Stormwater Pollution Prevention Plan

for:

Pergola Park – 4th Plat SW Redbuck Circle and SW Pergola Park Dr Lee's Summit, MO 64081

Operator(s):

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SWPPP Contact(s):

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SWPPP Preparation Date:

10/07/2017

Estimated Project Dates:

Project Start Date: 10/09/2017 Estimated Project Completion Date: 12/31/2022

Contents

SECTION	1: SITE EVALUATION, ASSESSMENT, AND PLANNING	1
1.1	Project/Site Information	1
1.2	Contact Information/Responsible Parties	1
1.2	Contact Information/Responsible Parties - Continued	
1.3	Nature and Sequence of Construction Activity	2
1.4	Soils, Slopes, Vegetation, and Current Drainage Patterns	2
1.5	Construction Site Estimates	3
1.6	Receiving Waters	3
1.7	Endangered Species Certification	
1.8	Applicable Federal, Tribal, State or Local Programs	
1.9	Maps	3
SECTION	2: EROSION AND SEDIMENT CONTROL BMPS	
2.1	Minimize Disturbed Area and Protect Natural Features and Soil	
2.2	Control Stormwater Flowing onto and through the Project	
2.3	Soil Stabilization	5
2.4	Construction Equipment near Waterways, Stabilization, and Restoration:	
2.5	Protect Storm Drain Inlets	6
2.6	Stabilized Construction Access/Dust Control	
	3: GOOD HOUSEKEEPING BMPS	
3.1	Material Handling and Waste Management	
3.2	Designate Washout Areas	7
3.3	Establish Proper Equipment/Vehicle Fueling and Maintenance Practices	7
3.4	Spill Prevention and Control Plan	7
	Pollution Prevention Plan Certification	
3.6	Non-Stormwater Discharge Management	9
	4: SELECTING POST-CONSTRUCTION BMPs	
	5: INSPECTIONS	
5.1	Inspections	9
5.2	Delegation of Authority 1	0
5.3	Corrective Action Log	0
	6: RECORDKEEPING AND TRAINING 1	
6.1	Recordkeeping 1	1
6.2	Training 1	1
	7: Certification of Compliance with Federal, State, and Local Regulations 1	
SECTION	8: CERTIFICATION AND NOTIFICATION	1

SWPPP APPENDICES Error! Bookmark not defined.

Appendix A – General Location Map

Appendix B – Construction General Permit

Appendix C – Drainage areas

Appendix D – Inspection Reports

Appendix E -- Subcontractor Certifications/Agreements

Appendix F – Training Log

Appendix G – USFWS: Missouri List of Threatened and Endangered Species

Appendix H – Historical Places

Appendix I - Soil Analysis

Appendix J - Site work and Erosion and Sediment Control Standard Drawings

APWA 5100 - you may also see drawings at http://kcmetro.apwa.net)

Appendix K - Stabilization Specifications

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Project/Site Name: Pergola Park - 4th Plat				
Project Street/Location: SW Redbuck Circle and SW P	ergola Park Drive			
City: Lee's Summit	Sta	te: MO	ZIP Code:	64081
County or Similar Subdivision: Jackson County				
Latitude/Longitude				
Latitude:	Longitude:			
1. 38° 54' 07.54" N (degrees, minutes, seconds)	_	36" W (deg	rees, minutes,	seconds)
1. 30 34 07.34 14 (20Breau; illinates, 00001110)			,	ŕ
Method for determining latitude/longitude:				
USGS topographic map (specify scale: 1:18,056 inc	nes)	EP	A Web site	☐ GPS
Other (please specify): Google Earth				
Is the project located in Indian country? Yes	⊠ No			
If yes, name of Reservation, or if not part of a Reservation	indicate "not appl	icable."		
if yes, harne of reservation, of it not part of a reservation	of triangular rice while.			
AA	□ v	⊠ No		
Is this project considered a federal facility?	☐ Yes	⊠ N0		
NPDES project or permit tracking number*: TO BE				
*(This is the unique identifying number assigned to your project by your appropriate National Pollutant Discharge Elimination System (NPDES)	permitting authority aft construction general pe	er you have ap rmit.)	plied for coverage	under the
1.2 Contact Information/Respons	sable Parties			
Project Manager(s) or Site Supervisor(s):				
Inspired Homes, LLC				
1301 Burlington Street, Ste 150, North Kansas City, MO	64116			
Office Ph 816-548-3300				
Nick Krier - Project Mgr Cell ph 913-387-7466 / Email	: nkrier@inspired-h	omes.com		
SWPPP Contact(s):				
Erosion Control, Inc.				
Margie Sobczynski, CPESC				

1.2 Contact Information/Responsable Parties - Continued

This SWPPP was Prepared by:

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Inspired Homes LLC - Project Manager - Nick Krier - cell 913-387-7466

1.3 Nature and Sequence of Construction Activity

This project will consist of new streets and storm sewers for the next residential phase of Pergola Park. A sediment trap is to be constructed on the southwestern portion of the project.

Phasing

- Phase 1 install temporary construction entrance, drainage swales, rock check dams, protect existing inlets, and perimeter sediment fence. Install temporary sediment trap with overflow rock check dams. Clear and grub site areas for construction not disturbing trees to remain.
- Phase 2 Maintain all controls from Phase 1. Clear and grub the remainder of the grading area. Remove
 and stockpile topsoil surrounding with silt fence. Install storm sewer and new streets.
- Phase 3 Maintain all controls remaining from previous phases and remove rock check dams. Install sediment fence for Phase 3. Complete site grading, storm and sanitary sewers, curbs and stabilization.

Sequence of Activities:

- 1. Mobilization
- 2. Demolition, clearing and grubbing will begin on or around 10/07,2017
- 3. Rough grading operations will follow the same sequence with installation of temporary BMP's occurring prior to any site disturbance or significant change in site construction.
- 4. As operations move and change, the BMP's and the SWPPP plan will be updated as needed.
- 5. Permanent BMP's will be constructed as early as practical during construction.
- 6. Final stabilization and landscaping activities will commence as closely behind specific discipline construction activities listed above in item 4 as practical. Permanent and temporary BMP's will be utilized together at this point.
- Seeded and landscaped areas and associated BMP's will be maintained until adequate vegetative cover is established.
- 8. Demobilize

1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):

See attached Appendix I - Greenton Silty Clay Loam

Slopes:

Slopes are gradual from northeast to southwest

Drainage Patterns:

All current drainage flows from the northeast to the southwest. The drainage pattern will be constructed according to the design of the new subdivision.

Vegetation:

Grass and treed area

Description of unique features that are to be preserved: Old Longview Lake

Describe measures to protect this feature: Rock ditch checks, silt fence, sediment traps and use of various necessary temporary erosion control measures such as but not limited to inlet protection, seeding, mulching, etc. until permanent soil stabilization is obtained.

1.5 Construction Site Estimates

Total project area to encompass entire project:

Construction site area to be disturbed:

Percentage impervious area before construction:

Percentage impervious area after construction:

Estimate 60 %

1.6 Receiving Waters

Description of receiving waters: Old Longview Lake

Description of storm sewer systems: City of Lee's Summit, MO

Description of impaired waters or waters subject to TMDLs: No impaired waters were located in the immediate area

Other:

1.7 Endangered Species and Historical Sites Certification

Appendix G for documentation retrieved from the US Fish and Wildlife Services_website providing facts and additional references regarding the endangered and threatened species and their habitats: Piping Plover, Least tern, Red knot, Indiana Bat, Gray Bat, and Northern Long-Eared Bat. The Project Construction Manager will work closely with the local field office of the US Fish and Wildlife Service, 101 Park DeVille, Suite A, Columbia, MO 65203-0057 - phone #573-234-2132.

Appendix H for documentation from the National Historical Society - there are no historical sites listed for this area.

1.8 Applicable Federal, Tribal, State or Local Programs

Applicable storm water management requirements will be reviewed and updated per the City of Lee's Summit, MO Stormwater Regulations and the Missouri Dept. of Natural Resources.

1.9 Maps

See the site maps attached - Appendix A, C, and I.

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

The Project shall exercise Best Management Practices (BMP's) throughout the project to control water pollution. BMP's that may be used on the project are listed and described below and in Appendix J. As the project evolves, this list of erosion and sediment control BMP's may change, adding BMPs as they become necessary. The appropriate erosion control measures and the timing during the construction process that these measures are to be implemented will be determined as the project progresses. Installed BMP's will be identified on the erosion and sediment control plans. These plans will be updated by the field personnel responsible for them whenever the:

- Design, operation, or maintenance of BMP's is changed
- Design of the construction project is changed that could significantly affect the quality of the storm water discharges

- Permittee's inspections indicate deficiencies in the SWPPP or any BMP
- SWPPP is determined to be ineffective in significantly minimizing or controlling erosion and sedimentation (e.g., there is visual evidence, such as excessive site erosion or excessive sediment deposits in streams or lakes).

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

Clearing of the right-of-way and removal of vegetation will be limited to the minimum width and depth of scraping necessary, using required equipment, safety and engineering design constraints. Vegetation removed from the site will be properly disposed of off-site. Salvaged topsoil will be stockpiled and protected until it is reused after grading operations are complete. Staging areas will be located at least 50 feet from the edge of wetlands, streams or other sensitive areas such as low points in the grade. Temporary BMP's will be installed prior to, or at the time of, ground disturbing construction and will remain in place until permanent measures have taken effect. They will be maintained until final stabilization and re-vegetation has been achieved. Temporary erosion and sediment controls shall include but not be limited to silt fence, rock ditch checks, concrete washout, rock accesses, etc will be installed at the edge of the work area, at storm sewer inlets, culvert pipes, within temporary and completed ditches, bottoms of cut and fill slopes and shall have significant redundancy as necessary, to prevent transport of sediment into any downgrade or adjacent stream, wetland, river, etc. This work shall consist of furnishing, installing, maintaining, and removing temporary erosion control measures as shown on the plans. Final stabilization and re-vegetation will be based upon contract specifications in Appendix K or City of City of Lee's Summit, MO, APWA Specifications. After final stabilization of the disturbed areas has been achieved, all temporary soil erosion and sediment control measures will be removed and properly disposed.

