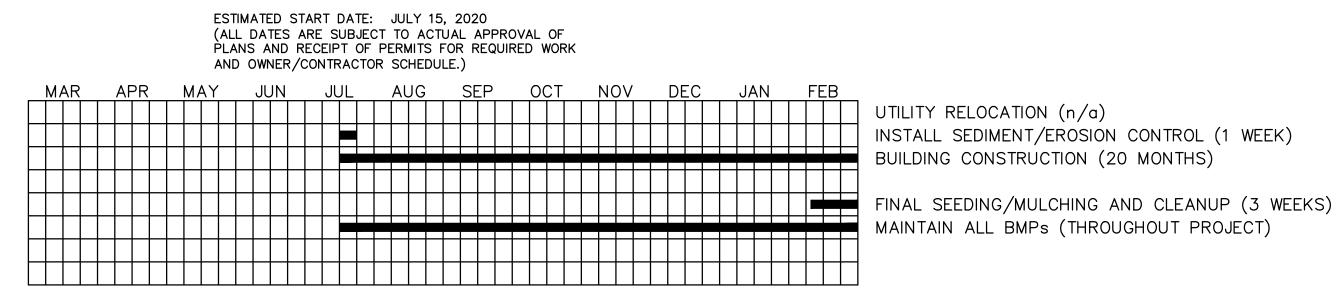
GENERAL NOTES: 1. ADDITIONAL SWPPP DETAILS AS REQUIRED BY THE CITY OF O'FALLON, ST. CHARLES COUNTY AND/OR MISSOURI DEPARTMENT OF NATURAL RESOURCES. 2. PRIOR TO THE ISSUANCE OF A MAJOR LAND DISTURBANCE PERMIT, A GRADING SURETY AND INSPECTION FEES MUST BE APPROVED BY AND PAID TO THE CITY OF O'FALLON. 3. PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES WILL BE REQUIRED. 4. ANY LAND CLEARING. CONSTRUCTION. OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE SWPPP. AND THE PERSON ISSUED A LAND DISTURBANCE PERMIT ASSUMES AND ACKNOWLEDGES RESPONSIBILITY FOR COMPLIANCE WITH THE CITY OF O'FALLON LAND DISTURBANCE CODE AND THE APPROVED SWPPP AT THE SITE OF THE PERMITTED ACTIVITY. 5. ALL LAND DISTURBANCE PERMITS AND THE SWPPP SHALL BE MAINTAINED IN THE CONSTRUCTION TRAILER AS ESTABLISHED BY THE CONTRACTOR TO BE AVAILABLE FOR VIEWING AT ALL TIMES. 6. ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY THE CITY OF O'FALLON, ST. CHARLES COUNTY AND/OR MDNR. NO ENDANGERED SPECIES AND HISTORIC PROPERTIES DOCUMENTATION ARE KNOWN AT THIS TIME. 8. ANTICIPATED DE-WATERING METHODS SHALL INCLUDE THE USE OF A PORTABLE PUMP POWERED BY A GENERATOR. 9. SEDIMENT SHALL BE WASHED FROM ALL VEHICLES AT WASH DOWN STATION PRIOR TO LEAVING THE SITE. NO TRACKING OF MUD ONTO ANY ROADWAY SHALL BE ALLOWED. 10. NO ON-SITE TEMPORARY ACTIVITIES LIKE A CONCRETE OR ASPHALT BATCH PLANT IS EXPECTED. 11. NOTE OMITTED. 12. A "SPECIAL INSPECTOR", APPROVED BY ST. CHARLES COUNTY, SHALL BE RETAINED BY THE PERMIT HOLDER TO CONDUCT REGULAR INSPECTION OF LAND DISTURBANCE ACTIVITIES AND SWPPP MEASURES AS DETAILED IN THE SEDIMENT AND EROSION CONTROL MANUAL. 13. CLEARING, EXCEPT THAT NECESSARY TO ESTABLISH SEDIMENT CONTROL DEVICES, SHALL NOT BEGIN UNTIL ALL SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED AND HAVE BEEN STABILIZED. 14. CLEARING TECHNIQUES THAT RETAIN EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE SHALL BE USED AND THE TIME PERIOD FOR DISTURBED AREAS TO BE WITHOUT VEGETATIVE COVER SHALL BE MINIMIZED TO THE EXTENT PRACTICAL. IF TREES ARE TO BE REMOVED AS A RESULT OF CLEARING, GRUBBING OR CONSTRUCTION, CONSIDER CHIPPING, GRINDING OR SHREDDING THEM FOR USE ON SITE AS A TEMPORARY, EROSION CONTROL BMP DURING CONSTRUCTION. 15. ROADWAY CONSTRUCTION WASTE MATERIAL AND FUEL FOR CONSTRUCTION EQUIPMENT MAY BE STORED ON SITE DURING CONSTRUCTION ACTIVITIES. THE ROADWAY CONSTRUCTION WASTE MATERIAL SHALL BE HAULED TO AN APPROVED LANDFILL AS APPROPRIATE AND SHALL BE CONTAINED BY SILT FENCE. CONSTRUCTION EQUIPMENT FUEL, IF STORED, SHALL BE STORED IN APPROVED CONTAINERS SUITABLE FOR TRANSPORT 16. AREAS SHALL BE IMMEDIATELY SEEDED (OR OTHERWISE STABILIZED) WHEN NO ACTIVITY IS EXPECTED TO OCCUR WITHIN FOURTEEN (14) CALENDAR DAYS. 17. IF SEEDING OR ANOTHER VEGETATIVE EROSION CONTROL METHOD IS USED, IT SHALL BECOME ESTABLISHED WITHIN TWO (2) WEEKS OR THE SITE SHALL BE RE-SEEDED OR A NON-VEGETATIVE OPTION EMPLOYED. 