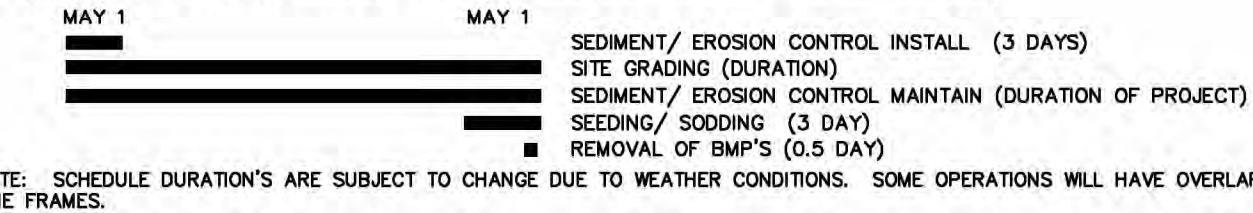


SWPPP AND ALL LAND DISTURBANCE PERMITS WILL BE VIEWABLE ONSITE AT THE CONSTRUCTION TRAILER.

SWPPP NOTES

- SITE OWNER:**
PLAZA TIRE INC.
MR. SCOTT RHODES
2301 BLOOMFIELD ROAD
CARE GRABFIELD, MO 63073
573-339-1300
- SITE ADDRESS:**
1000 N MAIN ST
O'FALLON, MO 63366
- SITE INFORMATION:**
TOTAL AREA OF TRACTS: 0.92 AC
EXISTING USE: COMMERCIAL
PROPOSED USE: COMMERCIAL
EXISTING ZONING: C2
- NO FLOODPLAIN ON SITE PER FERM# 291830230F**
- TOTAL DISTURBED AREA** 39,864.38 S.F. 0.92 ACRES
- PERMIT HOLDER:**
A. PERMIT HOLDER SHALL NOTIFY ALL CONTRACTORS AND OTHER ENTITIES (INCLUDING UTILITY CREWS, CITY/COUNTY EMPLOYEES, OR THEIR AGENTS) THAT WILL PERFORM WORK AT THE SITE, OF THE EXISTENCE OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN WHILE ON SITE TO MINIMIZE THE POTENTIAL FOR EROSION AND THE POTENTIAL FOR DAMAGING ANY BEST MANAGEMENT PRACTICES (BMP'S).
B. PERMIT HOLDER SHALL DETERMINE THE NEED FOR AND ESTABLISH TRAINING PROGRAMS TO ENSURE THAT ALL SITE WORKERS HAVE BEEN TRAINED, AT A MINIMUM, IN EROSION CONTROL, MATERIAL HANDLING AND STORAGE, AND HOUSEKEEPING.
C. PERMIT HOLDER SHALL PROVIDE COPIES OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO ALL PARTIES WHO ARE RESPONSIBLE FOR INSTALLATION, OPERATION OR MAINTENANCE OF ANY BEST MANAGEMENT PRACTICES (BMP'S).
D. PERMIT HOLDER SHALL MAINTAIN A CURRENT COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON THE SITE AT ALL TIMES.
- STAKE TO ANY MAJOR LAND DISTURBANCE ACTIVITY, A LAND DISTURBANCE PERMIT FROM THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES MAY BE REQUIRED.**
- CONSTRUCTION SCHEDULE (TENTATIVE) - (STARTING DATE MAY 1ST 2016 - END MAY 1ST 2017)**



- NOTE: SCHEDULE DURATION'S ARE SUBJECT TO CHANGE DUE TO WEATHER CONDITIONS. SOME OPERATIONS WILL HAVE OVERLAP TIME FRAMES.
- CLEARING TECHNIQUES THAT RETAIN EXISTING VEGETATION TO THE MAX EXTENT PRACTICABLE SHALL BE USED AND THE PERIOD FOR DISTURBED AREAS TO BE WITHOUT VEGETATIVE COVER SHALL BE MINIMIZED TO THE EXTENT PRACTICAL. ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY ALL GOVERNING AUTHORITIES.**
 - AREAS SHALL BE SEEDED AFTER CLEARING AND GRUBBING WHEN NO ACTIVITY WILL OCCUR WITHIN THIRTY DAYS. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE REQUIRED PRIOR TO ANY GRADING ON THE SITE, BEYOND WHAT IS APPROVED ON THIS PLAN.**

DESCRIPTION OF B.M.P.'S (INTERIM & PERMANENT STABILIZATION PRACTICES/SCHEDULE)

- CONTRACTOR SHALL ESTABLISH PERIMETER SILTATION CONTROL 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.
- DURING DRIVE OFF OF TOM GINNEVER ROAD TO BE USED AS TEMPORARY CONSTRUCTION ENTRANCE WITH PUBLIC ACCESS WAYS. EXISTING MOBILE CONDITIONS, DRIVERS OF VEHICLES WILL BE REQUIRED TO WASH THEIR WHEELS BEFORE ENTERING THE ROADWAY. TEMPORARY ROAD SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHALL NOT EXCEED TO PERCENT SLOPE.
- 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 PROJECT.
- ALL PROPOSED TURF AREAS, ONCE CONSTRUCTED TO FINAL GRADE, SHALL BE SEEDED WITHIN 5 DAYS AFTER FINAL GRADING OF THE SITE WHERE SHOWN ON THE PLAN. SHOULD WEATHER CAUSE DELAYS IN EARTHWORK OPERATIONS, ADDITIONAL SILTATION CONTROL MEASURES MAY BE REQUIRED.
- ANY DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR 5 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND/OR MULCHING PER SPECIFICATIONS WITHIN 5 DAYS. IF SEASONAL CONDITIONS PROHIBIT SEEDING, MULCHING OR MATTING SHALL BE USED.
- INSPECTION OF SILTATION CONTROL DEVICES SHALL TAKE PLACE EVERY SEVEN DAYS AND WITHIN 48 HOURS AFTER A RAINFALL THAT CAUSES STORM WATER RUNOFF TO OCCUR ONSITE. ANY SILTATION CONTROL IN NEED OF REPAIR SHALL OCCUR IMMEDIATELY.
- ALL GRADING OPERATIONS ARE SUBJECT TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT.
- SEEDMENTATION CONTROLS SHALL ONLY BE REMOVED AFTER THE SITE IS COMPLETELY STABILIZED, VEGETATION IS WELL ESTABLISHED, AND ALL PAVED AREAS ARE INSTALLED.

- PLANNED RESPONSE TO LOSS OF CONTAINED SEDIMENT B.M.P.'S SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY, AS REQUIRED, TO STABILIZE SITE AND CONTAIN SEDIMENT-LOADED RUNOFF. OFFSITE AREAS SHALL BE REPAIRED FOR EXTENT OF IMPACT FROM B.M.P. FAILURE. PERMIT HOLDER SHALL BE REQUIRED TO PROVIDE DOCUMENTATION OF THE B.M.P.'S MEASURES ESTABLISHED AND SCHEDULED MAINTENANCE AND REPAIRS. PERMIT HOLDER SHALL ALSO BE REQUIRED TO CONTACT THE CITY OF O'FALLON AND REPORT ALL INCIDENTS OF FAILURE AND PROVIDE DOCUMENTATION OF ACTIONS AND B.M.P. MEASURES.
- DESCRIPTION OF PERMANENT B.M.P.'S TO REMAIN AFTER CONSTRUCTION:**
A. TURF AREAS - TURF AREAS SHALL BE MAINTAINED TO INSURE SITE AREAS REMAIN STABILIZED UPON COMPLETION OF CONSTRUCTION ACTIVITIES.
B. PAVED AREAS AND WALKWAYS - AREAS SUBJECT TO FOOT AND VEHICLE TRAFFIC SHALL BE PAVED AND KEPT IN GOOD REPAIR FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES. MAINTENANCE SHALL BE THE OWNER'S RESPONSIBILITY.
11. TABLE OF BEST MANAGEMENT PRACTICES (BMP'S) QUANTITIES

