

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR



**NORTH WHITNEY AVENUE PARKING LOT
SBC # 364/11-04-2025**

PREPARED FOR:

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APPENDICES

- ✧ Tennessee Municipal Construction Stormwater Project Review Checklist (Form CN-1440)
- ✧ Quad Map / Soil Maps
- ✧ State of Tennessee NPDES Permit General Permit for Discharges of Storm Water Associated with Construction Activities (TNR100000)
- ✧ Site Construction Plans
- ✧ Rainfall Log
- ✧ Blank General NPDES Permit for Stormwater Discharges from Construction Activities (CGP) Construction Storm Water Inspection Certification (Inspection Form CN-1173)
- ✧ Blank Notice of Termination (NOT) For General NPDES Permit for Stormwater Discharges from Construction Activities (CGP) (Form CN-1175) (for reference only, must be submitted electronically through [MyTDEC Forms https://forms.tdec.tn.gov/](https://forms.tdec.tn.gov/))

GENERAL INFORMATION

This Storm Water Pollution Prevention Plan (SWPPP) is developed in accordance with the latest edition of the Tennessee Erosion and Sediment Control Handbook, National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges of Stormwater Associated with Construction Activities Tennessee General Permit No. TNR100000 (TCGP), and sound engineering practices. Palmer Engineering Co. (PEC) personnel involved with the development of this plan are licensed Professional Engineers (PE), and have completed both the *Fundamentals of Erosion Prevention and Sediment Control (TDEC Level 1)*, *Design Principles for Erosion and Sediment Control for Construction Sites (TDEC Level 2)* courses available from the State of Tennessee, and are additionally a Certified Professional in Erosion and Sediment Control (CPESC).

Per the **State of Tennessee NPDES Permit General Permit for Discharges of Storm Water Associated with Construction Activities (TNR100000)**, effective **October 1, 2021**, expiring on **September 20, 2026**, this plan and all attachments are hereby uploaded to the [MyTDEC Forms](#) online form portal, and electronically signed by the primary permittee and / or the general contractor / secondary permittee, if a contractor has been selected. Construction will not be initiated until issuance of a Notice of Coverage from TDEC and a local jurisdiction's Land Disturbance or grading permit. The permittee contact information is as noted below:

OWNER / DEVELOPER / PRIMARY PERMITTEE:

STATE OF TENNESSEE

TENNESSEE TECHNOLOGICAL UNIVERSITY

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GENERAL CONTRACTOR / SECONDARY PERMITTEE:

PROJECT OUT FOR BID

SOS CONTROL NUMBER:

ADDRESS

CITY, STATE, ZIP

CONTACT PERSON: TBA

PHONE: (XXX) XXX-XXXX

EMAIL:

Current versions of this Stormwater Pollution Prevention Plan (SWPPP), the Notice of Coverage (NOC), the Grading & Erosion Control Plans (as-modified throughout construction), all inspection reports, and the local jurisdiction's Land Disturbance or Grading Permit will be kept on the site in an accessible location for the duration of the project. These items will be available for the use of all site operators and site personnel involved with erosion and sediment controls, TDEC personnel, local regulators, and MS-4 personnel visiting the site. **Note this does not grant the general public access to the construction site or to these materials.**

It is the goal of this SWPPP to minimize the dislodging, suspension, and resuspension of soil in stormwater flows on this construction site, and to keep sediment that has been dislodged on this construction site. Construction activity is REQUIRED by state and federal laws and rules to be carried out in a manner in which stormwater discharges from this construction site shall not cause or contribute to a violation of a water quality standard per the Tennessee Water Quality Control Act of 1977 ([Tenn. Code Ann. § 69-3-101](#)), Tennessee Department of Environment and Conservation Rules Chapters 0400-40-03 and 0400-40-04, and the Federal Clean Water Act, including but not limited to the following:

- ✧ ***The prevention of any stormwater discharge which causes a condition in which visible solids, bottom deposits, or turbidity impair the usefulness of waters of the state for any of the uses designated for that water body;***
- ✧ ***Stormwater discharge shall have no distinctly visible solids, scum, foam, oily slick, the formation of slimes, bottom deposits, or sludge banks of such size or character as may be detrimental to fish and aquatic life;***
- ✧ ***Stormwater discharge must not contain total suspended solids, turbidity, or color in such amounts or character that will result in any objectionable appearance compared to the turbidity or color of the receiving water, considering the nature and location of the water;***
- ✧ ***Stormwater discharge must not contain pollutants in quantities that will be hazardous or otherwise detrimental to humans, livestock, wildlife, plant life, fish, or aquatic life in the receiving stream;***
- ✧ ***Solids or other materials removed by any sediment control treatment devices must be disposed of in a manner that prevents its entrance into or pollution of any surface or subsurface waters;***
- ✧ ***All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications (where applicable);***
- ✧ ***All control measures selected must be able to slow runoff so that rill and gully formation is prevented;***
- ✧ ***When steep slopes and/or fine particle soils are present at the site, additional physical or chemical treatment of stormwater runoff may be required;***
- ✧ ***If periodic inspections or other information indicates a control has been used inappropriately, or incorrectly, the permittee must replace or modify the control for relevant site situations;***
- ✧ ***Any point source authorized by this permit must achieve, at a minimum, the effluent limitations representing the degree of effluent reduction attainable by application of best practicable technology (BPT) currently available.***

COVERAGE UNDER THIS GENERAL PERMIT (PERMIT PART 1)

- ✧ **Stormwater Discharges Associated with Construction Activities (Permit Section 1.2.1)**
 - ✧ The Tennessee General NPDES Permit TNR100000 covers stormwater point source discharges associated with construction activities from areas where soil disturbing activities or associated construction support activities are located, that results in a soil disturbance of one (1) acre or greater. Soil disturbances less than one (1) acre are also covered if the construction activities

are part of a larger common plan or development or sale that contains at least one acre of cumulative soil disturbance.

- ✧ One or more site operators must maintain coverage under this permit until all portions of the site have been permanently stabilized.
- ✧ Construction stormwater point source discharges from Soil disturbances of less than one (1) acre also require coverage under the Tennessee General NPDES Permit TNR100000 if:
 - ✧ The TDEC Director determines the stormwater discharge from the site is causing, contributing to, or is likely to contribute to a violation of a state water quality standard;
 - ✧ The TDEC Director determines that the stormwater discharge is, or is likely to be a significant contributor of pollutants to waters of the state that are reasonably expected to cause or contribute to a violation of a water quality criteria or receiving stream designated use;
 - ✧ Changes in state or federal rules requiring sites of less than one (1) acre that are not part of a larger common plan of development or sale to obtain coverage.

✧ **Stormwater Discharges Associated with Construction Support Activities (Permit Section 1.2.2)**

- ✧ The Construction Support Activities are covered under this permit only if they are associated with a construction activity that is covered by this permit, meeting all of the following five (5) conditions:
 - ✧ The support activity is related to a construction activity that is covered under this permit;
 - ✧ The operator of the support activity is the same as the operator of the construction activity;
 - ✧ The support activity is not a commercial operation serving multiple unrelated construction projects by different operators;
 - ✧ The support activity does not operate beyond the completion of the construction activity of the last construction project it supports;
 - ✧ Support activities are identified in the Notice of Intent (NOI) and the Stormwater Pollution Prevention Plan (SWPPP). The appropriate erosion prevention and sediment controls and measure applicable to the support activity shall be described in a site-wide SWPPP covering all discharges from the support activity areas.
- ✧ Support activities may include but are not limited to the following:
 - ✧ concrete or asphalt batch plants;
 - ✧ equipment staging yards;
 - ✧ material storage areas;
 - ✧ excavated material disposal areas;
 - ✧ borrow areas.
- ✧ This permit does **not** authorize any process (dry weather) wastewater discharges from support activities.

✧ **Non-Stormwater Discharges Authorized by this Permit (Permit Section 1.2.3)**

- ✧ The following non-stormwater discharges are authorized by this permit:
 - ✧ Dewatering of collected storm water and ground water, including discharges from dewatering trenches and excavations when managed by appropriate controls, including weir tanks, dewatering tanks, gravity bag filters, sand media particulate filters, pressurized bag filters, cartridge filters, or other control units providing the treatment

level necessary to comply with the permit requirements prior to discharge, per permit section 4.1.3 Dewatering);

- ✧ Waters used to wash dust and soil from vehicles where detergents are not used and detention and/or filtering is provided before the water leaves site (wash removal of process materials such as oil, asphalt, or concrete is not authorized);
 - ✧ Water used to control dust in accordance with permit section 5.5.3.7;
 - ✧ Potable water sources, including waterline flushings, from which chlorine has been removed to the maximum extent practicable;
 - ✧ Routine external building washdown which does not use detergents or other chemicals;
 - ✧ Uncontaminated, non-turbid groundwater or spring water;
 - ✧ Foundation or footing drains where flows are not contaminated with pollutants (e.g. lubricants and fluids from mechanized equipment, process materials such as solvents, heavy metals, etc.);
 - ✧ Discharges from emergency fire-fighting activities;
 - ✧ Fire hydrant flushings;
 - ✧ Landscape irrigation;
 - ✧ Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used;
 - ✧ Uncontaminated air conditioning or compressor condensate.
- ✧ The above non-stormwater discharges are authorized by this permit under the following four (4) conditions:
- ✧ The non-stormwater component of the discharge is in compliance with permit section 5.5.3.12;
 - ✧ All authorized non-stormwater discharges must be free of sediment and other solids;
 - ✧ All authorized non-stormwater discharges must not cause erosion of soils;
 - ✧ All authorized non-stormwater discharges must not result in sediment or erosion impacts to receiving streams.
- ✧ **Other NPDES-Permitted Discharges (Permit section 1.2.4)**
- ✧ Discharges of stormwater or wastewater authorized by or in compliance with a different NPDES permit may be mixed with discharges authorized by this permit.
- ✧ **Limitations on Coverage (Permit Section 1.3)**
- ✧ Except for discharges from construction support activities (permit section 1.2.2) and non-stormwater discharges (permit section 1.2.3), all discharges covered by this permit shall be composed entirely of stormwater.
 - ✧ This permit does not authorize the following discharges (permit section 1.3):
 - ✧ Discharges from post-construction permanent stormwater management structures after final stabilization and coverage under this permit has been terminated;
 - ✧ Discharges mixed with non-stormwater, except as identified in permit section 1.2.4 and in compliance with section 5.5.3.12;
 - ✧ Discharges associated with construction activities that have been issued an individual permit (permit section 8.11);
 - ✧ Discharges threatening water quality;
 - ✧ Discharges into waters with unavailable parameters that would cause measurable degradation of water quality for the parameter that is unavailable or that would cause

additional loadings of unavailable parameters that are bio accumulative or have criteria below method detection levels;

- ✧ Discharges into Outstanding National Resource Waters, except activities conducted by, or on behalf of the National Park Service on its own lands;
- ✧ Discharges into Exceptional Tennessee Waters that cause more than a DE MINIMIS degradation of water quality for any available parameter;
- ✧ Discharges not protective of aquatic or semi-aquatic threatened and endangered species, species deemed in need of management or special concern species, or their critical habitat;
- ✧ Discharges from a new or proposed mining operation;
- ✧ Discharges into waters with an EPA-approved or established Total Maximum Daily Load (TMDL) for a pollutant, unless the SWPPP incorporates measures or controls consistent with the assumptions and requirements of the TMDL;
- ✧ Any discharge of stormwater or other fluids to groundwater via an improved sinkhole or injection well requires a TDEC Class V Underground Injection Control authorization by rule or an individual permit.

✧ **Notice of Coverage (NOC) (Permit Section 1.5.2)**

- ✧ Discharges under this permit are only authorized as of the effective date listed on the written Notice of Coverage (NOC) issued to the primary permittee.
- ✧ New operators (i.e. secondary permittees, contractors, etc.) under an existing permit are not issued a notice of coverage and are covered under the permit upon receipt of notification of permit coverage by TDEC. The permit records are updated with additional operators / permittees are published on TDEC's permit [DataViewer](#).

CONSTRUCTION AND DEVELOPMENT EFFLUENT GUIDELINES (PERMIT PART 4)

✧ **Erosion Prevention and Sediment Controls (Permit Section 4.1.1)**

- ✧ Erosion prevention and sediment control measures must be designed, installed and maintained to:
 - ✧ Control stormwater volume and velocity to minimize soil erosion in order to minimize pollutant discharges;
 - ✧ Control stormwater discharges, including both peak flow rates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
 - ✧ Minimize the amount of soil exposed during construction activity;
 - ✧ Minimize the disturbance of steep slopes;
 - ✧ Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
 - ✧ Provide and maintain natural buffers along streams and wetlands, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
 - ✧ Minimize soil compaction, unless the intended function of a specific area dictates that it be compacted (i.e. building pad, parking lot subgrade, etc.);

- ✧ Preserve topsoil, unless the intended function of a specific area dictates that the topsoil be disturbed or removed (i.e. building pad, parking lot, etc.), unless infeasible.
- ✧ **Water Quality Riparian Buffer Zone Requirements (Permit Section 4.1.2)**
 - ✧ Streams with available parameters for siltation shall preserve a 30-foot natural water quality riparian buffer zone adjacent to the receiving stream between the top of bank and the disturbed construction area. The 30-foot criteria can be established based on an average width basis with the minimum buffer zone width of 15-feet. Buffer zone averaging may be applied to both sides of the waterbody, but each side must be averaged independently. – **There are no Streams or Wetlands on or adjacent to the site.**
- ✧ **Dewatering (Permit Section 4.1.3)**
 - ✧ Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls. Appropriate controls include, but are not limited to:
 - ✧ weir tank;
 - ✧ dewatering tank;
 - ✧ gravity bag filter;
 - ✧ sand media particulate filter;
 - ✧ pressurized bag filter;
 - ✧ cartridge filter, or;
 - ✧ other control units providing the level of treatment necessary to comply with permit requirements.
- ✧ **Pollution Prevention Measures (Permit Section 4.1.4)**
 - ✧ The permittee must design, install, implement and maintain effective pollution prevention measures to minimize the discharge of sediment and other pollutants to:
 - ✧ Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water and other wash waters not containing soaps or solvents. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
 - ✧ Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to stormwater;
 - ✧ Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- ✧ **Prohibited Discharges (Permit Section 4.1.5)**
 - ✧ The following discharges are prohibited:
 - ✧ Wastewater from washout of concrete, unless managed by an appropriate control;
 - ✧ Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds, and other construction materials;
 - ✧ Fuels, oils, or other potential pollutants used in vehicle and equipment operation and maintenance;
 - ✧ Soaps or solvents used in vehicle and equipment washing.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS (PERMIT PART 5)

✧ SWPPP Modifications (Permit Section 5.4.1)

- ✧ The permittee must modify, update and recertify the SWPPP if any of the following conditions apply:
 - ✧ Whenever there is a change in the scope that would be expected to have a significant effect on the discharge of pollutants to the waters of the state and which has not otherwise been addressed in the SWPPP;
 - ✧ Whenever there is a change in chemical treatment methods, including the use of different treatment chemicals, different dosage or application rates, or different areas of application;
 - ✧ Whenever inspections or investigations by site operators or local, state, or federal officials indicate the SWPPP is proving ineffective in eliminating or significantly minimizing pollutants or is otherwise not achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activity;
 - ✧ Whenever any new operator who will implement a measure of the SWPPP must be identified (permit section 3.1.1);
 - ✧ Whenever it is necessary to include water quality protection measures as required by the applicable wildlife management agency intended to prevent a negative impact to a legally protected state or federally listed fauna or flora (or species proposed for such protection);
 - ✧ Whenever a Total Maximum Daily Load (TMDL) is developed for the receiving waters for a pollutant of concern (e.g., siltation).