18. TECHNIQUES SHALL BE EMPLOYED TO ENSURE STABILIZATION ON STEEP SLOPES AND IN DRAINAGE WAYS. 19. SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY OR PERIMETER CONTROLS MUST BE IN PLACE TO PREVENT SILT FROM THE STOCKPILE FROM LEAVING THE SITE. 20. THE ENTIRE SITE MUST BE STABILIZED, USING A HEAVY MULCH LAYER OR ANOTHER METHOD THAT DOES NOT REQUIRE GERMINATION TO CONTROL EROSION. AT THE CLOSE OF THE CONSTRUCTION SEASON. 21. TECHNIQUES SHALL BE EMPLOYED TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE. 22. TECHNIQUES SHALL BE EMPLOYED TO DIVERT UPLAND RUNOFF PAST DISTURBED SLOPES. 23. AT LEAST ONCE EVERY WEEK AND NO LATER THAN 48 HOURS AFTER EVERY RAINFALL EVENT WHICH RESULTS IN STORMWATER RUNOFF ALL EROSION AND SILTATION CONTROL DEVICES SHALL BE INSPECTED FOR DAMAGE AND AMOUNT OF SEDIMENTATION ACCUMULATED AND CORRECTIVE ACTIONS TAKEN. REPORTS OF THESE INSPECTIONS AND CORRECTIVE ACTIONS SHALL BE PREPARED ON THE FORMS PROVIDED BY THE CITY OF O'FALLON AND SUBMITTED TO THE CITY OF O'FALLON WITHIN 5 DAYS OF THE INSPECTION. 26. THE CONTRACTOR SHALL MAINTAIN A 10% SURPLUS OF ALL EROSION AND SILTATION CONTROL DEVICES FOR EMERGENCY REPAIRS WHICH THE SURPLUS SHALL BE STORED AT THE CONSTRUCTION OFFICE. 27. SEDIMENT BUILD-UP REMOVED DURING ROUTINE BMP MAINTENANCE SHALL REMAIN ON-SITE. SEDIMENT SHALL BE RELOCATED TO WITHIN THE STOCKPILE AREA OR TO A LEVEL AREA (1% MAX.) ABSENT OF CONCENTRATED FLOWS. LEVEL OUT SEDIMENT AND ALLOW TO DRY. 28. ACTION PLAN FOR RESPONDING TO ANY LOSS OF SEDIMENT OFF-SITE: CONTRACTOR TO REMOVE BY HAND OR BY SKID-STEER OR BOBCAT VEHICLE. SEDIMENT TO BE TRANSPORTED BACK ONTO GRADING SITE. INSPECT AND REPAIR BMP'S AS REQUIRED. REPORTS TO THE CITY OF O'FALLON SHALL BE SUBMITTED AS REQUIRED. 29. ACTUAL SIZE AND LOCATION OF THE CONSTRUCTION TRAILER, STAGING & WASHDOWN AREA TO BE COORDINATED WITH THE SITE CONTRACTOR AND CITY OF O'FALLON. THE CONSTRUCTION ENTRANCE SHALL MEET ST. CHARLES COUNTY SIGHT DISTANCE REQUIREMENTS. THE PROPOSED LOCATION MUST BE APPROVED BY CITY OF O'FALLON. 30. SEE BMP QUANTITY TABLE FOR DESCRIPTIONS OF PRACTICES TO BE USED DURING CONSTRUCTION. WHEN CONSTRUCTION IS COMPLETE, THE GROUND WILL BE COVERED WITH A COMBINATION OF SOD, SEED & MULCH AND ROCK LINING. 31. A LIST OF EPA ALLOWABLE NON-STORM WATER DISCHARGES MAY INCLUDE: WATER LINE FLUSHING, LANDSCAPE IRRIGATION, UNCONTAMINATED PUMPED GROUND WATER, DISCHARGE FROM POTABLE WATER SOURCES, LAWN WATERING, WASH DOWN STATION AND STREET WASH WATER. 32. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER CONVEYANCE AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED. 33. STORM WATER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING. 34. ALL STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS. 35. ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY THE CITY OF O'FALLON. 36. A PERMIT SHALL BE OBTAINED FROM THE CITY OF O'FALLON BUILDING DEPARTMENT FOR CONSTRUCTION OF RETAINING WALLS. 37. A PERMIT SHALL BE OBTAINED FROM THE CITY OF O'FALLON BUILDING DEPARTMENT FOR ROOF DRAIN CONNECTIONS.

