Stormwater Pollution Prevention Plan for:

The 808 At Skyline Ridge
808 & 820 At Skyline Ridge Drive
Madison, TN 37115

Owner:

Company: LDG Development
Contact: Chris Dischinger
Address: 1469 South 4th Street
City, State, Zip: Louisville, KY, 40208
Phone: 502-639-0534
Email: eholladay@ldgdevelopment.com

Contractor:

Company: Xpert Design & Construction, LLC
Contact: Chris Dischinger
Address: 1469 South 4th Street
City, State, Zip: Louisville, KY, 40208
Phone: 502-638-0534
Email: eholladay@ldgdevelopment.com

SWPPP Preparation Date:

8/13/2019

Estimated Project Dates:
Project Start Date: November 2019
Project Completion Date: April 2021

Contents

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Project/Site Name: The 808 At Skyline Ridge

Project Street/Location: 808 & 820 Skyline Ridge Dr.

City: Madison State: TN ZIP Code: 37115

County or Similar Subdivision: Davidson

Latitude/Longitude (Use **one** of three possible formats, and specify method)

Latitude: 36.24888 N

Longitude: 86.74768 W

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale: _____) ☐ EPA 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 applicable." N/A

Is this project considered a federal facility? ☐ Yes ☒ No

NPDES project or permit tracking number*: _____

**(This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (NPDES) construction general permit.)*

1.2 Contact Information/Responsible Parties

Company: LDG Development
Contact: Chris Dischinger
Address: 1469 South 4th Street
City, State, Zip: Louisville, KY, 40208
Phone: (502) 638-0534
Email: eholladay@ldgdevelopment.com

Company:
Contact:
Address:
City, State, Zip:
Phone:
Email:

Emergency 24-Hour Contact:

Company: _____
Contact: _____
Phone: _____

This SWPPP was Prepared by:

Company: Catalyst Design Group
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Subcontractor:

Company: _____
Contact: _____
Address: _____
City, State, Zip Code: _____
Phone: _____
Email: _____

Subcontractor:

Company: _____
Contact: _____
Address: _____
City, State, Zip Code: _____
Phone: _____
Email: _____
Company: _____

1.3 Nature and Sequence of Construction Activity

Describe the general scope of the work for the project, major phases of construction, etc:

This project will consist of the construction of a 216-unit multifamily residential development with parking, and amenity spaces

What is the function of the construction activity?

☒ Residential ☐ Commercial ☐ Industrial ☐ Road Construction ☐ Linear Utility

☐ Other (please specify):

Estimated Project Start Date: November 2019

Estimated Project Completion Date: April 2021

1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):

According to the NRCS soils map, the site soils consist of Mimosa-Rock (rated B-type soils).

Slopes (describe current slopes and note any changes due to grading or fill activities):

The existing site is generally highest in elevation on the west side. Slopes across the site range from 5% to greater than 70%.

Drainage Patterns (describe current drainage patterns and note any changes dues to grading or fill activities):

Current drainage patterns convey runoff to three different outfalls located north, east and south on the site. Once runoff is across property lines, it empties in the North Fork Ewing Creek via unnamed drainage channels

Vegetation:

The site is currently covered with mostly forest, with limited open grassy space. A small portion of the site contains a residential home, yard and outbuilding(s).

Other:

1.5 Construction Site Estimates

The following are estimates of the construction site.

Total project area (onsite):	15.2 +/- acres
Construction site area to be disturbed (incl. offsite grading):	13.6+/- acres
Percentage impervious area before construction:	3.6 %
Curve Number before construction:	76
Percentage impervious area after construction:	35%
Curve Number after construction:	78.9

1.6 Receiving Waters

Description of receiving waters:

The receiving water for this site is an unnamed drainage channel that ultimately enters the North Fork Ewing Creek.

Description of storm sewer systems:

The stormwater runoff will be drained via sheet flow, shallow concentrated flow, and underground storm drain pipes to four bioretention areas. The two bioretention areas treating the stormwater draining to two north outfalls will also have detention ponds underneath them, which will discharge runoffs via controlled outlet structures across property line.

Description of impaired waters or waters subject to TMDLs:

North Fork Ewing Creek has been determined by TDEC to be impaired for siltation and habitat alteration.

Other:

There are no known wetlands on this site.

1.7 Site Features and Sensitive Areas to be Protected

Description of unique features that are to be preserved:
N/A
Describe measures to protect these features:
N/A

1.8 Potential Sources of Pollution

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing operations
- Grading and site excavation operations
- Vehicle tracking
- Topsoil stripping and stockpiling

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area – small fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste storage.
- Materials Storage Area – general building materials, solvents, adhesives, paving materials, paints, aggregates, trash, and so on.
- Concrete Washout Area

Trade Name Material	Stormwater Pollutants	Location
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Nitrogen, phosphorous	Newly seeded areas
Plaster	Calcium sulphate, calcium carbonate, sulfuric acid	Building construction
Cleaning solvents	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits
Asphalt	Oil, petroleum distillates	Streets and roofing
Concrete	Limestone, sand, pH, chromium	Curb and gutter, building construction
Glue, adhesives	Polymers, epoxies	Building construction
Paints	Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic	Building construction
Curing compounds	Naphtha	Curb and gutter
Wood preservatives	Stoddard solvent, petroleum distillates, arsenic, copper, chromium	Timber pads and building construction
Hydraulic oil/fluids	Mineral oil	Leaks or broken hoses from equipment
Gasoline	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment/staging area
Diesel Fuel	Petroleum distillate, oil & grease, naphthalene, xylenes	Secondary containment/staging area
Kerosene	Coal oil, petroleum distillates	Secondary containment/staging area
Antifreeze/coolant	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment
Sanitary toilets	Bacteria, parasites, and viruses	Staging area

1.9 Endangered Species Certification

Are endangered or threatened species and critical habitats on or near the project area?

☐ Yes ☒ No

If yes, describe the species and/or critical habitat:

NA

If yes, describe or refer to documentation that determines the likelihood of an impact on identified species and/or habitat and the steps taken to address that impact. (Note, if species are on or near your project site, EPA strongly recommends that the site operator work closely with the appropriate field office of the U.S. Fish and Wildlife Service or National Marine Fisheries Service. For concerns related to state or tribal listing of species, please contact a state or tribal official.)

NA

1.10 Historic Preservation

Are there any historic sites on or near the construction site?

☐ Yes ☒ No

If yes, describe or refer to documentation that determines the likelihood of an impact on this historic site and the steps taken to address that impact.

NA

1.11 Applicable Federal, Tribal, State or Local Programs

There are no known special or extra federal, tribal, state or local soil and erosion control and stormwater requirements that apply to this construction site.

1.12 Maps

The site maps and drawings are attachments to this SWPPP.

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

Construction Fencing

The site will be fenced to demarcate the construction area.

2.2 Phase Construction Activity

The proposed project is too small for phased grading to be practical. The areas of the site that will remain vegetated after construction will be graded first and stabilized immediately after grading activities are completed. All other areas of the construction site will be stabilized if site work is not planned for more than 14 days. To minimize potential erosion from the site, only areas necessary to construct the construction exit will be disturbed initially. This area will be cleared, grubbed, and graded and the above measures will be installed. This area will be stabilized immediately after construction but no later than 14 days after construction ceases. Graded areas will be stabilized immediately after construction but no later than 14 days after construction ceases.

2.3 Control Stormwater Flowing onto and through the Project

Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site and around any soil stockpiles, as noted on the EPSC plans. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced 4 to 6 feet apart and driven securely into the ground; a minimum of 18 to 20 inches deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent stormwater and sediment from discharging underneath the silt fence. Where the installation of silt fences is not practical, sediment tubes should be used (see above).	
Installation Schedule:	The silt fences will be installed before construction begins at the site and around topsoil stockpiles once they have been established.
Maintenance and Inspection:	Silt fences will be inspected twice-weekly and immediately after storm events to ensure it is intact and that there are no gaps where the fence meets the ground or tears along the

	length of the fence. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled off-site for disposal at the landfill. If accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed. The anticipated life span of the silt fence is 6 months and will likely need to be replaced after this period.
Responsible Staff:	Contractor

Temporary Siltation Eels

BMP Description: Siltation eels will be installed where silt fence is not practical. Installation is accomplished by placing siltation eels along the line of proposed installation. Sand bags are then to be placed on top of the siltation eels at 10' intervals.	
Installation Schedule:	The siltation eels will be installed before construction begins at the site and around topsoil stockpiles once they have been established.
Maintenance and Inspection:	Siltation eels will be inspected twice-weekly and immediately after storm events to ensure it is intact and that there are no tears along the length of the eel. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the eel base if it reaches one-third the height of the eel and hauled off-site for disposal at the landfill. If accumulated sediment is creating noticeable strain on the fabric and the eel might fail from a sudden storm event, the sediment will be removed more frequently. Before the eel is removed from the project area, the sediment will be removed. The anticipated life span of the siltation eel is 6-12 months and will likely need to be replaced after this period.
Responsible Staff:	Contractor

2.4 Stabilize Soils

Temporary Stabilization

BMP Description: Temporary seeding will provide immediate protection to exposed soils where construction will cease for more than 14 days before construction activities are resumed. Straw mulch will cover the seeded areas.	
☐ ***Permanent***	☒ ***Temporary***
Installation Schedule:	Portions of the site where construction activities will temporarily cease for more than 14 days will be stabilized with mulch.
Maintenance and Inspection:	Seeded areas will be inspected weekly and after storm events to check for movement of mulch or erosion. If washout, breakage, or erosion occurs, the surface will be repaired, and new seeding will be applied to the damaged area.
Responsible Staff:	Contractor

Permanent Stabilization

BMP Description: Permanent stabilization will be done immediately after the final design grades are achieved but no later than 14 days after construction ceases. Native species of plants will be used to establish vegetative cover on exposed soils. Permanent stabilization will be completed in accordance with the final stabilization procedures in Section 7.	
☒ ***Permanent***	☐ ***Temporary***
Installation Schedule:	Portions of the site where construction activities have permanently ceased will be stabilized, as soon as possible but no later than 14 days after construction ceases.
Maintenance and Inspection:	All seeded areas will be inspected weekly during construction activities for failure and after storm events until a dense cover of vegetation has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized, and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final stabilization is reached.
Responsible Staff:	Contractor

Dust Control

BMP Description: If necessary, dust from the site will be controlled by using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate of 300 gallons per acre and minimized as necessary to prevent runoff and ponding.

☐ *Permanent*	☒ *Temporary*
Installation Schedule:	Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water will be performed no more than three times a day during the months of May–September and once per day during the months of October–April or whenever the dryness of the soil warrants it.
Maintenance and Inspection:	At least one mobile unit will be available at all times to distribute potable water to control dust on the project area. Each mobile unit will be equipped with a positive shutoff valve to prevent over watering of the disturbed area. For vehicle and equipment maintenance practices, see Section 3, Part 3.4.
Responsible Staff:	Contractor

2.5 Protect Slopes

Erosion Control Matting

BMP Description: Erosion control matting will be installed on any slopes equal to or exceeding 3:1. Permanent matting will be required for slopes over 3:1. Installation of the matting consists of unrolling strips of matting as outlined in the manufacturer's specifications and securing them to the ground with staples. Installation patterns, staple locations, and maintenance tasks will be outlined by the manufacturer.	
Installation Schedule:	Erosion control matting will be installed toward the end of construction, when the site is largely stabilized, or when steep slopes are completely graded. Other installation times/schedules shall be as noted on the EPSC plans.
Maintenance and Inspection:	Maintenance and inspection tasks will be as outlined in the manufacturer's specifications.
Responsible Staff:	Contractor

2.6 Protect Storm Drain Inlets

Storm Drain Inlet Protection

BMP Description: Inlets will be protected from sediment by using sediment tube, silt fence, or sandbag barriers at the discretion of the contractor.

For silt fence, place 2" x 2" wooden stakes around the perimeter of the inlet a maximum of 3'

apart and drive them at least 8" into the ground. The stakes must be at least 3' long. Excavate a trench approximately 8" wide and 12" deep around the outside perimeter of the stakes. Staple the filter fabric to wooden stakes so that 32" of the fabric extends out and can be formed into the trench. Use heavy-duty wire staples at least l" in length. Backfill the trench with ¾" or less washed gravel all the way around.

Sediment tubes will be installed by laying them flat on the ground and staking them on the downstream side at a spacing per manufacturer's recommendation. All rocks, vegetation, or any debris shall be removed prior to installation so that the tube makes direct contact with the ground. When sediments tubes are placed directly on paved surfaces, the tube shall be placed flat on the ground, with sand bags placed directly on top of the tube to prevent movement and provide stabilization. Sand bags shall be placed perpendicular to the run, and at a spacing of not less than 8 feet.