✧ SWPPP Narrative (Permit Section 5.5.1)

✧ Description of Existing Conditions Prior to Construction Activities (Permit Section 5.5.1.a)

- ✧ The project area is currently a gravel parking lot located between N Willow Ave., N Whitney Ave., Wings Up Way and W 10th St, a portion of N Whitney Avenue, and the south edge of a portion of W 10th Street. The limits of disturbance for this project is 2.064 acres, and is covered with approximately 1.619 acres (78.43%) impervious (pavement, gravel, roof) area and 0.445 acres (21.57%) pervious areas. The site has approximately 3-4 feet of relief across the parking lot, sloping down generally from west to east. There is approximately 7-8 feet of relief from west to east down W 10th St.

✧ Description of Construction Activities (Permit Section 5.5.1.a)

- ✧ The project is currently a gravel parking lot located between N Willow Ave., N Whitney Ave., Wings Up Way and W 10th St, and a paved private street within the Tennessee Tech University campus. The proposed project consists of demolition of existing storm drain structures, reconstruction of a portion of N Whitney Ave., minimal cutting and filling to achieve subgrade elevations (1-3 feet), installation of new storm drainage structures, and future conduits for power and communications. Installation of conduits and bases for site lighting and license plate readers, installation of concrete curb & gutter, and full depth asphalt pavement. The site will also have installation of new concrete sidewalks and curb and gutter along the east side of N Whitney Avenue and the south side of W 10th Street. There is an adjacent project for the construction of a new residence hall and innovation center on the north end of this parking lot and the north side of W 10th Street, up to the south side of University Drive, which has already started construction. Specific

construction activities at the site include installation of sediment control measures, cutting and filling as necessary to bring the site to grade, installation of utility conduits and storm drainage infrastructure, installation of curbs and gutters, installation of sidewalks, paving, finish grading, landscaping, and final stabilization. Tree and Shrub installation are anticipated to occur in the months of September or October, after substantial completion and final stabilization.

✧ **Sequencing of Construction Activities (Permit Section 5.5.1.a)**

- ✧ Land-disturbing activity at the project site cannot begin until after the following items have been completed:
 - ✧ Receipt of the TDEC Notice of Coverage (NOC);
 - ✧ The receipt of the local authority having jurisdiction (AHJ) land disturbance or grading permit;
 - ✧ Posting of the above permits and this SWPPP document near the site construction entrance;
 - ✧ A pre-construction meeting with the general contractor and land disturbing sub-contractors is held.
- ✧ Installation of stage 1 (prior to grading activity) erosion & sediment controls including but not limited to:
 - ✧ The construction entrance/exit;
 - ✧ Weighted Sediment Tubes at the limits of disturbance and downhill side of disturbed areas;
 - ✧ Safety fence as necessary around the perimeter of the construction area to prevent access to the construction site;
 - ✧ Inlet protection on existing storm drain inlets;
 - ✧ Clearing will be kept to the minimum necessary to accomplish the grade work of this phase.
- ✧ Construction will begin by stripping and stockpiling the topsoil, cutting/filling as necessary to bring the site to grade, including import/export of material, trenching & installation of utilities, trenching & installation of site storm drainage, electric, and telephone services.
- ✧ Installation of stage 2 (intermediate phase erosion & sediment controls) including but not limited to:
 - ✧ Maintenance of construction entrance/exit;
 - ✧ Additional weighted sediment tubes at slopes;
 - ✧ Inlet protection at new storm drain inlets;
 - ✧ Outlet protection / velocity dissipation for concentrated flow areas;
 - ✧ Weighted sediment tubes;
 - ✧ Temporary soil stabilization.
- ✧ Where earth-disturbing activity has temporarily ceased, temporary stabilization will be applied within seven (7) days if the earth-disturbing activity will not resume within fourteen (14) days. The dates when major grading activities occur, the dates when construction activities temporarily cease on a portion of the site, and the dates when temporary stabilization measures are initiated will be recorded and maintained on the site as part of this SWPPP. Stabilization methods are outlined in the erosion and sediment control plans and details included in the appendices and as a part of the site construction plan set.

- ✧ Construction will continue with the installation of curb and gutters, sidewalks, and pavements.
- ✧ Finish grading, installation of topsoil, landscaping tree / shrub planting, and pervious area soil final stabilization. This includes the installation of the stage 3 (final stabilization) measures including but not limited to:
 - ✧ Installation of topsoil & soil amendments;
 - ✧ Planting of trees & shrubs;
 - ✧ Installation of permanent mulch stabilization of planting beds (wood mulch, pine straw, rock mulch, etc.);
 - ✧ Installation of permanent grass seeding with straw mulch, sodding, hydroseeding with bonded fiber matrix, etc.;
 - ✧ Installation of permanent grass seeding in combination with temporary rolled geotextile erosion control mats and / or permanent turf reinforcement mats;
 - ✧ Permanent stabilized outlet with rip-rap apron.
- ✧ Sediment will be removed from weighted sediment tubes, and all other sediment controls before the design capacity of the structure has been reduced by 33%. Litter, construction debris, and construction chemicals that could be exposed to storm water will be picked up at the end of each day, prior to anticipated storm events, or otherwise prevented from becoming a pollutant source in storm water discharges.
- ✧ After use, weighted sediment tubes, silt fences and other sediment control devices will be removed to otherwise prevent them from becoming a pollutant source in storm water discharges. Temporary measures that interfere with construction may be removed at the beginning of the workday, but must be replaced at the end of the workday.
- ✧ Permanent stabilization will be accomplished as soon as practicable after attainment of final grade, but no later than seven (7) days after attaining final grade. The dates when major grading activities occur, the dates when construction activities permanently cease on a portion of the site, and the dates when permanent stabilization measures are initiated will be recorded and maintained on the site as part of this SWPPP. Stabilization methods are outlined in the erosion and sediment control plans and details included in the appendices and as a part of the site construction plan set.

✧ **Site Area Estimates (Permit Section 5.5.1.b)**

- ✧ Total Site Area = 224.9 +/- acres
- ✧ Disturbed Area = 89,923 sq. ft. (2.064 acres) +/-

✧ **Description of Pre-developed Site Topography (Permit Section 5.5.1.c)**

- ✧ The site is located within the "COOKEVILLE WEST, TN" U.S.G.S. 7.5-Minute quadrangle map. The site has approximately 3-4 feet of relief across the parking lot, sloping down generally from west to east. There is approximately 7-8 feet of relief sloping down from west to east along W 10th St. The gravel parking lot has a rock lined ditch along the east side adjacent to North Whitney Ave. (except where the parking lot entrances are), with area drain catchbasins collecting the stormwater and connecting to the existing drainage system (part of the TTU MS-4 drainage system) on the east side of N Whitney Ave. The pre-developed outfall locations are the same as the post-developed outfalls (OF1 = N 36.1751 ° Latitude, W 85.5106 ° Longitude) (OF2 = N 36.1750 ° Latitude, W 85.5093 ° Longitude) (OF3 = N 36.1751 ° Latitude, W 85.5093 ° Longitude).
- ✧ Outfall #1 Drainage Area (OF1) = 3.83 acres
- ✧ Outfall #2 Drainage Area (OF2) = 1.63 acres

- ✧ Outfall #3 Drainage Area (OF3) = 0.99 acres

Pre-Developed Outfalls (Permit Section 5.5.1.c)				
Name of outfall	Outfall drainage area (acres)	Outfall coordinates	Receiving Waters impaired by siltation?	EPSC design storm
OF1	3.83	N 36.1750886°	No	2-year, 24 hour
		W 85.510574°		
OF2	1.63	N 36.174992°	No	2-year, 24 hour
		W 85.509264°		
OF3	0.99	N 36.175079°	No	2-year, 24 hour
		W 85.509252°		

✧ **Description of Post-developed Site Topography (Permit Section 5.5.1.c)**

- ✧ The site is located within the “COOKEVILLE WEST, TN” U.S.G.S. quadrangle map. The site has approximately 3-4 feet of relief across the parking lot, sloping down generally from west to east. There is approximately 7-8 feet of relief sloping down from west to east along W 10th St. The proposed parking lot generally slopes down from west to east, with a paved area slope between 1% and 5%. The west curb line along N Willow Ave. has been raised to work with the future grade of the widened North Willow Ave., a project currently under design by the Tennessee Department of Transportation (TDOT). The TDOT project is currently in the Right-of-way phase, and is anticipated to start construction in 2028-2029. The new east side grass strip between the parking area has a slope of 3:1 or flatter down from the parking lot approximately 18 inches to 2 feet to the west curb line of North Whitney Ave. The post-developed outfall locations are the same as the pre-developed outfalls (OF1 = N 36.1751 ° Latitude, W 85.5106 ° Longitude) (OF2 = N 36.1750 ° Latitude, W 85.5093 ° Longitude) (OF3 = N 36.1751 ° Latitude, W 85.5093 ° Longitude).
- ✧ Outfall #1 Drainage Area (OF1) = 3.83 acres
- ✧ Outfall #2 Drainage Area (OF2) = 1.63 acres
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Post-Developed Outfalls (Permit Section 5.5.1.c)				
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OF1	3.83	N 36.1750886°	No	2-year, 24 hour
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		W 85.509264°		
OF3	0.99	N 36.175079°	No	2-year, 24 hour
		W 85.509252°		

✧ **Soils Description (Permit Section 5.5.1.d)**

According to the *USDA Web Soil Survey for Putnam County, Tennessee, as obtained from the USDA NRCS Web Soil Survey, there are four (4) types of soils located on the site.* Information associated with these soil types are shown below:

USDA Web Soil Survey Data for Putnam County, Tennessee (USDA NRCS Web Soil Survey) (Permit Section 5.5.1.d)				
Soil Map Unit Name	Guthrie silt loam, 0 to 2 percent slopes, frequently ponded	Lawrence silt loam	Dickson silt loam, 2 to 5 percent slopes	Sango silt loam, 0 to 2 percent slopes
Soil Map Unit Symbol	Gs	Lm	Dk	Sa
Acreage of Site	0.0	1.1	1.2	0.5
Percentage of Site	1.6%	39.1%	41.3%	18.0%
Landform & Position	Depressions, toeslope, base slope	Flats, talf	Flats, shoulder, crest	Broad interstream divides, summit, base slope, interfluv
Parent Material	Noncalcareous loess and/or silty alluvium	Loess over loamy alluvium and/or residuum weathered from limestone	Silty loess over clayey residuum weathered from cherty limestone over clayey residuum weathered from limestone and/or clayey residuum weathered from siltstone	Loess over residuum weathered from cherty limestone
Hydric Soil?	Yes	No	No	No
Hydrologic Soil Group	C/D	D	C/D	C/D
"K" Factor	0.32	0.43	0.43	0.55
Soil pH	4.6	5.4	4.9	4.8
Wind Erodibility Index (tons/acre/year)	56	56	56	56
Unified Soil Classification	CL	CL	CH	CL
AASHTO Group Classification (Surface)	A-4	A-4	A-4	A-4

✧ **Runoff Description & Outfall Stabilization (Permit Section 5.5.1.e)**

- ✧ The pre-developed runoff coefficient "c" for this site, based on the "rational method" is 0.810. This is calculated based on a "c" for pervious (landscaped, grass) areas of 0.3, and a "c" for impervious (pavement, gravel, roof) areas of 0.95. The runoff post-development coefficient calculation is shown below:

$$\frac{(0.445)(0.3) + (1.619)(0.95)}{2.064} = 0.810$$

- ✧ The post-developed runoff coefficient "c" for this site, based on the "rational method" is 0.716. This is calculated based on a "c" for pervious (landscaped, grass) areas of 0.3, and a "c" for impervious (pavement, gravel, roof) areas of 0.95. The runoff post-development coefficient calculation is shown below:

$$\frac{(0.743)(0.3) + (1.321)(0.95)}{2.064} = 0.716$$

- ✧ The percentage of impervious area within the limits of disturbance before construction is approximately 78.43% (1.619 acres), while the percentage of pervious area within the limits of disturbance before construction is approximately 21.57% (0.445 acres). The percentage of impervious area within the limits of disturbance after construction is approximately 63.99% (1.321 acres), while the percentage of pervious area within the limits of disturbance after construction is approximately 36.01% (0.743 acres).
 - ✧ Within the disturbed area in its existing condition, the drainage sheet flows to a system of catch basins and pipe inlets through a storm sewer system within the Tennessee Tech University MS4. In the proposed conditions, this system is being replaced with additional and relocated catch basins and storm drain pipes that connect into the same storm sewer system at a point within the limits of the currently under construction Residence Hall/Innovation Center Project (near the same location as in the existing conditions).
- ✧ **Erosion Prevention and Sediment Control Plan (EPSC) (Permit Section 5.5.1.f)**
- ✧ The erosion prevention & sediment control plans as attached in the appendices provide the following required information at a minimum:
 - ✧ The boundaries of the construction area clearly outlined;
 - ✧ Drainage patterns;
 - ✧ Approximate slopes anticipated after major grading activities;
 - ✧ Areas of soil disturbance;
 - ✧ An outline of areas not to be disturbed;
 - ✧ The location of major structural and non-structural controls identified in the SWPPP;
 - ✧ The location where stabilization practices are expected to occur;
 - ✧ Streams (none on or adjacent to the site);
 - ✧ Sinkholes (none on or immediately adjacent, but in general vicinity of site);
 - ✧ Outfall locations intended for coverage.
- ✧ **Discharges Associated with Industrial Activity other than Construction Stormwater (Permit Section 5.5.1.g)**
- ✧ There are no anticipated discharges associated with industrial activity other than construction storm water.
- ✧ **Streams / Wetlands / ARAP / 401 Certification (Permit Sections 4.1.2, 5.5.1.h, & 6.4.2)**
- ✧ There was an adjacent stream and wetland, to the northeast of the project (TDEC Determination ID # 29644 and TDEC concurrence letter dated December 7, 2021. The wetland was approximately 0.12 acres, located at N 36.153397 degrees, W 85.629486 degrees. The stream was culverted, approximately 372 feet in length, starting at N 36.175114 degrees, W 85.509229 degrees, ending at N 36.176192 degrees, W 85.509015 degrees. According to the Hydrologic determination report, the stream / wetland was been part of the stormwater management system of Tennessee Tech University since the 1970's or earlier. Tennessee Tech University was issued an Individual ARAP permit by TDEC # NRS21.344, on March 3, 2022 to re-encapsulate the stream and fill the wetland. The work was completed and a Notice of Termination to the Secondary Operator

(Contractor) for the Engineering building project was issued by TDEC for CGP coverage on June 3, 2024 for permit # TNR179309

- ✘ There are no longer any stream or wetland buffer zones due to the encapsulation and filling of the adjacent wetland (TDEC or local)
- ✘ There are no alterations to streams or wetlands associated with this project
- ✘ There are no permits for Aquatic Resources Alteration Permit (ARAP), Section 401 Certification, or CORPS of Engineers Nationwide permits associated with this project
- ✘ As the existing site is previously developed and mostly impervious, and by walking the site, there were no visible indicators of flowing water or wetland type vegetation. According to the TDEC Water Resources Map Viewer, the TDEC Hydrologic Determinations Map Viewer, and the U.S. Fish & Wildlife Service National Wetlands Inventory mapper, there are no mapped streams or wetlands, nor any publicly available Hydrologic Determination reports showing streams or wetlands on the site, and the NRCS Web Soil Survey mapping only shows a small area of hydric soils in an existing paved area with steam utility vault at the east edge of the project's disturbed area, therefore there are no anticipated alterations that would require an Aquatic Resource Alteration Permit (ARAP), a Section 401 Certification, or a U.S. Army Corps of Engineers permit. The adjacent wetland and stream that were identified adjacent to this project under TDEC Hydrologic Determination #29644 has been filled and re-encapsulated through TDEC Individual ARAP permit # NRS21.344.