TABLE 1- LIST OF BEST MANAGEMENT PRACTICES

PARKING & WASH DOWN AREA = 1 EA (TEMPORARY)
SEED AND MULCH = 0.21 AC (PERMANENT)
SILT FENCE = 588 LF. (TEMPORARY)
GRAVEL BAGS = 40 LF. (TEMPORARY)

- 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 WASTE - SOLID NON-HAZARDOUS WASTE OR APPROVED EQUIVALENT IN A LOCATION APPROVED BY THE OWNER. POTENTIALLY SOLUBLE OR LEACHABLE 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.
B. 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 OWNER SHALL PROPERLY 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 HAULER. IT IS NOT THE INTENT OF THIS SWPPP TO SUPERSIDE 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.
E. ON-SITE FUELING FACILITIES ARE REQUIRED TO ADHERE TO ALL APPLICABLE FEDERAL AND STATE REGULATIONS CONCERNING STORAGE AND DISPENSERS.
F. PROVISIONS SHALL BE MADE SO THAT A SUFFICIENT NUMBER OF TEMPORARY TOILET FACILITIES ARE AVAILABLE TO SERVE THE NUMBER OF WORKERS ON-SITE.
- PRIOR TO ISSUANCE OF A MAJOR LAND DISTURBANCE PERMIT, A LAND DISTURBANCE EROSION MAY BE REQUIRED BY THE CITY OF O'FALLON.
- THE SWPPP SHALL HAVE SUFFICIENT INFORMATION TO BE OF PRACTICAL USE TO CONTRACTORS AND SITE CONSTRUCTION WORKERS TO GUIDE THE INSTALLATION AND MAINTENANCE OF BMP'S. TEMPORARY STABILIZATION IS TO TAKE PLACE WHERE SOIL DISTURBING ACTIVITIES WILL CEASE ON ANY PORTION OF THE SITE AND ARE NOT PLANNED TO RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. TEMPORARY STABILIZATION MUST BE INITIATED IMMEDIATELY UPON KNOWING THE DURATION IS MORE THAN 14 DAYS. TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS. SLOPES FOR DISTURBED AREAS MUST BE DEFINED IN THE SWPPP. A SITE MAP OR MAPS, DEFINING THE SLOPED AREAS FOR ALL PHASES OF THE PROJECT, MUST BE INCLUDED IN THE SWPPP. THE TYPES OF BMP'S USED MUST BE SUITED TO THE AREA DISTURBED, TAKING INTO ACCOUNT THE NUMBER OF ACRES EXPOSED AND THE STEEPNESS OF THE SLOPES. IF THE SLOPE OF THE AREA IS GREATER THAN 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) OR IF THE SLOPE IS GREATER THAN 3% AND GREATER THAN 150 FEET IN LENGTH, THAN THE PERMITTEE MUST ESTABLISH TEMPORARY STABILIZATION WITHIN 7 DAYS OF CEASING OPERATION ON THAT PART OF THE SITE. FINAL STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY AND COMPLETED WITHIN 7 CALENDAR DAYS. WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, ALLOWANCES TO THE 7 DAY COMPLETION PERIOD FOR TEMPORARY AND FINAL STABILIZATION MAY BE MADE DUE TO WEATHER OR EQUIPMENT MALFUNCTIONS. THE USE OF ALLOWANCES SHALL BE DOCUMENTED IN THE SWPPP. A SITE MAP SHOWING THE OUTLINES OF THE TOTAL PROJECT AREA, THE AREAS TO BE DISTURBED, AREAS THAT WILL NOT BE DISTURBED, EXISTING LAND USES, OFF-SITE MATERIALS, WASTE, BORROW AND EQUIPMENT STORAGE AREAS, A LOCATIONS AND NAMES OF SURFACE WATER BODIES THE SITE DRAINS TO, AREAS OF FINAL STABILIZATION, LOCATIONS OF FLOOD PLANS, LOCATIONS OF TEMPORARY AND PERMANENT BEST MANAGEMENT PRACTICES (BMP), LOCATIONS OF OUTFALLS (LOCATIONS) OF PORTA-POTTIES, GAS TANKS, DUMPSTERS, ETC. WITH UPDATES AND LOCATION CHANGES AND SUCH OTHER INFORMATION AS MAY BE REQUIRED BY THE COUNTY DEPARTMENT(S) HAVING ENFORCEMENT AUTHORITY AND RESPONSIBILITIES DESCRIBED IN SECTION 103.0 OF THE CODE. THE PERMITTEE SHALL ENSURE THE BMP'S ARE PROPERLY INSTALLED AT THE LOCATIONS AND RELATIVE TIMES SPECIFIED IN THE SWPPP. PERIMETER OR BORDER BMP'S SHALL BE PROPERLY INSTALLED ON DISTURBED AREAS SHALL BE INSTALLED OR MARKED FOR PRESERVATION BEFORE GENERAL SITE CLEARING IS STARTED. NOTE THAT THIS REQUIREMENT DOES NOT APPLY TO EARTH DISTURBANCES RELATED TO INITIAL SITE CLEARING AND ENTRY ESTABLISHMENT, EXIT AND ACCESS OF THE SITE, WHICH MAY REQUIRE THAT STORMWATER CONTROLS BE INSTALLED IMMEDIATELY AFTER THE EARTH DISTURBANCE. STORM WATER DISCHARGES FROM DISTURBED AREAS WHICH LEAVE THE SITE SHALL PASS THROUGH AN APPROPRIATE IMPEDIMENT TO SEDIMENT MOVEMENT, SUCH AS A SEDIMENTATION BASIN, SEDIMENT TRAPS, SILT FENCES, ETC., PRIOR TO LEAVING THE DISTURBED SITE. A DRAINAGE COURSE CHANGE SHALL BE CLEARLY MARKED ON A SITE MAP AND DESCRIBED IN THE SWPPP.
- LOCAL STATE AND COUNTY LAND DISTURBANCE PERMITS, BMP INSPECTION REPORTS, ETC. WITH THE SWPPP.
- 404/401 PERMIT NOT REQUIRE FOR THE SITE. NO DISCHARGE TO GOVERNED WATERS PROPOSED.
- NO VISIBLE EVIDENCE OF SINKHOLES, SPRINGS, SEEPS OR KRATZ FEATURES ON SITE. REFER TO SEPARATE GEOTECH REPORT FOR SUB SOIL CONDITIONS.
- NO HISTORIC PROPERTIES ON SITE.
- ENDANGERED SPECIES:
BASED ON CATALOGED INFORMATION FROM THE UNITED STATES FISH & WILDLIFE SERVICE FEDERALLY LISTED ENDANGERED OR THREATENED SPECIES ARE PRESENT NEAR OR WITHIN THE PROJECT AREA. THE FOLLOWING IS A LIST OF THE ENDANGERED OR THREATENED SPECIES NEAR OR WITHIN THE PROJECT AREA: GRAY BAT, INDIANA BAT, MEAD'S MILVINEE, DECURRENT FALLOW LARKSPUR, RUNNING BUFFALO CLOVER, PINK MUCKLET, SCALLESHELL MUSSEL, SPECTACLECASE, SNUFFBOX MUSSEL, SHEEPSHOCK MUSSEL, PAID STURGEON.
- NO NON-STORM WATER DISCHARGES PROPOSED.
- NO DEWATERING METHODS PROPOSED.
- NO INDUSTRIAL ACTIVITIES LIKE TEMPORARY, ON SITE, CONCRETE OR ASPHALT BATCH PLANTS ARE PROPOSED.