2.2 Control Stormwater Flowing onto and through the Project

BMP Description: Silt fence will be installed to control runoff from the site prior to start of construction, continue through progression of project, and removed when final stabilization has been achieved.

BMP Description: Temporary gravel access roads will be installed prior to start of construction in the designated area.

BMP Description: Rock ditch checks will be installed prior to start of construction when possible. Energy dissipaters will be installed if necessary at outfall locations (see Appendix J).

BMP Description: Sediment Logs may possibly be used to stabilize slopes and/ or inlet protection.

Maintenance Procedures:

- All BMP's shall be maintained in a good working order. If a repair is necessary, the repair shall be corrected within seven (7) calendar days of the inspection report, given suitable access conditions exists for repair. If weather conditions make it impossible to correct the problem within seven (7) calendar days, a detailed report of the problem must be filed with the regular inspection reports. The BMP malfunctions shall be corrected as soon as weather conditions allow.
- Deposited sediment shall be removed from BMP's when it has reached ½ (one half) the height of the control measure, or before.
- Silt fence, erosion logs, and straw bales shall be maintained for height of sediment, connection to stakes, and stability of stakes and tears or gaps.
- All other BMP's shall be maintained for sediment load, appropriateness given field conditions and adequate redundancy for potential sediment load based on disturbed surface.

Trenching and Structural Excavation/Excavation De-watering:

Soil excavated from trenches and other relatively small excavations shall be placed on the up-slope side of the excavation, if possible, to prevent sediment runoff away from the site.

De-watering discharge from any trench or excavation either will be conveyed back into the excavation or shall be controlled with temporary BMP's to prevent sediment runoff from entering drainage structures and streams.

2.3 Soil Stabilization

Disturbed areas outside the project will be graded and re-seeded as necessary to restore them to pre-construction conditions or the requirements of the landscape plans associated with this project. Site conditions will be considered restored when construction has been completed, final soil stabilization has occurred, all temporary erosion and sediment control measures have been removed or arrangements have been made for their removal at an appropriate future time, and re-vegetation is compliant with the contract specifications or APWA of Kansas City. Permanent stabilization measures will be initiated as soon as practical, and in most cases within 14 days after completion of construction, in any given section of the project. An exception may occur when construction ends near or after the end of the local growing season, due to wet weather site conditions. In that case, temporary measures will remain in place and be maintained until the next growing season. Site to be monitored weekly and following any rain event over 0.50" of rain until final stabilization has been achieved.

On areas of the site where soil disturbing activities will cease and are not planned to resume for a period exceeding fourteen (14) calendar days, temporary stabilization must be initiated immediately upon knowing of the 14-day cessation, and must be completed with seven (7) calendar days. On portions of the project where slopes are greater than 3:1, or greater than 3% and greater than 150 feet in length, all temporary stabilization must be completed within seven (7) days of ceasing operations. Temporary stabilization may include, but is not limited to the installation of sediment basins, check dams, sediment fences, and mulch; however, the preferred method of stabilization is seed and mulch. Seeding and/or mulching will be a continuous operation on all cut and fill slopes, excess material (waste), and borrow areas during the construction process. All disturbed areas shall be seeded and mulched or otherwise stabilized when and where necessary to eliminate erosion. Seeding and/or mulching shall be done as soon as possible after completion of the earthwork and preparation of the seedbed, weather permitting. Whenever clearing, grading, excavating or other earth disturbing activities have permanently ceased on a portion of the site, final stabilization must be initiated immediately and completed within 7 calendar days. Final stabilization can be achieved by covering disturbed areas with pavement, buildings or other structures, perennial vegetation or non-erodible materials such as adequately sized rock. With respect to areas that have been seeded, vegetation cover must be at least 70% plant density with uniform coverage over 100% of the disturbed area.

For the purposes of this section, allowances to the seven (7) day completion period for temporary and permanent stabilization may be made due to inclement weather or adverse site conditions. If utilized, these allowances must be documented in the SWPPP.

The following types of activities will constitute initiation of stabilization (this list is not exhaustive):

Prepping the soil for vegetative or non-vegetative stabilization	
Applying mulch or other non-vegetative product to the exposed area	
Seeding or planting the exposed area	
Starting any of the above activities on a portion of the area to be stabilized, but not on the entire area	
Finalizing arrangements to have stabilization product fully installed in compliance with the applicable deadline completing stabilization	for

Note: the term "immediately" in this section means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased.

2.4 Construction Equipment near Waterways, Stabilization, and Restoration:

Only equipment required to perform the construction activity and to restore disturbed areas shall be allowed in waterways. Temporary slope protection or erosion control measures will be applied to minimize erosion of the slopes. Equipment will not cross or enter waterways for convenience only.

Timber bridges, culverts, timber pads, pre-fabricated equipment pad, BMP's, etc. shall be removed from waterways upon completion of construction. All waterways disturbed shall be restored immediately to pre-construction drainage patterns or to the projects design drawings, grades, and contours with riprap up banks to current water line with hydroseeding above the riprap on disturbed soils.

Restored waterway areas subject to erosion due to concentrated water flow or rising waters due to heavy precipitation may be stabilized with erosion control fabric, fiber blankets, or other appropriate means. Seeding and mulch may also be used to help stabilize the area.

2.5 Protect Storm Drain Inlets

Inlet protection may include but not be limited to silt fence, coir logs, and gravel bags. Appropriate protection will be installed as needed during construction and maintained or replaced with the appropriate protection as construction progresses.

2.6 Stabilized Construction Access/Dust Control

Areas with limited vehicle access needs, vehicle tracking of soil onto public roads and paved areas will be minimized by removal of excess material from tires prior to entering public roads. In areas with frequent construction vehicle access, a stabilized construction access pad will be installed. Accumulated debris will be removed from the roadway by shoveling or sweeping as soon as practical. If sediment and debris control is not achieved by methods described above, periodic roadway washing may be used to clean the pavement.

BMP's will be employed to control dust during construction. These could include watering of haul roads and sited during dry or windy conditions, covering loads in transit and storage bins, roughening surfaces to minimize sediment uplift or temporary work shutdown if high winds occur for certain operations such as grading or concrete saw-cutting.

SECTION 3: GOOD HOUSEKEEPING BMPS

Material needed for the project will be stored in an area designated by the contractor to minimize disturbance to the project area. Material or substances expected to be present on site during project construction:

- Portland Cement Concrete
- Concrete Cure
- Asphalt Concrete
- Fertilizers
- Petroleum based products (fuel, oil, and lubricants)
- Cleaning Solvents
- Demolition material
- Lime
- Other fill material
- Cement
- Paints and stains

Material Management Practices:

The following material management practices shall be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff:

- Store only enough products require to reasonably do the job
- Materials stored on site shall be stored in a neat, orderly manner in their appropriate containers and, if possible, under a
 roof or other enclosure.
- Products shall be kept in their original containers with the original manufacturer's labels.
- Substances shall not be mixed with one another unless recommended by the manufacturer.
- Wherever possible, all the product in a package shall be used before disposing the container.

- Follow manufacturer's recommendations for proper use and disposal shall be followed.
- Containment berms and drip pans shall be installed at liquid storage tanks and containers.
- · Construction materials shall be stored away from drainage courses and low areas.
- Products shall be kept in original containers unless they are not re-sealable.
- Original labels and material safety data sheets (MSDS) will be retained; they contain important product information.
- If surplus product must be disposed, manufacturers or local and state recommended methods for proper disposal shall be followed.

3.1 Material Handling and Waste Management

The Contractor will install sanitary waste units on site prior to start of construction. All sanitary waste will be collected from the portable units a minimum of once a week by a licensed sanitary waste management contractor, as required by local regulations. These units will be properly weighted to ensure high winds do not tip them over and placed in locations where they will not jeopardize stormwater run-off if tipped over.

Contractor will clean and maintain site daily to minimize construction debris, trash and waste from leaving the site. Whenever possible the concrete, asphalt, and brick material will be used on site as fill material and will be crushed as necessary to meet material specification requirements. All personnel shall be trained regarding the correct procedure. The contractor's site superintendent in charge of the day-to-day operations of the construction activities will be responsible for compliance with procedures.

3.2 Designate Washout Areas

The Contractor will post signage at the designated area(s) and install proper containment for concrete washout if the concrete trucks will be washed out on site. No vehicle washing will occur on site.

3.3 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products retained on site will be stored in tightly sealed containers, which are clearly labeled.

3.4 Spill Prevention and Control Plan

In addition to the good housekeeping and material management practices discussed in the previous section of this plan, the following practices will be followed for spill prevention and cleanup:

All hazardous wastes generated during the project either from construction materials used or unforeseen materials discovered during construction shall be disposed of per the local, state, federal regulations or per manufacturers' recommended methods for spill cleanup. Spills of toxic or hazardous material shall be reported to the appropriate state or local government agency, regardless of size. When unknown materials including potentially contaminated soil and groundwater are encountered, they will promptly be identified, contained to prevent exposure to rain and sediment runoff with temporary BMP's and will be properly disposed of at a licensed disposal facility.

Manufactures recommended methods for spill cleanup shall be clearly posted and site personnel shall be made aware of the procedures and the location of the information and clean-up supplies.

Material and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials may include but not be limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

All spills will be cleaned up immediately after discovery. The spill area will be kept well ventilated and personnel will wear

appropriate protective clothing to prevent injury from contact with a hazardous substance.

The spill prevention plan will be adjusted to included measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will be included.

The site superintendent responsible for the day-to-day site operations will be the spill prevention and cleanup coordinator. He shall designate at least three (3) other site personnel, one (1) of who shall be from the nightshift if applicable, who shall receive spill prevention and clean-up training. These individuals shall each become responsible for a particular phase of prevention and clean up. The names of responsible spill prevention personnel shall be posted in the material storage area and in the office trailer on site.