ESTIMATED SCHEDULE of OPERATIONS



- 38. DESCRIPTION OF B.M.P.'S TO CONTROL EROSION AND SEDIMENTATION (INTERIM AND PERMANENT STABILIZATION PRACTICES)
- A. FOR DETAILED DESCRIPTION OF EACH BMP, SEE SHEET C4.1 "STORMWATER POLLUTION PREVENTION DETAILS."
- B. DEVELOPER SHALL ESTABLISH PERIMETER SILTATION CONTROLS AS SHOWN ON THE PLANS PRIOR TO ANY CONSTRUCTION ACTIVITIES. AREAS REQUIRING MINOR CLEARING &/OR GRADING PRIOR TO INSTALLATION OF SILTATION CONTROL SHALL BE COMPLETED IN A TIMELY MANNER AND SILTATION CONTROL ESTABLISHED IMMEDIATELY FOLLOWING. C. UPON COMMENCEMENT OF INITIAL CLEARING AND GRUBBING OPERATIONS, AS WELL AS FUTURE GRADING OPERATIONS, WHEN TOPSOIL MUST BE STRIPPED FROM GRADED AREAS AND STOCKPILED FOR FINAL GRADING AND/OR REDISTRIBUTION. THE STOCKPILES WILL BE KEPT ON SITE BUT MUST STAY CLEAR OF ALL CONSTRUCTION ACTIVITY. THE STOCKPILE MUST BE STABILIZED WITH TEMPORARY VEGETATION, OR COVERED AT THE
- END OF EACH WORK DAY, AND PERIMETER CONTROLS MUST BE IN PLACE TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED. D. TEMPORARY ROADS, IF REQUIRED, SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHALL NOT EXCEED 10 PERCENT SLOPE.
- E. CONTRACTOR SHALL CLEAR AND GRUB THOSE AREAS OF THE SITE SCHEDULED FOR CONSTRUCTION. AREAS NOT SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL NOT BE CLEARED OF ESTABLISHED VEGETATION UNTIL REQUIRED. REMAINDER OF SITE SHALL BE GRADED, AS REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SILTATION CONTROL THROUGHOUT THE DURATION OF THE
- F. IF SEEDING OR ANOTHER VEGETATIVE EROSION CONTROL METHOD IS USED, IT SHALL BECOME ESTABLISHED WITHIN TWO WEEKS OR THE SITE SHALL BE RE-SEEDED OR A NON-VEGETATIVE OPTION EMPLOYED. REFER TO PLANS FOR VEGETATION/SEEDING RATES AND MIXTURES, AND ACCEPTABLE TIMES OF USE.
- G. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.
- H. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE RE-ESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION. I. TECHNIQUES SHALL BE EMPLOYED TO PREVENT THE BLOWING OF DUST OR SEDIMENT FROM THE SITE.
- J. TECHNIQUES SHALL BE EMPLOYED TO DIVERT UPLAND RUNOFF PAST DISTURBED SLOPES.
- K. ALL PROPOSED TURF AREAS, ONCE CONSTRUCTED TO FINAL GRADE, SHALL BE SEEDED WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLANS. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.
- L. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR FOURTEEN (14) DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER SPECIFICATIONS WITHIN FOURTEEN (14) DAYS OF COMPLETION OF LAND DISTURBING ACTIVITIES. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.
- M. THE CONTRACTOR SHALL PROVIDE THEIR PERSONNEL WITH SHOVELS, A WASHDOWN STATION, OR OTHER EQUIPMENT AS NECESSARY TO REMOVE DIRT/MUD FROM THE WHEELS OF ALL VEHICLES LEAVING ANY CLEARING OR GRADING SITE WHERE MUD HAS ACCUMULATED ON THE WHEELS, BEFORE SUCH VEHICLES ENTER ANY PUBLIC OR PRIVATE STREET OF THE CITY OR COUNTY. IN STALL BE UNLAWFUL FOR THE DEVELOPER TO PERMIT ANY VEHICLE TO LEAVE THE SITE WITH MUD ON THE WHEELS WHICH IS LIABLE TO BE DISPERSED OVER ANY PUBLIC OR PRIVATE STREET OF THE CITY/COUNTY, AND IT SHALL BE UNLAWFUL FOR ANY DRIVER OF A VEHICLE TO ENTER UPON THE PUBLIC OR PRIVATE STREETS OF THE CITY/COUNTY WITHOUT HAVING REMOVED OR HAD MUD REMOVED FROM THE WHEELS PRIOR TO SUCH ENTRY. EACH OCCURRENCE SHALL BE A SEPARATE OFFENSE.
- N. SEDIMENTATION CONTROLS AND TECHNIQUES SHALL BE REMOVED OR DISCONTINUED ONLY AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVEMENT AREAS AREA INSTALLED.