☐ ***Permanent***	☒ ***Temporary***
Installation Schedule:	The inlet protection will be installed on the existing inlets before construction begins.
Maintenance and Inspection:	Replace or clean clogged filter fabric immediately. Make sure the fabric doesn't have any holes or tears. Remove sediment when depth exceeds one-third the height of the fabric. Inspect all inlet and catch basin protection devices twice-weekly, before and after every rainfall event. During extended rainfall events, inspect inlet protection devices at least once every 24 hours. Inspect the storm drain inlet or other infrastructure downstream after severe storms in the rainy season to check for bypassed material. Remove all inlet protection devices within thirty days after the site is stabilized, or when the inlet protection is no longer needed. Bring the disturbed area to final grade and smooth and compact it. Appropriately stabilize all bare areas around the inlet. Clean around and inside the storm drain inlet as it must be free of sediment and debris at the time of final inspection.
Responsible Staff:	Contractor

2.7 Establish Perimeter Controls and Sediment Barriers

Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site and around any soil stockpiles, as noted on the EPSC plans. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced 4 to 6 feet apart and driven securely into the ground; a minimum of 18 to 20 inches deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent

stormwater and sediment from discharging underneath the silt fence. Where the installation of silt fences is not practical, sediment tubes should be used (see above).	
Installation Schedule:	The silt fences will be installed before construction begins at the site and around topsoil stockpiles once they have been established.
Maintenance and Inspection:	Silt fences will be inspected twice-weekly and immediately after storm events to ensure it is intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled off-site for disposal at the landfill. If accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed. The anticipated life span of the silt fence is 6 months and will likely need to be replaced after this period.
Responsible Staff:	Contractor

Temporary Siltation Eels

BMP Description: Siltation eels will be installed where silt fence is not practical. Installation is accomplished by placing siltation eels along the line of proposed installation. Sand bags are then to be placed on top of the siltation eels at 10' intervals.	
Installation Schedule:	The siltation eels will be installed before construction begins at the site and around topsoil stockpiles once they have been established.
Maintenance and Inspection:	Siltation eels will be inspected twice-weekly and immediately after storm events to ensure it is intact and that there are no tears along the length of the eel. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the eel base if it reaches one-third the height of the eel and hauled off-site for disposal at the landfill. If accumulated sediment is creating noticeable strain on the fabric and the eel might fail from a sudden storm event, the sediment will be removed more frequently. Before the eel is removed from the project area, the sediment will be removed. The anticipated life span of the siltation eel is 6-12 months and will likely need to be replaced after this period.
Responsible Staff:	Contractor

2.8 Retain Sediment On-Site

Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site and around any soil stockpiles, as noted on the EPSC plans. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced 4 to 6 feet apart and driven securely into the ground; a minimum of 18 to 20 inches deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent stormwater and sediment from discharging underneath the silt fence. Where the installation of silt fences is not practical, sediment tubes should be used (see above).	
Installation Schedule:	The silt fences will be installed before construction begins at the site and around topsoil stockpiles once they have been established.
Maintenance and Inspection:	Silt fences will be inspected twice-weekly and immediately after storm events to ensure it is intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled off-site for disposal at the landfill. If accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed. The anticipated life span of the silt fence is 6 months and will likely need to be replaced after this period.
Responsible Staff:	Contractor

Temporary Siltation Eels

BMP Description: Siltation eels will be installed where silt fence is not practical. Installation is accomplished by placing siltation eels along the line of proposed installation. Sand bags are then to be placed on top of the siltation eels at 10’ intervals.	
Installation Schedule:	The siltation eels will be installed before construction begins at the site and around topsoil stockpiles once they

	have been established.
Maintenance and Inspection:	Siltation eels will be inspected twice-weekly and immediately after storm events to ensure it is intact and that there are no tears along the length of the eel. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the eel base if it reaches one-third the height of the eel and hauled off-site for disposal at the landfill. If accumulated sediment is creating noticeable strain on the fabric and the eel might fail from a sudden storm event, the sediment will be removed more frequently. Before the eel is removed from the project area, the sediment will be removed. The anticipated life span of the siltation eel is 6-12 months and will likely need to be replaced after this period.
Responsible Staff:	Contractor

2.9 Establish Stabilized Construction Exits

Stabilized Construction Exits

BMP Description: Anti-tracking pads consisting of stone will be installed, as identified on the site map, to prevent the off-site transport of sediment by construction vehicles. The anti-tracking pads will be at least 50 feet long, a minimum of 10 feet wide, flared at the end closest to the paved road, and will consist of a 6-inch-thick layer of crushed stone (2 inches in diameter). The crushed stone will be placed over a layer of geotextile filter fabric to reduce the mitigation of sediment from the underlying soil.	
Installation Schedule:	The stabilized exit will be installed before construction begins on the site. The stone will remain in place until the subgrade of pavement is installed at the site. The anti-tracking pads will be placed on the pavement and will remain until all areas of the site have been stabilized.
Maintenance and Inspection:	The exit will be inspected weekly and after storm events or heavy use. The exit will be maintained in a condition that will prevent tracking or flowing of sediment onto the roadway. This could require adding additional crushed stone to the exit. All sediment tracked, spilled, dropped, or washed onto surrounding roads will be swept up immediately and hauled off-site for disposal at the landfill. Sediment will be swept from the anti-tracking pad at least weekly, or more often if necessary. If excess sediment has clogged the pad, the exit will be topdressed with new crushed stone. Replacement of the entire pad might be necessary when the pad becomes completely filled with sediment. The pad will be reshaped as needed for drainage and runoff control. Broken road

	pavement as a result of construction activities on roadways immediately adjacent to the project site will be repaired immediately. The stone anti-tracking pad will be removed before the subgrade of pavement is applied to the parking lot. The removed stone and sediment from the pad will be hauled off-site and disposed of at the landfill.
Responsible Staff:	Contractor

2.10 Additional BMPs

Street Sweeping

BMP Description: If necessary, street sweeping will be performed on surrounding roads to remove sediments and other contaminants directly from the paved surfaces.	
Installation Schedule:	Street sweeping will occur as necessary and if necessary, before forecasted storm events.
Maintenance and Inspection:	All materials collected during street sweeping will be disposed of at an off-site location by the subcontractor.
Responsible Staff:	Contractor

SECTION 3: GOOD HOUSEKEEPING BMPS

3.1 Material Handling and Waste Management

Waste Materials

BMP Description: All waste materials will be collected and disposed of into trash dumpsters in the materials storage area. Dumpsters will have a secure watertight lid, be placed away from stormwater conveyances and drains, and meet all federal, state, and municipal regulations. Only trash and construction debris from the site will be deposited in the dumpster. No construction materials will be buried on-site. All personnel will be instructed, during tailgate training sessions, regarding the correct disposal of trash and construction debris. Notices that state these practices will be posted in the office trailer and the individual who manages day-to-day site operations will be responsible for seeing that these practices are followed.	
Installation Schedule:	Trash dumpsters will be installed once the materials storage area has been established.
Maintenance and Inspection:	The dumpsters will be inspected weekly and immediately after storm events. The dumpster will be emptied weekly and taken to the landfill. If trash and construction debris are exceeding the dumpster's capacity, the dumpsters will be emptied more frequently.
Responsible Staff:	Contractor

Hazardous Waste Materials

BMP Description: All hazardous waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed shipping containers, within the hazardous materials storage area. Hazardous waste materials will be stored in appropriate and clearly marked containers and segregated from other non-waste materials. Secondary containment will be provided for all waste materials in the hazardous materials storage area and will consist of commercially available spill pallets. Additionally, all hazardous waste materials will be disposed of in accordance with federal, state, and municipal regulations. Hazardous waste materials will not be disposed of into the on-site dumpsters. All personnel will be instructed, during tailgate training sessions, regarding proper procedures for hazardous waste disposal. Notices that state these procedures will be posted in the office trailer and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.	
Installation Schedule:	Shipping containers used to store hazardous waste materials will be installed once the site materials storage area has been installed.
Maintenance and Inspection:	The hazardous waste material storage areas will be inspected weekly and after storm events. The storage areas will be kept clean, well organized, and equipped with ample cleanup supplies

	as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer.
Responsible Staff:	Contractor

Recycling

BMP Description: If recycling is used, wood pallets, cardboard boxes, and other recyclable construction scraps will need to be disposed of in a designated dumpster for recycling. The dumpster will have a secure watertight lid, be placed away from stormwater conveyances and drains and meet all local and state solid-waste management regulations. Only solid recyclable construction scraps from the site will be deposited in the dumpster. All personnel will be instructed, during tailgate training sessions, regarding the correct procedure for disposal of recyclable construction scraps. Notices that state these procedures will be posted in the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.	
Installation Schedule:	If used, designated recycling dumpsters will be installed once the combined staging area has been established.
Maintenance and Inspection:	The recycling dumpster will be inspected weekly and immediately after storm events. The recycling dumpster will be emptied weekly and taken to an approved recycling center by Ways Waste and Sanitary Services. If recyclable construction wastes are exceeding the dumpster's capacity, the dumpsters will be emptied more frequently.
Responsible Staff:	Contractor

3.2 Establish Proper Building Material Staging Areas

Materials Storage Area

BMP Description: Construction equipment and maintenance materials will be stored at the combined staging area and materials storage areas. Gravel bag berms will be installed around the perimeter to designate the staging and materials storage area. A watertight shipping container will be used to store hand tools, small parts, and other construction materials.

Nonhazardous building materials such as packaging material (wood, plastic, and glass), and construction scrap material (brick, wood, steel, metal scraps, and pipe cuttings) will be stored in a separate covered storage facility adjacent to the shipping container. All hazardous-waste materials such as oil filters, petroleum products, plaint, and equipment maintenance fluids will be stored in structurally sound and sealed containers under cover within the hazardous materials storage area.

Very large items, such as framing materials and stockpiled lumber, will be stored in the open in the materials storage area. Such materials will be elevated on wood blocks to minimize contact

with runoff.	
Installation Schedule:	The materials storage area will be installed after grading and before any infrastructure is constructed at the site.
Maintenance and Inspection:	The storage area will be inspected weekly and after storm events. The storage area will be kept clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners will be repaired or replaced as needed to maintain proper function.
Responsible Staff:	Contractor

3.3 Designate Washout Areas

Concrete Washout

BMP Description: A designated temporary, above-grade concrete washout area will be constructed. The temporary concrete washout area will be constructed as shown in Figure 5, with a recommended minimum length and minimum width of 10 feet, but with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. The washout area will be lined with plastic sheeting at least 10 mils thick and free of any holes or tears. Signs will be posted marking the location of the washout area to ensure that the concrete equipment operators use the proper facility.

Concrete pours will be conducted during or before an anticipated storm event. Concrete mixer trucks and chutes will be washed in the designated area or concrete wastes will be properly disposed of off-site. When the temporary washout area is no longer needed for the construction project, the hardened concrete and materials used to construct the area will be removed and disposed of according to the maintenance section below, and the area will be stabilized.

Installation Schedule:	The washout area will be constructed before concrete pours occur at the site.
Maintenance and Inspection:	The washout areas will be inspected daily to ensure that all concrete washing is being discharged into the washout area, no leaks or tears are present, and to identify when concrete wastes need to be removed. The washout areas will be cleaned out once the area is filled to 75 percent of the holding capacity. Once the area's holding capacity has been reached, the concrete wastes will be allowed to harden; the concrete will be broken up, removed, and taken to the landfill for disposal. The plastic sheeting will be replaced if tears occur during removal of concrete wastes from the washout area.
Responsible Staff:	Contractor

3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

Vehicle/Equipment Fueling and Maintenance

BMP Description: Several types of vehicles and equipment will be used on-site throughout the project, including graders, scrapers, excavators, loaders, paving equipment, rollers, trucks and trailers, backhoes, and forklifts. All major equipment/vehicle fueling and maintenance will be performed off-site. If vehicle fueling must occur on-site, the fueling activity will occur in the staging area. Only minor equipment maintenance will occur on-site. All equipment fluids generated from maintenance activities will be disposed of into designated drums stored on spill pallets in accordance with Part 3.1. Absorbent, spill-cleanup materials and spill kits will be available at the combined staging and materials storage area. Drip pans will be placed under all equipment receiving maintenance and vehicles and equipment parked overnight.	
Installation Schedule:	BMPs implemented for equipment and vehicle maintenance and fueling activities will begin at the start of the project.
Maintenance and Inspection:	Inspect equipment/vehicle storage areas and fuel tank weekly and after storm events. Vehicles and equipment will be inspected on each day of use. Leaks will be repaired immediately, or the problem vehicle(s) or equipment will be removed from the project site. Keep ample supply of spill-cleanup materials on-site and immediately clean up spills and dispose of materials properly.
Responsible Staff:	Contractor

3.5 Control Equipment/Vehicle Washing

BMP Description: All equipment and vehicle washing will be performed off-site.	
Installation Schedule:	N/A
Maintenance and Inspection:	N/A
Responsible Staff:	Contractor

3.6 Spill Prevention and Control Plan

Spill Prevention and Control Procedures

BMP Description:

- Employee Training: All employees will be trained via biweekly tailgate sessions, as detailed in Section 6, Part 6.3.
- Vehicle Maintenance: Vehicles and equipment will be maintained off-site. All vehicles and equipment including subcontractor vehicles will be checked for leaking oil and fluids. Vehicles leaking fluids will not be allowed on-site. Drip pans will be placed under all vehicles and equipment that are parked overnight.
- Hazardous Material Storage: Hazardous materials will be stored in accordance with Section 3, Part 1 and federal and municipal regulations.
- Spill Kits: Spill kits will be within the materials storage area and concrete washout areas.
- Spills: All spills will be cleaned up immediately upon discovery. Spent absorbent materials and rags will be hauled off-site immediately after the spill is cleaned up for disposal at the landfill. Spills large enough to discharge to surface water will be reported to the National Response Center at 1-800-424-8802.
- Material safety data sheets, a material inventory, and emergency contact information will be maintained at the on-site project trailer.

Installation Schedule:	The spill prevention and control procedures will be implemented once construction begins on-site.
Maintenance and Inspection:	All personnel will be instructed, during tailgate training sessions, regarding the correct procedures for spill prevention and control. Notices that state these practices will be posted in the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.
Responsible Staff:	Contractor

3.7 Any Additional BMPs

BMP Description: No Additional BMPs were identified.	
Installation Schedule:	N/A
Maintenance and Inspection:	N/A
Responsible Staff:	Contractor

3.8 Allowable Non-Stormwater Discharge Management

If any changes in construction activities that produce other allowable non-stormwater discharges are identified, the SWPPP will be amended and the appropriate erosion and sediment control will be implemented.