Storage and handling procedures will be practiced by all subcontractors:

- Fuel, lubricants, debris and other water contaminants shall not be stored in areas that are subject to contact with water (such as adjacent to stream banks) or where contaminated runoff from the storage areas can enter waters.
- Do not store incompatible materials in the same secondary containment basin.
- Avoid transferring chemicals from one container to another. If a transfer is necessary, perform the transfer in secondary containment,
- Ensure that all chemical containers are properly labeled, indicating the contents and hazards involved.
- Store chemicals in an area protected from weather.
- Inspect all containers for damage or leaks at least weekly and before attempting to move them.
- Each employee should look for damaged or leaking containers each time they use a chemical from the storage area or add to the chemical stock.
- When working with hazardous materials, protect the ground or flooring with a suitable covering (one which is resistant to penetration by the material being used and that will contain small drips and spills).

To prevent fuel spills, the practices listed below should be followed:

- Pay attention when refueling vehicles/equipment so that they are not overfilled.
- If a leak is detected in a vehicle or piece of equipment, repair the leak as soon as possible; place plastic sheeting, or other
 receptacle of sufficient size to contain all leaking fluid, under the leak until the repair is made. If repairs cannot be made
 within 24 hours or if the leaking fluid cannot be contained, then the leaking equipment must be removed from the site
 immediately.

Spill Response

If a hazardous material spill should occur, it must be cleaned up immediately as follows:

- If a spill of gasoline or discharge of pollutants occurs, the local emergency staff should be contacted first by dialing 911.
 Hazardous material spills and air releases that need federal reportable quantities must also be immediately reported to the Missouri Dept of Natural Resources at (573) 634-2436. These incidences should also be reported to the National Spill Response Center (1-800-424-8802). The above numbers will be posted in a central location on site.
- Place all contaminated soil on an adequately-sized sheet of plastic.
- If a hazardous material spill occurs on pavement, it shall be absorbed with sand or other inert material and then placed on
 plastic sheeting. This includes spills of vehicle fluids. Pavement will not be washed where a hazardous material spill has
 occurred (including vehicle fluids) until all spilled material has been cleaned up.
- Cover contaminated soil or inert absorbent material with plastic to prevent runoff contamination and to prevent the material from becoming airborne in wind.
- Provide the Project Manager with a Material Safety Data Sheet for the type of spilled material to determine whether or not the material is hazardous.
- The project engineer will make a determination as to the proper method of disposal required and will coordinate with the Project Manager. The subcontractor shall arrange for disposal according to the guidelines and requirements provided by the Project Manager.

3.5 Pollution Prevention Plan Certification

The Program Manager Certifies under Penalty of Law that this document and all attachments were prepared under direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of our knowledge and belief, true, accurate, and complete. The Program manager is aware that there are significant penalties for submitting false information, including the possibility or fine and imprisonment for knowing violations.

Through acceptance of the contract containing this document, the Contractor certified under Penalty of Law the he (she) understands the terms and conditions of the general national pollution discharge elimination system (NPDES) permit that authorizes the stormwater discharges associated with individual activity from the construction site identified as part of the certification.

3.6 Non-Stormwater Discharge Management

Demolition of structures such as existing bridges may require water to be used as a form of dust mitigation. Under this circumstance, additional BMP's shall be installed to increase redundancy to at least the two (2) closest inlets in all drainage patterns adjacent to the demolition activity.

SECTION 4: SELECTING POST-CONSTRUCTION BMPs

Re-vegetation Procedures:

As the project progresses, permanent stormwater management will be incorporated with the use of culverts, outlet protection, detention and sediment basins ditches, as required by the contract and inlets. Final grading around these transference systems will occur, followed by permanently stabilization via seeding or landscaping. When permanent seeding and planting cannot occur due to the local growing season, temporary BMP's shall continue to be used to maintain the slope until the vegetation cover is adequate. Re-vegetative materials and applications shall conform to APWA – City of Kansas City, MO and contract specifications.

Permanent BMP's:

In conjunction with the re-vegetation efforts for this project, permanent BMP's will be shown on the drainage/grading plans. Final stabilization is in the design stage but may include detention ponds with forebays, sediment vaults within drainage networks, riprap lined pipe outfalls or ditches or concrete trickle channels. As design progresses, these features will be identified to meet the contract requirements. Permanent BMP's will be constructed as soon as practical within the site so the may be partially used during construction.

SECTION 5: INSPECTIONS

5.1 Inspections

1. Inspection Personnel:

Erosion Control, Inc. - Margie Sobczynski or Dan Sobczynski

15720 S Keeler St, Olathe, KS 66062

Ph 913-397-7324 Fax 913-397-9324 Email: erosioncontrol@ecikc.com

Inspection Practices -

- The permittee (or a representative of the permittee) shall conduct regularly scheduled inspections. These inspections shall be conducted by a qualified person, one who is responsible for environmental matters at the site, or a person trained by and directly supervised by the person responsible for environmental matters at the site. For disturbed areas that have not been finally stabilized, all installed BMP's and other pollution control measures shall be inspected for proper installation, operation and maintenance. All stormwater outfalls shall be inspected for evidence of erosion or sediment deposition. When practicable the receiving stream shall also be inspected for 50 feet downstream of the outfall. Any structural or maintenance problems shall be note in an inspection report and corrected as soon as possible but no more than seven calendar days after the inspection. All BMP's must be inspected in accordance to one of the two schedules listed below, and any changes to the frequency of inspection, including switching between the options listed below, must be documented in the SWPPP:
 - 1. at least once every 7 calendar days and 48 hours after any storm event equal to or greater than a 2-year, 24-hour storm (0.50 inches) has ceased during a normal work day and within 72 hours if the rain event ceases during a non-work day such as a weekend or holiday; or
 - 2. Once every 14 calendar days and within 24 hours of the occurrence of a storm event of 0.25 inches of precipitation or greater, or the occurrence of runoff from snowmelt. To determine if a storm event of 0.25 inches or greater has occurred on your site, you must either keep a properly maintained rain gauge on site, or obtain the storm event information from a weather station from your location.
 - A). Inspections are only required during the project's normal working hours.
 - B). You must conduct an inspection within 24 hours once a storm event has produced 0.25 inches within a 24-hour period, even if the storm event is continuing.
 - C). If you have elected to inspect every 14 calendar days and there is a storm event at your site that continues for multiple days, and each day of the storm produces 0.25 inches or more of rain, you are required to conduct an inspection within 24 hours of the first day of the storm and within 4 hours after the end of the storm.
- Inspection reports shall be kept in the SWPPP binder in the on-site project office and shall include at minimum the
 following information: inspector's name, inspection date, location, type of BMP that requires maintenance or
 modification, any new BMP's required for certain locations on the project, and locations of where construction activities
 have temporarily or permanently stopped. The inspection form shall be signed by the inspector and a copy shall be
 initialed after correction by the person responsible for making any corrections.
- Temporary and permanent slope stabilization shall be inspected for large bare areas and rill formation leading to significant sediment movement. The inspection form attached shall be used to document the inspections See Appendix D.

5.2 Delegation of Authority

Duly Authorized Representative(s) or Position(s):

Inspired Homes, LLC 1301 Burlington Street, Ste 150, North Kansas City, MO 64116 Office Ph 816-548-3300

Nick Krier - Project Mgr. - Cell ph 913-387-7466 / Email: nkrier@inspired-homes.com

5.3 Corrective Action Log

Changes to the SWPPP will be recorded on the weekly inspection reports and/or daily activity log.

SECTION 6: RECORDKEEPING AND TRAINING

6.1 Recordkeeping

The following records kept will include, but not be limited to, when:

- · Major grading activities occur
- Addition of new BMPs
- Replacement of failed BMPs
- Rainfall Activity Log
- · Significant changes in the activities or the timing of the project
- Construction activities temporarily or permanently cease
- An area is either temporarily or permanently stabilized
- Updates to site maps
- Changes in personnel

Records will be retained for a minimum period of at least 3 years after the permit is terminated.

6.2 Training

General stormwater and BMP awareness training will be provided for staff and subcontractors. Detailed training may be provided for staff and subcontractors with specific stormwater responsibilities if needed. — (See Appendix E and Appendix F)

SECTION 7: Certification of Compliance with Federal, State, and Local Regulations

SWPPP References:

This Stormwater Pollution Prevention Plan was developed using the following references: "Storm Water Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practices" from the United States Environmental Protection Agency. This manual is available at the USEPA internet site http://cfpubl.epa.gov/npdes/stormwater/swppp.cfm. Also referenced was the "Protecting Water Quality: A field guide to erosion, sediment and storm water best management practices for development sites in Missouri" from the Missouri Department of Natural Resources. This manual is available on the department's internet site at http://www.dnr.mo.gov/env/wpp/wpcp-guide.htm.

SECTION 8: CERTIFICATION AND NOTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

. .

Signature:

Title:

Date:

EPA SWPPP Template, Version 1.1, September 17, 2007

No. 3871

WO SEDWAR

Appendix A

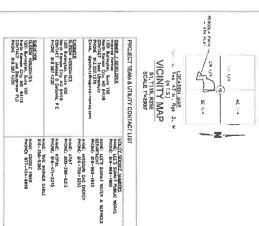
General Location Map

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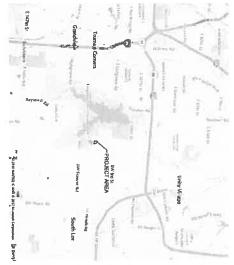


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C101



STREET & STORM SEWER PLANS SECTION 10, TOWNSHIP 47N, RANGE 32W IN LEE'S SUMMIT, JACKSON COUNTY, MO PERGOLA PARK **4TH PLAT**



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Melissa G DeGenia, P.E. CIVIL ENGINEER MOS 2011000892 OLSSON ASSOCIATES HAS BEEN RETAINED DRAWINGS FOR THIS PROJECT.