- 39. DESCRIPTION OF B.M.P.'S TO PREVENT POTENTIAL POLLUTANTS (CONSTRUCTION WASTES, TOXIC OR HAZARDOUS SUBSTANCES, PETROLEUM PRODUCTS, PESTICIDES, HERBICIDES, SITE LITTER, SANITARY WASTES, ETC.)
- A. SOLID NON-HAZARDOUS CONSTRUCTION WASTE DISPOSE OF IN TRASH DUMPSTERS OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE ENGINEER. POTENTIALLY SOLUBLE OR LEACHABLE SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. SOLID WASTE SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. SOLID WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS.
- HAZARDOUS WASTE HAZARDOUS WASTE SHALL BE SEGREGATED FROM NON-HAZARDOUS CONSTRUCTION SITE DEBRIS, LIQUID OR SEMI-LIQUID HAZARDOUS WASTE SHALL BE STORED IN APPROPRIATE CONTAINERS (CLOSED DRUMS OR SIMILAR) AND SHALL BE KEPT UNDER COVER. GRANULAR, SOLUBLE OR LEACHABLE HAZARDOUS WASTE MATERIALS SHALL BE STORED OFF THE GROUND AND IN COVERED LEAK-PROOF CONTAINERS. THE ENGINEER SHALL APPROVE ANY HAZARDOUS WASTE STORAGE AREA LOCATIONS.
- C. HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF OFF-SITE ON A REGULAR BASIS BY A REPUTABLE, LICENSED HAZARDOUS WASTE HAUI FR.
- D. COLLECTION. STORAGE, AND FUELING AREAS SHOULD BE LOCATED ON-SITE IN AN AREA THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF FROM UPLAND AREAS AND DOES NOT DRAIN DIRECTLY TO LAKES, CREEKS, STREAMS, RIVERS, SEWERS, GROUNDWATER, WETLANDS, OR ROAD DITCHES.
- E. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERCEDE OR REPLACE NORMAL SITE ASSESSMENT AND REMEDIATION PROCEDURES CONCERNING HAZARDOUS MATERIALS. SIGNIFICANT SPILLS AND/OR CONTAMINATION WARRANT AN IMMEDIATE RESPONSE BY TRAINED PROFESSIONALS. SUSPECTED JOB SITE CONTAMINATION SHOULD IMMEDIATELY BE REPORTED TO REGULATORY AUTHORITIES AND PROTECTIVE MEASURES TAKEN.
- F. FRESH CONCRETE WASTE AND CONCRETE EQUIPMENT WASHDOWNS SHALL BE CONTAINED AND SHALL BE STORED AWAY FROM DRAINAGE DITCHES, SWALES AND DRAINAGE STRUCTURES. WHERE APPROPRIATE, CONTAINMENT BERMS SHALL BE PLACED AROUND WASTE STORAGE ARFAS
- G. MIXING, PUMPING, TRANSFERRING OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH, OR STORM DRAIN
- H. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC. SHALL BE PERFORMED ONLY IN AN AREA DESIGNATED FOR THE PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. I. ON-SITE FUELING/MAINTENANCE FACILITIES AND STORAGE AREAS ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE
- REGULATIONS CONCERNING STORAGE AND DISPENSERS. J. PROVISIONS SHALL BE MADE SO THAT A SUFFICIENT NUMBER OF TEMPORARY TOILET FACILITIES AREA AVAILABLE TO SERVE THE NUMBER OF WORKERS ON-SITE TOILET FACILITIES SHALL NOT BE LOCATED WITHIN 50 FEET OF A STORM INLET.
- K. PROVISIONS SHALL BE MADE FOR LITTER CONTROL.
- L. DURING THE COURSE OF CONSTRUCTION, EXCAVATION, OR GRADING, THE CONTRACTOR IS REQUIRED TO COLLECT AND DISPOSE OF ALL PAPER. REFUSE, STICKS, LUMBER AND OTHER BUILDING WASTE, AND ALL OTHER WASTE MATERIAL, AND TO PREVENT THE SAME FROM BLOWING OR OTHERWISE BEING SCATTERED OVER ADJACENT PUBLIC OR PRIVATE PROPERTY. ANY WASTE MATERIAL THAT IS BLOW OR SCATTERED OVER THE SITE, AS WELL AS ON ANY ADJACENT PUBLIC OR PRIVATE PROPERTY, SHALL BE PICKED UP DAILY, AND DISPOSED OF PROPERLY. WASHOUT FROM CONCRETE TRUCKS MUST BE CONTROLLED IN A MANNER SO AS NOT TO ADVERSELY IMPACT THE SITE, ADJACENT PUBLIC OR PRIVATE PROPERTY, OR ADJACENT STREAMS AND STORM SEWER SYSTEMS. LOCATE THE CONCRETE WASHOUT IN A DIRT AREA WHERE THE LIQUID PORTION OF THE WASHOUT CAN SOAK INTO THE GROUND. CONCRETE WASHOUT SHALL BE CONTAINED IN DESIGNATED AREAS ONLY. DRIED CONCRETE LEFT ON SITE SHALL BE BURIED TWO (2) FEET MINIMUM UNDER FINISHED GRADE.
- M. CONCRETE AND/OR ASPHALT BATCH PLANTS NOT ANTICIPATED FOR THIS PROJECT.