Water Used to Control Dust

BMP Description: Dust control will be implemented as needed once site grading has begun and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water at a rate of 300 gallons per acre or less will be performed by a mobile pressure-type distributor truck no more than three times a day during the months of May–September and once per day during the months of October–April or whenever the dryness of the soil warrants it.	
Responsible Staff:	Contractor

Landscape Irrigation

BMP Description: Irrigation waters will not be sprayed onto impermeable surfaces such as paved driveways and roads. Waters will be directed onto soil and lawns by using hoses and correctly sized sprinklers with adjustable spray patterns. To avoid discharges of irrigation waters, the sprinklers will have low-flow rates and increased watering time. The irrigated area will be inspected for excess watering and to adjust watering times and schedules.	
Responsible Staff:	Contractor

SECTION 4: SELECTING POST-CONSTRUCTION BMPs

Mulching and Seeding

All areas disturbed by construction shall be stabilized with mulching and seeding immediately following finish grading. Seeded areas will be fertilized and mulched.

SECTION 5: INSPECTIONS / SITE ASSESSMENT

5.1 Inspections

1. Inspection Personnel:

Contractor's Designated Inspector: _____

Years of Experience: _____

Education: _____

_____

Training: _____

_____

_____

2. Inspection Personnel Qualifications:

Inspectors performing the required twice weekly inspections must have an active certification by completing the "Fundamentals of Erosion Prevention and Sediment Control Level I" course. A copy of the certification or training record for inspector certification should be kept on site.

3. Inspection Schedule and Procedures:

a) Inspections described in paragraphs b, c and d below, shall be performed at least twice every calendar week. Inspections shall be performed at least 72 hours apart. Where sites or portion(s) of construction sites have been temporarily stabilized, or runoff is unlikely due to winter conditions (e.g., site covered with snow or ice) or due to extreme drought, such inspection only has to be conducted once per month until thawing or precipitation results in runoff or construction activity resumes. Inspection requirements do not apply to definable areas that have been finally stabilized. Written notification of the intent to change the inspection frequency and the justification for such request must be submitted to the local Environmental Field Office, or the division's Nashville Central Office for projects of the Tennessee Department of Transportation (TDOT) and the Tennessee Valley Authority (TVA). Should TDEC discover that monthly inspections of the site are not appropriate due to insufficient stabilization measures or otherwise, twice weekly inspections shall resume. TDEC may inspect the site to confirm or deny the notification to conduct monthly inspections.

b) Qualified personnel, as defined above (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been finally

stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, locations where vehicles enter or exit the site, and each outfall.

c) Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the site's drainage system. Erosion prevention and sediment control measures shall be observed to ensure that they are operating correctly.

d) Outfall points (where discharges leave the site and/or enter waters of the state) shall be inspected to determine whether erosion prevention and sediment control measures are effective in preventing significant impacts to receiving waters. Where discharge locations are inaccessible, nearby downstream locations shall be inspected. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

e) Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event, but in no case more than 7 days after the need is identified.

f) Based on the results of the inspection, the site description and pollution prevention measures identified in this SWPPP shall be revised as appropriate, but in no case later than 7 days following the inspection. Such modifications shall provide for timely implementation of any changes to the SWPPP, but in no case later than 14 days following the inspection.

g) All inspections shall be documented on the Construction Stormwater Inspection Certification form provided in Appendix D of this SWPPP for all construction sites. Inspection documentation will be maintained on site and made available to TDEC upon request. Inspection reports must be submitted to TDEC within 10 days of the request. If TDEC requests the Construction Stormwater Inspection Certification form to be submitted, the submitted form must contain the printed name and signature of the trained certified inspector and the person who meets the signatory requirements of section 7.7.2 of the NPDES General Permit.

h) Trained certified inspectors shall complete inspection documentation to the best of their ability. Falsifying inspection records or other documentation or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.

i) Subsequent operator(s) (primary permittees) who have obtained coverage under the NPDES General Permit should conduct twice weekly inspections, unless their portion(s) of the site has been temporarily stabilized, or runoff is unlikely due to winter conditions or due to extreme drought as stated in paragraph a) above. The primary permittee (such as a developer) is no longer required to conduct inspections of portions of the site that are covered by a subsequent primary permittee (such as a home builder).

For a copy of the inspection report, see Appendix D of this SWPPP.

5.2 Site Assessment

1. ***Site Assessment Personnel:***

Contractor's Designated Inspector: _____

Years of Experience: _____

Education: _____

_____

Training: _____

_____

_____

2. ***Site Assessment Personnel Qualifications:***

The site assessment shall be performed by individuals with the following qualifications:

- a licensed professional engineer or landscape architect;
- a Certified Professional in Erosion and Sediment Control (CPESC) or
- a person that successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

3. ***Site Assessment Schedule and Procedures:***

Quality assurance of erosion prevention and sediment controls shall be done by performing site assessment at a construction site. The site assessment shall be conducted at each outfall involving drainage totaling 10 or more acres or 5 or more acres if draining to an impaired or exceptional quality waters, within a month of construction commencing at each portion of the site that drains the qualifying acreage of such portion of the site.

As a minimum, site assessment should be performed to verify the installation, functionality and performance of the EPSC measures described in the SWPPP. The site assessment should be performed with the inspector, and should include a review and update (if applicable) of the SWPPP. Modifications of plans and specifications for any building or structure, including the design of sediment basins or other sediment controls involving structural, hydraulic, hydrologic or other engineering calculations shall be prepared by a licensed professional engineer or landscape architect and stamped and certified in accordance with the Tennessee Code Annotated, Title 62, Chapter 2 and the rules of the Tennessee Board of Architectural and Engineering Examiners.

The site assessment findings shall be documented and the documentation kept with the SWPPP at the site. At a minimum, the documentation shall include information included in the inspection form provided in Appendix D of this SWPPP. The documentation must contain the printed name and signature of the individual performing the site assessment and the following certification:

"I certify under penalty of law that this report and all attachments are, 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."

The site assessment can take the place of one of the twice weekly inspections requirement.

TDEC may require additional site assessment(s) to be performed if site inspection by TDEC's personnel reveals site conditions that have potential of causing pollution to the waters of the state.

For a copy of the inspection report, see Appendix D of this SWPPP.

5.3 Delegation of Authority

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

Contractor: _____
Name: _____
Position Title: Erosion Control Specialist
Address: _____
City, State, Zip: _____
Number: _____
Fax: _____
Email: _____

See Appendix J – Delegation of Authority

5.4 Corrective Action Log

Corrective Action Log:

See Appendix E – Corrective Action Log

SECTION 6: RECORDKEEPING AND TRAINING

6.1 Recordkeeping

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

Date(s) when major grading activities occur:

See Appendix H – Grading and Stabilization Activities Log

Date(s) when construction activities temporarily or permanently cease on a portion of the site:

See Appendix H – Grading and Stabilization Activities Log

Date(s) when an area is either temporarily or permanently stabilized:

See Appendix H – Grading and Stabilization Activities Log

6.2 Log of Changes to the SWPPP

Log of changes and updates to the SWPPP

See Appendix F – SWPPP Amendment Log

6.3 Training

Individual(s) Responsible for Training:

Name:

_____

Training Sessions:

- General stormwater and BMP awareness training for staff and subcontractors:

The erosion control specialist will conduct informal training for all staff, including subcontractors, on the site. The training will be conducted primarily via tailgate sessions and will focus on avoiding damage to stormwater BMPs and preventing illicit discharges. The tailgate sessions will be conducted biweekly and will address the following topics: Erosion Control BMPs, Sediment Control BMPs, Non-Stormwater BMPs, Waste

Management and Materials Storage BMPs, and Emergency Procedures specific to the construction site. (See Appendix I – SWPPP Training Log)

- Detailed training for staff and subcontractors with specific stormwater responsibilities:

The erosion control specialist will provide formal training to all staff and subcontractors with specific stormwater responsibilities, such as installing and maintaining BMPs. The formal training will cover all design and construction specifications for installing the BMPs and proper procedures for maintaining each BMP. Formal training will occur before any BMPs are installed on the site. (See Appendix I – SWPPP Training Log)

SECTION 7: FINAL STABILIZATION

Mulching and Seeding

All areas disturbed by construction shall be stabilized with mulching and seeding immediately following finish grading. Seeded areas will be fertilized and mulched.

SECTION 8: CERTIFICATION AND NOTIFICATION

Owner:

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.

Name: Chris Dischinger Title: Manager

Signature: _____ Date: 7-16-19

Contractor:

I certify under penalty of law that I have reviewed this document, any attachments and the SWPPP reference above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permit requirements.

Name: _____ Title: _____

Signature: _____ Date: _____

Designer:

I certify that, to the best of my knowledge and belief, EPSC measures used at the site are designed to control storm runoff generated by a 5-year, 24-hour storm event.

Name: Andrew Wolthers, PE Title: Principal, Senior Project Manager

Signature:  Date: 08/13/2019

SWPPP APPENDICES

Attach the following documentation to the SWPPP:

Appendix A – General Location Map

Appendix B – Site Maps

Appendix C – NOI and NOC

Appendix D – Inspection Reports

Appendix E – Corrective Action Log

Appendix F – SWPPP Amendment Log

Appendix G – Subcontractor Certifications/Agreements

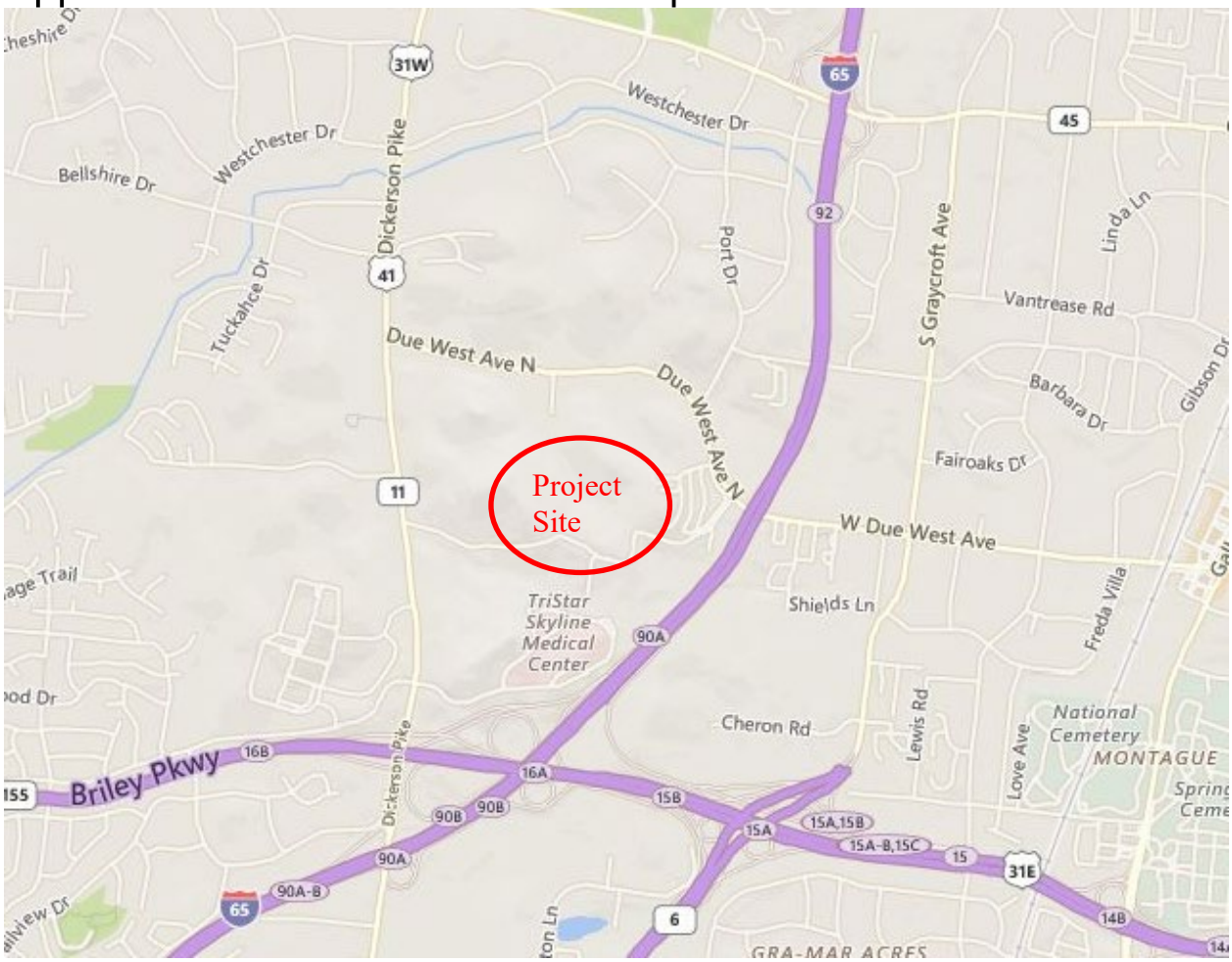
Appendix H – Grading and Stabilization Activities Log

Appendix I – Training Log

Appendix J – Delegation of Authority

Appendix K – Notice of Termination

Appendix A – General Location Map



Appendix B – Site Maps

Appendix C – NOI and NOC

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: The 808 At Skyline Ridge			***NPDES Tracking Number: TNR***
Street Address or Location: 808 & 820 Skyline Ridge Dr, Madison, TN, 37115			Construction Start Date: November 2019
			Estimated End Date: April 2021
Site Description: A Multifamily Residential Development			Latitude (dd.dddd): 36.2489
			Longitude (-dd.dddd): -86.7477
County(ies): Davidson	MS4 (if applicable): Metro Nashville		Acres Disturbed: 13.6
Check box if a SWPPP is attached : ☑	Check box if a site location map is attached: ☑		Total Acres: 15.2
Check the appropriate box(s) if there are streams and/or wetlands on or adjacent to the construction site:			Streams ☐ Wetlands ☐
Has a jurisdictional determination been made by the USACE or EPA identifying waters of the United States?: Yes ☑ No ☐ Note: if yes, attach the jurisdictional determination			
If an Aquatic Resource Alteration Permit (ARAP) has been obtained for this site, what is the permit number? NR(S)			
Receiving waters: North Fork Ewing Creek			