TEMPORARY STABILIZATION IS TO TAKE PLACE WHERE SOIL DISTURBING ACTIVITIES WILL CEASE ON ANY PORTION OF THE SITE AND ARE NOT PLANNED TO RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. TEMPORARY STABILIZATION MUST BE INITIATED IMMEDIATELY UPON KNOWING THE DURATION IS MORE THAN 14 DAYS. TEMPORARY STABILIZATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS. IF THE SLOPE OF THE AREA IS GREATER THAN 3:1 (3 FEET HORIZONTAL TO 1 FOOT VERTICAL) OR IF THE SLOPE IS GREATER THAN 3% AND GREATER THAN 150 FEET IN LENGTH, THEN THE PERMITTEE MUST ESTABLISH TEMPORARY STABILIZATION WITHIN 7 DAYS OF CEASING OPERATION ON THAT PART OF THE SITE. FINAL STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY AND COMPLETED WITHIN 7 CALENDAR DAYS. WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, ALLOWANCES TO THE 7 DAY COMPLETION PERIOD FOR TEMPORARY AND FINAL STABILIZATION MAY BE MADE DUE TO WEATHER OR EQUIPMENT MALFUNCTIONS. THE USE OF ALLOWANCES SHALL BE DOCUMENTED.

SEDIMENT SHALL BE WASHED FROM ALL VEHICLES AT WASH DOWN STATION PRIOR TO LEAVING THE SITE. NO TRACKING OF MUD ONTO ANY ROADS SHALL BE ALLOWED.