UTILITY RELOCATION (n/a) INSTALL SEDIMENT/EROSION CONTROL (1 WEEK) BUILDING CONSTRUCTION (20 MONTHS)

MAINTAIN ALL BMPs (THROUGHOUT PROJECT)

SEQUENCE OF GRADING AND BMP IMPLEMENTATION SCHEDULE

- ANY GRADING OPERATIONS.
- PROGRESS.
- 5. TEMPORARY SEED AND MULCH DISTURBED AREAS (AS REQUIRED).

NOTE

SWPPP INSPECTIONS MUST BE SCHEDULED AT LEAST ONCE PER WEEK AND NO LATER THAN 48 HOURS AFTER A RAINFALL THAT CAUSES STORMWATER RUNOFF TO OCCUR ON-SITE.

NOTIFICATION

OFFSITE PROPERTY OWNERS

CONDITION. 2.) THE SPECIAL INSPECTOR MUST DOCUMENT ANY SILT RUNOFF FROM THE SITE AND REPORT WHEN THE CLEAN-UP HAS BEEN COMPLETED ON THE ST. CHARLES COUNTY SWPPP INSPECTION REPORT. ALL REPORTS MUST BE SUBMITTED TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES, CITY OF O'FALLON AND/OR ST. CHARLES COUNTY DEPARTMENT OF PUBLIC WORKS.

GRADING NOTES

1. ON-SITE GRADING WILL UTILIZE STANDARD GRADING EQUIPMENT TO ACHIEVE THE PROPOSED GRADES SHOWN ON THIS PLAN. 2. ALL GRADING OPERATIONS SUBJECT TO THE CONDITIONS AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY SCI ENGINEERING, INC.

- ENTERING INTO STORMWATER.
- BE USED ON HAUL ROUTE AND OTHER TRAFFIC AREAS ON SITE.
- POTENTIAL FOR DAMAGING ANY BMP.
- MATTING SHALL BE USED.
- 11. ALL SLOPES OR DRAINAGE CHANNELS, ONCE CONSTRUCTED TO FINAL GRADE, SHALL BE SEEDED AND
- HIS APPROVAL
- PERMANENTLY STABILIZED.

- PROPERTY TO ORIGINAL CONDITION.
- CONSTRUCTION ACTIVITIES.