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CITY OF LEE'S SUMMIT REVIEWED BY:

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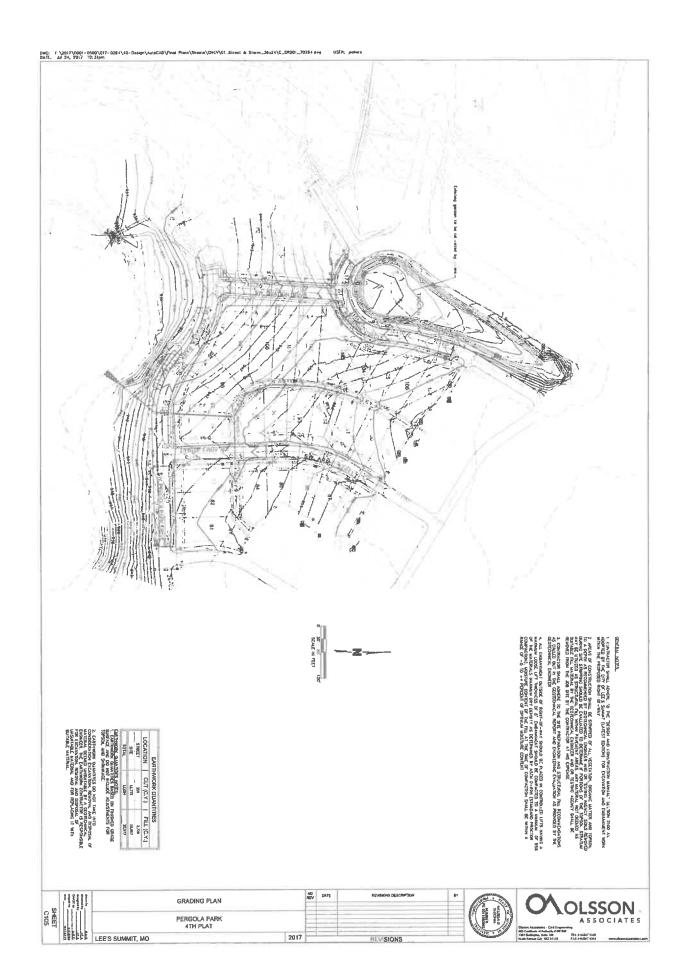


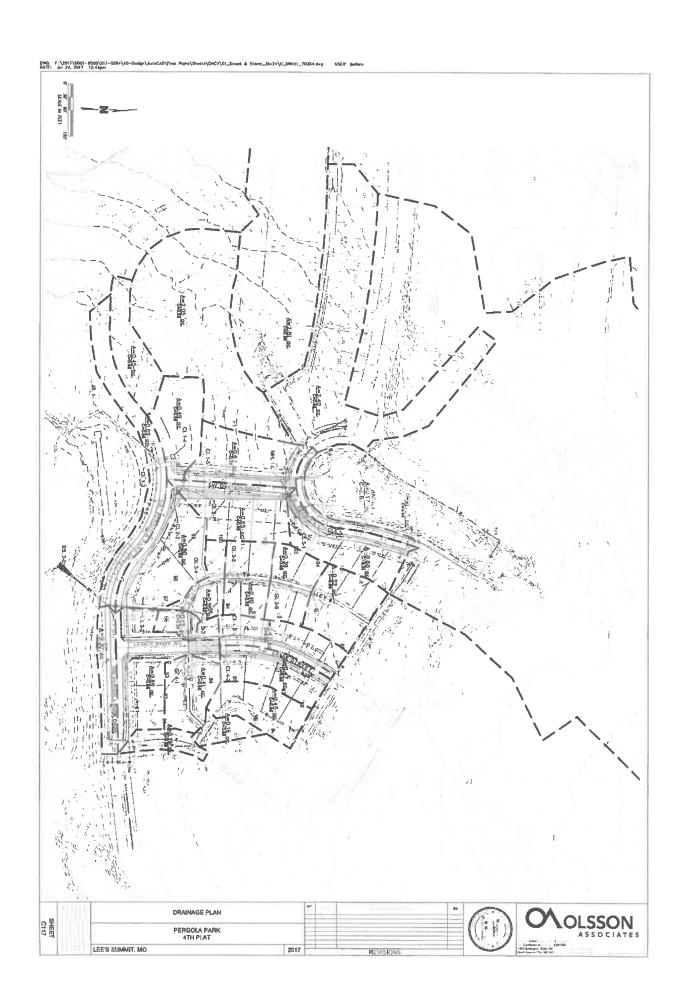
Appendix B

Construction Permits

Appendix C

Drainage Areas





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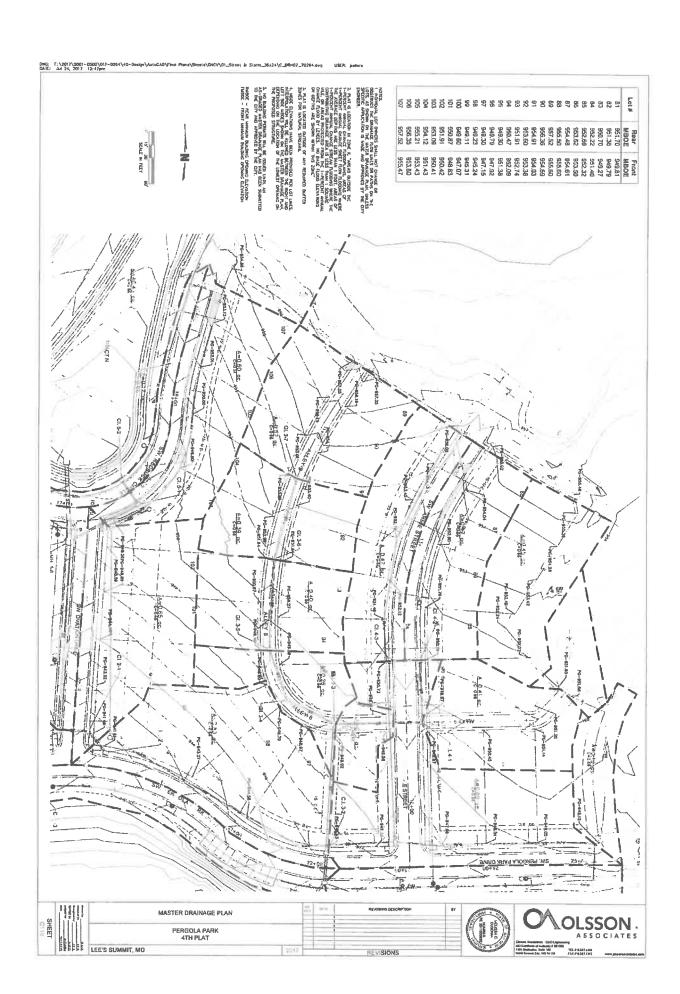
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		DRAINAGE TABLES	REV	DATE	RTVMMONE DESERVETION	BT .	ONOLSSON
0118		PERGOLA PARK 4TH PLAT					ASSOCIATES
	Hitte	LEE'S SUMMIT, MO 2017	F		REVISIONS		has Common of Authority # 2015/09 15th Edwingson, State 1999 TEL 514-547-A339 Sarris Ramon Chy MCS 8619



Appendix D

Erosion Control Plans

And

Inspection Report Coversheet

		Storn	wate	r C	Cons	truct	ion Site Insp	ection Report
					Gen	eral Int	ormation	
Pro	ject Name	Perg	ola Par	k 4	th Pla	ı, Lee's	Summit, MO	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
NPI	DES Tracking No.							
Dat	e of Inspection					5	start/End Time	
Insp	ector's Name(s)							
Insp	ector's Qualification(s)							
Insp	ector's Contact Information	n						1
	cribe present phase of struction							
	e of Inspection: egular Pre-storm eve	nt	Durii	ng sto	orm ev	ent/	Post-storm e	vent
					Wea	ther In	formation	
If yo	there been a storm event sizes, provide: m Start Date & Time:	Storm				Yes	No Approximate Ame	ount of Precipitation (in):
	ather at time of inspection: learCloudyRain _	Sleet	Fog	S	Snowi	ng	High Winds Oth	ner: Temperature
	re any discharges occurred s es, describe:	ince the	last ins	pecti	ion?	Yes	No	
	there any discharges at the es, describe:	time of	nspect	ion?	Y	es 1	No	
1	BMPs as necessary inspecting all requi Describe corrective Action Log. Location of BMP). Carry ired BMI	a copy 's at yo initiate	of the ur sit d, da BM Ms Re	e site le. ite con	map wit	th you during you	n your site map. List them helow (add as many r inspections. This list will ensure that you are son that completed the work in the Corrective ion Needed and Notes
2	Inlet protection	Yes	No		Yes	No		

	Location of BMP	BMP Installed	?	BMP Mainter Require		Corrective Action Needed and Notes
1	Silt fence	Yes	No	Yes	No	
2	Inlet protection	Yes	No	Yes	No	
3	Construction Access	Yes	No	Yes	No	A
4		Yes	No	Yes	No	
5		Yes	No	Yes	No	
6		Yes	No	Yes	No	
7		Yes	No	Yes	No	
8		Yes	No	Yes	No	
9		Yes	No	Yes	No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

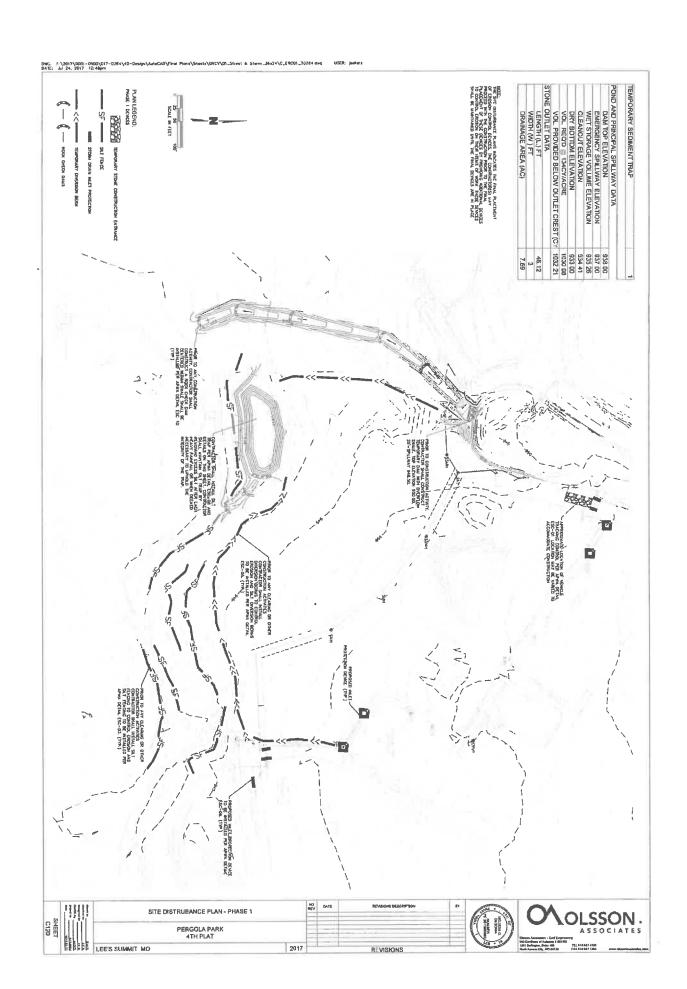
	BMP/activity	In	ıplem	ented?		Iainte .equir	 	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?		Yes	No	L	Yes	No	