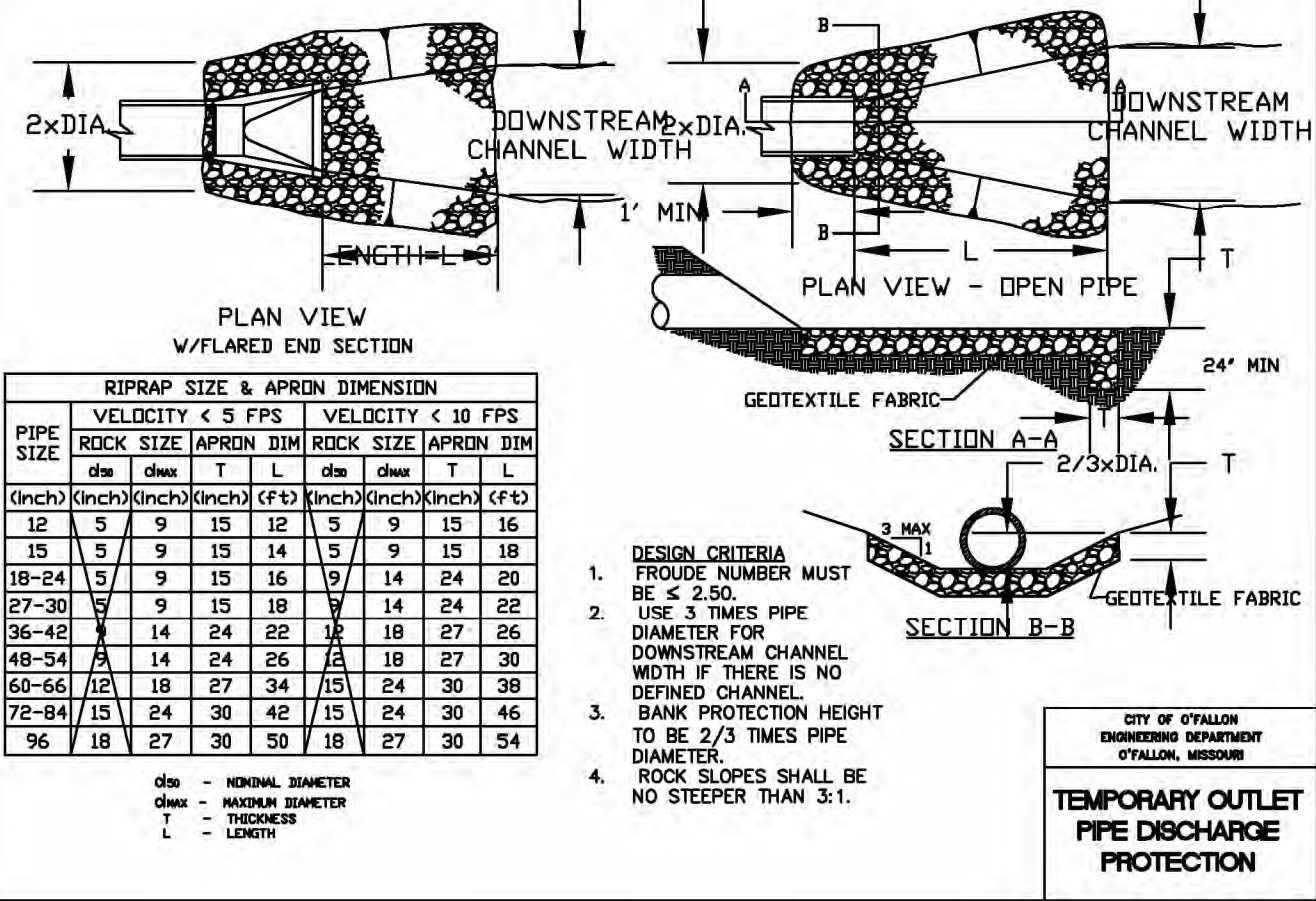
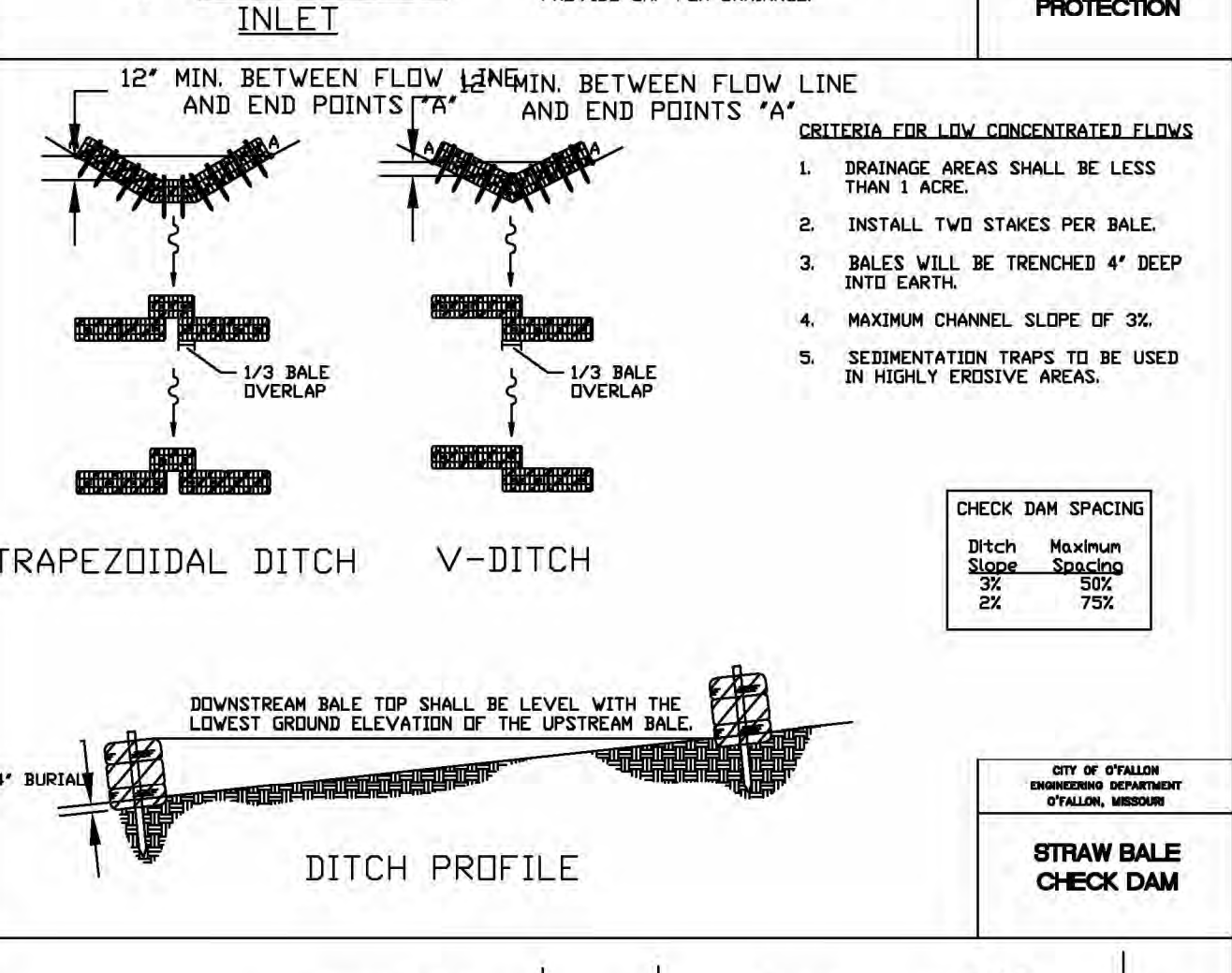
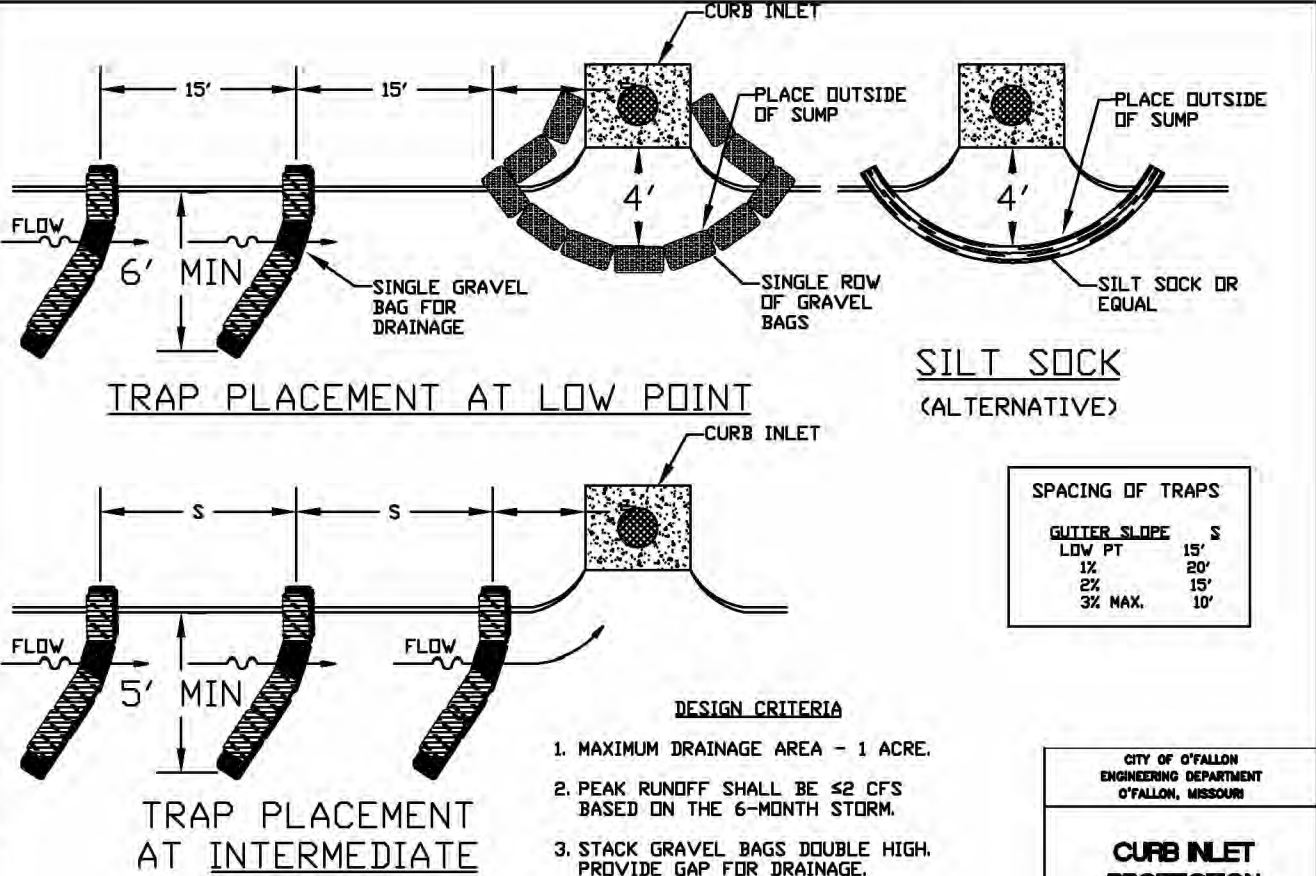
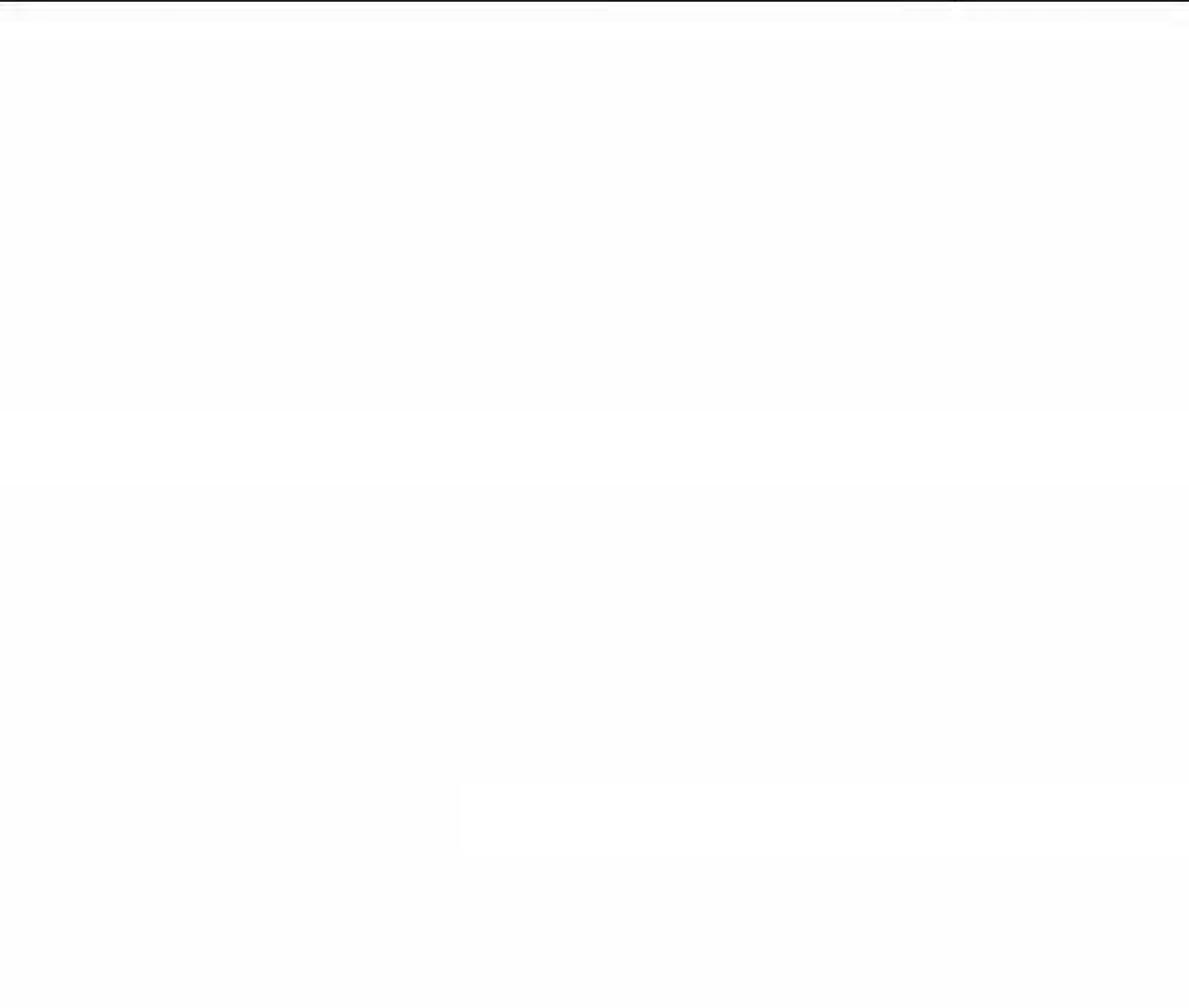
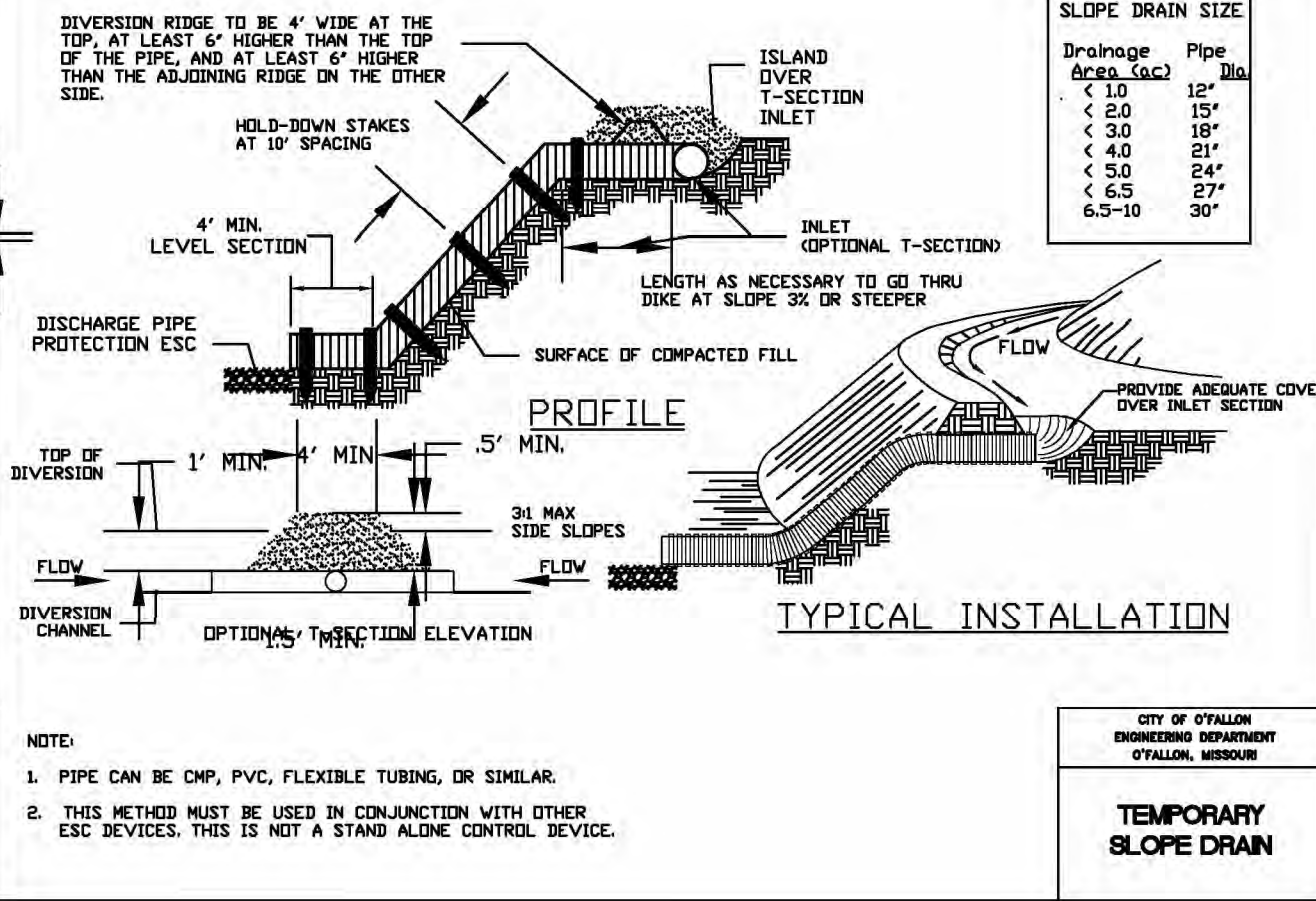