✧ **Receiving Waters (Permit Sections 5.5.1.i, 5.5.1.j, 5.5.1.k, 5.5.1.l)**

- ✘ East Blackburn Fork from Blackburn Fork to headwaters (TN05130106008_200) is the receiving water from all three site outfalls, located approximately 5,500 feet northeast of the project, near Jere Whitson Park. The receiving water is not listed as having unavailable parameters, and is not listed as an exceptional Tennessee Water or Outstanding National Resource Water.
- ✘ Drainage from the site is conveyed through surface flow and storm drains to three (3) outfalls, each of which is a catch basin within the Tennessee Tech University MS-4 system. The receiving water is not included on the list of Exceptional Tennessee Waters or Outstanding National Resource Waters. According to the TDEC Map viewer, the site area is also not located within a drainage area with unavailable parameters for sediment; therefore, erosion control items have been designed for the 2-year, 24 hr. storm.

Receiving Waters (Permit Section 5.5.1.i, 5.5.1.j, 5.5.1.k, & 5.5.1.l)						
Receiving Water Name	Outfall # draining to the receiving water	Does Receiving Water have Unavailable Parameters for Siltation?	Is Receiving Water an Exceptional Tennessee Water?	Receiving Water Buffer Zone Width (if applicable)	Distance from Outfall to Receiving water (feet)	Receiving water coordinates (Lat/Long, Tennessee State Plane)
East Blackburn Fork from Blackburn Fork to headwaters (TN05130106008_200)	OF1	No	No	N/A	5,217	N 36.187656°
						W 85.502030°
East Blackburn Fork from Blackburn Fork to	OF2	No	No	N/A	5,075	N 36.187656°

headwaters (TN05130106008_200)						W 85.502030°
East Blackburn Fork from Blackburn Fork to headwaters (TN05130106008_200)	OF3	No	No	N/A	5,042	N 36.187656° W 85.502030°

✧ **Planting of Vegetation Cover (Temporary & Permanent Seeding) (Permit Section 5.5.1.n)**

- ✧ The contractor is responsible for establishing temporary and permanent vegetative cover over all disturbed areas not covered by impervious surfaces.
- ✧ Vegetation establishment should be avoided during December-January and July-August if possible.
- ✧ If contractor elects to establish vegetation during the winter or hot / dry months, he / she is responsible for watering and protecting said vegetation from the elements.

Temporary Seeding (Annual Grasses) (Permit Section 5.5.1.n)					
Seed mix	% of Mix	Planting Region	Planting Dates	Planting rate (lb/acre live seed)	Soil Amendments
Balboa Rye Italian Rye	66% 33%	East TN	Feb 1-May 1	120	2,000 lb/acre lime 750 lb/acre 10-10-10 fert 4,000 lb/acre straw
		Middle TN	Jan 1 – May 1		
		West TN	Dec 1 – Apr 15		
Summer oats Brown top millet	66% 33%	East TN	May 15 - Aug 15	90	2,000 lb/acre lime 750 lb/acre 10-10-10 fert 4,000 lb/acre straw
		Middle TN	May 1 – Aug 15		
		West TN	Apr 15 – Aug 15		
Spring Oats Winter Wheat	50% 50%	East TN	Aug 15 – Dec 15	60	2,000 lb/acre lime 750 lb/acre 10-10-10 fert 4,000 lb/acre straw
		Middle TN	Aug 15 -Dec 30		
		West TN	Aug 15 – Dec 30		

Permanent Seeding (Perennial Grasses) (Permit Section 5.5.1.n)					
Seed mix	% of Mix	Planting Region	Planting Dates	Planting rate (lb/acre live seed)	Soil Amendments
Turf Type Tall Fescue Blend (The Hogan Blend, The Hogan Seed Company as basis of design)	100%	East TN	Sep 1 – Nov 30 Feb 1 – May 1	350	2,000 lb/acre lime 750 lb/acre 10-10-10 fert 4,000 lb/acre straw
		Middle TN	Sep 1 – Nov 30 Feb 1 – May 1		
		West TN	Sep 1 – Nov 30 Feb 1 – April 15		

Fine Fescue (Hogan's Links Mix, The Hogan Seed Company, as basis of design) Full Shade	100%	East TN	Sep 1 – Nov 30 Feb 1 – May 1	200	2,000 lb/acre lime 750 lb/acre 10-10-10 fert 4,000 lb/acre straw
		Middle TN	Sep 1 – Nov 30 Feb 1 – May 1		
		West TN	Sep 1 – Nov 30 Feb 1 – April 15		

Permanent Seeding (Native mixes) (for low maintenance areas where designated) (Permit Section 5.5.1.n)					
Seed mix	% of Mix	Planting Region	Planting Dates	Planting rate (lb/acre live seed)	Soil Amendments
Browntop millet Purpletop Little bluestem Virginia wild rye Black-eyed susan Partridge pea Greyheaded coneflower	42% 15% 15% 15% 5% 5% 3%	Middle TN	Feb 15 – May 30 Aug 15 – Oct 30	50	2,000 lb/acre lime 750 lb/acre 10-10-10 fert 4,000 lb/acre straw

Permanent Sodding (Perennial Grasses) (Permit Section 5.5.1.n)			
Sod Type	Planting Region	Planting Dates	Soil Amendments
Turf Type Tall Fescue	East TN	Aug 15 – May 15	2,000 lb/acre lime 750 lb/acre 10-10-10 fert
	Middle TN	Aug 15 – May 15	
	West TN	Aug 30 – May 1	

✧ **SWPPP and EPSC Plans (Permit Section 5.5.2)**

- ✧ Site specific three (3) stage Erosion Prevention and Sediment Control plans have been developed for this project. Copies of the Existing Conditions Plans, Grading and Drainage Plans, Detail Sheets, and Landscape plans are also attached. The plans are located in the appendices at the end of this document.
- ✧ The first stage of erosion prevention and sediment control can be characterized by mobilization and installation of the prior to grading erosion and sediment control measures. In this stage, a stabilized construction entrance / exit will be established. All construction traffic will be required to use this access point. The stabilized construction entrance/exit will minimize the transport of sediment from the construction site onto surrounding roads within the immediate vicinity of the development. Once a stabilized entrance / exit has been built, perimeter erosion controls, including but not limited to construction fencing, inlet protection, and weighted sediment tubes can be installed. These controls and details are shown on the stage I erosion control plan and erosion control details included in the appendix.

- ✧ The second stage of erosion prevention and sediment control is an intermediate stage shown during the course of construction. Measures to be installed during this stage include a concrete washout area, which must be used once concrete pours begin. As storm drainage systems are installed, inlet protection must be installed, since the drainage for the site connects to an existing drainage pipe system, no outlet protection is required. Additional weighted sediment tubes will be installed as the site drainage patterns are modified.
- ✧ Weighted sediment tubes / wattles shall be limited to 1/4 acre of drainage area per 100 LF of tube / wattle. Tube diameter and spacing shall be based on grade and length of slope to be protected.
- ✧ The third stage of erosion prevention and sediment control is for final stabilization of disturbed areas. The contractor shall sod all disturbed areas not otherwise stabilized with landscape beds, unless otherwise noted on the stage III erosion control plan included in the appendix. The contractor must begin temporarily or permanently stabilizing areas as soon as possible when construction has temporarily or permanently ceased. Stabilization must be completed within fourteen (14) days when construction activities have temporary or permanently ceased. Areas with slopes 3:1 or greater must be temporarily or permanently stabilized within seven (7) days of ceasing construction activity in these areas. North American Green DS150, S150, S150BN, SC150BN, SC150, or approved equal erosion control matting, installed per manufacturer specifications, may be installed for temporary cover on slopes up to 2:1 as required due to time of year and longevity needed (60 days to 24 months). These mats may additionally be used instead of mulch to provide cover to establish permanent seeded areas. Where hydroseeding / Bonded Fiber Matrix is specified, use Profile products HP-FGM for permanent hydroseeding / BFM, and ProMatrix EFM, or Hydro-Blanket BFM for temporary hydroseeding / BFM, or approved equals. Permanent sod and landscape beds should be installed per the attached plans.
- ✧ In all stages of this project, any soil / sediment transported onto adjacent roadways must be removed as soon as possible by street sweeping or other means. If sediment escapes the permitted area, off-site accumulations of sediment that have not reached a stream must be removed at a frequency sufficient to minimize offsite impacts (e.g., fugitive sediment that has escaped the construction site and has collected in a street must be removed so that it is not subsequently washed into storm sewers and streams by the next rain and/or so that it does not pose a safety hazard to users of public streets). If sediment escapes and enters a stream or wetland, remediation should not be started without written authorization from TDEC.
- ✧ **General Criteria and Requirements (Permit Section 5.5.3.1)**
 - ✧ The erosion prevention controls shall be designed to eliminate to the maximum extent practicable the dislodging and suspension of soil in water. Sediment controls shall be designed to retain mobilized sediment on site to the maximum extent practicable.
 - ✧ All control measures must be properly selected, installed and maintained in accordance with the manufacturer's specifications and/or good engineering practices. If periodic inspections or other information indicate a control has been used inappropriately, or incorrectly, the permittee must replace or modify the control.
 - ✧ If sediment escapes the permitted area, off-site accumulations that have not reached a stream must be removed at a frequency sufficient to minimize off-site impacts (e.g., sediment that has escaped a construction site and collected in a street must be removed so that it does not subsequently wash into storm sewers and streams during the next rain or so that it does not pose a safety hazard to users of public streets). Permittees shall not initiate remediation or restoration of a stream without receiving prior authorization from the division. This permit does

not authorize access to private property. Arrangements concerning the removal of sediment on adjoining property must be settled by the permittee and the adjoining landowner.

- ✧ Sediment must be removed from sediment traps, silt fences, sediment basins and other sediment controls when design capacity has been reduced by 33%.
- ✧ Erodible material storage areas (e.g., overburden and stockpiles of soil) and borrow pits that are used primarily for the permitted project are considered a part of the site and shall be identified on the NOI, addressed in the SWPPP and included in the fee calculation. TDOT projects shall be addressed in the Waste and Borrow Manual per the Statewide Stormwater Management Plan (SSWMP).
- ✧ Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 14 days prior to commencement of grading or earth moving activities unless the area is subsequently temporarily or permanently stabilized.
- ✧ Clearing and grubbing must be held to the minimum necessary for grading and equipment operation. Existing vegetation at the site shall be preserved to the maximum extent practicable.
- ✧ Construction must be sequenced to minimize the exposure time of graded or denuded areas. The sequencing is to be determined by the contractor.
- ✧ EPSC measures must be in place and functional before earth moving operations begin and must be constructed and maintained throughout the construction period stages as appropriate. Temporary measures may be removed at the beginning of the workday but must be replaced at the end of the workday.
- ✧ Off-site vehicle tracking of sediment and the generation of dust shall be minimized. The stabilized construction entrance / exit shall be used to reduce the tracking of mud and dirt onto public roads by construction vehicles.

✧ **Stabilization Practices (Permit Section 5.5.3.4)**

- ✧ Permanent stabilization practices used on this project are a combination of asphalt pavement, concrete pavement, permanent seeding with mulch, permanent sod, permanent mulched tree beds, and permanent mulched shrub beds. Existing street trees along Willow Ave. are being preserved by tree protection fencing. Permanent seeding and sod are anticipated to be installed in early August 2026, with significant watering to keep the sod alive.
- ✧ Temporary stabilization practices used on this project are few, as the construction schedule is only 3 months, to include temporary seeding and installation of temporary erosion control mats, these items must be installed when the areas will not be worked within the next 14 days.

✧ **Structural Practices (Permit Section 5.5.3.5)**

- ✧ The majority of the disturbed project limits are impervious or thick, compacted gravel layers, therefore only a couple different types of structural practices are used:
 - ✧ Weighted Sediment Tubes
 - ✧ Storm Drain Inlet Protection

✧ **Stormwater Management (Permit Section 5.5.3.6)**

- ✧ Storm water runoff controls and BMP's required to be implemented on this site are as follows:
 - ✧ Weighted Sediment Tubes
 - ✧ Construction entrance/exit
 - ✧ Inlet protection (see details)
 - ✧ Energy dissipation (Rip Rap aprons)
 - ✧ Concrete Washout Area

- ✧ Slope Tracking
- ✧ Permanent Sod
- ✧ Permanent Seeding/mulching
- ✧ Temporary Seeding/mulching
- ✧ Reducing the time of soil exposure to minimum required to complete work
- ✧ Permanent landscaping on all disturbed areas
- ✧ The nature of stormwater runoff and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features are accounted for in the design of stormwater runoff controls used on this project site. Stormwater controls must be designed to control stormwater volume, velocity, and peak flow rates to minimize discharges of pollutants in stormwater, as well as minimizing channel and streambank erosion at discharge points.
- ✧ The soil type and range of soil particle sizes expected to be present on the site are included in the soil description section above, permit section 5.5.1.d.
- ✧ **Other Items needing control (Permit Section 5.5.3.7)**
 - ✧ No solid materials, including building materials shall be placed in waters of the state, except as authorized by a section 404 permit and/or ARAP permit.
 - ✧ Litter, construction debris, and construction chemicals exposed to stormwater shall be picked up prior to anticipated storm events or before being carried off the site by wind (e.g., forecasted by local weather reports), or otherwise prevented from becoming a pollutant source for stormwater discharges (e.g., daily pick-up, etc.). After use, materials used for erosion prevention and sediment control (such as silt fence) should be removed and properly disposed of or otherwise prevented from becoming a pollutant source for stormwater discharges.
 - ✧ Portable restroom facilities shall be placed at a location designated by the site superintendent and marked in the on-site SWPPP. Such location shall be at least 100 feet from any water body (stream, wetland, etc.) and at least 60 feet from any storm drain inlet or perimeter erosion or sediment control. Portable restroom facilities shall be anchored to prevent overturning due to wind.
 - ✧ Vehicle Fueling, fluid fills & on-site fuel / fluid tanks
 - ✧ All fueling of equipment and vehicles on-site will be conducted at a location designated by the site superintendent and marked in the on-site SWPPP. This location shall be at least 100 feet from any water body (stream, wetland, etc.) and at least 60 feet from any storm drain inlet or perimeter erosion or sediment control.
 - ✧ All fueling and filling of any equipment and vehicle fluids shall use drip pans to contain potential spills. Any spillage will be cleaned up immediately. Contaminated soils will be placed on heavy plastic and covered or placed into approved containers to prevent contact with precipitation or stormwater. Any contaminated soils will be disposed of at the nearest Hazardous Waste Disposal Center, in accordance with federal, state, and local regulations.
 - ✧ All fuel / fluid tanks stored on site will be placed within a secondary containment area in a location designated by the site superintendent and marked in the on-site SWPPP. All fuel / fluid tanks shall be located at least 100 feet from any water body (stream, wetland, etc.) and at least 60 feet from any storm drain inlet or perimeter erosion or sediment control.
 - ✧ Smaller quantities of oils, vehicle fluids, paints, and solvents will be stored in the construction trailer or other enclosed area where they will not be exposed to storm water.
 - ✧ Any spill in excess of one (1) gallon will be reported to the site superintendent.