Site Owner/Developer (Primary Permittee): (Provide person, company, or entity that has operational or design control over construction plans and specifications): LDG Development			
For corporate entities only, provide correct Tennessee Secretary of State (SOS) Control Number: (an incorrect SOS control number may delay NOI processing)			
Site Owner or Developer Contact Name: (signs the certification below) Chris Dischinger		Title or Position:	
Mailing Address: 1469 South 4th Street		City: Louisville	State: KY Zip: 40208
Phone: (502) 639-0534	Fax: ( )	E-mail: eholladay@ldgdevelopment.com	

Optional Contact:		Title or Position:		
Mailing Address:		City:	State:	Zip:
Phone: ( )	Fax: ( )	E-mail:		

Owner/Developer(s) Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Owner/Developer Name (print/type): Chris Dischinger	Signature:	Date: 7-16-19
Owner/Developer Name (print/type):	Signature:	Date:

Contractor Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)

I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Contractor name, address, and SOS control number (if applicable): Xpert Design & Construction, LLC, 1469 South 4th Street, Louisvi	Signature:	Date: 7-16-19

OFFICIAL STATE USE ONLY

Received Date:	Reviewer:	Field Office:	Permit Tracking Number: TNR	Exceptional TN Water:
Fee(s):	T & E Aquatic Flora/Fauna:	SOS Corporate Status:	Waters with Unavailable Parameters:	Notice of Coverage Date:

CONSTRUCTION GENERAL PERMIT - NOTICE OF INTENT (NOI) - INSTRUCTIONS

A completed NOI must be submitted to obtain coverage under the CGP. **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant's claim of ability to be in compliance with permit terms and conditions.** CGP coverage is required for stormwater (SW) discharge(s) from construction activities including clearing, grading, filling and excavating (including borrow pits) of one or more acres of land. This form should be submitted at least 30 days prior to the commencement of land disturbing activities, or no later than 48 hours prior to when a new operator assumes operational control over site specifications or commences work at the site.

The application fee must accompany the NOI and is based on total acreage to be disturbed by an entire project, including any associated construction support activities (e.g., equipment staging yards, material storage areas, excavated material disposal areas, borrow or waste sites, etc.). A separate annual maintenance fee is also required for activities that exceed 1 year under CGP coverage. See TN Rules, Chapter 0400-40-11-.02(b)(12).

Acres Disturbed	= or > 150 acres	= or > 50 < 150 acres	= or > 20 < 50 acres	= or > 5 < 20 acres	= or > 1 < 5 acres	Subsequent coverage
Fee	$10,000	$6,000	$3,000	$1,000	$250	$100

Who must submit the NOI form? All site operators must submit an NOI form. "Operator" for the purpose of this permit and in the context of SW associated with construction activity means any person associated with a construction project who meets either or both of the following two criteria: (1) The person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically the owner or developer of the project or a portion of the project (e.g., subsequent builder), or the person that is the current land owner of the construction site, and is considered the primary permittee; or (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee, and is considered a secondary permittee.

Owners, developers and all contractors that meet the definition of the operator in subsection 2.2 of the permit shall apply for permit coverage on the same NOI, insofar as possible. After permit coverage has been granted to the initial site-wide primary permittee, any subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The comprehensive site-specific SWPPP shall be prepared in accordance with the requirements of part 3 of the permit and must be submitted with the NOI unless the NOI being submitted is to add a subsequent permittee to an existing coverage. **Artificial entities (e.g., corporations or partnerships) must submit the correct Tennessee Secretary of State, Division of Business Services, control number. General partnerships. For general partnerships, the NOI must be signed by each general partner in the general partnership.**

The NOI will be considered incomplete without a correct control number, and the division reserves the right to deny coverage to artificial entities that are not properly registered and in good standing with the Tennessee Secretary of State (i.e., listed with an entity status of "active"). The division further reserves the right to issue permit coverage in the correct legal name of the individual or entity seeking coverage and to name each general partner of a general partnership in addition to the general partnership.

Complete the form: Type or print clearly. Answer each item or enter "NA," for not applicable. If you need additional space, attach a separate piece of paper to the NOI form. **The NOI will be considered incomplete without a permit fee and comprehensive site-specific SWPPP (if applicable).**

Describe and locate the project: Use the legal or official name of the construction site. If a construction site lacks street name or route number, give the most accurate information available to describe the location (reference to adjacent highways, roads and structures; eg., intersection of state highways 70 and 100). Latitude and longitude (in decimal degrees) can be found at numerous other web sites. Attach a copy of a map, showing location of site, with boundaries at least one mile outside the site boundaries. Provide estimated starting date of clearing activities and completion date of the project, and an estimate of the number of acres of the site on which soil will be disturbed, including borrow areas, fill areas, stockpiles and the total acres. For linear projects, give location at each end of the construction area.

Name of the receiving waters: Trace the route of stormwater runoff from the site and determine the name of the water course(s) into which the runoff drains. Note that the water course may or may not be located on the construction site. If the first water body receiving construction site runoff is unnamed ("unnamed tributary"), determine the name of the waterbody that the unnamed tributary enters.

An ARAP may be required: **If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP).** If wetlands are located on-site and may be impacted, attach the wetland delineation report. If you have a question about the ARAP program, contact your local Field Office (EFO).

Submitting the form and obtaining more information: Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart 2.5. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the construction activity is located, addressed to **Attention: Stormwater NOI Processing**.

Notice of Coverage: The division will review NOIs for completeness and accuracy and issue an NOC to site-wide primary operators, authorizing SW discharge from the construction site as of the effective date of the NOC. New subsequent operators will not receive an NOC, but are considered covered under the permit when their permit record is published on TDEC's dataviewer as "active" and with an effective date. TDEC Permit Dataviewer can be found at: http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34001:0

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy, Suite 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

Appendix D – Inspection Reports

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)

Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

Construction Stormwater Inspection Certification (Twice-Weekly Inspections)

Site or Project Name:		**NPDES Tracking Number: TNR**
Primary Permittee Name:		Date of Inspection:
Current approximate disturbed acreage:	Has rainfall been checked/documented daily? ☐ Yes ☐ No	Name of Inspector:
Current weather conditions:		Inspector's Training Certification Number:

Please check the box if the following items are on-site:

☐ Notice of Coverage (NOC) ☐ Stormwater Pollution Prevention Plan (SWPPP) ☐ Twice-weekly inspection documentation

☐ Site contact information ☐ Rain Gage ☐ Off-site Reference Rain Gage Location: _____

Best Management Practices (BMPs):

Are the Erosion Prevention and Sediment Controls (EPSCs) functioning correctly: If "No," describe below in Comment Section			
1.	Are all applicable EPSCs installed and maintained per the SWPPP?	☐ Yes	☐ No
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas per section 4.1.5?	☐ Yes	☐ No
3.	Are EPSCs functioning correctly at outfall/discharge points such that there is no objectionable color contrast in the receiving stream, and no other water quality impacts per section 5.3.2?	☐ Yes	☐ No
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track out?	☐ Yes	☐ No
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls per section 4.1.4? If "No," describe below the measures to be implemented to address deficiencies.	☐ Yes	☐ No
6.	If construction activity at any location has temporarily/permanently ceased, was the area stabilized within 14 days per section 3.5.3.2? If "No," describe below each location and measures taken to stabilize the area(s)	☐ Yes	☐ No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters per section 4.1.5? If "No," describe below the measures to be implemented to address deficiencies.	☐ Yes	☐ No
8.	If a concrete washout facility is located on site, is it clearly identified on the project and maintained? If "No," describe below the measures to be implemented to address deficiencies. ☐ N/A	☐ Yes	☐ No
9.	Have all previous deficiencies been addressed? If "No," describe remaining deficiencies in Comment section. ☐ Check if deficiencies/corrective measures have been reported on a previous form.	☐ Yes	☐ No

Comment Section. If the answer is "No" for any of the above, please describe the problem and corrective actions to be taken. Otherwise, describe any pertinent observations:

Certification and Signature (must be signed by the certified inspector and the permittee per Sections 3.5.8.2 (g) and 7.7.2 of the CGP)

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Inspector Name and Title:	Signature:	Date:
Primary Permittee Name and Title:	Signature:	Date:

Appendix E – Corrective Action Log

Project Name:
SWPPP Contact:

Inspection Date	Inspector Name(s)	Description of BMP Deficiency	Corrective Action Needed (including planned date/responsible person)	Date Action Taken/Responsible person

Appendix F – SWPPP Amendment Log

Project Name:
SWPPP Contact:

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Appendix G – Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

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 for the above designated project and 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 H – Grading and Stabilization Activities Log

Project Name:
SWPPP Contact:

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

Appendix I – SWPPP Training Log

Stormwater Pollution Prevention Training Log

Project Name:

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

- ❑ **Erosion Control BMPs**
- ❑ **Emergency Procedures**
- ❑ **Sediment Control BMPs**
- ❑ **Good Housekeeping BMPs**
- ❑ **Non-Stormwater BMPs**

Specific Training Objective:_____

_____

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Appendix J – Delegation of Authority Form

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)
_____ (company)
_____ (address)
_____ (city, state, zip)
_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in _____ (Reference State Permit), and that the designee above meets the definition of a "duly authorized representative" as set forth in _____ (Reference State Permit).

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.

Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

Appendix K – Notice of Termination

When the site has been finally stabilized and all storm water discharges from construction activities that are authorized by the NOC are eliminated, the permittee must submit a signed Notice of Termination.

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-TDEC (8332)

Notice of Termination (NOT) for General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)

This form is required to be submitted when requesting termination of coverage from the CGP. The purpose of this form is to notify the TDEC that either all stormwater discharges associated with construction activity from the portion of the identified facility where you, as an operator, have ceased or have been eliminated; or you are no longer an operator at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local DWR Environmental Field Office (EFO) address (see table below). For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

Type or print clearly, using ink.

Site or Project Name:	**NPDES Tracking Number: TNR**
Street Address or Location:	County(ies):

Name of Permittee Requesting Termination of Coverage:			
Permittee Contact Name:	Title or Position:		
Mailing Address:	City:	State:	Zip:
Phone:	E-mail:		

Check the reason(s) for termination of permit coverage:

☐	Stormwater discharge associated with construction activity is no longer occurring and the permitted area has a uniform 70% permanent vegetative cover OR has equivalent measures such as rip rap or geotextiles, in areas not covered with impervious surfaces.
☐	You are no longer the operator at the construction site (i.e., termination of site-wide, primary or secondary permittee coverage).

Certification and Signature: (must be signed by president, vice-president or equivalent ranking elected official)

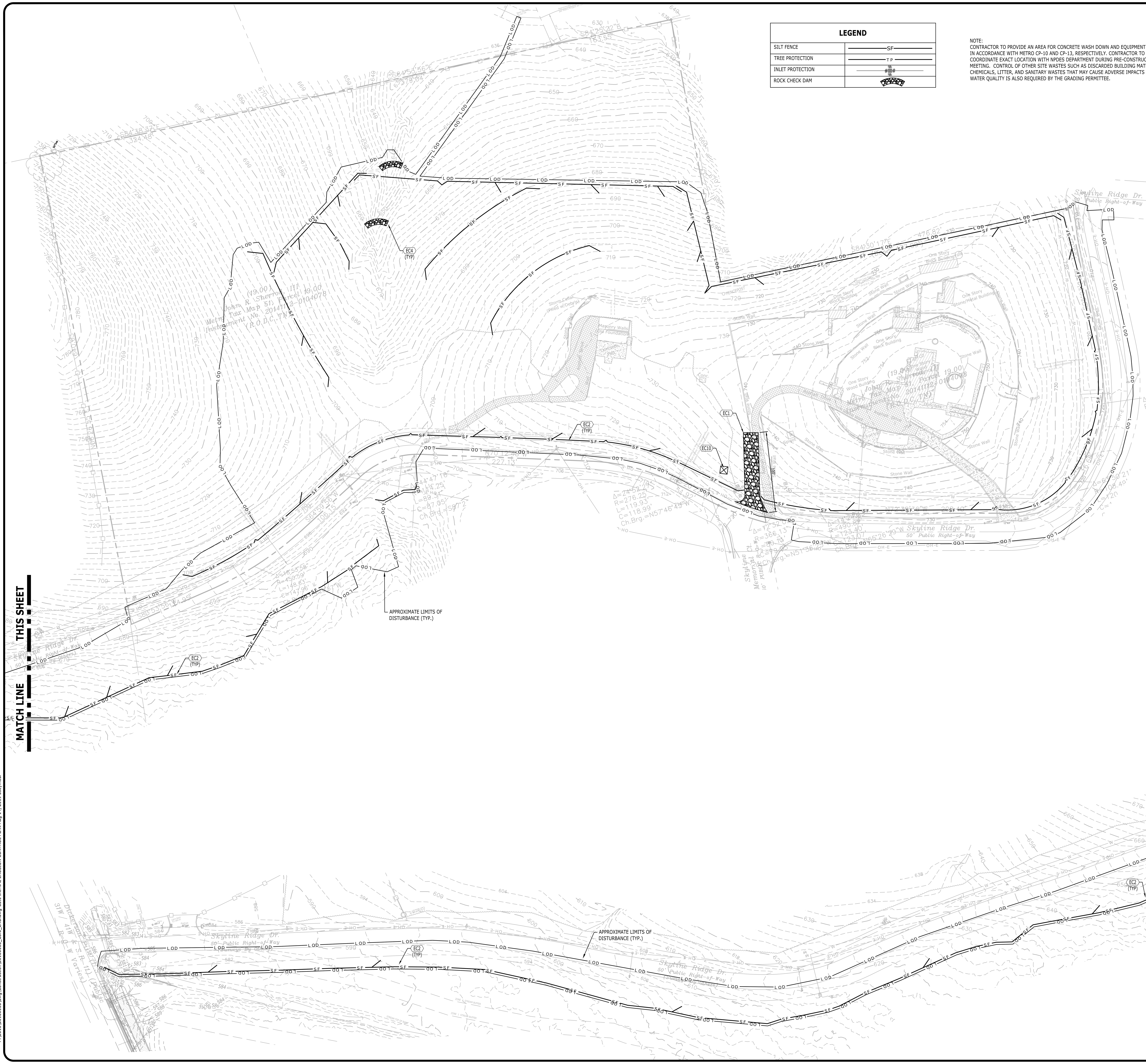
I certify under penalty of law that either: (a) all stormwater discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge stormwater associated with construction activity under this general permit, and that discharging pollutants in stormwater associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

For the purposes of this certification, elimination of stormwater discharges associated with construction activity means that all stormwater discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have been eliminated from the portion of the construction site where the operator had control. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized, the temporary erosion and sediment control measures have been removed, and/or subsequent operators have obtained permit coverage for the site or portions of the site where the operator had control.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Permittee name (print or type):	Signature:	Date:

EFO	**Street Address**	**Zip Code**	**EFO**	**Street Address**	**Zip Code**
Memphis	8383 Wolf Lake Drive, Bartlett, TN	38133	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305	Chattanooga	1301 Riverfront Parkway, Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



LEGEND	
SILT FENCE	SF
TREE PROTECTION	TP
INLET PROTECTION	
ROCK CHECK DAM	

NOTE:
CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 AND CP-13, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRE-CONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE.