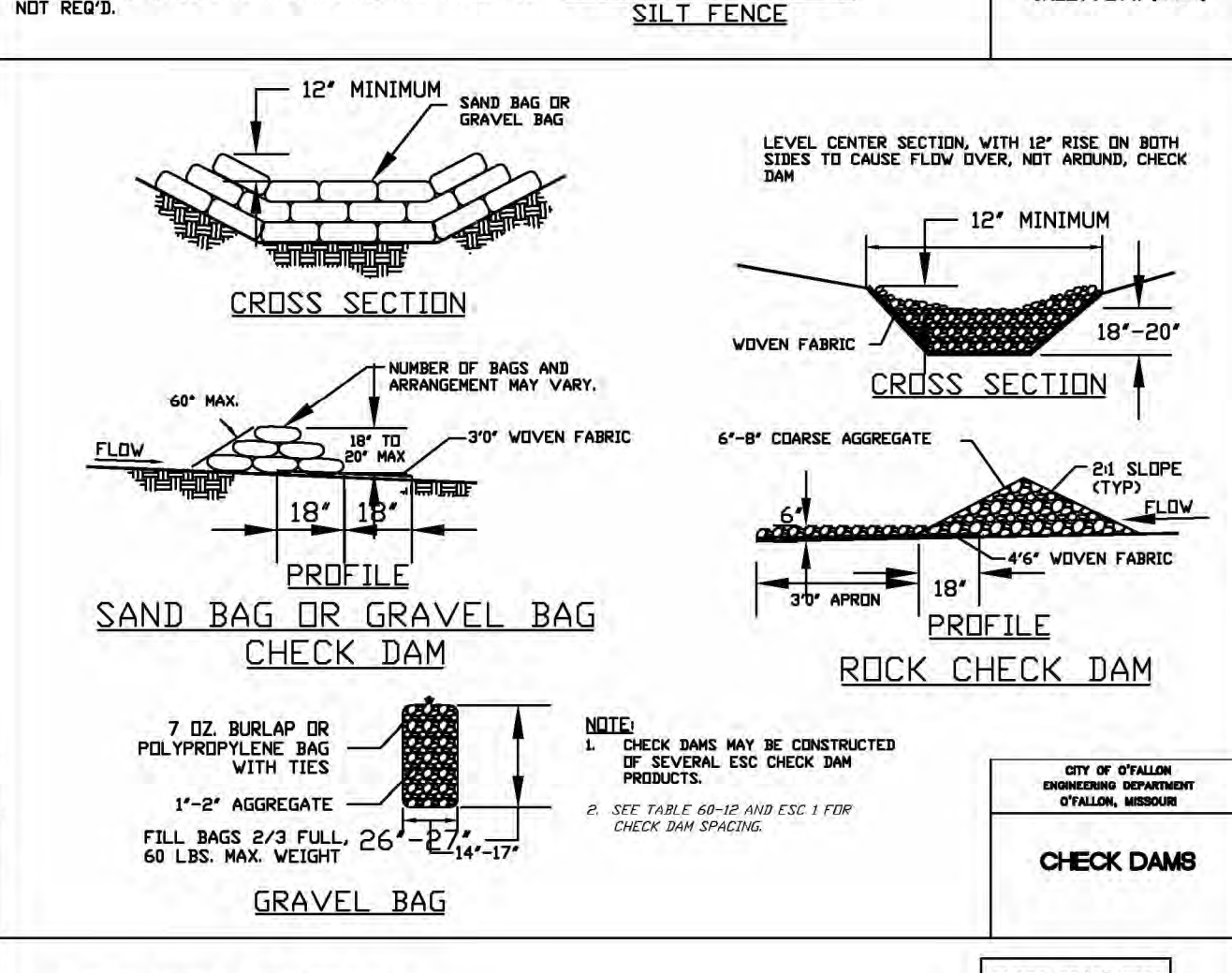
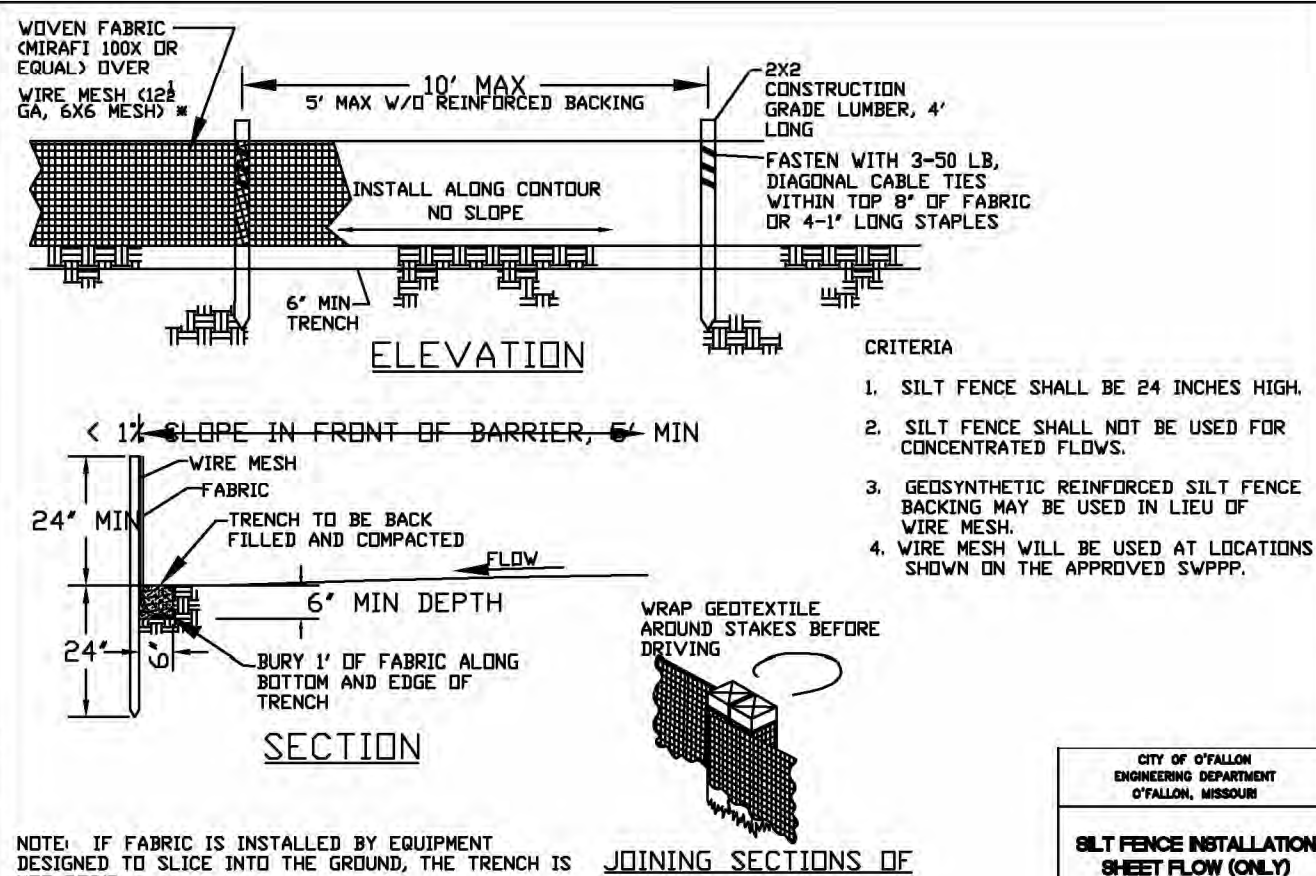
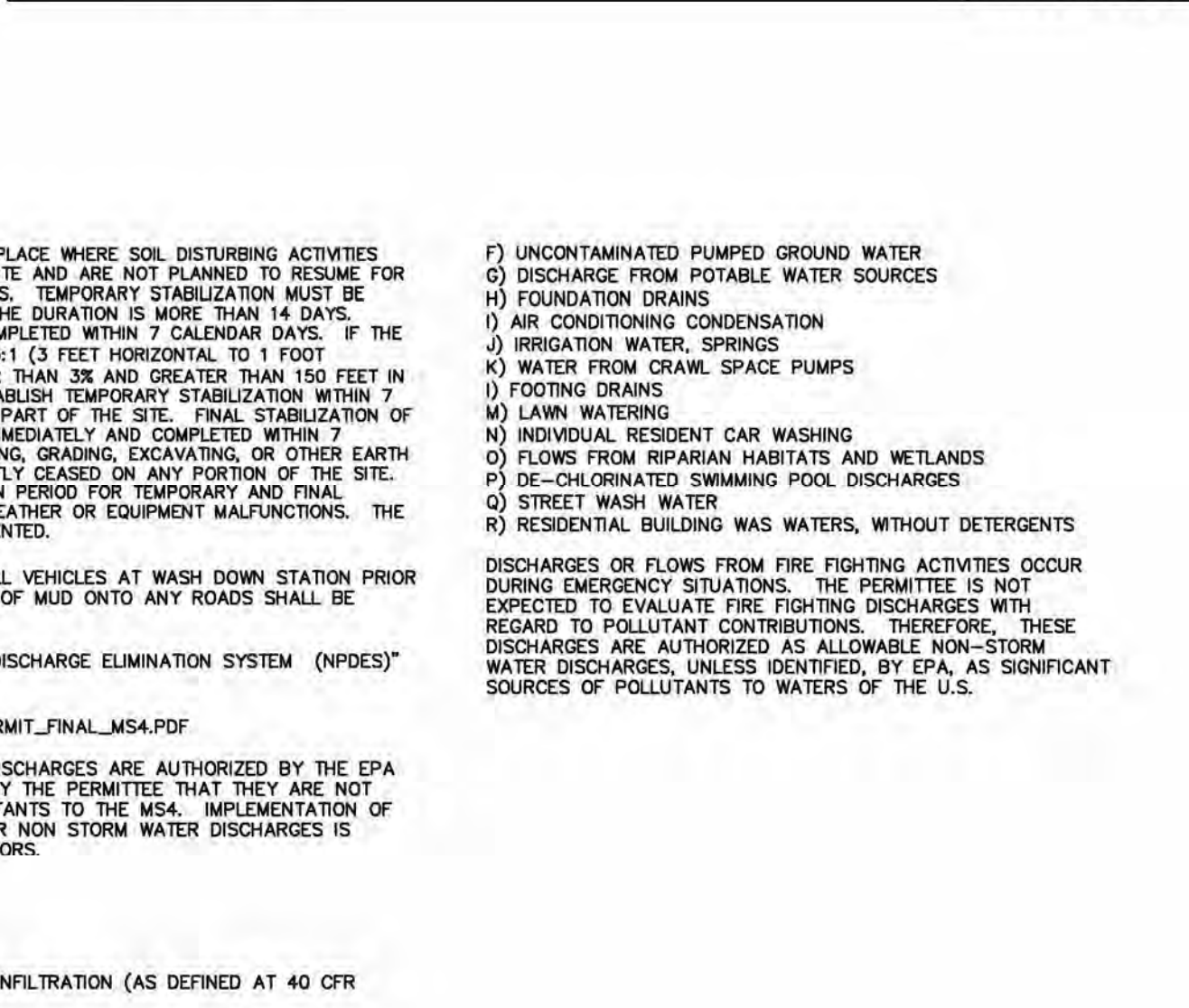
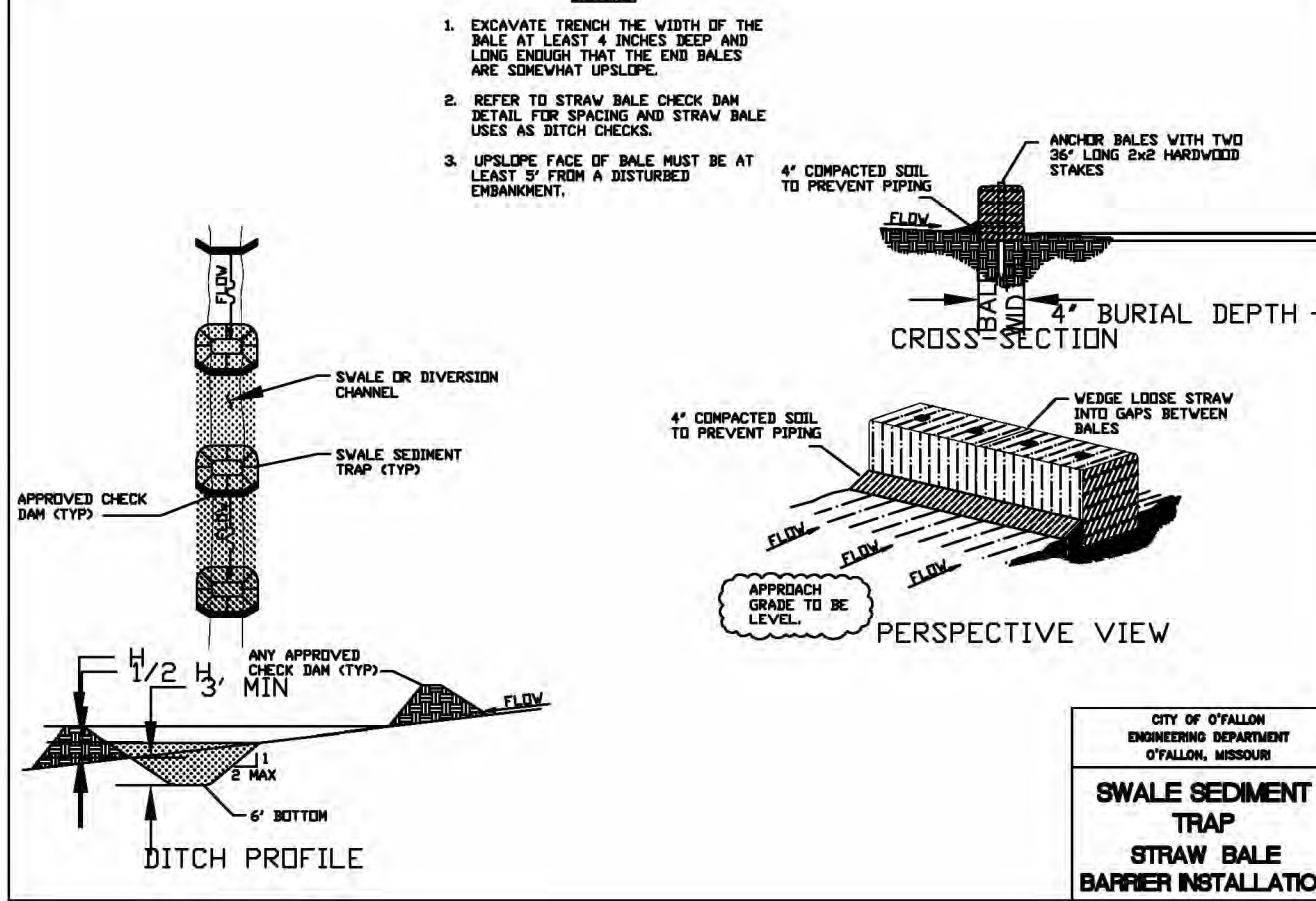
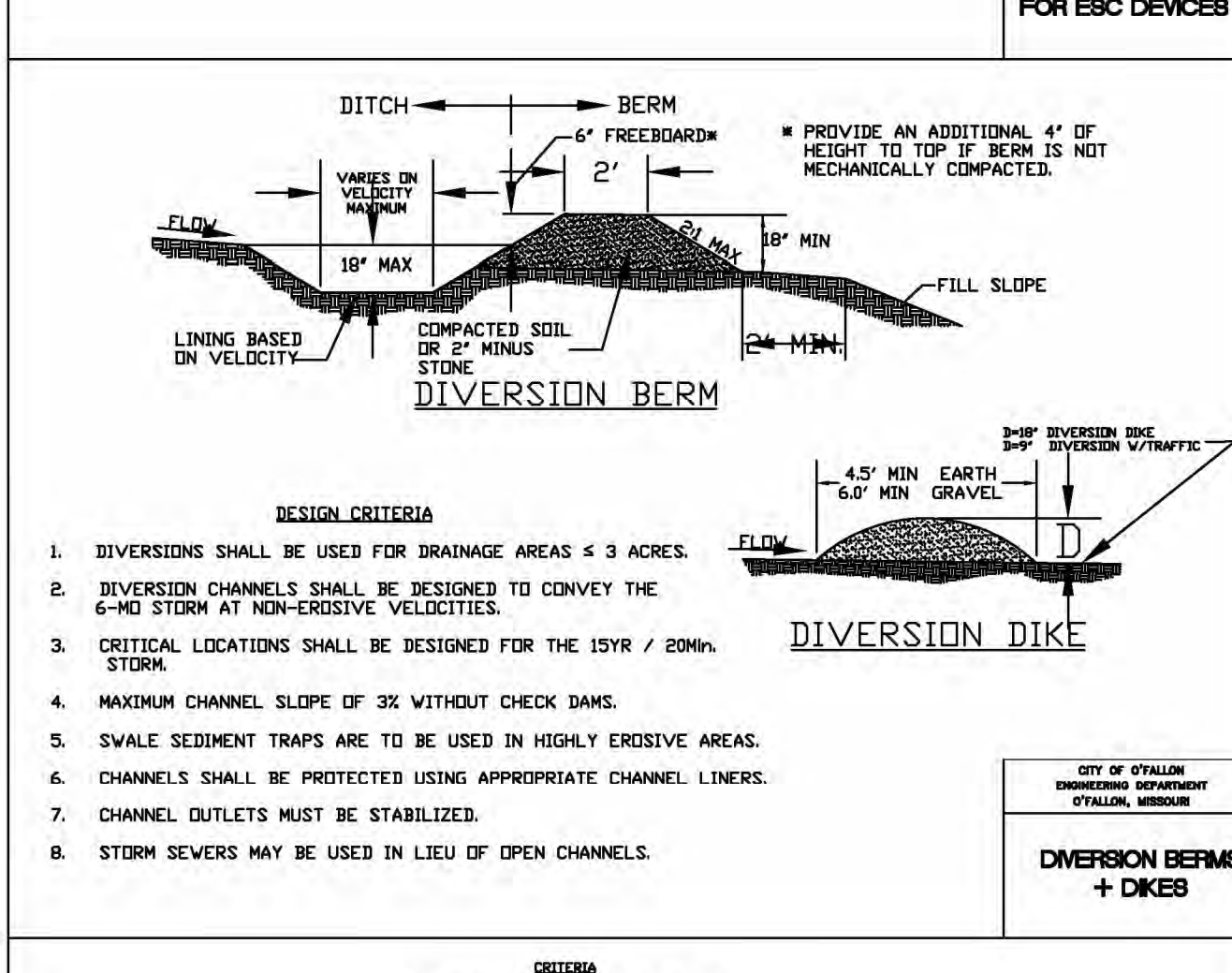