- ✧ Concrete trucks will wash out **CHUTES ONLY** at a washout area designated by the site superintendent, and marked in the on-site SWPPP.
 - ✧ Any excess concrete material remaining in the truck will either be disposed of at the concrete batch plant disposal area, or shall be poured in forms, or otherwise poured in locations on-site that are protected from becoming mobilized by storm water, then broken up and used as fill or for other purposes as deemed necessary by the general contractor and approved by the geotechnical engineer.
- ✧ Each sub-contractor is responsible for providing litter control for trash generated by their crew.
 - ✧ At a minimum, litter shall be picked up at the end of each day and placed in a suitable container for removal from the site.
 - ✧ A dumpster for garbage shall be placed in a location designated by the site superintendent and marked in the on-site SWPPP, and is limited to garbage and paper trash only.
- ✧ Empty paint cans will not be washed out on site and will be removed from the site by the painters and disposed of in accordance with federal, state and local regulations.
 - ✧ Empty paint cans from water-based paints may be kept in a covered location, allowed to dry out and disposed of in the construction debris “roll-off” dumpsters once the inside of the paint cans are dry.
- ✧ Oil cans, used oil and filters will be contained and disposed of by the contractor by taking them to the nearest Hazardous Waste Disposal Center.
- ✧ **Site Assessments (Permit Section 5.5.3.8)**
 - ✧ Site assessments shall be performed covering the entire disturbed area for each outfall draining ten (10) or more acres within 30 days of construction commencing at each portion of the site that drains the qualifying acreage.
 - ✧ The drainage area for Outfall #1 (OF1) is 3.83 acres, less than 10 acres, therefore a site assessment at Outfall #1 (OF1) is not required by the permit.
 - ✧ The drainage area for Outfall #2 (OF2) is 1.63 acres, less than 10 acres, therefore a site assessment at Outfall #2 (OF2) is not required by the permit.
 - ✧ The drainage area for Outfall #3 (OF3) is 0.99 acres, less than 10 acres, therefore a site assessment at Outfall #3 (OF3) is not required by the permit.
- ✧ **Inspections (Permit Sections 5.5.3.9 & 5.5.3.11)**
 - ✧ Inspections shall be performed to insure proper installation, maintenance, and effectiveness of erosion prevention and sediment controls (EPSCs).
 - ✧ Inspections shall be performed by qualified inspectors as noted below.
 - ✧ Inspections shall be performed at a minimum of at least twice every calendar week, at least 72 hours apart (typical schedules are Monday/Thursday or Tuesday/Friday).
 - ✧ Initial inspections shall indicate if all EPSCs have been installed as designed in the approved SWPPP and EPSC plans.
 - ✧ If EPSC measures have not been installed correctly, provide necessary measures needed to repair / replace EPSC measures so that they meet the design specifications.
 - ✧ Where sites or portion(s) of construction sites have been temporarily stabilized, such inspection only has to be conducted once per month until construction activity resumes.
 - ✧ Changes in inspection frequency must be documented in the on-site SWPPP.
 - ✧ Inspection requirements do not apply to definable areas that have been permanently stabilized.

- ✧ TDEC reserves the right to require more frequent inspections if deemed necessary to ensure permit compliance.
- ✧ The following areas shall be inspected as the minimum standard:
 - ✧ Disturbed areas of the construction site that have not been permanently stabilized:
 - ✧ Inspect for evidence or potential for pollutants entering the site's drainage system;
 - ✧ Observe EPSC measures to ensure they are operating correctly;
 - ✧ Areas used for storage of materials that are exposed to precipitation;
 - ✧ Inspect for evidence or potential for pollutants entering the site's drainage system;
 - ✧ Observe EPSC measures to ensure they are operating correctly;
 - ✧ Structural control measures;
 - ✧ Observe structural measures to ensure they are installed and operating correctly;
 - ✧ Each site outfall location.
 - ✧ Inspect to determine whether EPSC measures are effectively preventing sediment discharges off-site or impacts to receiving waters;
 - ✧ Where discharge locations are inaccessible, nearby downstream locations shall be inspected.
 - ✧ Locations where vehicles enter or exit the site;
 - ✧ Inspect for evidence of off-site sediment tracking;
- ✧ 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 seven (7) days after the need is identified.
- ✧ Based on the results of the inspection, the site description and pollution prevention measures identified in this SWPPP shall be revised as appropriate. Revisions shall be made no later than seven (7) days following the inspection. Any modifications to pollution prevention measures shall be implemented as soon as practicable, but no later than 14 days following the inspection.
- ✧ All Inspections shall be documented on the TDEC General NPDES Permit for Stormwater Discharges from Construction Activities (CGP) Construction Stormwater Inspection Certification (Inspection Form) or an alternative form if the contents and inspection certification language are equivalent and upon written approval from TDEC. Alternative inspection forms shall include the following items:
 - ✧ Scope of the inspection
 - ✧ Printed name, title, signature, and credentials of the inspector
 - ✧ Date of the inspection
 - ✧ Current Weather Conditions and Rainfall amounts
 - ✧ Review of on-site SWPPP documents
 - ✧ Major observations concerning implementation of the SWPPP
 - ✧ Any locations of discharged sediment or other pollutants, or any failures of control devices that were not adequate for the situation
 - ✧ Any variations from the approved construction plans or specifications
 - ✧ Any violations that exist
 - ✧ Certification must be executed by a person who meets the signatory requirements of permit section 8.7.2 of the Tennessee General NPDES Permit No. TNR100000 - Stormwater Discharges from Construction Activities.
- ✧ Inspection reports must be maintained on site and made available to TDEC within ten (10) days of the request. All inspection forms must contain the printed name and signature of the inspector

and the certification must be executed by a person who meets the signatory requirements of permit section 8.7.2 of the Tennessee General NPDES Permit No. TNR100000 - Stormwater Discharges from Construction Activities.

- ✧ The inspector shall accurately document site conditions in their reports. Falsifying inspection records, other documents, or failure to complete inspection documentation shall result in a violation of this permit and any other applicable acts or rules.
- ✧ The inspector must maintain a rain gauge on site with a log of daily rainfall readings, preferably taken at the same time each day. Alternatively, a reference site may be used for daily precipitation records, but it must be within a one (1) mile radius of the site, and the contractor is responsible for logging the rainfall amounts on a daily basis. The Tennessee Tech Earth Sciences Department maintains an automated Weather Station on the roof of Kittrell Hall, located approximately 2,200 feet from the project location. The contractor may use this weather station as a reference site for the project. The [Kittrell Hall Weather Station](https://www.tnitech.edu/cas/earth/weather-station.php) current and archived data may be found from Tennessee Tech's website at (<https://www.tnitech.edu/cas/earth/weather-station.php>) or by direct link to [Weather Underground](https://www.wunderground.com/dashboard/pws/KTNCOOKE34) at <https://www.wunderground.com/dashboard/pws/KTNCOOKE34>.
- ✧ If by inspection, the controls are correctly installed and maintained, but do not provide an adequate level of protection, Palmer Engineering Company will revise this SWPPP and/or the Erosion and Sediment Control plans. Palmer Engineering will make these revisions within seven (7) days of notification. The inspector should note that the permit requires the revisions be made within seven (7) days following the inspection, therefore it is upon the site inspector to communicate the in-adequacy to Palmer Engineering Company in a timely matter to ensure the site remains in compliance with the permit.
- ✧ The contractor will implement any revisions made to the SWPPP or the Erosion and Sediment Control Plans as soon as practicable, but no later than fourteen (14) days following the inspection.

✧ **Inspector Qualifications (Permit Section 5.5.3.10)**

- ✧ Inspectors for twice weekly inspections must possess one of the following credentials:
 - ✧ A person with a valid certification from the TDEC "Level I - Fundamentals of Erosion Prevention and Sediment Control" course;
 - ✧ A licensed professional engineer or landscape architect registered in the state of Tennessee;
 - ✧ A Certified Professional in Erosion and Sediment Control (CPESC); or
 - ✧ A person with a valid certification from the TDEC "Level II – Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.
- ✧ A copy of the inspector's qualifications shall be added to the on-site SWPPP.

✧ **Pollution prevention measures for non-stormwater discharges (Permit Section 5.5.3.12)**

- ✧ Dewatering of collected storm water and ground water, including discharges from dewatering trenches and excavations:
 - ✧ Utilize pressurized dewatering oil / sediment bag installed on stable surface;
 - ✧ Pump to stabilized outlet in sediment basin;
 - ✧ gravity oil / sediment filter bags;
- ✧ Waters used to wash dust and soil from vehicles where detergents are not used:
 - ✧ Collect in low area and pump through pressurized dewatering oil / sediment bag installed on stable surface;
 - ✧ Gravity flow through stabilized channel to sediment basin;

- ✧ Discharge through gravity oil / sediment filter bag;
- ✧ Water used to control dust:
 - ✧ Apply in mists at rates that do not produce runoff;
- ✧ Potable water sources, including waterline flushings:
 - ✧ Pipe to stabilized outlet;
 - ✧ Use diffuser on outlet to stabilized surface;
 - ✧ Use dechlorinating diffuser to stabilized surface;
- ✧ Routine external building washdown which does not use detergents or other chemicals;
 - ✧ Collect in low area and pump through pressurized dewatering oil / sediment bag installed on stable surface;
 - ✧ Gravity flow through stabilized channel to sediment basin;
 - ✧ Discharge through gravity oil / sediment filter bag;
- ✧ Uncontaminated, non-turbid groundwater or spring water:
 - ✧ Collect in low area and pump through pressurized dewatering oil / sediment bag installed on stable surface;
 - ✧ Gravity flow through stabilized channel to sediment basin;
 - ✧ Discharge through gravity oil / sediment filter bag;
- ✧ Foundation or footing drains where flows are not contaminated with pollutants (e.g. lubricants and fluids from mechanized equipment, process materials such as solvents, heavy metals, etc.):
 - ✧ Discharge to grade at stabilized outlet;
 - ✧ Connect to storm drain structure;
- ✧ Discharges from emergency fire-fighting activities:
 - ✧ Collect in low area and pump through pressurized dewatering oil / sediment bag installed on stable surface;
 - ✧ Gravity flow through stabilized channel to sediment basin;
 - ✧ Discharge through gravity oil / sediment filter bag;
- ✧ Fire hydrant flushings:
 - ✧ Pipe to stabilized outlet with diffuser;
 - ✧ Use diffuser on outlet to stabilized surface;
- ✧ Landscape irrigation:
 - ✧ Limit watering to rate that does not produce runoff;
- ✧ Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used:
 - ✧ Collect in low area and pump through pressurized dewatering oil / sediment bag installed on stable surface;
 - ✧ Gravity flow through stabilized channel to sediment basin;
 - ✧ Discharge through gravity oil / sediment filter bag;
- ✧ Uncontaminated air conditioning or compressor condensate:
 - ✧ Discharge to grade at stabilized outlet.

Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 14 days prior to grading or earth moving unless the area is seeded and/or mulched or other temporary cover is installed.

Clearing and grubbing must be held to the minimum necessary for grading and equipment operation. Existing vegetation at the site should be preserved to the maximum extent practicable.

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating or other earth disturbing activities have temporarily or permanently ceased on any portion of the site, and will not resume for a period exceeding 14 calendar days. Soil stabilization (temporary or permanent) of those disturbed areas must be completed as soon as possible, but not later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Areas with slopes 3:1 or greater must be temporarily or permanently stabilized within 7 days of ceasing construction activity in these areas.

Erosion prevention and sediment control measures must be in place and functional before earth moving operations begin, 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.

SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS (PERMIT PART 6)

✧ Releases in Excess of Reportable Quantities (Permit Section 6.1)

- ✧ If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the contractor will immediately notify the National Response Center (NRC) (800-424-8802); as well as the TDEC Environmental Field Office with jurisdiction over the project (1-888-891-8332).
- ✧ A database of Hazardous Materials can be found at <https://cameochemicals.noaa.gov/>
 - ✧ The above database provides response information, including fire & explosion hazards, health hazards, firefighting techniques, cleanup procedures, protective clothing, chemical properties, and chemical reactivity.
- ✧ The contractor shall also notify Palmer Engineering Company via phone at (615) 297-8957 and via email at pecnash@palmernet.com and rharper2@palmernet.com. The contractor (with the assistance of Palmer Engineering and at the contractor's expense) must submit a report (a copy of which will be added to the field version of the SWPPP) to the local Environmental Field Office within 14 days of knowledge of the release that includes the following information:
 - ✧ Type of material and estimated amount of material released;
 - ✧ The date of the release;
 - ✧ Circumstances leading to the release;
 - ✧ Actions taken to mitigate the effects of the release, and;
 - ✧ Steps taken to minimize the chance of future occurrences.
- ✧ Palmer Engineering Company will review and prepare a revision to this SWPPP which identifies measures to be used by the contractor to prevent reoccurrences of the release and response mechanisms in case of future releases (at the contractor's expense).

✧ Spills (Permit Section 6.2)

- ✧ This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

✧ Violation of water quality standards (Permit Section 6.3.1)

- ✧ Storm Water discharges shall not contribute to a violation of water quality criteria per the Water Quality Act of 1977 ([Tenn. Code Ann. § 69-3-101](#)) and TDEC rules Chapter 0400-40-03 General Water Quality Criteria.

- ✧ Storm Water discharges shall not degrade the existing uses of any surface water established under the Water Quality Act of 1977 ([Tenn. Code Ann. § 69-3-101](#)) and TDEC rules Chapter 0400-40-04 Use Classifications for Surface Waters.
- ✧ **Discharge Quality (Permit Section 6.3.2)**
 - ✧ Construction activities carried out in the manner required by this permit shall be considered in compliance with TDEC rules Chapter 0400-40-03-.03;
 - ✧ Stormwater discharges shall have no distinctly visible solids, scum, foam, oily slick or the formation of slimes, bottom deposits, or sludge banks of such size or character as may be detrimental to fish and aquatic life;
 - ✧ Storm Water discharges must not contain total suspended solids, turbidity, or color in such amounts or character that will result in any objectionable appearance compared to the turbidity or color of the receiving water, considering the nature and location of the water;
 - ✧ Stormwater discharges shall not contain pollutants in quantities that will be hazardous or otherwise detrimental to humans, livestock, wildlife, plant life, fish, or aquatic life in the receiving stream;
 - ✧ Solids or other materials removed by any sediment control treatment devices must be disposed of in a manner that prevents its entrance into or pollution of any surface or subsurface waters.
- ✧ **Stormwater Discharge into Waters with Unavailable Parameters or Exceptional Tennessee Waters (Permit Section 6.4)**
- ✧ **SWPPP / BMP Requirements (Permit Section 6.4.1)**
 - ✧ The site area is not located within a drainage area or discharges to a stream with unavailable parameters for sediment, according to the TDEC Map viewer.
 - ✧ According to the TDEC list of Known Exceptional Tennessee Waters and Outstanding National Resource Waters, the site does not discharge into a known Exceptional Tennessee water or Outstanding National Resource Water.
 - ✧ Erosion and sediment control measures for this site have been designed for the 2-year, 24-hour storm event, and the provisions of Permit Sections 6.4.1 and 6.4.2 are not applicable.