1. CONTACT THE CITY OF O'FALLON DEPARTMENT OF ENGINEERING 48 HOURS PRIOR TO

2. OBTAIN PERMITS (SEPARATE PERMIT PROCESS) TO DEMOLISH EXISTING STRUCTURES TO BE REMOVED (IF REQUIRED). IMPLEMENT NON-SEDIMENT CONTROLS. INSTALL SILT FENCE AROUND PERIMETER OF SITE AND AS CONSTRUCTION ACTIVITIES

3. INSTALL CONSTRUCTION ENTRANCE, WASH DOWN STATION AND PARKING AREAS. 4. INSTALL INLET/OUTLET PROTECTION AS STORM SEWERS ARE CONSTRUCTED.

6. INSTALL FINAL GROUND COVERING AFTER FINAL GRADING IS COMPLETED.

IN THE EVENT OF SILT RUNOFF FROM THE SUBJECT PROPERTY ONTO

1.) THE CONTRACTOR SHALL NOTIFY OFFSITE PROPERTY OWNER AND OBTAIN CONSENT TO REMOVE SEDIMENT AND RESTORE TO ORIGINAL

SILTATION NOTES

1. EROSION AND SILTATION CONTROL SHALL BE INSTALLED AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.

2. TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED UNTIL VEGETATIVE COVER IS ESTABLISHED AT A SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE. 3. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE RE-ESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.

4. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.

5. STORM WATER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING. 6. DUST CONTROL MEASURES TO BE USED DURING PERIODS OF DRY WEATHER TO REDUCE POLLUTANTS FROM

7. CONTRACTOR TO MAINTAIN CLEAN STREETS SURROUNDING THE DEVELOPMENT AND REDUCE/PREVENT DUST POLLUTION BY USING DUST CONTROL MEASURES. SPRINKLING IS ONE TYPE OF DUST CONTROL THAT MAY

8. ANY LAND CLEARING, CONSTRUCTION, OR DEVELOPMENT INVOLVING THE MOVEMENT OF EARTH SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN. THE CONTRACTOR IS TO MAINTAIN A CURRENT COPY OF THE SWPPP ONSITE AT ALL TIMES AND NOTIFY ALL SUBCONTRACTORS AND OTHER ENTITIES WHO WILL PERFORM WORK AT THE SITE OF THE EXISTENCE OF THE SWPPP AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE

9. AT LEAST ONCE EVERY WEEK AND AFTER EVERY RAINFALL EVENT THAT CAUSES STORMWATER RUNOFF, EROSION AND SILTATION CONTROL DEVICES SHALL BE INSPECTED FOR DAMAGE AND AMOUNT OF SEDIMENTATION ACCUMULATED AND CORRECTIVE ACTIONS TAKEN. ANY DEFICIENCIES SHALL BE CORRECTED WITHIN ONE (1) CALENDAR DAY OF THE INSPECTION IN EMERGENCY CONDITIONS AND FOUR (4) CALENDAR DAYS OF THE INSPECTION FOR ROUTINE MAINTENANCE.

10. ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING PER CITY STANDARDS. IF SEASONAL CONDITIONS PROHIBIT SEEDING OR MULCHING,

MULCHED PER SPECIFICATIONS WITHIN SEVEN (7) DAYS. EVERY EFFORT SHALL BE MADE TO STABILIZE AND VEGETATE THESE AREAS UNTIL THE CONSTRUCTION MANAGER HAS GIVEN FINAL APPROVAL TO THEM. 12. SILT FENCES SHALL BE INSTALLED IMMEDIATELY AROUND EACH STORM SEWER STRUCTURE ONCE FINAL CONSTRUCTION OF EACH INDIVIDUAL STRUCTURE IS COMPLETE AND THE CONSTRUCTION MANAGER HAS GIVEN

13. ALL SILTATION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN

14. SEDIMENT BUILD-UP REMOVED DURING ROUTINE BMP MAINTENANCE SHALL REMAIN ON-SITE. SEDIMENT SHALL BE RELOCATED TO WITHIN THE STOCKPILE AREA OR TO A LEVEL AREA (1% MAX.) ABSENT OF CONCENTRATED FLOWS. LEVEL OUT SEDIMENT AND ALLOW TO DRY.

15. DEFICIENCIES REPORTED BY THE SPECIAL (SWPPP) INSPECTOR SHALL BE CORRECTED WITHIN ONE (' CALENDAR DAY OF THE INSPECTION IN EMERGENCY CONDITIONS AND FOUR (4) CALENDAR DAYS OF THE INSPECTION FOR ROUTINE MAINTENANCE.