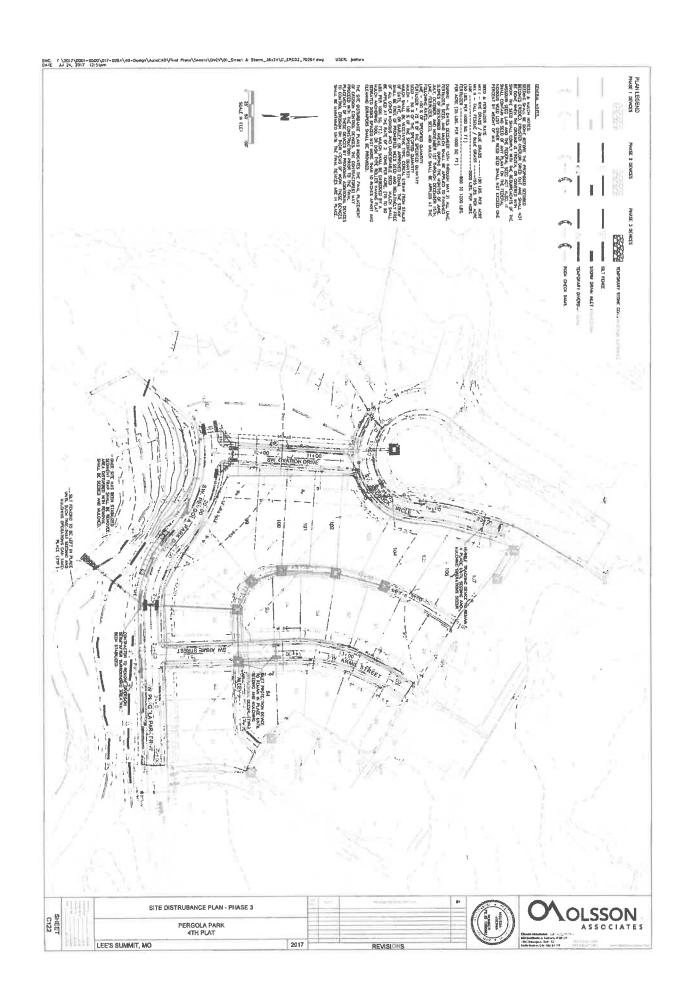
Pergola Park - 4th Plat

Page 1 of 2

Lee's Summit, Jackson County, MO

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	Yes No	Yes No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	Yes No	Yes No	
4	Are discharge points and receiving waters free of any sediment deposits?	Yes No	Yes No	
5	Are storm drain inlets properly protected?	Yes No	Yes No	
6	Is the construction exit preventing sediment from being tracked into the street?	Yes No	Yes No	
7	Is trash/litter from work areas collected and placed in covered dumpsters? Sanitary facilities secure?	Yes No	Yes No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	Yes No	Yes No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	Yes No	Yes No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	Yes No	Yes No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	Yes No	Yes No	
		N	Ion-Compliance	
Desc	ribe any incidents of non-compliance no	t described above	:	
	accordance with a system designed to as Based on my inquiry of the person or pe information, the information submitted i	locument and all sure that qualifie rsons who manag s, to the best of n	d personnel prop ge the system, or ny knowledge an	EMENT e prepared under my direction or supervision in erly gathered and evaluated the information submitte those persons directly responsible for gathering the d belief, true, accurate, and complete. I am aware tha he possibility of fine and imprisonment for knowing
	Print name and title:			
	Signature:			





Appendix E

Subcontractor Certifications/Agreements

The attached master form is to be completed by the general contractor and each subcontractor on the project following the SWPPP Training session. The signed form is to be kept in Appendix E for record.

Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

Project Number:
Project Title: Pergola Park – 4th Plat, Lee's Summit, Jackson County, MO
Operator(s):
As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.
Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:
I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP and the general National Poliution Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity for the above designated project. I agree to follow the BMPs and practices described in the SWPPP.
This certification is hereby signed in reference to the above-named project:
Company:
Address:
Telephone Number:
Type of construction service to be provided:
Signature:
Title:
Date:

Appendix F

Training Log

SWPPP Training Log

Stormwater Pollution Prevention Training Log

Proj	ect Name: Pergola Park – 4th	Plat		
Proj	ect Location: SW Pergola Pa	ark Dr	rive and SW Redbuck Circle, Lee's Summit, MO	
Instr	uctor's Name(s):			
Instr	ructor's Title(s):			
Cou	rse Location:			
Date	e:			-
Cou	rse Length (hours):			
Stor	mwater Training Topic: (check a	s app	propriate)	
	Erosion Control BMPs		Emergency Procedures	
	Sediment Control BMPs		Good Housekeeping BMPs	
	Non-Stormwater BMPs			
Spe	cific Training Objective:			_
Atte	ndee Roster: (attach additional j	oages	s as necessary)	
No.	Name of Attendee		Company	-
1				
3				_
4				
5				- 1 3
6				-
7				
8				
9				
40		***		

Appendix G

List of Threatened and Endangered Species



ECOS / Species Reports / Species By County Report

Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the <u>IPaC</u> application.

County: Jackson, Missouri

≛ CSV

Need to contact a FWS field office about a species? Follow this link to find your local FWS Office.

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Birds	Piping Plover (Charadrius melodus)	except Great Lakes watershed	Threatened	Office of the Regional Director	Piping Plover Atlantic Coast Population Revised Recovery Plan	Implementation Progress	Final Revision 1
Birds	Piping Plover (Charadrius melodus)	except Great Lakes watershed	Threatened	Office of the Regional Director	Volume I: Draft Revised Recovery Plan for the Northern Great Plains Piping Plover (Charadrius melodus)	Recovery efforts in progress, but no implementation information yet to display.	Draft Revision 1
Birds	Least tern (<u>Sterna</u> antillarum)	interior pop.	Endangered	Mississippl Ecological Services Field Office	Least Tern (Interior Pop.)	Implementation Progress	Final
Birds	Red knot (<u>Calidris canutus</u> <u>rufa</u>)	Wherever found	Threatened	New Jersey Ecological Services Field Office			
Fishes	Pallid sturgeon (<i>Scaphirhynchus</i> <i>albus</i>)	Wherever found	Endangered	Missouri River Coordinator Office	Final Revised Recovery Plan for the Pallid Sturgeon (Scaphirhynchus albus)	Implementation Progress	Final Revision 1
Flowering Plants	Western prairie fringed Orchid (<i>Platanthera</i> praeclara)	Wherever found	Threatened	Minnesota- Wisconsin Ecological Services Field Office	Western Prairie Fringed Orchid	Implementation Progress	Final

Group	Name	Population	Status	Lead Office	Recovery Plan	Recovery Plan Action Status	Recovery Plan Stage
Mammals	Indiana bat (<u>Myotis sodalis</u>)	Wherever found	Endangered	Indiana Ecological Services Field Office	Indiana Bat (Myotis sodalis) Draft Recovery Plan: First Revision	Implementation Progress	Draft Revision 1
Mammals	Gray bat (<u>Myotis</u> g <u>risescens</u>)	Wherever found	Endangered	Missouri Ecological Services Field Office	Gray Bat	Implementation Progress	Final
Mammals	Northern Long- Eared Bat (<u>Myotis</u> septentrionalis)	Wherever found	Threatened	Minnesota- Wisconsin Ecological Services Field Office			



Appendix H

Historical Places





Missouri's historic sites have been around a long time. But that doesn't mean you should take them for granted. Instead, sook up as many as you can.

Famous cemeteries, Civil War battle sites, even the world's first skyscraper are all here for you to appreciate



HARRY'S TROMAN

After Harry S Truman grew up in Independence, leading the allied forces to victory in World War II seemed like the next logical step. And to think, the newspapers at first reported that he lost his election



....

Archeologists and treasure hunters have been searching the Missouri countryside for lesse tames' buried riches Meanwhile, above ground, the lore of his life and mystery surrounding his death is definitely present



MADE TWAIT

Samuel Clemens was born in Missouri Then, he penned under the name Mark Twain and changed Hannibal, Missouri into America's Hometown with classic literary characters like Tom Sawyer and Huckleberry Finn.



Thirds.