RETENTION, ACCESSIBILITY AND SUBMISSION OF RECORDS (PERMIT PART 7)

- ✧ **Documents (Permit Section 7.1)**
 - ✧ The primary permittee shall retain copies of all records, for a period of at least three years from the date the NOT is submitted to TDEC (confirmation of delivery date is required), including but not limited to the following:
 - ✧ Storm Water Pollution Prevention Plan (SWPPP);
 - ✧ All reports and inspections required by Tennessee General Permit No. TNR100000 Storm Water Discharges from Construction Activities;
 - ✧ Records of all data used to complete the NOI and NOT
- ✧ **Accessibility and Retention of Records (Permit Section 7.2)**
 - ✧ The permittee shall maintain the following items / information at a central location on-site (or other location accessible to TDEC and all operators or others having responsibilities under the SWPPP / Permit) from the commencement of construction to the date of termination of permit coverage:

- ✧ The SWPPP as modified throughout construction, and;
 - ✧ A copy of the permit.
- ✧ **Posting Information at the Construction Site (Permit Section 7.2.1)**
- ✧ The permittee shall post a sign which must be maintained in a legible condition near the main construction entrance of the site visible to the public with the following information:
 - ✧ a copy of the Notice of Coverage (NOC) with the NPDES permit tracking number for the construction project;
 - ✧ a name or company name, e-mail address (if available), telephone number and address of the project site owner / operator, or a local contact person;
 - ✧ the location of the on-site SWPPP and permit;
 - ✧ The permit, nor posting of this information does not grant permission to the public to trespass on the construction site for any reason, nor does it require a permittee to allow the public access to the construction site for any reason.
 - ✧ The permittee shall maintain the following items / information at an appropriate location on-site (or other location accessible to TDEC and all operators or others having responsibilities under the SWPPP / Permit) from the commencement of construction to the date of termination of permit coverage:
 - ✧ A rain gauge;
 - ✧ An accurate rainfall record;
 - ✧ A copy all required inspection reports;
 - ✧ Documentation of quality assurance site assessments, if applicable (see permit section 5.5.3.8);
 - ✧ A copy of the site inspector's credentials;
 - ✧ A copy of the site assessment inspector's credentials;
 - ✧ records of dates and locations where major grading activities occur;
 - ✧ records of dates and locations when construction temporarily or permanently cease;
 - ✧ records of dates and locations when stabilization measures are initiated.

SAFE DAMS ACT INFORMATION

- ✧ There are no berms or walls on this project which meet the definition of "dam" as found in [Tenn. Code Ann. § 69-11-102](#), concerning the Tennessee Safe Dams Act of 1973, therefore, no permits from the Tennessee Safe Dams Program are required for this project.
 - ✧ Per [Tenn. Code Ann. § 69-11-102](#), a "dam" is defined as any artificial barrier, together with appurtenant works, that does or may impound or divert water, and that either is or will be twenty (20) feet or more in height from the natural bed of the stream or watercourse at the downstream toe of the barrier, as determined by the commissioner, or has or will have an impounding capacity at maximum storage elevation of thirty (30) acre-feet (48,400 CY) or more. Any such barrier that is or will be less than six (6) feet in height, regardless of storage capacity, or that has or will have a maximum storage capacity not in excess of fifteen (15) acre-feet (24,200 CY), regardless of height, is not considered a "dam" as it relates to the Tennessee Safe Dams Act of 1973.
 - ✧ "Diversion weirs", "roadbeds", "water tanks", and "wastewater impoundment barriers" as defined in [Tenn. Code Ann. § 69-11-102](#) are not "dams" as it relates to the Tennessee Safe Dams Act of 1973.

**TENNESSEE MUNICIPAL CONSTRUCTION STORMWATER
PROJECT REVIEW CHECKLIST
(FORM CN-1440)**





**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES**

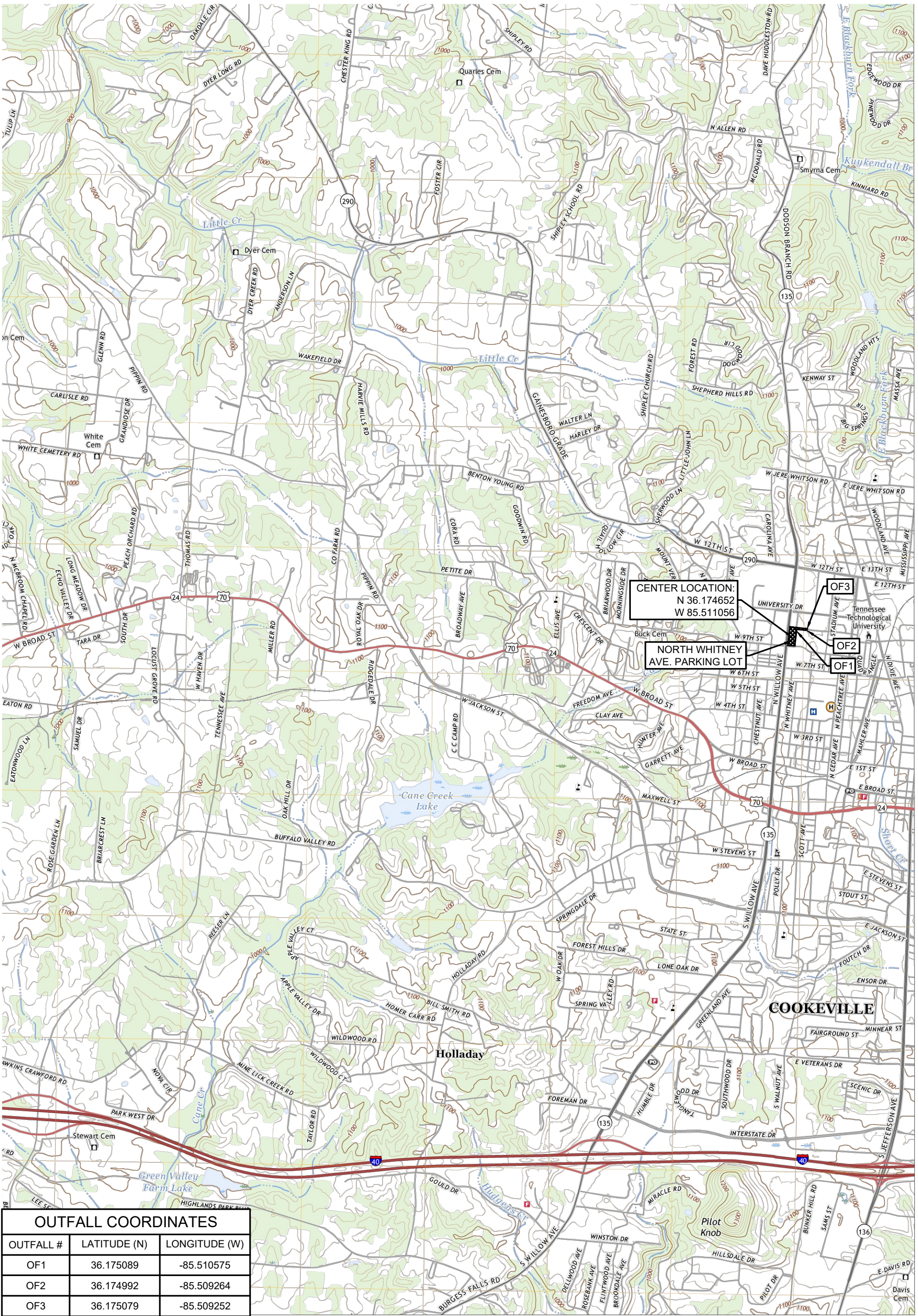
Davy Crockett Tower,
500 James Robertson Parkway, 9th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)

Tennessee Municipal Construction Stormwater Project Review Checklist			
QLP/Municipality: TTU MS4		Reviewer:	Review Date:
Site Name: TTU - North Whitney Ave. Parking Lot SBC# 364/011-04-2025		Date Received:	TNQ/TNR:
Site Location: Between N Willow Ave & N Whitney Ave, between Wings Up Way & W 10th St. Cookeville,		Disturbed acreage: 2.064 Acres	
Owner/Developer Name: State of Tennessee Tennessee Technological University		Secretary of State Control Number: N/A	
Stream and/or Wetland determination report included: YES ☐ NO ☐ NA ☒		Exceptional Tennessee Waters: YES ☐ NO ☒ NA ☐	
TDEC DWR HD/Wetland concurrence letter provided: YES ☐ NO ☐ NA ☒		Siltation impaired drainage or water body (https://tdeconline.tn.gov/dwrcgp/): YES ☐ NO ☒ NA ☐	
ARAP required: YES ☐ NO ☐ NA ☒		T&E species present: YES ☐ NO ☒ NA ☐	
COMPONENTS OF THE SWPPP			
Permit Section		Comments	Acceptable
5.5.2.	SWPPP and EPSC plans	Report page 17	☐
5.5.3.	Erosion Prevention and Sediment Controls	Report page 18	☐
5.5.3.1.	General criteria and requirements	Report page 18	☐
5.5.3.2.	Construction phasing	N/A	☐
5.5.3.3.	Projects Exceeding 50 acres of Disturbance	N/A	☐
5.5.3.4.	Stabilization practices (14 or 7 days)	14 Days	☐
5.5.3.5.	Structural practices (2yr 24hr design storm, basin for 10 ac drainage area)	2 YR/24 hour, outfalls less than 4 acres	☐
5.5.3.6.	Stormwater management	Report page 19	☐
5.5.3.7.	Other items needing control	Report page 20	☐
5.5.3.8.	Site Assessments	N/A	☐
5.5.3.9.	Inspections (2/week)	Report page 21	☐
5.5.3.10.	Inspector qualifications	Report page 23	☐
5.5.3.11.	Schedule of inspections	Report page 21	☐
5.5.3.12.	Pollution prevention measures for non-stormwater discharges	Report page 23	☐
4.1.2.	Water Quality Riparian Buffers 30ft	N/A	☐
4.1.3.	Dewatering	Report page 8	☐
Discharges into Waters with Unavailable Parameters or Exceptional Tennessee Waters			
6.4.1.	SWPPP/BMP Requirements (5yr-24hr design storm, basins for 5 ac drainage area)	N/A, Report page 26	☐
6.4.2.	Water Quality Riparian Buffers 60ft	N/A	☐

QUAD MAP / SOIL MAPS



Tennessee
TECH



PALMER ENGINEERING
2817 ERICA PLACE
NASHVILLE, TN 37204
(615) 297-8957
WWW.PALMERNET.COM

QUAD MAP

TENNESSEE TECH. UNIVERSITY
NORTH WHITNEY AVE. PARKING LOT
SBC# 364/011-04-2025

JOB NO:
13013.00

DATE:
12/02/2025

SCALE:
1"=200'

Custom Soil Resource Report
Soil Map (TTU - North Whitney Ave. Parking Lot)



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Putnam County and Parts of White County, Tennessee
Survey Area Data: Version 16, Sep 2, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2021—Oct 1, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (TTU - North Whitney Ave. Parking Lot)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Dk	Dickson silt loam, 2 to 5 percent slopes	1.2	41.3%
Gs	Guthrie silt loam, 0 to 2 percent slopes, frequently ponded	0.0	1.6%
Lm	Lawrence silt loam	1.1	39.1%
Sa	Sango silt loam, 0 to 2 percent slopes	0.5	18.0%
Totals for Area of Interest		2.8	100.0%

Map Unit Descriptions (TTU - North Whitney Ave. Parking Lot)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it

was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Putnam County and Parts of White County, Tennessee

Dk—Dickson silt loam, 2 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2rgxr
Elevation: 590 to 1,410 feet
Mean annual precipitation: 48 to 58 inches
Mean annual air temperature: 57 to 59 degrees F
Frost-free period: 190 to 230 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Dickson and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dickson

Setting

Landform: Flats
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty loess over clayey residuum weathered from cherty limestone
over clayey residuum weathered from limestone and/or clayey residuum
weathered from siltstone

Typical profile

Ap - 0 to 10 inches: silt loam
E/Bt - 10 to 24 inches: silt loam
Btx - 24 to 42 inches: silt loam
2Bt - 42 to 72 inches: clay
3Cr - 72 to 82 inches: bedrock

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: 20 to 26 inches to fragipan; 69 to 79 inches to paralithic bedrock
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: About 12 to 26 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C/D
Ecological site: F122XY023TN - Loess Veneered Thermic Uplands

Custom Soil Resource Report

Hydric soil rating: No

Minor Components

Taft

Percent of map unit: 5 percent
Landform: Flats
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Mountview

Percent of map unit: 5 percent
Landform: Flats
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Sango

Percent of map unit: 5 percent
Landform: Flats
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Gs—Guthrie silt loam, 0 to 2 percent slopes, frequently ponded

Map Unit Setting

National map unit symbol: 2v5c3
Elevation: 480 to 1,320 feet
Mean annual precipitation: 45 to 63 inches
Mean annual air temperature: 57 to 59 degrees F
Frost-free period: 154 to 238 days
Farmland classification: Not prime farmland

Map Unit Composition

Guthrie, frequently ponded, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Guthrie, Frequently Ponded

Setting

Landform: Depressions
Landform position (two-dimensional): Toeslope

Custom Soil Resource Report

Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Noncalcareous loess and/or silty alluvium

Typical profile

A - 0 to 1 inches: silt loam
Eg - 1 to 8 inches: silt loam
Bg - 8 to 32 inches: silt loam
Btxg - 32 to 68 inches: silt loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 24 to 35 inches to fragipan
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 6.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: C/D
Ecological site: F122XY024TN - Loess Veneered Depressional Uplands
Hydric soil rating: Yes

Minor Components

Taft

Percent of map unit: 8 percent
Landform: Alluvial flats
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

Dickson

Percent of map unit: 2 percent
Landform: Flats
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Lm—Lawrence silt loam

Map Unit Setting

National map unit symbol: 2mgz9
Elevation: 970 to 1,150 feet
Mean annual precipitation: 46 to 60 inches
Mean annual air temperature: 57 to 61 degrees F
Frost-free period: 190 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Lawrence and similar soils: 92 percent
Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lawrence

Setting

Landform: Flats
Landform position (three-dimensional): Talf
Parent material: Loess over loamy alluvium and/or residuum weathered from limestone

Typical profile

H1 - 0 to 8 inches: silt loam
H2 - 8 to 20 inches: silt loam
H3 - 20 to 50 inches: silty clay loam
H4 - 50 to 75 inches: silty clay

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 10 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F122XY011KY - Somewhat Poorly Drained Fragipan Terraces
And Uplands
Hydric soil rating: No

Minor Components

Guthrie

Percent of map unit: 8 percent

Landform: Depressions

Hydric soil rating: Yes

Sa—Sango silt loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2qh78

Elevation: 590 to 2,090 feet

Mean annual precipitation: 48 to 58 inches

Mean annual air temperature: 57 to 59 degrees F

Frost-free period: 190 to 230 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Sango and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sango