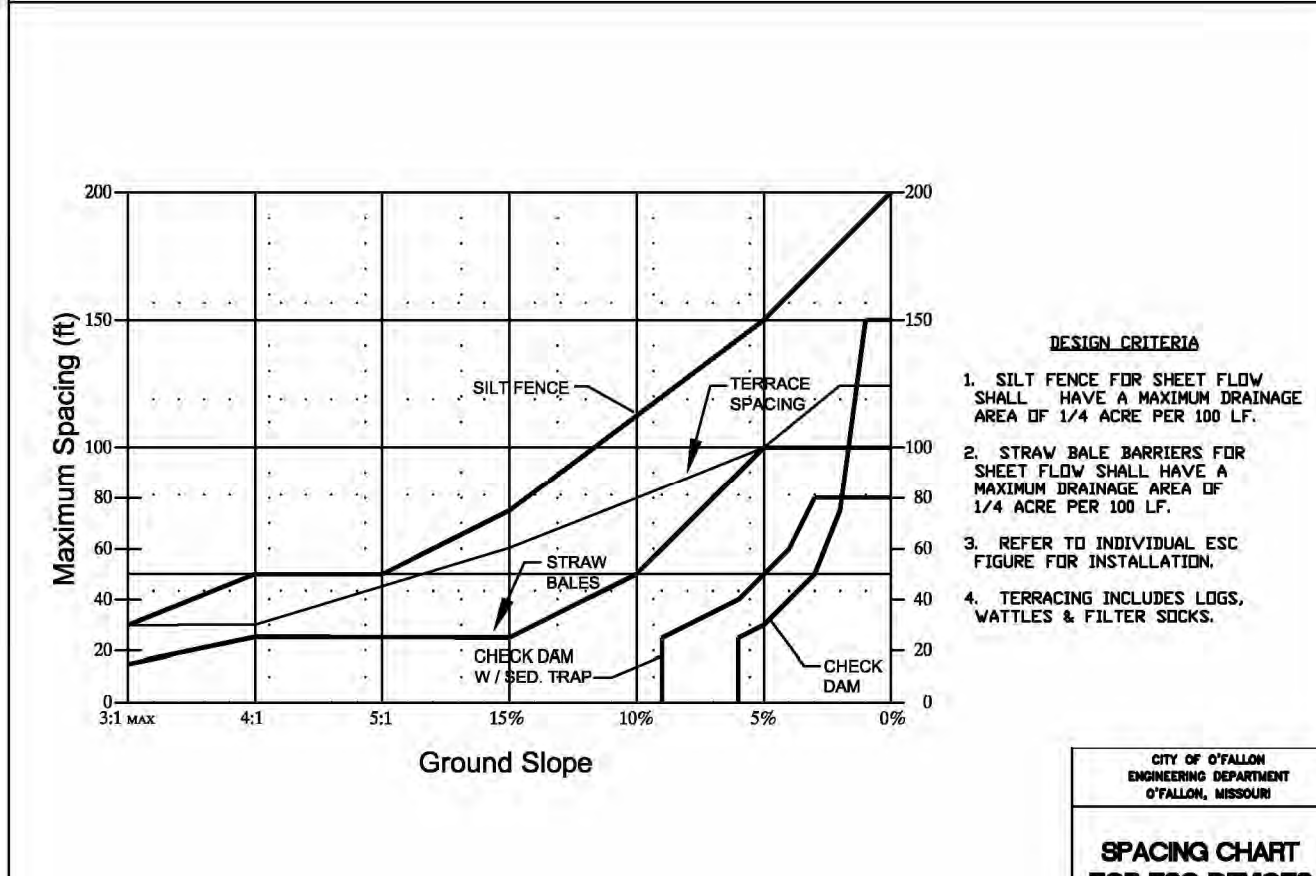
THE U.S. EPA "NATURAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)" WEBSITE IS LOCATED AT: http://cfpub.epa.gov/npdes/permits/permit_final_msa.pdf