16. PRIOR TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES WILL BE REQUIRED. 17. IN THE EVENT OF SILT RUNOFF FROM SUBJECT PROPERTY ONTO OFFSITE PROPERTY, THE CONTRACTOR SHALL NOTIFY THE OFFSITE PROPERTY OWNER AND OBTAIN CONSENT TO REMOVE SEDIMENT AND RESTORE

CONTRACTOR NOTES: 1. PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK. 2. PROTECT AND SUPPORT CONDUITS, DRAINS, AND WIRE TO REMAIN IN USE AND SUSCEPTIBLE TO DAMAGE BY

3. REMOVE PROTECTIONS AT COMPLETION OF WORK.

4. PROMPTLY REPAIR ANY AND ALL DAMAGES TO ADJACENT FACILITIES OR ITEMS TO REMAIN.

5. PROVIDE SIGNAGE AT CONSTRUCTION ENTRANCES TO THE SITE TO WARN PEDESTRIAN TRAFFIC ABOUT INCOMING AND OUTGOING CONSTRUCTION TRAFFIC. 6. THIS PLAN IS ONLY A GENERAL GUIDE. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE METHODS AND

LOCATIONS OF STORMWATER PROTECTIONS DURING CONSTRUCTION, REGARDLESS OF WHAT IS SHOWN. 7. ALL TEMPORARY SEEDING FOR SITE STABILIZATION SHALL BE PERFORMED BY THE GENERAL CONTRACTOR.

S.W.P.P.P. NOTE:

SEE SHEET C4.0 FOR S.W.P.P.P. BMP LOCATIONS

EMERGENCY CONTACT INFORMATION <u>OWNER/OFFICIAL IN CHARGE</u> <u>SPECIAL INSPECTOR</u>

ERIC FISCHER, P. STOCK & ASSOCIATES 257 CHESTERFIELD BUSINESS PKWY ST. LOUIS, MO 63005 636.530.9100 (OFFICE)

BMP QUANTITIES									
TYPE	BMP	QUANTITY	10% SURPLUS	TOTAL	UNI				
SEEDING/SODDING/MULCH CHECK DAM CONSTRUCTION ROAD WASHDOWN STATION CONSTRUCTION ENTRANCE INLET PROTECTION-GUTTER INLET PROTECTION-DROP SILT FENCE	60.20 ESC-11 ESC-4 ESC-4 ESC-4 ESC-17 ESC-14 ESC-5	5.10 5 - 1 1 5 64 2,230	0.51 1 - - 1 6 223	5.61 6 - 1 1 6 70 2,453	AC EAC EAC EAC EAC EAC LF				