Setting

Landform: Broad interstream divides

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Base slope, interfluv

Down-slope shape: Linear

Across-slope shape: Concave, linear

Parent material: Loess over residuum weathered from cherty limestone

Typical profile

Ap - 0 to 1 inches: silt loam

E - 1 to 11 inches: silt loam

E/Bt - 11 to 31 inches: silt loam

Btx - 31 to 66 inches: silt loam

2Bt - 66 to 79 inches: gravelly clay

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: 26 to 35 inches to fragipan

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Depth to water table: About 12 to 26 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Custom Soil Resource Report

Available water supply, 0 to 60 inches: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): 2w

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: C/D

Ecological site: F122XY023TN - Loess Veneered Thermic Uplands

Hydric soil rating: No

Minor Components

Taft

Percent of map unit: 6 percent

Landform: Broad interstream divides

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Crest, interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Hydric soil rating: No

Guthrie

Percent of map unit: 4 percent

Landform: Broad interstream divides

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Crest, interfluve

Down-slope shape: Linear

Across-slope shape: Concave, linear

Hydric soil rating: Yes

Custom Soil Resource Report
Map—K Factor, Whole Soil (TTU - North Whitney Ave. Parking Lot)



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

	.02
	.05
	.10
	.15
	.17
	.20
	.24
	.28
	.32
	.37
	.43
	.49
	.55
	.64
	Not rated or not available

Soil Rating Lines

	.02
	.05
	.10
	.15
	.17
	.20

	.24
	.28
	.32
	.37
	.43
	.49
	.55
	.64
	Not rated or not available

Soil Rating Points

	.02
	.05
	.10
	.15
	.17
	.20
	.24
	.28
	.32
	.37
	.43
	.49
	.55
	.64
	Not rated or not available

Water Features

	Streams and Canals
	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads
	Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Putnam County and Parts of White County, Tennessee
Survey Area Data: Version 16, Sep 2, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2021—Oct 1, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—K Factor, Whole Soil (TTU - North Whitney Ave. Parking Lot)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Dk	Dickson silt loam, 2 to 5 percent slopes	.55	1.2	41.3%
Gs	Guthrie silt loam, 0 to 2 percent slopes, frequently ponded	.55	0.0	1.6%
Lm	Lawrence silt loam	.55	1.1	39.1%
Sa	Sango silt loam, 0 to 2 percent slopes	.64	0.5	18.0%
Totals for Area of Interest			2.8	100.0%

Rating Options—K Factor, Whole Soil (TTU - North Whitney Ave. Parking Lot)*Aggregation Method: Dominant Condition*

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Layer Options (Horizon Aggregation Method): Depth Range (Weighted Average)

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

Top Depth: 0

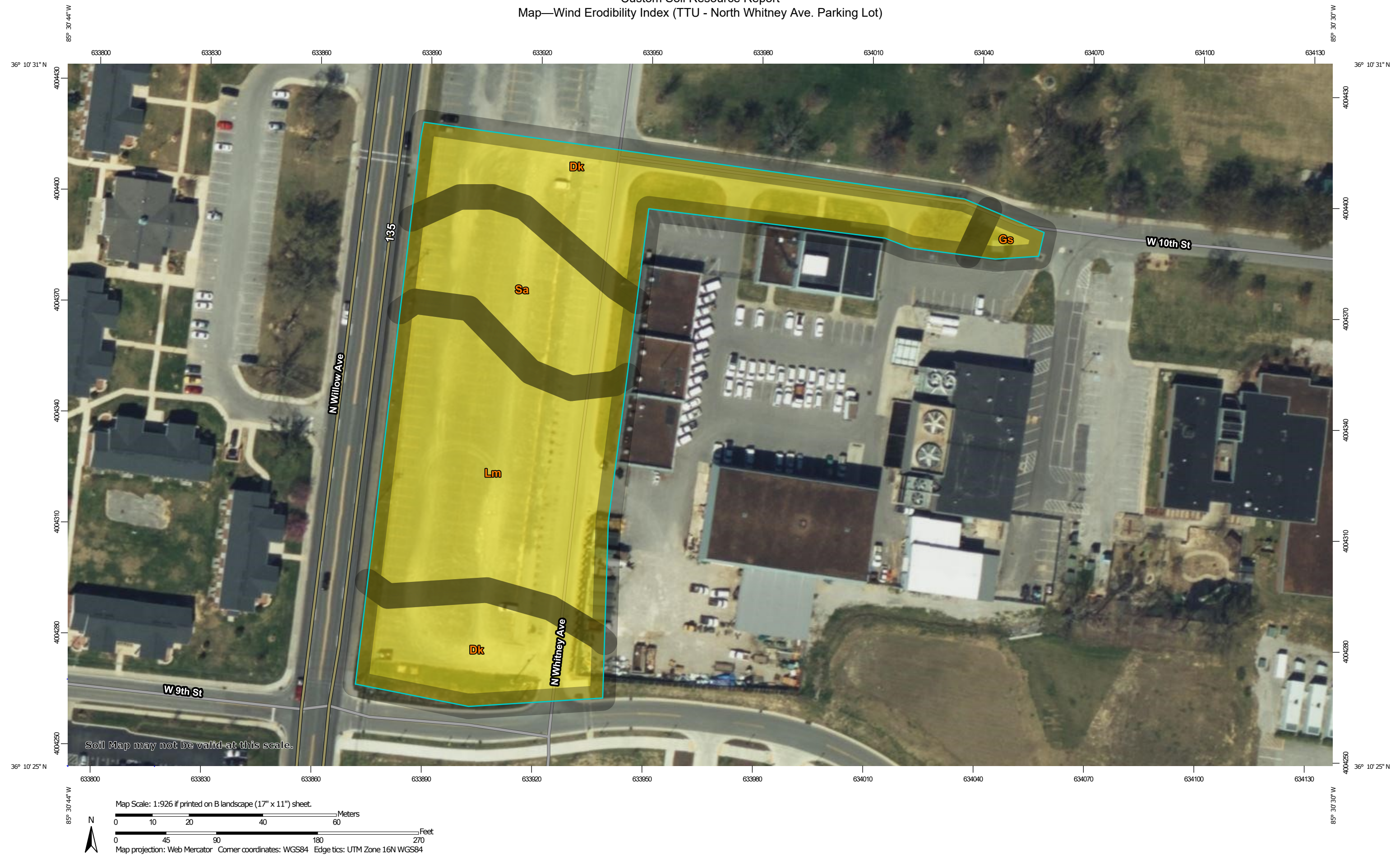
Bottom Depth: 72

Units of Measure: Inches

Wind Erodibility Index (TTU - North Whitney Ave. Parking Lot)

The wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Custom Soil Resource Report
Map—Wind Erodibility Index (TTU - North Whitney Ave. Parking Lot)



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

	0
	38
	48
	56
	86
	134
	160
	180
	220
	250
	310
	Not rated or not available

Soil Rating Lines

	0
	38
	48
	56
	86
	134
	160
	180
	220

	250
	310
	Not rated or not available

Soil Rating Points

	0
	38
	48
	56
	86
	134
	160
	180
	220
	250
	310
	Not rated or not available

Water Features

 Streams and Canals

Transportation

	Rails
	Interstate Highways
	US Routes
	Major Roads
	Local Roads

Background

 Aerial Photography

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Web Soil Survey URL:
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MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Wind Erodibility Index (TTU - North Whitney Ave. Parking Lot)

Map unit symbol	Map unit name	Rating (tons per acre per year)	Acres in AOI	Percent of AOI
Dk	Dickson silt loam, 2 to 5 percent slopes	56	1.2	41.3%
Gs	Guthrie silt loam, 0 to 2 percent slopes, frequently ponded	56	0.0	1.6%
Lm	Lawrence silt loam	56	1.1	39.1%
Sa	Sango silt loam, 0 to 2 percent slopes	56	0.5	18.0%
Totals for Area of Interest			2.8	100.0%

Rating Options—Wind Erodibility Index (TTU - North Whitney Ave. Parking Lot)

Units of Measure: tons per acre per year

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by

this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

AASHTO Group Classification (Surface) (TTU - North Whitney Ave. Parking Lot)

AASHTO group classification is a system that classifies soils specifically for geotechnical engineering purposes that are related to highway and airfield construction. It is based on particle-size distribution and Atterberg limits, such as liquid limit and plasticity index. This classification system is covered in AASHTO Standard No. M 145-82. The classification is based on that portion of the soil that is smaller than 3 inches in diameter.

The AASHTO classification system has two general classifications: (i) granular materials having 35 percent or less, by weight, particles smaller than 0.074 mm in diameter and (ii) silt-clay materials having more than 35 percent, by weight, particles smaller than 0.074 mm in diameter. These two divisions are further subdivided into seven main group classifications, plus eight subgroups, for a total of fifteen for mineral soils. Another class for organic soils is used.

For each soil horizon in the database one or more AASHTO Group Classifications may be listed. One is marked as the representative or most commonly occurring. The representative classification is shown here for the surface layer of the soil.

Custom Soil Resource Report
Map—Hydrologic Soil Group (TTU - North Whitney Ave. Parking Lot)



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
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MAP LEGEND

MAP INFORMATION

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Table—Hydrologic Soil Group (TTU - North Whitney Ave. Parking Lot)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Dk	Dickson silt loam, 2 to 5 percent slopes	C/D	1.2	41.3%
Gs	Guthrie silt loam, 0 to 2 percent slopes, frequently ponded	C/D	0.0	1.6%
Lm	Lawrence silt loam	D	1.1	39.1%
Sa	Sango silt loam, 0 to 2 percent slopes	C/D	0.5	18.0%
Totals for Area of Interest			2.8	100.0%

Rating Options—Hydrologic Soil Group (TTU - North Whitney Ave. Parking Lot)*Aggregation Method: Dominant Condition*

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Component Percent Cutoff: None Specified

Custom Soil Resource Report

RUSLE2 Related Attributes—Putnam County and Parts of White County, Tennessee								
Map symbol and soil name	Pct. of map unit	Slope length (ft)	Hydrologic group	Kf	T factor	Representative value		
						% Sand	% Silt	% Clay
Dk—Dickson silt loam, 2 to 5 percent slopes								
Dickson	85	177	C/D	.43	3	20.4	69.1	10.5
Mountview	5	177	B/D	.37	5	11.4	68.6	20.0
Sango	5	177	C/D	.55	4	14.0	78.0	8.0
Taft	5	177	C/D	.49	4	13.6	72.9	13.5
Gs—Guthrie silt loam, 0 to 2 percent slopes, frequently ponded								
Guthrie, frequently ponded	90	200	C/D	.32	3	10.0	75.0	15.0
Taft	8	200	C/D	.32	3	10.0	75.0	15.0
Dickson	2	197	C/D	.43	3	20.4	69.1	10.5
Lm—Lawrence silt loam								
Lawrence	92	—	D	.43	4	13.9	70.1	16.0
Guthrie	8	—	C/D	.43	5	30.0	52.0	18.0
Sa—Sango silt loam, 0 to 2 percent slopes								
Sango	90	197	C/D	.55	4	14.0	78.0	8.0
Taft	6	197	C/D	.49	4	13.6	72.9	13.5
Guthrie	4	197	C/D	.43	3	13.6	68.4	18.0

Soil Physical Properties

This folder contains a collection of tabular reports that present soil physical properties. The reports (tables) include all selected map units and components for each map unit. Soil physical properties are measured or inferred from direct observations in the field or laboratory. Examples of soil physical properties include percent clay, organic matter, saturated hydraulic conductivity, available water capacity, and bulk density.

Engineering Properties (TTU - North Whitney Ave. Parking Lot)

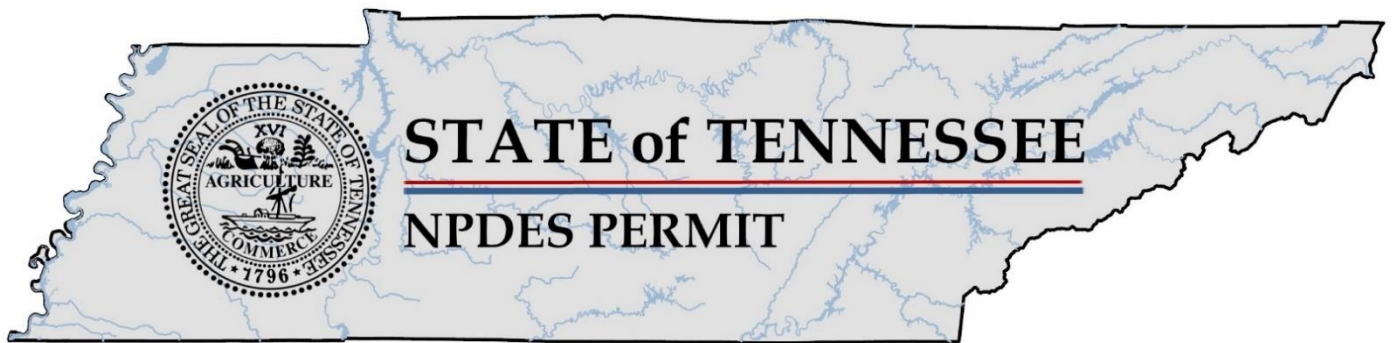
This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series.

**STATE OF TENNESSEE NPDES PERMIT
GENERAL PERMIT FOR DISCHARGES OF STORMWATER
ASSOCIATED WITH CONSTRUCTION ACTIVITIES
(TNR100000)**



Tennessee
TECH



National Pollutant Discharge Elimination System (NPDES)

General Permit for Discharges of Stormwater Associated with Construction Activities

Permit Number TNR100000

Issued by
**Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102**

Under authority of the Tennessee Water Quality Control Act of 1977 (T.C.A. 69-3-101 et seq.) and the authorization by the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.) and the Water Quality Act of 1987, P.L. 100-4, including special requirements as provided in Subpart 6.4 of this general permit, operators of point source discharges of stormwater associated with construction activities into waters of the State of Tennessee, are authorized to discharge stormwater associated with construction activities in accordance with the following permit monitoring and reporting requirements, effluent limitations, and other provisions as set forth in parts 1 through 10 herein, from the subject outfalls to waters of the State of Tennessee.

This permit is issued on: **September 27, 2021**

This permit is effective on: **October 1, 2021**

This permit expires on: **September 30, 2026**


for Jennifer Dodd
Director

Tennessee General Permit No. TNR100000
Stormwater Discharges Associated with Construction Activities

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PART 1

1. COVERAGE UNDER THIS GENERAL PERMIT

1.1. PERMIT AREA

The construction general permit (CGP) covers all areas of the State of Tennessee.

1.2. DISCHARGES COVERED BY THIS PERMIT

1.2.1. Stormwater Discharges Associated with Construction Activities

Discharge of stormwater associated with construction activity, as used in this permit, refers to stormwater point source discharges from areas where soil disturbing activities, or associated construction support activities (see Section 1.2.2) are located. Soil disturbing activities include but are not limited to clearing, grading, grubbing, filling and excavation.

This permit authorizes stormwater point source discharges from construction activities that result in soil disturbances of one or more acres. Soil disturbances of less than one acre are required to obtain authorization under this permit if construction activities are part of a larger common plan of development or sale that comprises at least one acre of cumulative land disturbance. One or more site operators must maintain coverage under this permit for all portions of a site that have not been permanently stabilized.