Missouri found itself smack dab in the middle of the Civil War in the middle of the 19th century Revisit the famous battlegrounds and cemeteries to put yourself back there a defining time in our nations history

Results 25 v

Sort By Name (A-Z) ▼ Page 1of 25 << 1 2 3 4 5 >>> * FEATURED THING TO DO • NATIONAL BLUES MUSEUM St. Louis | Museum **H 1827 LOG COURTHOUSE** Independence | Historic Site 1855 HARRIS-KEARNEY HOUSE Kansas City Historic Site 1859 JAIL, MARSHAL'S HOME AND MUSEUM Independence | Museum 1889 SQUIRREL CAGE JAIL Gallatin | Museum 1906 MISSOURI-PACIFIC DEPOT AND AURORA HISTORICAL SOCIETY MUSEUM Aurora | Museum A. L. WEBB SCHOOL MUSEUM AND VETERAN S MEMORIAL East Prairie | Museum **ADAIR COUNTY HISTORICAL SOCIETY MUSEUM** Kirksville | Museum AGENCY FORD MUSEUM Agency | Museum AIR AND MILITARY MUSEUM OF THE OZARKS Springfield | Museum ALBRECHT-KEMPER MUSEUM OF ART St. Joseph | Museum **ALLEY MILL-NATIONAL PARK SERVICE** Eminence | Historic Site AMERICAN JAZZ MUSEUM Kansas City | Museum AMERICAN KENNEL CLUB MUSEUM OF THE DDG St. Louis | Museum

AMERICAN ROYAL MUSEUM AND VISITORS CENTER

Kansas City Museum

AMTRAK - HERMANN STATION Hermann | Railroad

River Bend [74] Independence Blue S Raytovni d Park Unity Village 435 w's Summit Grandview 1 (150) Loch Lloyd Belton Raymor lassi (293) W Gorgle Map data ©2017 Google Project area

🖾 🗸 - ANCIENT UZAKKS NATURAL HISTURY MUSEUM Ridgedale | Museum ANDREW COUNTY MUSEUM Savannah | Museum ANHEUSER MUSEUM AND ESTATE Kimmswick | Museum ARABIA STEAMBOAT MUSEUM Kansas City | Museum ARROW ROCK AFRICAN-AMERICAN EXPERIENCE MUSEUM Arrow Rock | Museum ARROW ROCK STATE HISTORIC SITE

Arrow Rock | State Parks and State Historic Sites ARROW ROCK TRAM TOURS Arrow Rock | Organized Tour **ASSEMBLIES OF GOD NATIONAL HEADQUARTERS** Springfield | Museum ATKINS-JOHNSON FARM AND MUSEUM Gladstone | Museum

Page 1 of 25 <<< 1 2 3 4 5 >>>

Appendix I

Soil Analysis Report



This product is generated from the USDA-NRCS certified data as distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more Maps from the Web Soil Survey are based on the Web Mercator line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed Date(s) aerial images were photographed: Oct 14, 2014-Oct misunderstanding of the detail of mapping and accuracy of soil The orthophoto or other base map on which the soil lines were Enlargement of maps beyond the scale of mapping can cause compiled and digitized probably differs from the background projection, which preserves direction and shape but distorts Soil map units are labeled (as space allows) for map scales imagery displayed on these maps. As a result, some minor Source of Map: Natural Resources Conservation Service The soil surveys that comprise your AOI were mapped at Please rely on the bar scale on each map sheet for map accurate calculations of distance or area are required. Coordinate System: Web Mercator (EPSG:3857) MAP INFORMATION Warning: Soil Map may not be valid at this scale. shifting of map unit boundaries may be evident. Soil Survey Area: Jackson County, Missouri Survey Area Data: Version 17, Sep 28, 2016 of the version date(s) listed below. Web Soil Survey URL: 1;50,000 or larger, measurements. scale. Special Line Features Streams and Canals Interstate Highways Aerial Photography Very Stony Spot Major Roads Local Roads Slany Spot US Routes Spoil Area Wet Spot Other Raits Water Features Transportation Background MAP LEGEND Œ 8 0 ŧ Soil Map Unit Polygons Severely Eroded Spot Area of Interest (AOI) Miscellaneous Water Soil Map Unit Points Soil Map Unit Lines Closed Depression Marsh or swamp Perennial Water Mine or Quarry Rock Outcrop Special Point Features **Gravelly Spot** Saline Spot Sandy Spot Slide or Slip Borrow Pil Gravel Pit Lava Flow Sodic Spot Clay Spot Area of Interest (AOI) Sinkhole Blowout Landfil 9 ğ 0 Solls

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOi
30080	Greenton slity clay loam, 5 to 9 percent slopes	12.4	100.0%
Totals for Area of Interest		12.4	100.0%

Appendix J

Erosion and Sediment Control and Standard Drawings

SECTION 2150 - EROSION AND SEDIMENT CONTROL

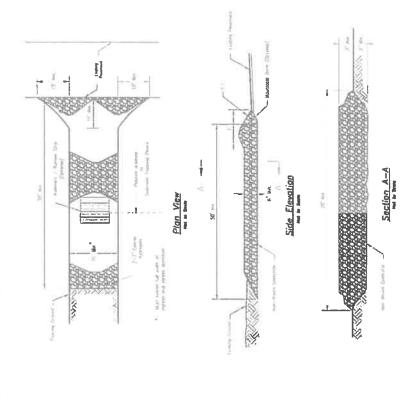
CITY OF LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS

The City of Lee's Summit hereby adopts Section 2150 of the Kansas City Metropolitan Chapter of APWA Construction and Material Specifications, current edition. The following additions, deletions and/or revisions are adopted as a part of Section 2150 for use within Lee's Summit. Text in bold italies indicates revisions or additions to the APWA standard.

2154.5.A (Silt Fence) Materials, Construction Requirements, and Maintenance:

ADD the following:

- 1. Silt fence shall not be used in swales, drainage-ways, channels and other conduits of concentrated stormwater flow.
- 2. Silt fence shall not be used to direct or divert water.



5. Dies spannen westeld deren des neuersell, emmerkeurs georg des Stant solds habitette benegntell für till am de jegend, der deskribtet groots menceller der bes annehmen, mentement, geoffer entered of the spannente medeste georg gend for tribiblises.

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Notes for Concells Boshout:

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Notes for Construction Entrance

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- 2. Remark as requision and cour usuabable moterial from the foundation area, grads, and count for pandire plant.
- 3. If stope became the public road secrets 2% revelues it is in a lands they nope out 24.1Y size those somes the public road to distribute they be depose the public road to distribute they are the size of the public road to distribute the size of the
- 6, htjief pận poán the entrate ở neptra to man dravage dichas atong public mats
- 5. Place africe to decembers and grosts as whom on place. Laws narince stepart for drawings.
- 8. Divert as surface runoff and drainings from the enforces in a sectionist control severs.

 - If condises cover, place gentralite fabric on the gradest faundation to improve steadily.

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CONSTRUCTION_ENTRANCE

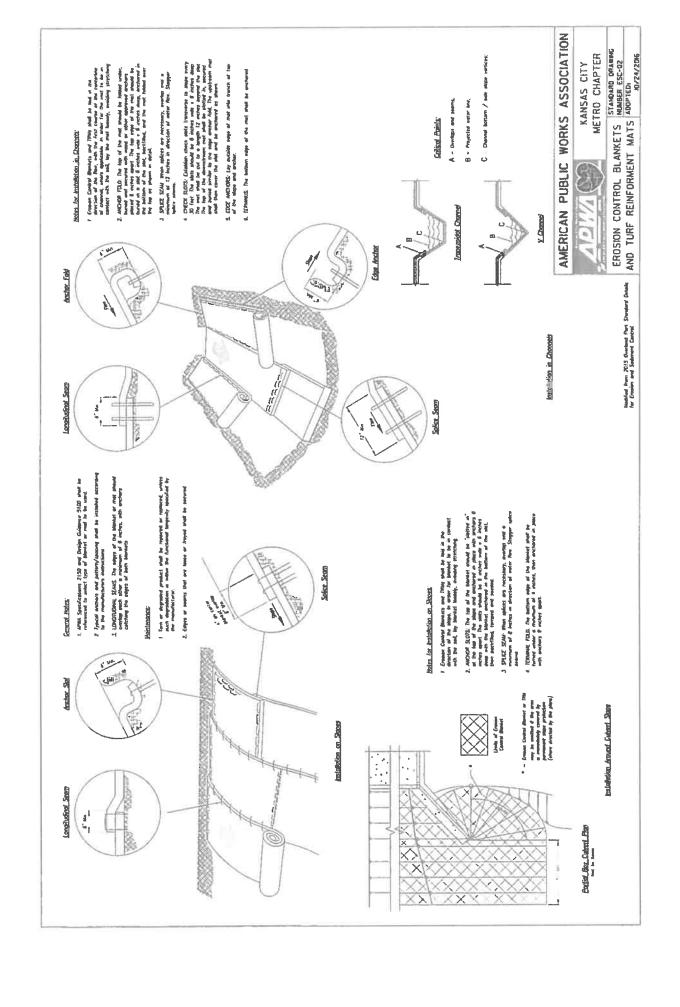
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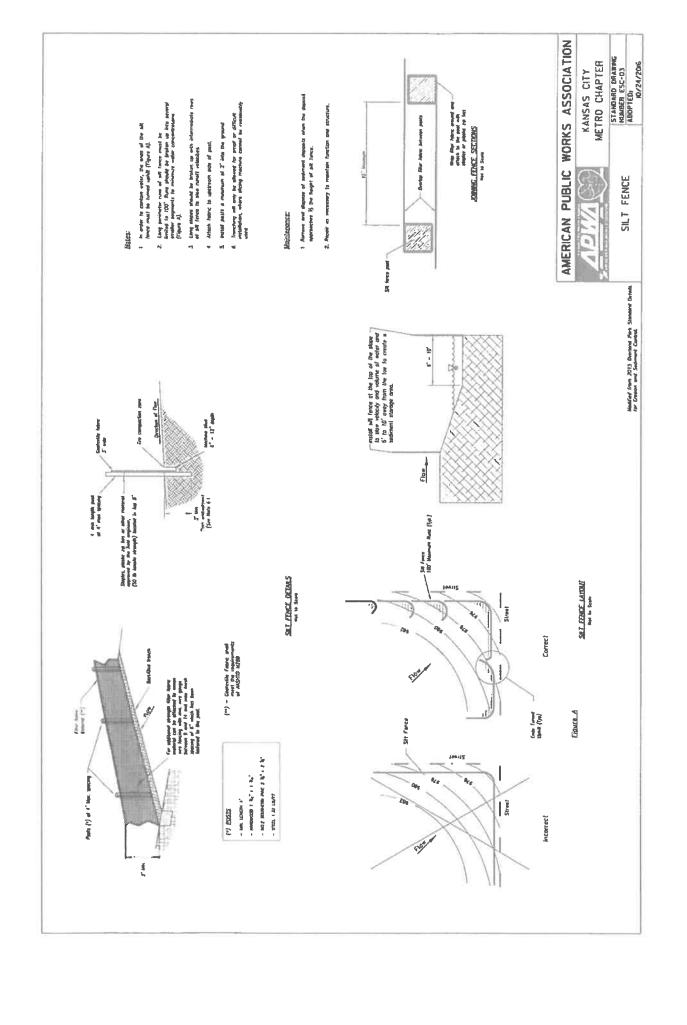
CONCRETE WASHOUT

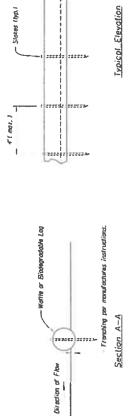


STANDARD DRAWING MUMBER ESC-OI ADOPTED: AO/24/2016

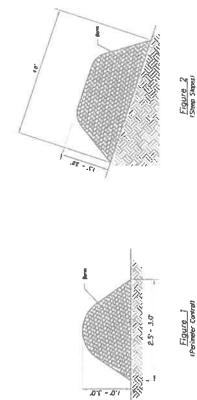
KANSAS CITY METRO CHAPTER







WATELS AND BIODECRADABLE LOG



10- 20

MULCH OR COMPOST FILTER BERMS

Notes for Mulles and Bookenadable Log Slove Crateglion:

- I The Stape tearners shall be placed about combase lines, soch a part action tearned support of each and of the between The measurem whost of the about amount when a stape tearner shall not exceed 250 fort, and the action
- 2. Install wellter and inclugations togs per manufacture's estructions
- Summany of strains per manufacturals's statestone with 4" max appoints
 length of states state to a minimum of 7 lanes the desmeter
 of the log with minimum of 24".