EROSION CONTROL KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1/C3.3
EC2	SILT FENCE	4/C3.4
EC3	INLET PROTECTION	2/C3.3
EC4	ROCK CHECK DAM	1/C3.4
EC5	RIP-RAP OUTLET PROTECTION	4/C3.3
EC6	EROSION CONTROL MATTING	2/C3.4
EC7	SEDIMENT TUBES	3/C3.4
EC9	SEDIMENT TRAP	5/C3.3
EC10	CONCRETE WASH-OUT	-

SITE DESCRIPTION AND NOTES:

THE SITE IS LOCATED ON TAX MAP 51, PARCEL 05100001800 & 05100001900 IN MADISON, DAVIDSON COUNTY, TENNESSEE. CONSTRUCTION ACTIVITY ON THIS SITE WILL CONSIST OF DISTURBING APPROXIMATELY 13.59± ACRES TO CONSTRUCT MULTIFAMILY RESIDENTIAL UNITS.

1. APPROXIMATE CONSTRUCTION TIME TABLE:
   BEGIN CONSTRUCTION - [NOVEMBER 2019]
   COMPLETE CONSTRUCTION - [APRIL 2021]
2. CONSTRUCTION SEQUENCE:
   A. ATTEND METRO WATER SERVICES PRE-CONSTRUCTION MEETING.
   B. INSTALL CONSTRUCTION ENTRANCE AND SILT FENCE
   C. CONTACT METRO WATER SERVICES - EROSION CONTROL INSPECTOR FOR INSPECTION OF EROSION CONTROL DEVICES TO OBTAIN GRADING PERMIT.
   D. CLEAR AND GRUB THE REMAINING SITE.
   E. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
   F. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
   G. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
3. TOTAL PROJECT AREA = 663,189 SF (15.225± AC.)
   DISTURBED AREA = 591,948 S.F. (13.59± AC.)

EROSION CONTROL NOTES:

1. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATION BEGINS AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REPLACED AT THE END OF THE WORKDAY.
2. THE FOLLOWING RECORDS SHALL BE MAINTAINED ON OR NEAR SITE: THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; THE DATES WHEN STABILIZATION MEASURES ARE INITIATED; INSPECTION RECORDS AND RAINFALL RECORDS.
3. THE CONTRACTOR SHALL MAINTAIN A RAIN GAUGE AND DAILY RAINFALL RECORDS AT THE SITE OR USE A REFERENCE SITE FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION.
4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 10 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
5. CONSTRUCTION MUST BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED AREAS.
6. SEDIMENT SHOULD BE REMOVED FROM SEDIMENT TRAPS, SILT FENCES, SEDIMENTATION PONDS AND OTHER SEDIMENT CONTROLS AS NECESSARY AND MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS DIRECTED BY OWNERS REPRESENTATIVE.
7. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL DRAINAGE STRUCTURES BEFORE ACCEPTANCE BY LOCAL GOVERNING AGENCY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES ONLY AFTER A SOLID STAND OF GRASS HAS BEEN ESTABLISHED ON GRADED AREAS AND WHEN IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY ARE NO LONGER NEEDED.
9. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF THE COMPLETION OF GRADING ACTIVITIES. SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITHIN 7 DAYS.

METRO NOTES:

"THE PROJECT ASSOCIATED WITH THESE SUBMITTED PLANS IS COVERED UNDER THE TENNESSEE CONSTRUCTION GENERAL PERMIT TNR# XXXXXX. THE TOTAL DISTURBED AREA IS 13.59 ACRES."

THIS SITE DISCHARGES INTO WATERS IDENTIFIED BY TDEC AS (CIRCLE ALL THAT APPLY):

IMPAIRED FOR SILTATION *IMPAIRED FOR HABITAT ALTERATION* *EXCEPTIONAL*

AUGUST 7, 2019
TN REGISTERED ENGINEER DATE

I, ANDREW WOLTHERS, A REGISTERED EROSION CONTROL SPECIALIST HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

AUGUST 7, 2019
EROSION CONTROL SPECIALIST DATE

Catalyst DESIGN GROUP
5016 CENTENNIAL BLVD, SUITE 200, NASHVILLE, TN 37209
(615) 866-2410 | WWW.CATALYST-DG.COM

LDG MULTIFAMILY, LLC
1469 S. 4TH STREET
LOUISVILLE, KY 40208
502-638-0534

ANDREW WOLTHERS REGISTERED ENGINEER AGRICULTURE COMMERCE No. 109529 STATE OF TENNESSEE

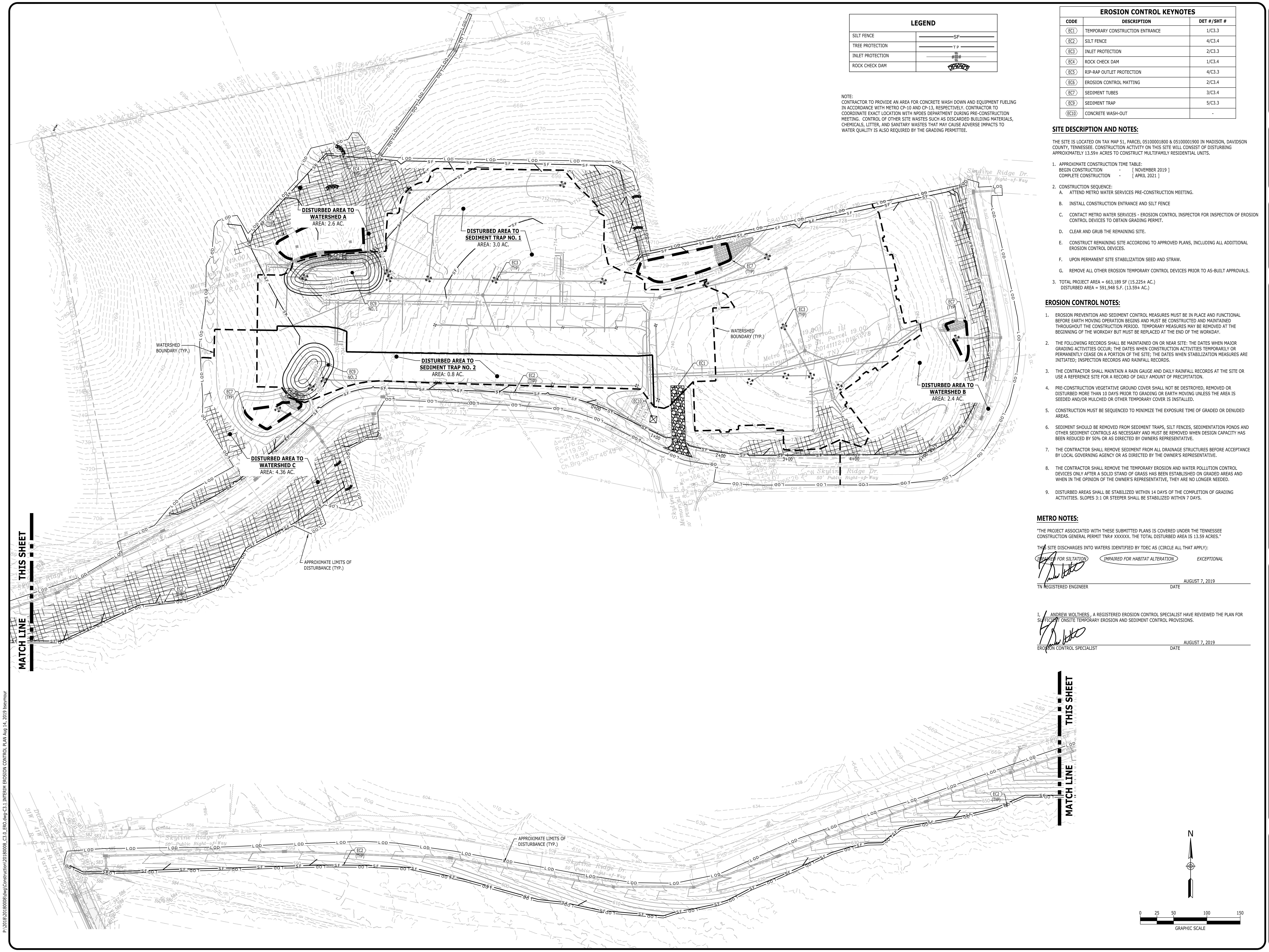
CASE NO.2018SP-083-001
THE 808 AT SKYLINE RIDGE
808 & 820 SKYLINE RIDGE DRIVE (OLD DUE WEST AVENUE)
MADISON, TENNESSEE, 37115
DAVIDSON COUNTY

NO.	DATE	DESCRIPTION
1	10/31/2018	PRELIMINARY SP SUBMITTAL
2	11/20/2018	PRELIMINARY SP RESUBMITTAL
3	12/18/2018	PRELIMINARY SP RESUBMITTAL
4	05/01/2019	FINAL SP SUBMITTAL
5	05/13/2019	GRADING PERMIT SUBMITTAL
6	07/10/2019	GRADING PERMIT RESUBMITTAL

DRAWING TITLE
INITIAL EROSION CONTROL PLAN

PROJECT NUMBER
20180008

DRAWING NUMBER
C3.0



LEGEND

SILT FENCE	——SF——
TREE PROTECTION	——TP——
INLET PROTECTION	(symbol)
ROCK CHECK DAM	(symbol)

NOTE:
CONTRACTOR TO PROVIDE AN AREA FOR CONCRETE WASH DOWN AND EQUIPMENT FUELING IN ACCORDANCE WITH METRO CP-10 AND CP-13, RESPECTIVELY. CONTRACTOR TO COORDINATE EXACT LOCATION WITH NPDES DEPARTMENT DURING PRE-CONSTRUCTION MEETING. CONTROL OF OTHER SITE WASTES SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTES THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY IS ALSO REQUIRED BY THE GRADING PERMITTEE.

EROSION CONTROL KEYNOTES

CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1/C3.3
EC2	SILT FENCE	4/C3.4
EC3	INLET PROTECTION	2/C3.3
EC4	ROCK CHECK DAM	1/C3.4
EC5	RIP-RAP OUTLET PROTECTION	4/C3.3
EC6	EROSION CONTROL MATTING	2/C3.4
EC7	SEDIMENT TUBES	3/C3.4
EC9	SEDIMENT TRAP	5/C3.3
EC10	CONCRETE WASH-OUT	-

SITE DESCRIPTION AND NOTES:

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   D. CLEAR AND GRUB THE REMAINING SITE.
   E. CONSTRUCT REMAINING SITE ACCORDING TO APPROVED PLANS, INCLUDING ALL ADDITIONAL EROSION CONTROL DEVICES.
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   G. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
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METRO NOTES:

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THIS SITE DISCHARGES INTO WATERS IDENTIFIED BY TDEC AS (CIRCLE ALL THAT APPLY):

IMPAIRED FOR SILTATION *IMPAIRED FOR HABITAT ALTERATION* *EXCEPTIONAL*

AUGUST 7, 2019
TN REGISTERED ENGINEER DATE

I, ANDREW WOLTHERS, A REGISTERED EROSION CONTROL SPECIALIST HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

AUGUST 7, 2019
EROSION CONTROL SPECIALIST DATE

Catalyst DESIGN GROUP
5016 CENTENNIAL BLVD, SUITE 200, NASHVILLE, TN 37209
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LDG MULTIFAMILY, LLC
1469 S. 4TH STREET
LOUISVILLE, KY 40208
502-638-0534