Projects of less than one acre of total land disturbance require authorization under this permit if:

- a) the director has determined that the stormwater discharge from a site is causing, contributing to, or is likely to contribute to a violation of a state water quality standard;
- b) the director has determined that the stormwater discharge is, or is likely to be a significant contributor of pollutants to waters of the state¹; or
- c) changes in state or federal rules require sites of less than one acre that are not part of a larger common plan of development or sale to obtain a stormwater discharge permit.

¹ *"Significant contributor of pollutants to waters of the state"* means any discharge containing pollutants that are reasonably expected to cause or contribute to a violation of a water quality criteria or receiving stream designated uses.



1.2.2. Stormwater Discharges Associated with Construction Support Activities

This permit also authorizes stormwater discharges from support activities associated with a permitted construction activity. Support activities may include concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas and borrow areas. Support activities are authorized provided all of the following conditions are met:

- a) The support activity is related to a construction activity that is covered under this general permit.
- b) The operator of the support activity is the same as the operator of the construction activity.
- c) The support activity is not a commercial operation serving multiple unrelated construction projects by different operators.
- d) The support activity does not operate beyond the completion of the construction activity of the last construction project it supports.
- e) Support activities are identified in the Notice of Intent (NOI) and the Stormwater Pollution Prevention Plan (SWPPP). The appropriate erosion prevention and sediment controls and measures applicable to the support activity shall be described in a site-wide SWPPP covering all discharges from the support activity areas.

This permit does not authorize any process (dry weather) wastewater discharges from support activities. Process (dry weather) wastewater discharges from support activities must be authorized by an individual permit or other appropriate general permit.

TDOT projects shall be addressed in the *Waste and Borrow Policy*. Stormwater discharges associated with support activities that have been issued a separate individual permit or an alternative general permit are not authorized by this general permit.

1.2.3. Non-Stormwater Discharges Authorized by this Permit

The following non-stormwater discharges from site-wide SWPPP areas of permitted construction activities are authorized by this permit provided the non-stormwater component of the discharge is in compliance with Subsection 5.5.3.12:

- a) Dewatering of collected stormwater and groundwater, discharged in accordance with section 4.1.3.



- b) Waters used to wash dust and soils from vehicles where detergents are not used and detention and/or filtering is provided before the water leaves site. Wash removal of process materials such as oil, asphalt or concrete is not authorized.
- c) Water used to control dust in accordance with Section 5.5.3.7.
- d) Potable water sources, including waterline flushings, from which chlorine has been removed to the maximum extent practicable.
- e) Routine external building washdown that does not use detergents or other chemicals.
- f) Uncontaminated, non-turbid groundwater or spring water.
- g) Foundation or footing drains where flows are not contaminated with pollutants (e.g., lubricants and fluids from mechanized equipment, process materials such as solvents, heavy metals, etc.).
- h) Discharges from emergency fire-fighting activities.
 - i) Fire hydrant flushings.
 - j) Landscape irrigation.
- k) Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used.
- l) Uncontaminated air conditioning or compressor condensate.

All non-stormwater discharges authorized by this permit must be free of sediment and other solids, must not cause erosion of soils, and must not result in sediment or erosion impacts to receiving streams.

1.2.4. Other NPDES-Permitted Discharges

Discharges of stormwater or wastewater authorized by and in compliance with a different NPDES permit may be mixed with discharges authorized by this permit.

1.3. LIMITATIONS ON COVERAGE

Except for discharges from support activities, as described in Section 1.2.2 and non-stormwater discharges listed in Section 1.2.3, all discharges covered by this permit shall be composed entirely of stormwater. This permit does not authorize the following discharges:

- a) Post-construction discharges - Stormwater discharges associated with permanent stormwater management structures after construction



activities have been completed, the site has undergone permanent stabilization and the coverage under this permit has been terminated.

- b) Discharges mixed with non-stormwater - Discharges that are mixed with sources of non-stormwater, other than discharges which are identified in Section 1.2.4 and in compliance with Subsection 5.5.3.12 of this permit.
- c) Discharges covered by another permit - Discharges associated with construction activities that have been issued an individual permit in accordance with Subpart 8.11.
- d) Discharges threatening water quality - Discharges from construction sites that the director determines will cause or has the reasonable potential to cause or contribute to violations of water quality standards. Where such a determination has been made, the division will notify the discharger in writing that an individual permit application is necessary as described in Subpart 8.11. The division may authorize coverage under this permit after appropriate controls and implementation procedures have been included in the SWPPP that are designed to bring the discharge into compliance with water quality standards.
- e) Discharges into waters with unavailable parameters - Discharges to waters with unavailable parameters that would cause measurable degradation of water quality for the parameter that is unavailable; or that would cause additional loadings of unavailable parameters that are bioaccumulative or that have criteria below method detection levels. Waters with unavailable parameters means any segment of surface waters that has been identified by the division as failing to support its designated classified uses. A discharge that complies with the additional requirements set forth in Subpart 6.4 is not considered to cause measurable degradation of waters with unavailable parameters, unless the division determines upon review of the SWPPP that there is a reason to limit coverage as set forth in Subpart 1.3(d) and the SWPPP cannot be modified to bring the site into compliance.
- f) Discharges into Outstanding National Resource Waters - Discharges into waters that are designated by the Water Quality Control Board as Outstanding National Resource Waters (ONRW) pursuant to Tennessee Rules, Chapter 0400-40-03-.06(5), except activities conducted by, or on behalf of, the National Park Service on its own lands.
- g) Discharges into Exceptional Tennessee Waters - Discharges that would cause more than de minimis DE MINIMIS degradation of water quality for any available parameter in waters designated by TDEC as Exceptional Tennessee Waters. A discharge that complies with the additional requirements set forth in Subpart 6.4 is not considered to cause more than de minimis degradation of available parameters unless the division determines upon review of the SWPPP that there is a reason to limit



coverage as set forth in Subpart 1.3(d)) and the SWPPP cannot be modified to bring the site into compliance.

- h) Discharges not protective of aquatic or semi-aquatic threatened and endangered species, species deemed in need of management or special concern species - Discharges or discharge-related activities that are likely to jeopardize the continued existence of listed or proposed threatened or endangered aquatic species, or their critical habitat, under the Endangered Species Act (ESA), or other applicable state law or rule.

Discharges or conducting discharge-related activities that will cause a prohibited "take" of federally listed aquatic species (as defined under Section 3 of the ESA and 50 CFR §17.3) unless such take is authorized under Sections 7 or 10 of the ESA.

Discharges or conducting discharge-related activities that will cause a prohibited "take" of state listed aquatic species², unless such take is authorized under the provisions of T.C.A. § 70-8-106(e).

- i) Discharges from a new or proposed mining operation - Discharges from new or proposed mining operations are not authorized.
- j) Discharges into waters with an approved Total Maximum Daily Load - Discharges of a pollutant to waters for which there is an EPA-approved or established total maximum daily load (TMDL) for that pollutant, unless the SWPPP incorporates measures or controls consistent with the assumptions and requirements of the TMDL.

Any discharge of stormwater or other fluids to groundwater via an improved sinkhole or injection well requires a Class V Underground Injection Control authorization by rule, or an individual permit under the provisions of Tennessee Rules, Chapter 0400-45-06.

1.4. OBTAINING PERMIT COVERAGE

A complete NOI, Stormwater Pollution Prevention Plan (SWPPP) and application fee³ are required to obtain coverage under this general permit. **Submitting for coverage under this permit means that an applicant has examined a copy of**

² As defined in the Tennessee Wildlife Resources Commission Proclamation, Endangered or Threatened Aquatic Species, and in the Tennessee Wildlife Resources Commission Proclamation, Wildlife in Need of Management.

³ Any reference to an "*application*" in this permit should be considered equivalent to the phrase "*complete NOI, SWPPP and application fee*"



this permit and thereby acknowledged the applicant's claim of ability to comply with permit terms and conditions.

1.4.1. Notice of Intent (NOI)

Operators wishing to obtain coverage under this permit must submit a complete NOI in accordance with Part 3, using the NOI form provided in Appendix A of this permit. Electronic submittal is encouraged (see NPDES Electronic Reporting for more information). The division may review NOIs and SWPPPs for completeness and accuracy and, when deemed necessary, investigate the proposed project for potential impacts to the waters of the state. Absent extraordinary circumstances, NOCs should be issued within 30 days of NOI submittal, unless the division has responded to the operator within that time requesting additional information. Permittees must obtain all required local authorizations related to stormwater management (see Section 1.4.4).

1.4.2. Stormwater Pollution Prevention Plan (SWPPP)

Operators wishing to obtain coverage under this permit must submit a site-specific SWPPP with the NOI, or sign and certify an existing site-specific SWPPP. The SWPPP shall address all of the operators' construction-related activities from the date construction commences to the date of termination of permit coverage, to the maximum extent practicable. The SWPPP must address the total acreage planned to be disturbed, including any associated construction support activities (see Section 1.2.2). The SWPPP must be developed, implemented and updated according to the requirements in Part 5 and Section 6.4.1. The SWPPP must be implemented prior to commencement of construction activities.

Preparation and implementation of the SWPPP may be a cooperative effort with all operators at a site. New operators with design and operational control of their portion of the construction site are expected to adopt, modify, update and implement their portion of the SWPPP. Alternatively, permittees at the site may develop and submit a SWPPP addressing only their portion of the project, as long as the proposed Best Management Practices (BMPs) are compatible with the previously submitted SWPPPs, as updated, and complying with conditions of this general permit.

SWPPPs must be updated or addended if site activities diverge significantly from those indicated in the initial SWPPP. A copy of the most recent version of the SWPPP must be available at the site.



Site operators who are building single family residences on at-grade lots (see Section 2.1.2) and who are submitting an application for coverage under this permit, may complete and submit Form CN-1249, the Stormwater Pollution Prevention Plan (SWPPP) for Single Family Residential Homebuilding Sites. This SWPPP template is available on our website at:

http://tdec.tn.gov/etdec/DownloadFile.aspx?row_id=CN-1249.

Form CN-1249 is not appropriate if significant grading of the lot or lots is necessary.

1.4.3. Permit Application Fee

The permit application fee should accompany the applicant's NOI form. The fee is based on the total acreage planned to be disturbed by an entire construction project for which the applicant is requesting coverage, including any associated construction support activities (see Section 1.2.2). The applicant may present documentation of areas in the project that will not be subject to disturbance at any time during the life of the project and have these areas excluded from the fee calculation.

The application fees shall be as specified in Tennessee Rules, Chapter 0400-40-11. The application will be deemed incomplete until the appropriate application fee is paid in full. Checks for the appropriate fee should be made payable to "Treasurer, State of Tennessee." Electronic payment methods, if made available by the State of Tennessee, are acceptable and are encouraged. The following conditions apply:

- a) If stormwater discharges from the site or acreage to be disturbed was previously authorized by a CGP, but coverage has been since terminated, a primary operator must submit a new application for coverage under the CGP.
- b) A new primary operator seeking subsequent coverage under an actively permitted activity must submit the subsequent coverage fee to obtain coverage under an active NOC.
- c) Acreage additions up to 10% of the original plan area, but not to exceed a total of 5 acres, and other minor modifications of the original plan do not require separate NOI submittal. These minor additions require submittal of a plan indicating the additional area(s) of disturbance, the total acreage to be disturbed, and the updated SWPPP. The permittee is responsible for thoroughly and accurately identifying all waterbodies (including wetlands and streams) located on the added acreage and to provide a determination of the water's status if not previously provided. An additional fee and



updated NOI are required only if the total acreage of disturbance would require a higher fee than originally paid, and then only the difference is due. New acreage disturbances cannot be added as previously disturbed acreage is stabilized, to create a 'rolling' total of disturbance. Iterative changes that would create cumulative impact exceeding 10% of the original plan area, or a total of 5 acres require submittal of updated NOI and SWPPP to the division.

- d) In addition to the application fee, an annual maintenance fee applies per Tennessee Rules, Chapter 0400-40-11-.02(12)(i).

1.4.4. Submittal of Documents to Local Municipalities

Some permittees may discharge stormwater through an NPDES-permitted municipal separate storm sewer system (MS4) who are not exempted in Section 1.4.5. These permittees are encouraged to coordinate with the local MS4 authority prior to submitting an NOI to the division. Permitting status of all permittees covered, or previously covered, under this general permit as well as the most current list of all MS4 permits is available at:

<http://tn.gov/environment/article/tdec-dataviewers>.

Permittees must obtain all necessary authorizations pursuant to provisions of any local ordinances that apply to construction activities, and permittees are expected to comply with any additional erosion prevention, sediment control, and construction stormwater management measures required by a local municipality, county or permitted MS4 program.

1.4.5. Permit Coverage Through a Qualifying Local Program (QLP)

Coverage equivalent to coverage under this general permit may be obtained from a qualifying local erosion prevention and sediment control MS4 program. A Qualifying Local Program (QLP) is a municipal stormwater program implemented for stormwater discharges associated with construction activity that has been formally approved by the division. More information about Tennessee's QLP program and MS4 participants can be found at:

<https://www.tn.gov/environment/permit-permits/water-permits1/npdes-permits1/npdes-stormwater-permitting-program/tennessee-qualifying-local-program.html>.

If a construction site is within the jurisdiction of, and has obtained a notice of coverage from, a QLP, the operator is authorized to discharge stormwater associated with construction activity under this general permit without the submittal of an application to the division. Permitting of stormwater runoff from



construction sites from federal or state agencies (e.g., Tennessee Department of Transportation and Tennessee Valley Authority) and the local MS4 program itself will remain solely under the authority of TDEC.

The division may require any operator located within the jurisdiction of a QLP to obtain permit coverage directly from the division. The operator shall be notified in writing by the division that coverage by the QLP is no longer applicable and how to obtain coverage under this permit.

1.5. NOTICE OF COVERAGE

1.5.1. Permit Tracking Numbers

Construction activities covered under this permit will be assigned permit tracking numbers in the sequence TNR100001, TNR100002, etc. Permit tracking numbers assigned under a previous construction general permit will be retained. An operator applying for new permit coverage will be assigned a new permit tracking number. Assigning a permit tracking number by the division to a proposed discharge from a construction activity does not confirm or imply an authorization to discharge under this permit. Operators receiving new permit coverage will be listed as active on the TDEC Dataviewer.

1.5.2. Notice of Coverage (NOC)

The NOC is a notice from the division to the primary permittee informing them that the NOI, the SWPPP, and the application fee were received and accepted. The primary permittee is authorized to discharge stormwater associated with construction activity as of the effective date listed on the NOC.

For new operators seeking subsequent coverage under an existing tracking number, the division will not issue a NOC. New operators that notify the division to be added to an existing coverage are covered upon receipt of notification of permit coverage by the division. The permit record reflecting the additional operator will be published on TDEC's DataViewer in the next update.

The division reserves the right to deny coverage to artificial entities (e.g., corporations or partnerships, excluding entities not required to register with the Tennessee Secretary of State) that are not properly registered and in good standing (i.e., listed with an entity status of "active") with the Tennessee Secretary of State, Division of Business Services. The division also reserves the right to issue permit coverage in the correct legal name of the individual or entity seeking



coverage, including each general partner of a general partnership in addition to the general partnership.

Alterations to channels or waterbodies (see definition of streams) that are contained on, traverse through or are adjacent to the construction site are not authorized by this permit. Such alterations may require an Aquatic Resources Alteration Permit (ARAP): <https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html>.