Notes for Mukth and Compost filter Beags

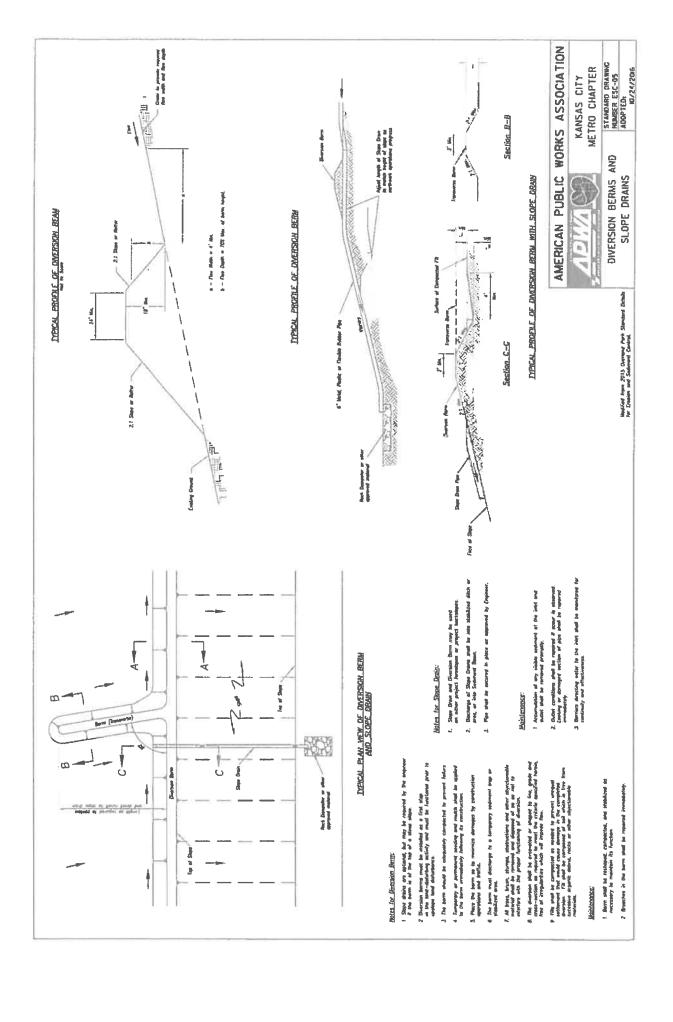
- The sediment central term and be placed uncament to a weather at lacebars where an the plans are or ifaction by the engineer.
- If bem is to be left as permanent or part of the natural brotholips, the turnjust herm may be seeded during application for permanent registrion.
- Do not use compass or ease much terms in nursh charvess or concentrated flow ense.
- S they much whole common of they and shrink obtain responsed reputing and yand being and half they ground by the mechanist meets and this or chipse, humanism's the princes or whole agreement method. Also princes or whose agreement method and the common with the Saley tower with a measurem with the Saley tower with a measurem with the Saley tower of the sale of the measurem with the Saley tower of the sale o

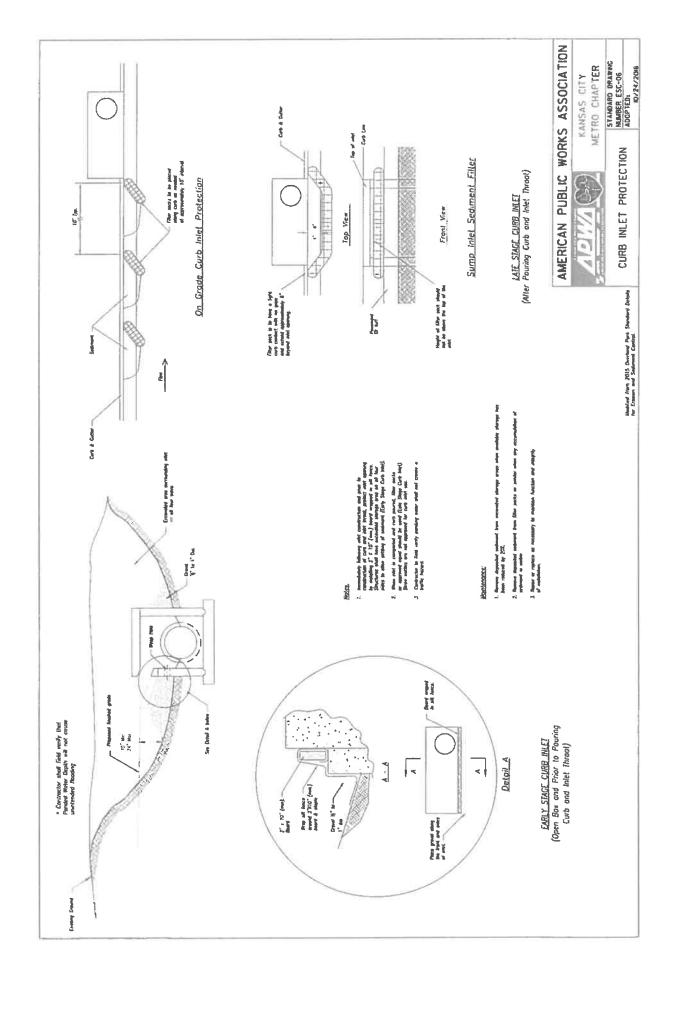
Maintenance for Mulch and Compost Filter Bram:

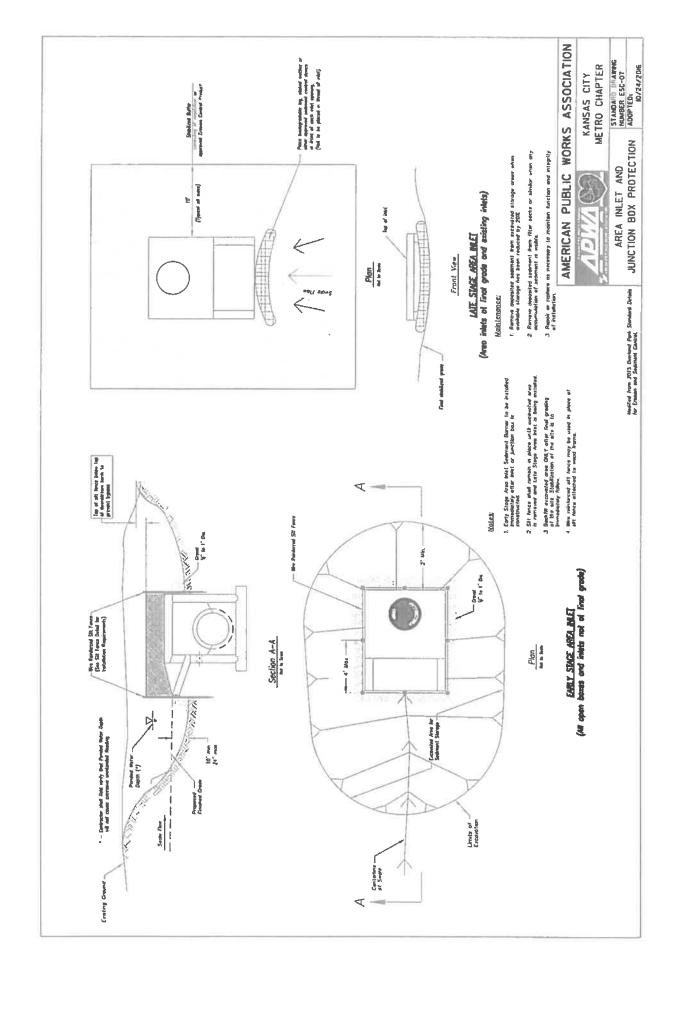
- Bern shall be reshaped and missent added as necessary to manten function and demonstrate.
- 2. Breaches in the horn shed be repoint promptly

