, MO 63366

GENERAL NOTES

SHEET
C-001

PERMIT SET

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