S.W.P.P.P. GENERAL NOTES

0 FOR S.W	E. TAYLOR DIAL WATERMARK RESIDENTIAL 111 MONUMENT CIRCLE, SUITE 1600 NDIANAPOLIS, IN 46204 317.525.9813 (24-HOUR) EXISTING SITE RUNOFF COEFFICIENT: 0.10 PROPOSED SITE RUNOFF COEFFICIENT: 0.65 SITE SOILS: HYDROLOGIC SOIL GROUP: C BMP QUANTITY 10% SURPLUS TOTAL UNIT USAGE MULCH 60.20 5.10 0.51 5.61 AC. PERMANENT ND ESC-11 5 1 6 EACH TEMPORARY ND ESC-4 - - EACH TEMPORARY N ESC-4 1 - 1 EACH TEMPORARY RANCE ESC-4 1 - 1 EACH TEMPORARY GUTTER ESC-17 5 1 6 EACH TEMPORARY							PREPARED BY: STOCK & STOCK & BSSOCIAL Business Parkway STOCK & BSSOCIAL Business Parkway St. Louis, MD 63005 PH. (636) St. Louis, MD 63005 PH. (636) Consulting Grapheers, Inc. Bt. Louis, MD 63005 PH. (636) St. Louis, MD 63005 PH. (636) St. Louis, MD 63005 PH. (636) Consulting Grapheers, Inc. Web: www.stockassoc.com		
CONTRACT PRIOR TO CONSTRUCT PARKING C WHEREBY PAVEMENT THE STREE CONSTRUCT DEBRIS AN ALL FILLS INCLUDING COMPACT COMPACT GRANULAF RIGHT-OF- DIRECTION BACKFILLI SOFT SOIL SEDIMENT LOCATION ALL TRASH REMOVED DEBRIS AN RAISED SH ANY WELL SEALED IN NATURAL F ALL EXCAN SLOPE (33)	TOR SHALL NO COMMENCEME CTION (636.379 DN NON-SURFA MUD FROM CO T CAUSING HAZ ETS SURROUN CTION ACCESS ID SHALL BE CI UNDER PROPC ED TO 90% OF ION TEST" (AST R BACKFILL IS F WAY AND UND I OF AND VERII NG OPERATION S OR SEDIMEN BASINS OR TF S OR IN ANY ST H AND DEBRIS OF AND PROPERL ID FOUNDATIO IALL BE PROPE S OR CISTERN I A MANNER AC RESOURCES. /ATIONS, CUTS %), UNLESS SF ATION SHALL E G OR ANY PUBL	ACE AREAS IS PRO DNSTRUCTION AND ZARDOUS ROADW/ DING THIS DEVELO THERETO SHALL LEANED THROUGH DSED STORM AND KFILLS WITHIN AND MAXIMUM DENSIT IM D-1557) FOR TH REQUIRED IN ALL ER ALL PAVED ARD FIED B A SOILS EN	O'FALLON DEPA ND/OR PRIOR T HIBITED IN ORD DEMPLOYEE VE AY AND DRIVING OPMENT AND AN BE KEPT FREE F IOUT THE DAY. SANITARY SEWE O OFF THE ROAL Y AS DETERMIN E ENTIRE DEPTI TRENCH EXCAV/ EAS. ALL TESTS GINEER CONCU OR FORMER PO E PLACED IN PF ATIONS. TXISTING OR FRO FF-SITE. I ANY STRUCTU F OFF-SITE. I ANY STRUCTU F OFF-SITE.	ARTMENT OF O COMMEN ER TO ELIM HICLES IS T CONDITION IN STREET FROM MUD ER LINES AN D RIGHT-OF ED BY THE H OF THE F ATION WITH SHALL BE F RRENT WIT OND SITES O ROPOSED P OM CONSTF RE WHICH I ERTY, SHOULON AND M ED GRADE N ISE.	ICEMENT INATE TH FRACKED NS. USED FOF AND CONS ND/OR PAN F-WAY, SH THODIFIEL ILL. COMP IN THE ST PERFORM TH GRADIN OR TRIBUT UBLIC RIG RUCTION, IS SCHEDU ULD BE LO ISSOURI E NOT TO EX AS TO ENI NG AND P	OF E CONDITION ONTO THE STRUCTION /ED AREAS, ALL BE D AASHTO T-180 ACTED REET ED UNDER THE IG AND TARIES, OR ANY CHT-OF-WAY SHALL BE JLED TO BE DCATED AND DEPARTMENT OF CEED A 3:1	SITE IMPROVEMENT PLANS FOR:	WATERMARK APARTMENTS AT O'FALLON	CRUSHER ROAD & WELDON SPRING ROAD CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI 63366	
SHALL BE CITY OF O' OF UNFAV SHALL BE "SEDIMENT CONTRAC" DEVICES F SEDIMENT SEDIMENT MAX) ABSE ACTION PL CONTRAC"	ISSUED EXCEP FALLON DEPAI ORABLE GROU DONE IN A MAN T AND EROSION TOR IS TO MAIN OR EMERGEN BUILD-UP REM SHALL BE REL ENT OF CONCE AN FOR RESPO	DED AND MULCHER T THAT A TEMPOR RTMENT OF ENGIN IND CONDITIONS. I INER THAT MEETS N CONTROL GUIDE NTAIN A 10% SURP CY REPAIRS. (STO MOVED DURING RO OCATED TO WITH INTRATED FLOWS. ONDING TO ANY LO VE BY HAND OR BY ITO GRADING SITE	ARY OCCUPAN EERING IN CAS F THE LOT IS TO OR EXCEEDS T LINES". LUS OF ALL ERC RE SURPLUS AT OUTINE BMP MAI IN THE STOCKPI LEVEL OUT SEE DSS OF SEDIME	CY PERMIT ES OF UNDA DE SEEDE THE REQUIR DSION AND CONSTRUC NTENANCE ILE AREA OD DIMENT AND NT OFF SITI R BOBCAT V ADD BMP'S	MAY BE D UE HARDS D AND MU REMENTS O SILTATION CTION OFI SHALL RE R TO A LE D ALLOW T E: VEHICLE. S AS REQUI	ISSUED BY THE SHIP BECAUSE JLCHED, IT OF THE CITY'S N CONTROL FICE). EMAIN ON-SITE. VEL AREA (1% TO DRY.	RS, INC. AND NSIBILITY FOR T THE L OTHER RS, INC. HAS RS, INC. HAS SHEET SEAL ETHODS ARE CONTRACTOR. RS, INC. HAS SHEET SHEET	S./J.M.B.	04/17/2020 E-25116 ITHORITY NS: RINTING T SET ED PER OWNER / MENTS IDUM 'A' HECKED BY: G.M.S. DB NO: 219-6494	