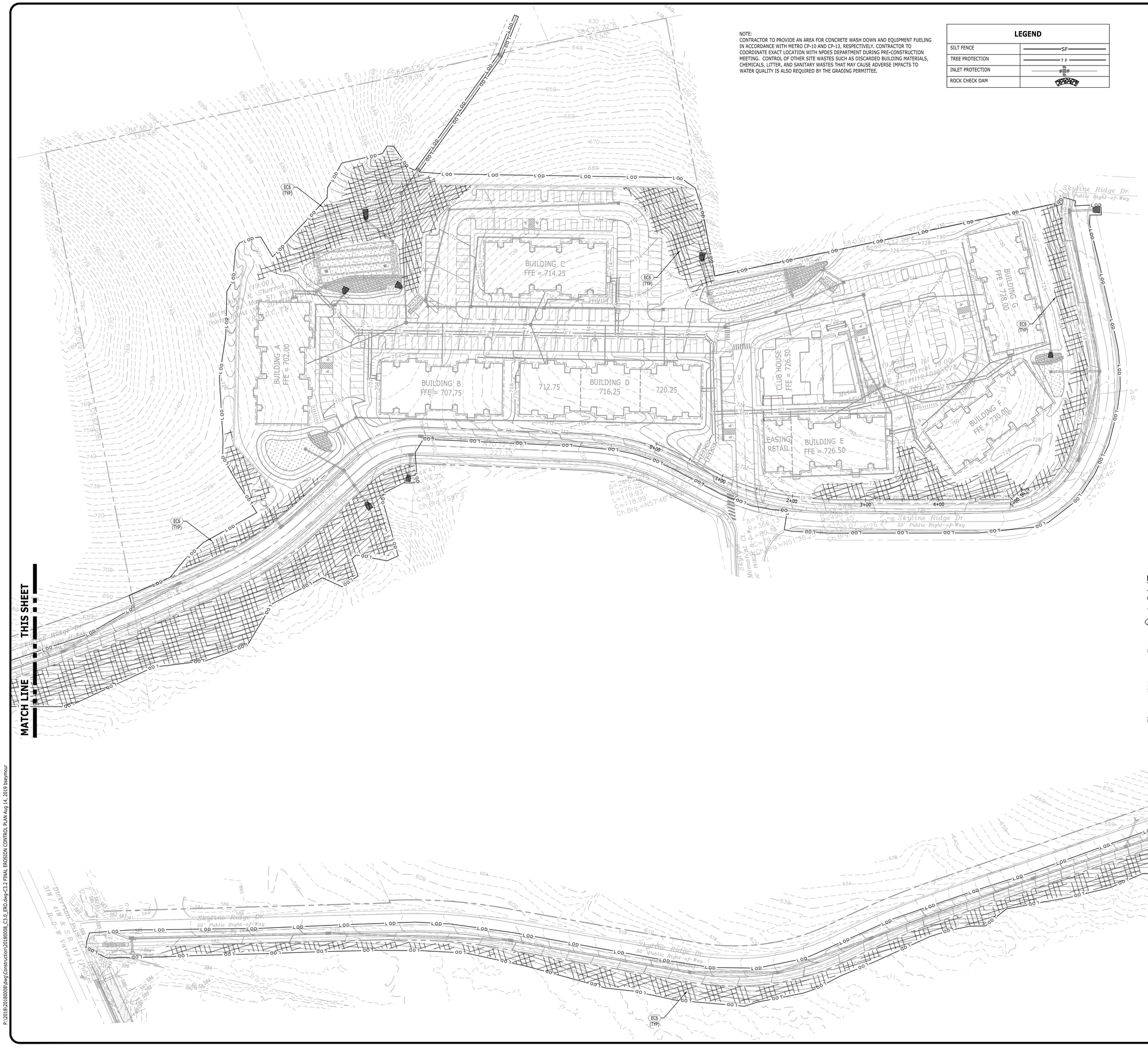
CASE NO.2018SP-083-001
THE 808 AT SKYLINE RIDGE
808 & 820 SKYLINE RIDGE DRIVE (OLD DUE WEST AVENUE)
MADISON, TENNESSEE, 37115
DAVIDSON COUNTY

NO.	DATE	DESCRIPTION
1	10/31/2018	PRELIMINARY SP SUBMITTAL
2	11/20/2018	PRELIMINARY SP RESUBMITTAL
3	12/18/2018	PRELIMINARY SP RESUBMITTAL
4	05/01/2019	FINAL SP SUBMITTAL
5	05/13/2019	GRADING PERMIT SUBMITTAL
6	07/10/2019	GRADING PERMIT RESUBMITTAL

DRAWING TITLE
INTERIM EROSION CONTROL PLAN

PROJECT NUMBER
20180008

DRAWING NUMBER
C3.1



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LEGEND	
SILT FENCE	SF
TREE PROTECTION	TP
INLET PROTECTION	IP
ROCK CHECK DAM	

EROSION CONTROL KEYNOTES		
CODE	DESCRIPTION	DET #/SHT #
EC1	TEMPORARY CONSTRUCTION ENTRANCE	1/C3.3
EC2	SILT FENCE	4/C3.4
EC3	INLET PROTECTION	2/C3.3
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EC5	RIP-RAP OUTLET PROTECTION	4/C3.3
EC6	EROSION CONTROL MATTING	2/C3.4
EC7	SEDIMENT TUBES	3/C3.4
EC9	SEDIMENT TRAP	5/C3.3
EC10	CONCRETE WASH-OUT	-

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   D. CLEAR AND GRUB THE REMAINING SITE.
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   F. UPON PERMANENT SITE STABILIZATION SEED AND STRAW.
   G. REMOVE ALL OTHER EROSION TEMPORARY CONTROL DEVICES PRIOR TO AS-BUILT APPROVALS.
3. TOTAL PROJECT AREA = 663,189 SF (15.225± AC.)
   DISTURBED AREA = 591,948 S.F. (13.59± AC.)

EROSION CONTROL NOTES:

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METRO NOTES:

"THE PROJECT ASSOCIATED WITH THESE SUBMITTED PLANS IS COVERED UNDER THE TENNESSEE CONSTRUCTION GENERAL PERMIT TNR# XXXXXX. THE TOTAL DISTURBED AREA IS 13.59 ACRES."

THIS SITE DISCHARGES INTO WATERS IDENTIFIED BY TDEC AS (CIRCLE ALL THAT APPLY):

IMPAIRED FOR SILTATION *IMPAIRED FOR HABITAT ALTERATION* *EXCEPTIONAL*

I, ANDREW WOLTHERS, A REGISTERED ENGINEER HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

REGISTERED ENGINEER — DATE: AUGUST 7, 2019

I, ANDREW WOLTHERS, A REGISTERED EROSION CONTROL SPECIALIST HAVE REVIEWED THE PLAN FOR SUFFICIENT ONSITE TEMPORARY EROSION AND SEDIMENT CONTROL PROVISIONS.

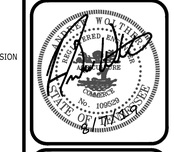
EROSION CONTROL SPECIALIST — DATE: AUGUST 7, 2019

N

0 25 50 100 150
GRAPHIC SCALE

Catalyst DESIGN GROUP
5016 CENTENNIAL BLVD, SUITE 200, NASHVILLE, TN 37209
(615) 866-2410 | WWW.CATALYST-DG.COM

LDG MULTIFAMILY, LLC
1469 S. 4TH STREET
LOUISVILLE, KY 40208
502-638-0534



THE 808 AT SKYLINE RIDGE

CASE NO.2018SP-083-001
808 & 820 SKYLINE RIDGE DRIVE (OLD DUE WEST AVENUE)
MADISON, TENNESSEE, 37115
DAVIDSON COUNTY

NO.	DATE	DESCRIPTION
1	10/31/2018	PRELIMINARY SP SUBMITTAL
2	11/20/2018	PRELIMINARY SP RESUBMITTAL
3	12/18/2018	PRELIMINARY SP RESUBMITTAL
4	05/01/2019	FINAL SP SUBMITTAL
5	05/13/2019	GRADING PERMIT SUBMITTAL
6	07/10/2019	GRADING PERMIT RESUBMITTAL

DRAWING TITLE
FINAL EROSION CONTROL PLAN

PROJECT NUMBER
20180008

DRAWING NUMBER
C3.2

SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

1. INSPECTIONS DESCRIBED IN PARAGRAPHS 2, 3 AND 4 BELOW, SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE) OR DUE TO EXTREME DROUGHT, SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING OR PRECIPITATION RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CHANGE THE INSPECTION FREQUENCY AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE, OR THE DIVISION'S NASHVILLE CENTRAL OFFICE FOR PROJECTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) AND THE TENNESSEE VALLEY AUTHORITY (TVA). SHOULD TDEC DISCOVER THAT MONTHLY INSPECTIONS OF THE SITE ARE NOT APPROPRIATE DUE TO INSUFFICIENT STABILIZATION MEASURES OR OTHERWISE, TWICE WEEKLY INSPECTIONS SHALL RESUME. TDEC MAY INSPECT THE SITE TO CONFIRM OR DENY THE NOTIFICATION TO CONDUCT MONTHLY INSPECTIONS.
2. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.
3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SITE'S DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
4. OUTFALL POINTS (WHERE DISCHARGES LEAVE THE SITE AND/OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
5. BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.
6. BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS SWPPP SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP, BUT IN NO CASE LATER THAN 14 DAYS FOLLOWING THE INSPECTION.
7. ALL INSPECTIONS SHALL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT FOR ALL CONSTRUCTION SITES. INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE TO TDEC UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED TO TDEC WITHIN 10 DAYS OF THE REQUEST. IF TDEC REQUESTS THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM TO BE SUBMITTED, THE SUBMITTED FORM MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE TRAINED CERTIFIED INSPECTOR AND THE PERSON WHO MEETS THE SIGNATORY REQUIREMENTS OF SECTION 7.7.2 OF THE NPDES GENERAL PERMIT.
8. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES.
9. SUBSEQUENT OPERATOR(S) (PRIMARY PERMITTEES) WHO HAVE OBTAINED COVERAGE UNDER THE NPDES GENERAL PERMIT SHOULD CONDUCT TWICE WEEKLY INSPECTIONS, UNLESS THEIR PORTION(S) OF THE SITE HAS BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS OR DUE TO EXTREME DROUGHT AS STATED IN PARAGRAPH A) ABOVE. THE PRIMARY PERMITTEE (SUCH AS A DEVELOPER) IS NO LONGER REQUIRED TO CONDUCT INSPECTIONS OF PORTIONS OF THE SITE THAT ARE COVERED BY A SUBSEQUENT PRIMARY PERMITTEE (SUCH AS A HOME BUILDER).

NOTE:

CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE. THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

1. A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).
2. THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).
3. DESCRIPTION OF PROJECT (FURNISHED BY CONSTRUCTION MANAGER).

SITE ASSESSMENT NOTES

1. THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
   - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
   - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) OR
   - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.
2. QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE DONE BY PERFORMING SITE ASSESSMENT AT A CONSTRUCTION SITE. THE SITE ASSESSMENT SHALL BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS, WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE.
3. AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPSC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED IN ACCORDANCE WITH THE TENNESSEE CODE ANNOTATED, TITLE 62, CHAPTER 2 AND THE RULES OF THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS.
4. THE SITE ASSESSMENT FINDINGS SHALL BE DOCUMENTED AND THE DOCUMENTATION KEPT WITH THE SWPPP REPORT AT THE SITE. AT A MINIMUM, THE DOCUMENTATION SHALL INCLUDE INFORMATION INCLUDED IN THE INSPECTION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT. THE DOCUMENTATION MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE INDIVIDUAL PERFORMING THE SITE ASSESSMENT AND THE FOLLOWING CERTIFICATION:

   "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, 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."
5. THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.
6. TDEC MAY REQUIRE ADDITIONAL SITE ASSESSMENT(S) TO BE PERFORMED IF SITE INSPECTION BY TDEC'S PERSONNEL REVEALS SITE CONDITIONS THAT HAVE POTENTIAL OF CAUSING POLLUTION TO THE WATERS OF THE STATE.

3 **RESERVED**
NOT TO SCALE

ACTIVITY: Stabilized Construction Entrance | TCP – 03

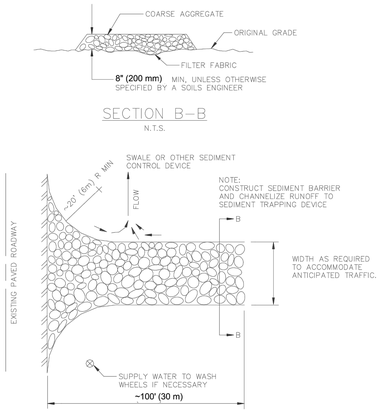
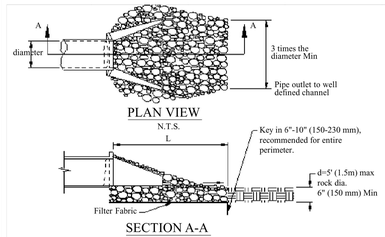


Figure TCP-03-1
Stabilized Construction Entrance

Volume 4:
Stormwater Best Management Practices –
Temp. Construction Site Management Practices TCP-03-5 September 2013

1 **CONSTRUCTION ENTRANCE (METRO TCP-03)**
NOT TO SCALE

ACTIVITY: Temporary Outlet Protection | TCP – 25



Adapted from: Virginia Erosion & Sediment Control Handbook, 1992

Pipe Diameter in (mm)	Discharge ft ³/s(m ³/s)	Apron Length, L ft (m)	Rip-Rap D_{50}Diameter Min in (mm)
12 (300)	4.9 (0.14)	10 (3)	4 (100)
	9.89 (0.28)	13 (4)	6 (150)
18 (450)	9.89 (0.28)	10 (3)	6 (150)
	20.13 (0.57)	16 (5)	8 (200)
	30.01 (0.85)	23 (7)	12 (300)
	39.90 (1.13)	26 (8)	16 (400)
24 (600)	30.01 (0.85)	16 (5)	8 (200)
	39.90 (1.13)	26 (8)	8 (200)
	50.14 (1.42)	26 (8)	12 (300)
	60.03 (1.70)	30 (9)	16 (400)
For larger or higher flows, consult a registered civil engineer			

Source: USDA-SCS

Figure TCP-25-1
Outlet Protection Sizing

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Temporary Construction Management Practices TCP-25-4 February 2000