THE FOLLOWING NON-STORM WATER DISCHARGES ARE AUTHORIZED BY THE EPA PROVIDED IT HAS BEEN DETERMINED BY THE PERMITTEE THAT THEY ARE NOT SIGNIFICANT CONTRIBUTORS OF POLLUTANTS TO THE MS4. IMPLEMENTATION OF POLLUTION PREVENTION MEASURES FOR NON STORM WATER DISCHARGES IS REQUIRED FOR SIGNIFICANT CONTRIBUTORS.

- WATER LINE FLUSHING
- LANDSCAPE IRRIGATION
- DIRTIED STREAM FLOWS
- RISING GROUND WATER
- UNCONTAMINATED GROUND WATER INFILTRATION (AS DEFINED AT 40 CFR 35.2005(20))

- UNCONTAMINATED PUMPED GROUND WATER
- DISCHARGE FROM POTABLE WATER SOURCES
- FOUNDATION DRAINS
- AIR CONDITIONING CONDENSATION
- IRRIGATION WATER, SPRINGS
- WATER FROM CRAWL SPACE PUMPS
- FOOTING DRAINS
- LAWN WATERING
- INDIVIDUAL RESIDENT CAR WASHING
- FLOWS FROM RIPARIAN HABITATS AND WETLANDS
- DE-CHLORINATED SWIMMING POOL DISCHARGES
- STREET WASH WATER
- RESIDENTIAL BUILDING WAS WATERS, WITHOUT DETERGENTS