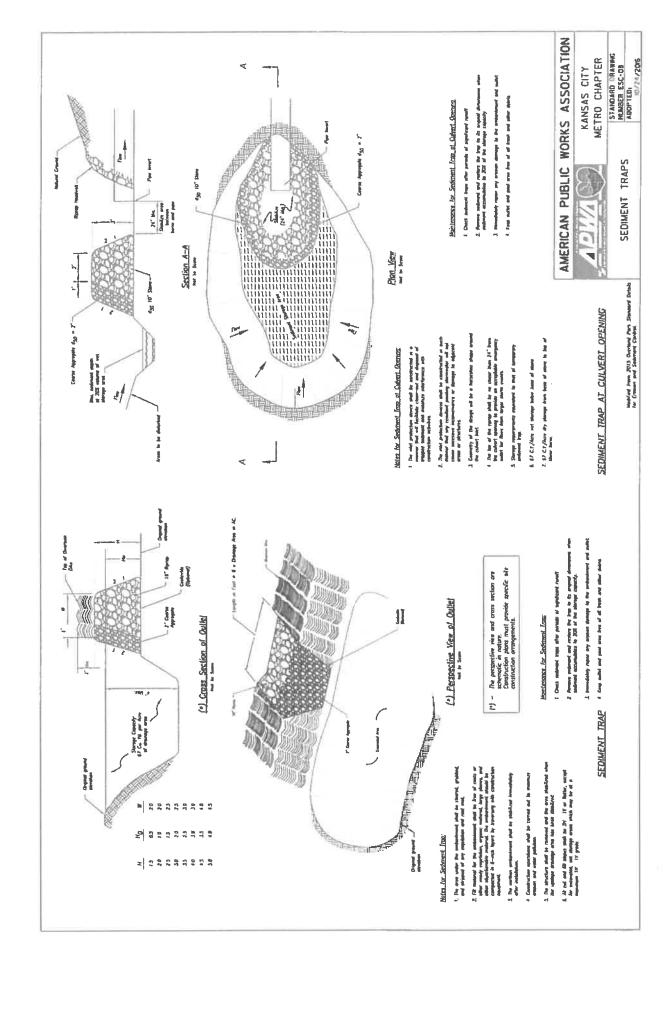
AMERICAN PUBLIC WORKS ASSOCIATION

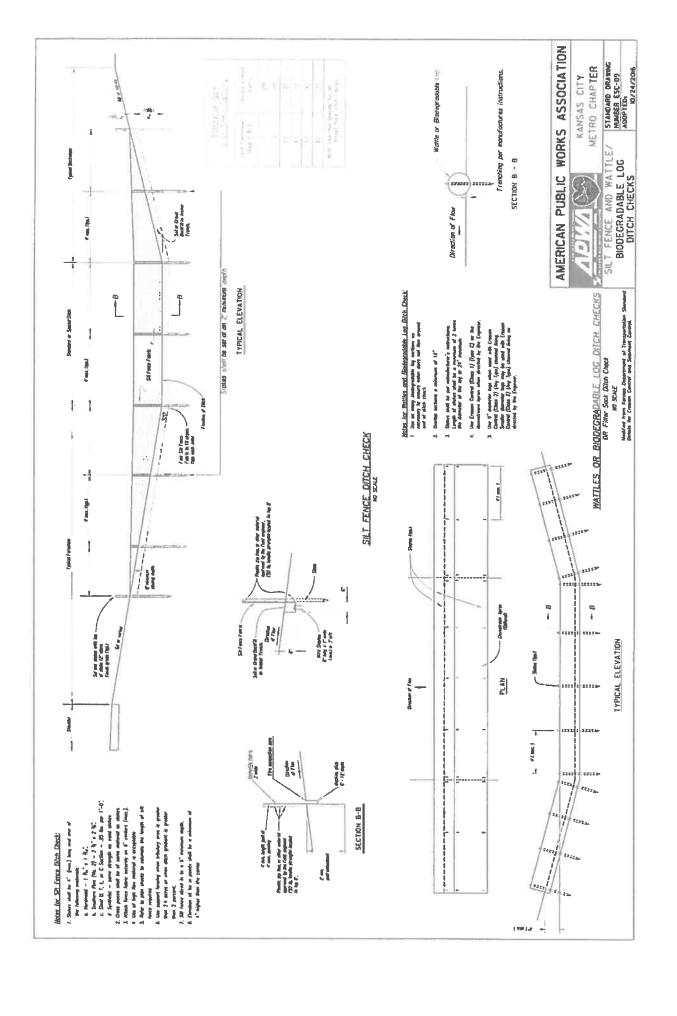


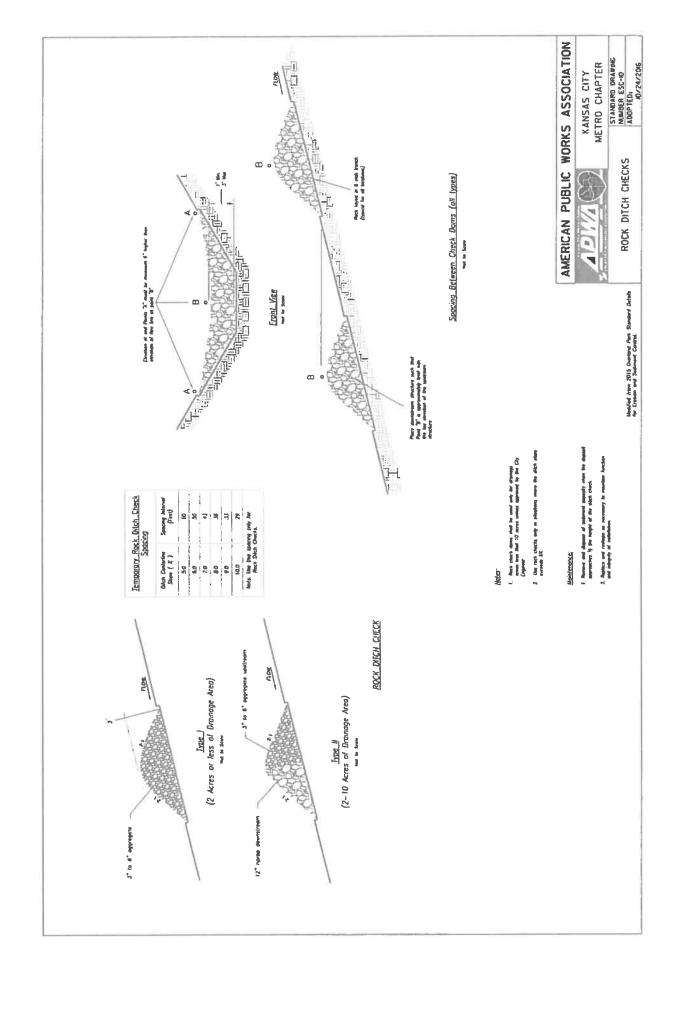


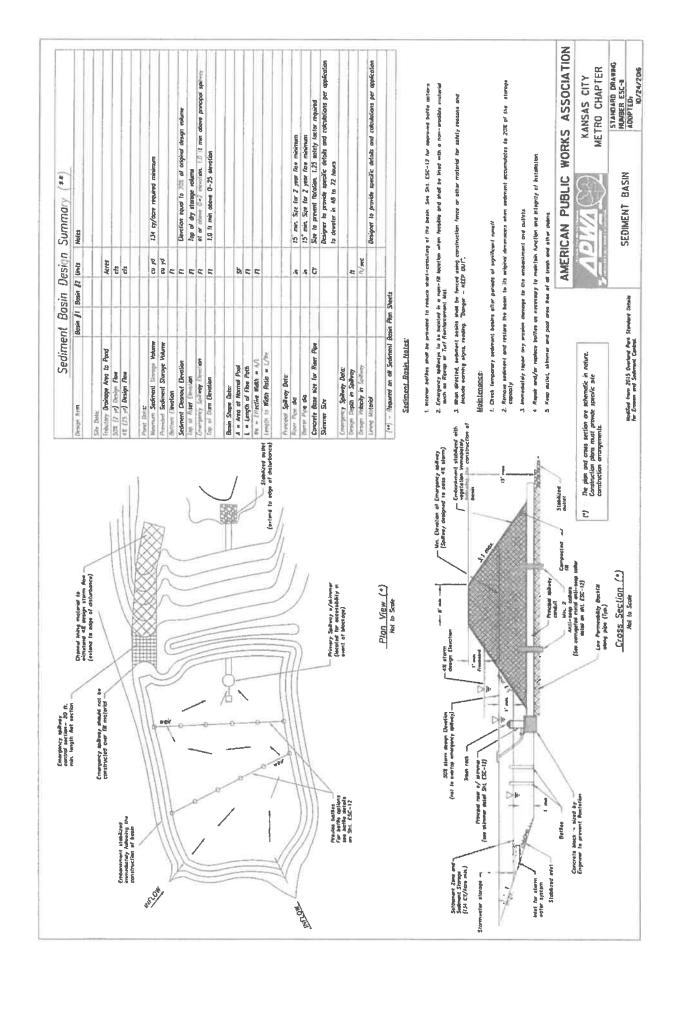


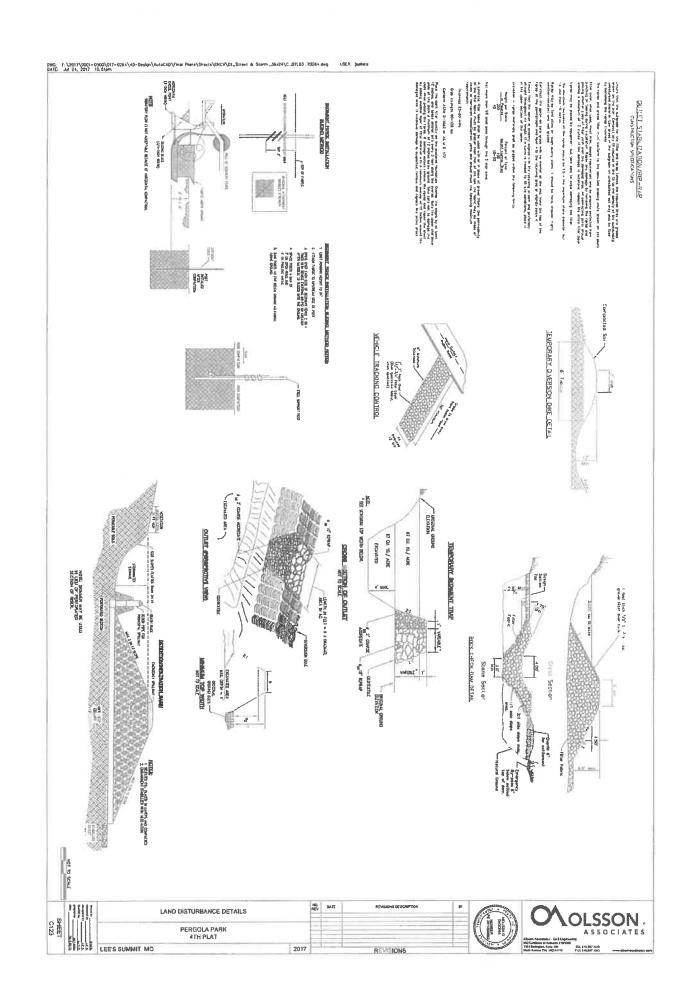












Appendix K

Stabilization Specifications