4 **RIP-RAP OUTLET PROTECTION (METRO TCP-25)**
NOT TO SCALE

ACTIVITY: Temporary Inlet Protection | TCP – 24

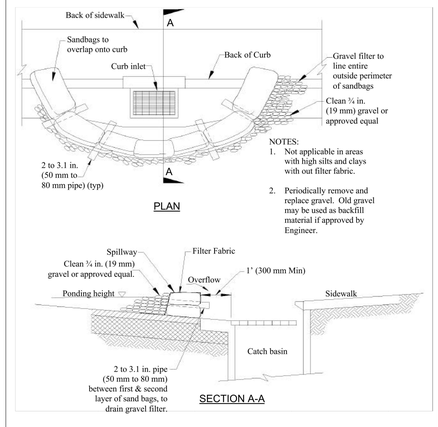
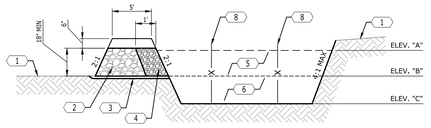


Figure TCP-24-3
Sand Bag Barrier

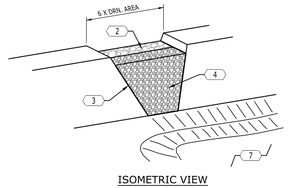
Volume 4:
Stormwater Best Management Practices –
Temporary Construction Management Practices TCP-24-7 September 2013

2 **INLET PROTECTION (METRO TCP-24)**
NOT TO SCALE

KEYNOTES	
CODE	DESCRIPTION
1	EXISTING GRADE
2	RIP-RAP; TDOT CLASS A-1
3	GEOTEXTILE FILTER FABRIC; MIRAFI 500X OR APPROVED EQUAL
4	COARSE AGGREGATE; TDOT NO. 3, NO. 357 OR NO. 5 STONE
5	SETTLING VOLUME "E"
6	SEDIMENT STORAGE VOLUME "F"
7	EXCAVATED BASIN
8	POROUS BAFFLE; COIR OR JUTE MESH (SEE PLANS FOR LOCATION)



SECTION THROUGH BERM



ISOMETRIC VIEW

SEDIMENT TRAP NOTES

1. MAXIMUM EXCAVATION DEPTH FOR THE BOTTOM OF SEDIMENT TRAPS MUST BE AT LEAST 1 FOOT ABOVE FINISHED GRADE AS SHOWN ON THE GRADING PLANS.
2. IF SEDIMENT TRAPS ARE PROPOSED IN THE SAME LOCATION AS BIORETENTION AREAS, THEN THE PROPOSED BIORETENTION AREA MUST BE INSTALLED WITH UNDERDRAINS.
3. SEDIMENT TRAPS SHALL BE INSPECTED WEEKLY, AND BEFORE AND AFTER ANY RAINFALL EVENTS. DURING PERIODS OF EXTENDED RAINFALL, SEDIMENT TRAPS SHALL BE INSPECTED DAILY.
4. TRAP BANKS SHALL BE EXAMINED FOR SEEPAGE AND STRUCTURAL SOUNDNESS.
5. OUTLET WEIRS AND BERMS SHALL BE INSPECTED FOR SIGNS OF EROSION AND ANY DAMAGE SHALL BE REPAIRED AS NEEDED.
6. SEDIMENT SHALL BE REMOVED FROM TRAPS WHEN THE VOLUME HAS REACHED ONE-THIRD OF THE TRAP VOLUME. SEDIMENT REMOVED FROM THE TRAP SHALL BE DISPOSED OF IN AN APPROVED LOCATION.
7. UPON FINAL SITE STABILIZATION, CONVERT TRAPS INTO BIORETENTION AREAS BY THE FOLLOWING PROCESS:
   -DEWATER THE TRAP BY PUMPING REMAINING RUNOFF THROUGH A FILTER
   -REMOVE AND DISPOSE OF SEDIMENT IN AN APPROVED LOCATION
   -EXCAVATE AREA TO PROPER DEPTH AS SHOWN ON GRADING PLANS AND BIORETENTION DETAILS
   -INSTALL UNDERDRAIN AND MEDIA LAYERS AS OUTLINED IN GRADING PLANS AND DETAILS
   -INSTALL FINAL VEGETATION AS OUTLINED IN LANDSCAPE PLANS.

SEDIMENT TRAP VOLUME CALCULATIONS

TRAP ID	DRAINAGE AREA (AC.)	DRY STORAGE REQ'D (CF)	DRY STORAGE REQ'D (CY)	WET STORAGE REQ'D (CF)	WET STORAGE REQ'D (CY)	WEIR LENGTH (FT) [6 * D.A.]	ELEVATION A (FT)	S.A. (SF)	ELEVATION B (FT)	S.A. (SF)	ELEVATION C (FT)	S.A. (SF)	DRY STORAGE PROV'D (CF)	DRY STORAGE PROV'D (CY)	WET STORAGE PROV'D (CF)	WET STORAGE PROV'D (CY)
NO. 1	3.0	10854	402.0	5427	201.0	18	696.75	5110	694	3400	692	2050	11701	433.4	5450	201.9
NO. 2	0.8	2894	107.2	1447	53.6	5	696	2125	694	1200	692	500	3325	123.1	1700	63.0

5 **SEDIMENT TRAP (METRO TCP-17)**
NOT TO SCALE

Catalyst DESIGN GROUP
5016 CENTENNIAL BLVD, SUITE 200, NASHVILLE, TN 37209
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LDG MULTIFAMILY, LLC
1469 S. 4TH STREET
LOUISVILLE, KY 40208
502-638-0534

THE 808 AT SKYLINE RIDGE

808 & 820 SKYLINE RIDGE DRIVE (OLD DUE WEST AVENUE)
MADISON, TENNESSEE, 37115
DAVIDSON COUNTY

CASE NO.2018SP-083-001

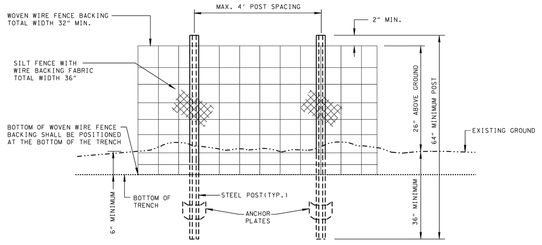
NO.	DATE	DESCRIPTION
1	10/31/2018	PRELIMINARY SP SUBMITTAL
2	11/20/2018	PRELIMINARY SP RESUBMITTAL
3	12/18/2018	PRELIMINARY SP RESUBMITTAL
4	05/01/2019	FINAL SP SUBMITTAL
5	05/13/2019	GRADING PERMIT SUBMITTAL
6	07/10/2019	GRADING PERMIT RESUBMITTAL

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

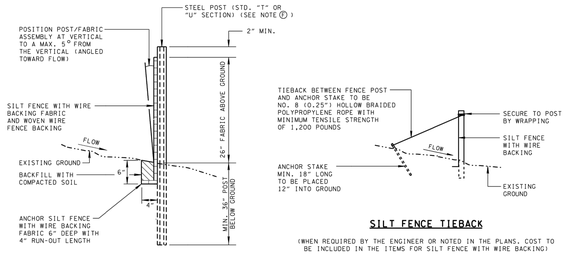
PROJECT NUMBER
20180008

DRAWING NUMBER
C3.3

P:\2018\20180008\Dwg\Construction\20180008_C3.0_FKO.dwg-C3.3 SEDIMENT AND EROSION CONTROL DETAILS Aug 14, 2019 bseymour



ELEVATION VIEW



SECTIONAL VIEW

SILT FENCE TIEBACK

(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS, COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE WITH WIRE BACKING)

EROSION CONTROL PLAN LEGEND: • SFB • SFB • SFB • SILT FENCE WITH WIRE BACKING

SILT FENCE WITH WIRE BACKING FABRIC SPECIFICATIONS

FABRIC PROPERTY AND TEST METHODS	REQUIRED PHYSICAL PROPERTIES (MARV VALUES OF TEST DATA)
GEOTEXTILE FABRIC TYPE	WOVEN MONOFILAMENT
APPARENT OPENING SIZE (ASTM D4751)	# 70 TO # 100 STANDARD SIEVE
WATER FLUX (ASTM D4491)	≥ 18 GPM/FT^2
TENSILE STRENGTH (ASTM D4632)	≥ 310 LB. (WARP DIRECTION) X 200 LB. (FILL DIRECTION)
ULTRAVIOLET STABILITY (AFTER 500 HRS PER ASTM D4355)	≥ 90%
BURST STRENGTH (ASTM D3786)	≥ 400 PSI
PUNCTURE STRENGTH (ASTM D4833)	≥ 105 LB.
TRAPEZOIDAL TEAR (ASTM D4533)	≥ 100 LB. (WARP DIRECTION) X 60 LB. (FILL DIRECTION)

SILT FENCE WITH WIRE BACKING GENERAL NOTES

(A) SILT FENCE WITH WIRE BACKING IS USED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT AND REDUCE VELOCITY FROM SHEET FLOW ONLY. USE SILT FENCE WITH WIRE BACKING UP-GRADIENT TO, AND ALONG THE PERIMETER OF STREAMS, WETLANDS, PONDS, SPRINGS, OR OTHER NATURAL WATER RESOURCES LOCATED WITHIN OR ADJACENT TO THE PROJECT RIGHT-OF-WAY AND AT LARGE FILL SLOPES.

(B) THE MAXIMUM DRAINAGE AREA SIZE FOR CONTINUOUS SILT FENCE WITH BACKING SHALL BE 1 ACRE PER 150 LINEAR FEET OF FENCE LENGTH. MAXIMUM SLOPE LENGTH BEHIND FENCE ON UPSLOPE SIDE SHALL BE 290 FEET (AS MEASURED ALONG THE GROUND SURFACE).

(C) WHEN INSTALLED AT THE TOE OF A SLOPE SILT FENCE WITH WIRE BACKING SHOULD BE PLACED 5 FEET TO 10 FEET AWAY FROM THE TOE TO ALLOW SPACE FOR PONDING OF WATER, COLLECTION OF SEDIMENT, AND EASE OF MAINTENANCE AND REMOVAL.

(D) WHEN TWO SECTIONS OF SILT FENCE WITH WIRE BACKING FABRIC ADJOIN EACH OTHER, THEY SHALL BE JOINED ACCORDING TO THE DETAILS ON STANDARD DRAWING EC-STR-3E.

(E) MAINTENANCE SHALL BE PERFORMED AS NEEDED; CAPTURED SOIL MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND/OR WHEN EVIDENCE OF FILTER CLOGGING IS OBSERVED.

(F) STEEL POSTS SHALL BE ROLLED FROM HIGH CARBON STEEL AND SHALL HAVE A MINIMUM WEIGHT OF 1.25 LB/FT. POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH GRADE WEATHER RESISTANT STEEL PAINT. STEEL POSTS SHALL BE EQUIPPED WITH AN ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED, EMBOSSED, OR PUNCHED TO AID IN THE ATTACHMENT OF THE WIRE BACKING. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702.

(G) STEEL POSTS SHALL HAVE A PROJECTION FOR FASTENING WIRE TO THEM. WOVEN WIRE FENCE BACKING TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST SIX PER POST.

(H) FABRIC SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE BACKING WITH THE TIES SPACED EVERY 24 INCHES ALONG TOP AND MIDSECTION.

(I) WOVEN WIRE FENCE BACKING SHALL MEET THE REQUIREMENTS FOR ASTM A-116 FOR NO. 11 FARM, DESIGN NO. 832-6-11, CLASS 3 COATING.

(J) SILT FENCE WITH BACKING SHOULD BE PLACED ALONG OR NEAR THE GROUND CONTOUR. THE BOTTOM OF FENCE AT GROUNDLINE SHOULD BE ON A ZERO PERCENT (0%) GRADE, PLUS OR MINUS FIVE TENTHS OF ONE PERCENT (±0.5%). THE END OF A ROW OF SILT FENCE WITH WIRE BACKING SHOULD BE TURNED UP SLOPE FORMING A J-HOOK TO FILTER ANY CONCENTRATED FLOW BEHIND FENCE.

(K) FOR TRENCH-BASED INSTALLATIONS, SILT FENCING WITH WIRE BACKING SHALL BE INSTALLED PER THE FOLLOWING STEPS AND IN THE FOLLOWING ORDER:

- EXCAVATE TRENCH A MAXIMUM OF 4 INCHES WIDE AND 6 INCHES DEEP. THE TRENCH SHALL BE HAND-CLEANED FOLLOWING EXCAVATION TO REMOVE BULKY DEBRIS SUCH AS ROCKS, STICKS, AND SOIL CLODS FROM THE TRENCH.
- DRIVE AND SET SUPPORT POSTS PER SPACING REQUIREMENTS GIVEN ON THE APPLICABLE FENCE DETAIL.
- ATTACH WOVEN WIRE FENCE BACKING TO POSTS AND FABRIC TO THE WIRE BACKING USING WIRE TIES. SPACING AND DENSITY OF TIES SHALL BE INSTALLED ACCORDING TO NOTES G AND H
- INSTALL FABRIC IN TRENCH.
- BACKFILL TRENCH (OVER-FILL) WITH SOIL PLACED AROUND FABRIC.
- COMPACT SOIL. BACKFILL WITH MECHANICAL EQUIPMENT. DO NOT DAMAGE THE FABRIC DURING COMPACTION (DAMAGED FABRIC SHALL BE REPLACED).

(L) ONLY SILT FENCE WITH WIRE BACKING FABRIC LISTED ON THE QUALIFIED PRODUCTS LIST MAY BE USED. ANY PRODUCTS LISTED ON THE QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE MAY ALSO BE USED.

(M) SILT FENCE WITH WIRE BACKING SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER:

209-08.02 TEMPORARY SILT FENCE (WITH BACKING) PER LINEAR FOOT

PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE SILT FENCE WITH WIRE BACKING.

(N) SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WITH WIRE BACKING WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL PER CUBIC YARD.