DISCHARGES OR FLOWS FROM FIRE FIGHTING ACTIVITIES OCCUR DURING EMERGENCY SITUATIONS. THE PERMITTEE IS NOT EXPECTED TO EVALUATE FIRE FIGHTING DISCHARGES WITH REGARD TO POLLUTANT CONTRIBUTIONS. THEREFORE, THESE DISCHARGES ARE AUTHORIZED AS ALLOWABLE NON-STORM WATER DISCHARGES, UNLESS IDENTIFIED BY EPA, AS SIGNIFICANT SOURCES OF POLLUTANTS TO WATERS OF THE U.S.



Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Area to A1	Percent of A1
10124	Chertstone (Lithol) (Sd) (C)	C	15.1	100.0%
Totals for Area of Interest				0.0



Comment	REV. PER CITY CHECK LIST	REV. PER CITY COMMENTS	REV. PER CITY COMMENTS	REV. PER CITY COMMENTS
1ST SUB TO CITY	2/17/16	4/7/16	5/12/16	6/13/16

Engineered By:

DOERING ENGINEERING

CIVIL ENGINEERING • PLANNING • SURVEYING

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6000 Collins Rd.
St. Louis, MO 63112
Telephone: (314) 467-8819
Fac: (314) 845-1718

Seal

STATE OF MISSOURI

Professional Engineer

6/13/16

MARK A. DOERING
CIVIL ENGINEER E-23059
MO. EXPIRATION DATE: 6/13/16
IL. EXPIRATION DATE: DECEMBER 31 2014
IL. EXPIRATION DATE: DECEMBER 31 2013
MO. CORPORATE LICENSE NO. 001347
IL. CORPORATE LICENSE NO. 184.003035

PLAZA TIRE
1000 N MAIN ST.
O'FALLON, MO 63366
SWPPP DETAILS

Date: 2/17/16
Project Number: 15030D
File Name: 15030D
Drawn By: JAB
Check By: MAD

C6