☐ MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

NOT TO SCALE

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

SILT FENCE WITH WIRE BACKING

12-18-02 EC-STR-3C

☐ REV. 12-18-03: MODIFIED TABLE (2) AND GENERAL NOTE (L).

☐ REV. 7-29-04: CHANGED VALUES IN TABLE 2 FROM MEAN TO MARV VALUES.

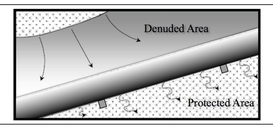
☐ REV. 4-15-06: MODIFIED FABRIC HEIGHT, ADDED NOTES (2) AND (3), REVISED TABLE TITLE, RENUMBERED GENERAL NOTES, REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.

☐ REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, AND MISC. EDITS TO DRAWING.

☐ REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

4 **WIRE BACK SILT FENCE (TDOT EC-STR-3C)**
NOT TO SCALE

ACTIVITY: Weighted Sediment Tube | TCP – 14



Targeted Constituents

● Significant Benefit	◗ Partial Benefit	○ Low or Unknown Benefit
● Sediment	○ Heavy Metals	○ Floatable Materials	○ Oxygen Demanding Substances
○ Nutrients	○ Toxic Materials	○ Oil & Grease	○ Bacteria & Viruses	○ Construction Wastes

Implementation Requirements

● High	◗ Medium	○ Low		
● Capital Costs	● O & M Costs	◗ Maintenance	○ Suitability for Slopes >5%	○ Training

Description

A weighted sediment tube (WST) consists of tubular-shaped filter bags with ballast material designed to reduce suspended solids from runoff.

Sand bag barriers and rock filters (especially continuous berms) are preferred over weighted sediment tubes because sediment removal efficiencies, durability, and maintenance requirements are far less desirable in weighted sediment tubes. This management practice is likely to create a significant reduction in sediment.

Suitable Applications

- Along the perimeter of the site.
- Along swales as a temporary erosion control measure (check dams).
- Around temporary spoil areas and other small cleared areas.
- Below the toe of exposed erodible slopes.
- Downslope of exposed soil areas.

Installation/ Application Criteria

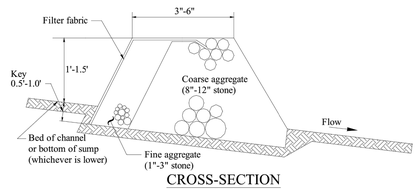
Weighted sediment tubes are typically installed with 0.25 acre (0.1 ha) draining to every 100-feet (31.4 m) of barrier. They are designed to function under a 10-year storm event and may be furnished for no longer than three months. The barrier is designed to pond water behind so it is crucial that it is sufficiently anchored and follows contours. Weighted sediment tubes that are not entrenched and do not follow contours can result in worsened erosion.

Generally, weighted sediment tubes are used in conjunction with erosion source controls to provide sufficient control. Weighted sediment tubes are not as effective as silt fences.

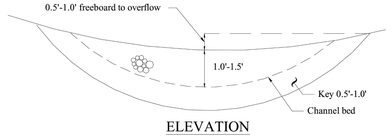
Volume 4:
Stormwater Best Management Practices – Temp. Construction Management Practices TCP-14-1 August 2009

3 **SEDIMENT TUBES (METRO TCP-14)**
NOT TO SCALE

ACTIVITY: Check Dams | TCP – 12



CROSS-SECTION
N.T.S.



ELEVATION
N.T.S.

Figure TCP-12-1
Stone Check Dam Construction

Volume 4:
Stormwater Best Management Practices – Temp. Construction Management Practices TCP-12-5 February 2000

1 **ROCK CHECK DAM (METRO TCP-12)**
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SCHEDULE OF INSPECTIONS AND MAINTENANCE NOTES

1. INSPECTIONS DESCRIBED IN PARAGRAPHS 2, 3 AND 4 BELOW, SHALL BE PERFORMED AT LEAST TWICE EVERY CALENDAR WEEK. INSPECTIONS SHALL BE PERFORMED AT LEAST 72 HOURS APART. WHERE SITES OR PORTION(S) OF CONSTRUCTION SITES HAVE BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (E.G., SITE COVERED WITH SNOW OR ICE) OR DUE TO EXTREME DROUGHT, SUCH INSPECTION ONLY HAS TO BE CONDUCTED ONCE PER MONTH UNTIL THAWING OR PRECIPITATION RESULTS IN RUNOFF OR CONSTRUCTION ACTIVITY RESUMES. INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS THAT HAVE BEEN FINALLY STABILIZED. WRITTEN NOTIFICATION OF THE INTENT TO CHANGE THE INSPECTION FREQUENCY AND THE JUSTIFICATION FOR SUCH REQUEST MUST BE SUBMITTED TO THE LOCAL ENVIRONMENTAL FIELD OFFICE, OR THE DIVISION'S NASHVILLE CENTRAL OFFICE FOR PROJECTS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (TDOT) AND THE TENNESSEE VALLEY AUTHORITY (TVA). SHOULD TDEC DISCOVER THAT MONTHLY INSPECTIONS OF THE SITE ARE NOT APPROPRIATE DUE TO INSUFFICIENT STABILIZATION MEASURES OR OTHERWISE, TWICE WEEKLY INSPECTIONS SHALL RESUME. TDEC MAY INSPECT THE SITE TO CONFIRM OR DENY THE NOTIFICATION TO CONDUCT MONTHLY INSPECTIONS.
2. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE OR COOPERATIVELY BY MULTIPLE PERMITTEES) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL.
3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SITE'S DRAINAGE SYSTEM. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY.
4. OUTFALL POINTS (WHERE DISCHARGES LEAVE THE SITE AND/OR ENTER WATERS OF THE STATE) SHALL BE INSPECTED TO DETERMINE WHETHER EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
5. BASED ON THE RESULTS OF THE INSPECTION, ANY INADEQUATE CONTROL MEASURES OR CONTROL MEASURES IN DISREPAIR SHALL BE REPLACED OR MODIFIED, OR REPAIRED AS NECESSARY, BEFORE THE NEXT RAIN EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED.
6. BASED ON THE RESULTS OF THE INSPECTION, THE SITE DESCRIPTION AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THIS SWPPP SHALL BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN 7 DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE SWPPP, BUT IN NO CASE LATER THAN 14 DAYS FOLLOWING THE INSPECTION.
7. ALL INSPECTIONS SHALL BE DOCUMENTED ON THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT FOR ALL CONSTRUCTION SITES. INSPECTION DOCUMENTATION WILL BE MAINTAINED ON SITE AND MADE AVAILABLE TO TDEC UPON REQUEST. INSPECTION REPORTS MUST BE SUBMITTED TO TDEC WITHIN 10 DAYS OF THE REQUEST. IF TDEC REQUESTS THE CONSTRUCTION STORMWATER INSPECTION CERTIFICATION FORM TO BE SUBMITTED, THE SUBMITTED FORM MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE TRAINED CERTIFIED INSPECTOR AND THE PERSON WHO MEETS THE SIGNATORY REQUIREMENTS OF SECTION 7.7.2 OF THE NPDES GENERAL PERMIT.
8. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION DOCUMENTATION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES.
9. SUBSEQUENT OPERATOR(S) (PRIMARY PERMITTEES) WHO HAVE OBTAINED COVERAGE UNDER THE NPDES GENERAL PERMIT SHOULD CONDUCT TWICE WEEKLY INSPECTIONS, UNLESS THEIR PORTION(S) OF THE SITE HAS BEEN TEMPORARILY STABILIZED, OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS OR DUE TO EXTREME DROUGHT AS STATED IN PARAGRAPH A) ABOVE. THE PRIMARY PERMITTEE (SUCH AS A DEVELOPER) IS NO LONGER REQUIRED TO CONDUCT INSPECTIONS OF PORTIONS OF THE SITE THAT ARE COVERED BY A SUBSEQUENT PRIMARY PERMITTEE (SUCH AS A HOME BUILDER).

SITE ASSESSMENT NOTES

1. THE SITE ASSESSMENT SHALL BE PERFORMED BY INDIVIDUALS WITH THE FOLLOWING QUALIFICATIONS:
   - A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
   - A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) OR
   - A PERSON THAT SUCCESSFULLY COMPLETED THE "LEVEL II DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE.
2. QUALITY ASSURANCE OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE DONE BY PERFORMING SITE ASSESSMENT AT A CONSTRUCTION SITE. THE SITE ASSESSMENT SHALL BE CONDUCTED AT EACH OUTFALL INVOLVING DRAINAGE TOTALING 10 OR MORE ACRES OR 5 OR MORE ACRES IF DRAINING TO AN IMPAIRED OR EXCEPTIONAL QUALITY WATERS, WITHIN A MONTH OF CONSTRUCTION COMMENCING AT EACH PORTION OF THE SITE THAT DRAINS THE QUALIFYING ACREAGE OF SUCH PORTION OF THE SITE.
3. AS A MINIMUM, SITE ASSESSMENT SHOULD BE PERFORMED TO VERIFY THE INSTALLATION, FUNCTIONALITY AND PERFORMANCE OF THE EPSC MEASURES DESCRIBED IN THE SWPPP REPORT. THE SITE ASSESSMENT SHOULD BE PERFORMED WITH THE INSPECTOR, AND SHOULD INCLUDE A REVIEW AND UPDATE (IF APPLICABLE) OF THE SWPPP REPORT. MODIFICATIONS OF PLANS AND SPECIFICATIONS FOR ANY BUILDING OR STRUCTURE, INCLUDING THE DESIGN OF SEDIMENT BASINS OR OTHER SEDIMENT CONTROLS INVOLVING STRUCTURAL, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS SHALL BE PREPARED BY A LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT AND STAMPED AND CERTIFIED IN ACCORDANCE WITH THE TENNESSEE CODE ANNOTATED, TITLE 62, CHAPTER 2 AND THE RULES OF THE TENNESSEE BOARD OF ARCHITECTURAL AND ENGINEERING EXAMINERS.
4. THE SITE ASSESSMENT FINDINGS SHALL BE DOCUMENTED AND THE DOCUMENTATION KEPT WITH THE SWPPP REPORT AT THE SITE. AT A MINIMUM, THE DOCUMENTATION SHALL INCLUDE INFORMATION INCLUDED IN THE INSPECTION FORM PROVIDED IN APPENDIX D OF THE SWPPP REPORT. THE DOCUMENTATION MUST CONTAIN THE PRINTED NAME AND SIGNATURE OF THE INDIVIDUAL PERFORMING THE SITE ASSESSMENT AND THE FOLLOWING CERTIFICATION:

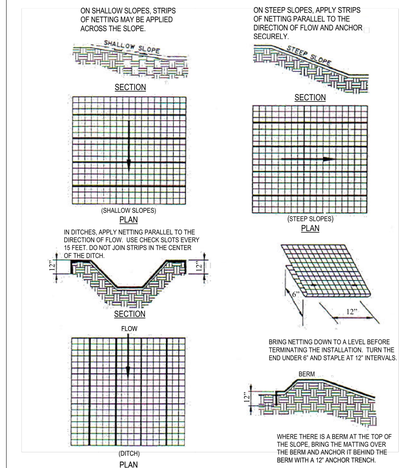
   "I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS ARE, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."
5. THE SITE ASSESSMENT CAN TAKE THE PLACE OF ONE OF THE TWICE WEEKLY INSPECTIONS REQUIREMENT.
6. TDEC MAY REQUIRE ADDITIONAL SITE ASSESSMENT(S) TO BE PERFORMED IF SITE INSPECTION BY TDEC'S PERSONNEL REVEALS SITE CONDITIONS THAT HAVE POTENTIAL OF CAUSING POLLUTION TO THE WATERS OF THE STATE.

NOTE:

CONTRACTOR SHALL INSTALL A 4'X4' WEATHER PROOF SIGN (6' HEIGHT) AT THE MAIN CONSTRUCTION ENTRANCE. THE SIGN SHALL HAVE THE FOLLOWING INFORMATION:

1. A COPY OF THE NOTICE OF COVERAGE WITH THE NPDES PERMIT NUMBER (FURNISHED BY ENGINEER).
2. THE NAME AND TELEPHONE NUMBER OF A LOCAL CONTACT PERSON (FURNISHED BY CONSTRUCTION MANAGER).
3. DESCRIPTION OF PROJECT (FURNISHED BY CONSTRUCTION MANAGER).

ACTIVITY: Nets and Mats | TCP – 09



ORIENTATION OF NETTING AND MATTING

Figure TCP-09-2
Mat Anchoring and Layout

Volume 4:
Stormwater Best Management Practices – Temp. Construction Management Practices TCP-09-7 February 2000

2 **EROSION CONTROL MATTING (METRO TCP-09)**
NOT TO SCALE

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1469 S. 4TH STREET
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THE 808 AT SKYLINE RIDGE
808 & 820 SKYLINE RIDGE DRIVE (OLD DUE WEST AVENUE)
MADISON, TENNESSEE, 37115
DAVIDSON COUNTY
CASE NO.2018SP-083-001

NO.	DATE	DESCRIPTION
1	10/31/2018	PRELIMINARY SP SUBMITTAL
2	11/20/2018	PRELIMINARY SP RESUBMITTAL
3	12/18/2018	PRELIMINARY SP RESUBMITTAL
4	05/01/2019	FINAL SP SUBMITTAL
5	05/13/2019	GRADING PERMIT SUBMITTAL
6	07/10/2019	GRADING PERMIT RESUBMITTAL

DRAWING TITLE
SEDIMENT AND EROSION CONTROL DETAILS

PROJECT NUMBER
20180008

DRAWING NUMBER
C3.4

P:\2018\20180008\Dwg\Construction\20180008_C3.0_FKO.dwg-C3.4 SEDIMENT AND EROSION CONTROL DETAILS Aug 14, 2019 bseymour