It is the responsibility of the applicant to thoroughly and accurately identify all waterbodies (see definition of streams) located on the site and to provide a determination of the water's status.

For channels, this determination must be conducted in accordance with Tennessee's standard operating procedures for hydrologic determinations set forth at Tennessee Rules, Chapter 0400-40-03.05(9). Wetlands determinations must include the submission of a wetland delineation completed utilizing the USACOE 1987 *Wetlands Delineation Manual* and applicable *Regional Supplement*. For the purposes of permitting, the permittee may choose to provide all aquatic features located on the site the protections afforded to streams and wetlands in lieu of conducting hydrologic determinations. ARAPs are independent requirements from CGP coverage and complete applications for ARAPs shall precede NOI submittal. The division reserves the right to delay or withhold issuance of coverage under the CGP in some cases until the appropriate ARAP coverage has been obtained.

The treatment and disposal of wastewater (e.g., sanitary, commercial or industrial wastewater) generated during and after the construction must be also addressed prior to issuance of the NOC. The NOC may be delayed until adequate wastewater treatment is identified and accompanying disposal permits are issued.



PART 2

2. CONSTRUCTION SITE OPERATORS

2.1. TYPES OF OPERATORS

2.1.1. Owner/Developer

An owner or developer of a project is a primary permittee. This person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person may include, but is not limited to, a developer, landowner, realtor, commercial builder, homebuilder, utility company, etc. This person may be an individual, a corporate entity, or a governmental entity. An owner's or developer's responsibility to comply with requirements of this permit extends until permit coverage is terminated in accordance with requirements of Part 9.

The site-wide permittee is the first primary permittee to apply for coverage for a construction activity. There may be other primary permittees for a project, but there is only one site-wide permittee. Where there are multiple operators associated with the same project, all operators are required to obtain permit coverage. Once covered by a permit, each operator is responsible for complying with the permit. Permittees are jointly and severally liable for a violation related to construction activities that affect the same project site, unless a permittee affirmatively demonstrates to the satisfaction of the Department that its own action, or failure to act, was not a cause of the violation.

2.1.2. Commercial Builders

A commercial builder can be a primary or secondary permittee at a construction site.

A commercial builder who purchases one or more lots from a primary permittee for the purpose of constructing and selling a structure⁴ and has design or operational control over construction plans and specifications for that portion of

⁴ e.g., residential house, non-residential structure, commercial building, industrial facility, etc.



the site, or is hired by an end user, such as a lot owner who may not be a permittee, must obtain coverage in one of the following ways:

- a) The site-wide permittee may transfer coverage to the commercial builder, for the entire site or just the acreage/lots the builder has purchased;
- b) The commercial builder may submit a new NOI for the acreage purchased, following requirements in Section 3.1.4; or
- c) The commercial builder may be hired by the primary permittee or a lot owner to build a structure, and by mutual agreement build on the site under the existing coverage of the site-wide permittee. In this case, the commercial builder signs the primary permittee's NOI and SWPPP as a contractor (see Section 2.1.3) and is considered a secondary permittee.

2.1.3. Contractors

A contractor is considered a secondary permittee. This person has day-to-day operational control of the activities necessary to ensure compliance with the SWPPP or other permit conditions (e.g., the contractor is authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions). A contractor may be:

- a general contractor
- a grading contractor
- an erosion control contractor
- a sub-contractor responsible for land disturbing activities or erosion prevention and sediment control (EPSC) implementation and maintenance
- a commercial builder hired by the primary permittee.

The contractor may need to include in their contract with the party that hired them specific details for the contractor's responsibilities concerning EPSC measures. This includes the ability of the contractor to make EPSC modifications. The contractor shall sign the primary permittee's NOI and SWPPP associated with the construction project at which they will be an operator (insofar as possible), or submit a separate NOI to the division indicating their intent to be added to the existing activity coverage as an operator.

2.2. RESPONSIBILITIES OF OPERATORS

A permittee may meet one or more of the operational control components in the definition of "operator" found in Subpart 2.1. Either Section 2.2.1 or 2.2.2, or both, will apply depending on the type of operational control exerted by an individual permittee.



2.2.1. Permittees with Design Control

Permittees with operational control over construction plans and specifications at the construction site, including the ability to make modifications to those plans and specifications, must ensure that:

- a) the project specifications meet the minimum requirements of Part 5 (SWPPP) and all other applicable conditions;
- b) the SWPPP indicates the areas of the project where they have operational control;
- c) all other permittees implementing and maintaining portions of the SWPPP impacted by any changes made to the plan are notified of such modifications in a timely manner;
- d) all common BMPs (i.e., sediment treatment basin and drainage structures) necessary for the prevention of erosion or control of sediment are maintained and effective until all construction is complete and all disturbed areas in the entire project are stabilized, unless permit coverage has been obtained and responsibility has been taken over by a new primary permittee; and
- e) all operators on the site have permit coverage, if required.

If parties with day-to-day operational control of the construction site have not been identified at the time the site-wide SWPPP is initially developed, the permittee with operational control shall be considered to be the responsible person until an NOI is submitted identifying the new operators (see Section 3.1.4). These new operators (e.g., general contractor, utilities contractors, sub-contractors, erosion control contractors, hired commercial builders) are considered secondary permittees. The SWPPP must be updated to reflect the addition of new operators.

2.2.2. Permittees with Day-to-Day Operational Control

Permittees with day-to-day operational control of the activities necessary to ensure compliance with the SWPPP or other permit conditions must ensure that:

- a) the SWPPP for portions of the project where they are operators meets the requirements of Part 5 and identifies the parties responsible for implementing the control measures identified in the plan;
- b) the SWPPP indicates areas of the project where they have operational control over day-to-day activities; and



- c) measures in the SWPPP are adequate to prevent soil erosion and control any sediment that may result from their earth disturbing activity.

Permittees with operational control over only a portion of a larger construction project are responsible for compliance with all applicable terms and conditions of this permit as it relates to their activities on their portion of the construction site. This includes, but is not limited to, implementation of Best Management Practices (BMPs) and other controls required by the SWPPP. Permittees shall ensure either directly or through coordination with other permittees, that their activities do not render another person's pollution control ineffective. All permittees must implement their portions of the SWPPP.



PART 3

3. NOTICE OF INTENT (NOI) REQUIREMENTS

3.1. NOI SUBMITTAL

3.1.1. Who Must Submit an NOI?

All operators must submit an NOI form. For the purpose of this permit and in the context of stormwater associated with construction activity, an “operator” means any person associated with a construction project who meets either or both of the following two criteria:

- a) The person has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is considered the primary permittee and is typically:
 - the owner or developer of the project,
 - the owner or developer of a portion of the project (e.g., subsequent builder), or
 - the person who is the current owner of the construction site.
- b) The person has day-to-day operational control of the activities necessary to ensure compliance with the SWPPP or other permit conditions. This person is typically a contractor, or a commercial builder hired by the primary permittee, and is considered a secondary permittee.

3.1.2. Existing Sites

An operator presently permitted under the 2016 construction general permit shall be granted coverage under this new general permit. Coverage will be extended automatically without notification to the division or an additional fee being assessed. The existing SWPPP shall be modified according to the Section 5.3.1 of this permit.

If an operator does not wish to be continued under the new general permit, they may terminate coverage (Section 9.1). If a site with terminated coverage is unstable or if construction continues, a new NOI, SWPPP and application fee must be submitted.

3.1.3. New Sites or New Phases of Existing Sites

Except as provided in Section 3.1.4, operators must submit a complete NOI, SWPPP and an application fee in accordance with the requirements described



in Subpart 1.4. The complete application should be submitted at least 30 days prior to commencement of construction activities. The permittee is authorized to discharge stormwater associated with construction activity as of the effective date listed on the NOC or the TDEC DataViewer. The land disturbing activities shall not start until the NOC is received by the applicant according to Subpart 1.5.

3.1.4. New Operators

New operators proposing to conduct construction activities at a site with existing coverage must submit an NOI. The NOI should be submitted prior to the new operator commencing work at the site. The NOI must reference the project name and tracking number assigned to the primary permittee's NOI. The NOI may not need to be submitted immediately upon assuming operational control if the portion of the site controlled by the new operator is inactive and all the previously disturbed areas are permanently stabilized.

A new operator working as a residential home builder may submit Form CN-1249, the Stormwater Pollution Prevention Plan (SWPPP) for Single Family Residential Homebuilding Sites. This form may be found at:

http://tdec.tn.gov/etdec/DownloadFile.aspx?row_id=CN-1249.

If the primary permittee's company name has changed (but not the site ownership or authorized signators), an updated NOI should be submitted to the division within 30 days of the name change, along with documentation that the name change has been properly registered with the Tennessee Secretary of State, Division of Business Services. If the new operator agrees to comply with an existing site-wide SWPPP already implemented at the site, a copy of the SWPPP does not have to be submitted with the NOI.

If the transfer of ownership is due to foreclosure or a permittee filing for bankruptcy proceedings, the new owner (e.g., a lending institution) must obtain permit coverage if the construction activity is inactive but soil is not stabilized sufficiently. If the property is sufficiently stabilized permit coverage may not be necessary, unless and until construction activity at the site resumes.

3.1.5. Late NOIs

Dischargers are not prohibited from submitting NOIs after construction at their site has already begun. When a late NOI is submitted, and if the division authorizes coverage under this permit, such authorization is only for future discharges. Any prior, unpermitted, discharges or permit noncompliances are subject to penalties as described in Section 8.1.2.



3.1.6. Who Must Sign the NOI?

All construction site operators as defined in Subpart 2.1 must sign the NOI form. Signatory requirements for a NOI are described in Section 8.7.1. Signatures on electronically submitted NOIs are deemed to be equivalent to a hardcopy signature. An NOI that does not bear a valid signature will be deemed incomplete.

3.2. FORMAT AND CONTENT OF THE NOI FORM

3.2.1. NOI Form

The NOI form is provided in Appendix A of this permit. This form and its instructions set forth the required content of the NOI. The NOI form must be filled in completely. If the division notifies applicants by mail, E-mail, public notice or by making information available on the world wide web of electronic NOI forms (see NPDES Electronic Reporting), the operators may be required to use those electronic options to submit the NOI (Section 3.3.2)

Owners, developers and contractors that meet the definition of the operator in Subpart 2.1 shall apply for permit coverage on the same NOI, if possible. The division may accept separate NOI forms from different operators for construction activities on the same construction site when warranted.

After permit coverage has been granted to the primary permittee, any subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The SWPPP shall be prepared in accordance with Part 5, and must be submitted with the NOI unless the NOI is only being submitted to add a secondary permittee to an existing coverage.

3.2.2. Construction Site Map

An excerpt (8 ½" by 11" or 11" by 17") from the appropriate 7.5 minute United States Geological Survey (USGS) topographic map (or other map showing contours) with the proposed construction site centered, must be included with the NOI. The entire proposed construction area must be clearly outlined on the map, with all acreage to be disturbed clearly identified. All outfalls⁵ discharging runoff from the property, streams receiving the discharge, and storm sewer systems conveying the discharge from outfalls shall be clearly identified and marked on the map. NOIs for linear projects must specify the location of each end

⁵ Phrase "point source" and term "outfall" are used interchangeably. For the purpose of this general permit, they can be considered synonyms.



of the construction area and all areas to be disturbed. Commercial builders that develop separate SWPPPs that cover only their portion of the project shall also submit a site or plat map that clearly indicates the lots for which they are applying for permit coverage, and the location of EPSCs that will be used at each lot (Section 5.5).

3.3. WHERE AND HOW TO SUBMIT AN APPLICATION

3.3.1. Traditional Submittal

The applicant shall submit the NOI, SWPPP and application fee to the appropriate Environmental Field Office (EFO) for the county where the construction activity is located and where stormwater discharges enters waters of the state. If a site straddles a county line of counties that are in different EFO service areas, the operators shall send the NOI and the application fee to the EFO that provides coverage for the majority of the proposed construction activity.

A list of counties and the corresponding EFOs is provided in Subpart 3.4. The division's Nashville Central Office will serve as a processing office for NOIs submitted by federal or state agencies (e.g., TDOT, TVA and the local MS4 programs).

3.3.2. Submittal Using Electronic Forms

The division is in the process of launching the new NPDES Electronic Reporting online customer portal for submission of permit applications and other reports. If the division notifies applicants by mail, E-mail, public notice or by making information available on the world wide web of electronic application submittal, the operators may be required to use those electronic options to submit the NOI, SWPPP and an application fee. For more information, visit <https://www.tn.gov/environment/program-areas/wr-water-resources/netdmr-and-electronic-reporting.html>.

3.4. TDEC ENVIRONMENTAL FIELD OFFICES (EFOS) AND CORRESPONDING COUNTIES

<u>EFO Name</u>	List of Counties
Chattanooga	Bledsoe, Bradley, Grundy, Hamilton, Marion, McMinn, Meigs, Polk, Rhea, Sequatchie
Columbia	Bedford, Coffee, Franklin, Giles, Hickman, Lawrence, Lewis, Lincoln, Marshall, Maury, Moore, Perry, Wayne
Cookeville	Cannon, Clay, Cumberland, DeKalb, Fentress, Jackson, Macon, Overton, Pickett, Putnam, Smith, Trousdale, Van Buren, Warren, White
Jackson	Benton, Carroll, Chester, Crockett, Decatur, Dyer, Gibson, Hardin, Haywood, Henderson, Henry, Lake, Lauderdale, Madison, McNairy, Obion, Weakley
Johnson City	Carter, Greene, Hancock, Hawkins, Johnson, Sullivan, Unicoi, Washington
Knoxville	Anderson, Blount, Campbell, Claiborne, Cocke, Grainger, Hamblen, Jefferson, Knox, Loudon, Monroe, Morgan, Roane, Scott, Sevier, Union
Memphis	Fayette, Hardeman, Shelby, Tipton
Nashville	Cheatham, Davidson, Dickson, Houston, Humphreys, Montgomery, Robertson, Rutherford, Stewart, Sumner, Williamson, Wilson

TDEC may be reached by telephone at the toll-free number 1-888-891-8332 (TDEC). Local [EFOs](#) may be reached directly when calling this number from the construction site, using a land line.



PART 4

4. CONSTRUCTION AND DEVELOPMENT EFFLUENT GUIDELINES

4.1. NON-NUMERIC EFFLUENT LIMITATIONS

Any point source authorized by this general permit must achieve, at a minimum, the effluent limitations representing the degree of effluent reduction attainable by application of best practicable control technology (BPT) currently available.

4.1.1. Erosion prevention and sediment controls

Design, install and maintain effective erosion and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed and maintained to:

- 1.) Control stormwater volume and velocity to minimize soil erosion in order to minimize pollutant discharges;
- 2.) Control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points;
- 3.) Minimize the amount of soil exposed during construction activity;
- 4.) Minimize the disturbance of steep slopes;
- 5.) Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
- 6.) Provide and maintain natural buffers as described in Section 4.1.2, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible;
- 7.) Minimize soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted; and
- 8.) Unless infeasible, preserve topsoil. Preserving topsoil is not required where the intended function of a specific area of the site dictates that the topsoil be disturbed or removed.

4.1.2. Water Quality Riparian Buffer Zone Requirements

The water quality riparian buffer zone requirements in this section apply to all streams with available parameters adjacent to construction sites (for waters with



unavailable parameters or Exceptional Tennessee Waters, see Section 6.4.2). A 30-foot natural water quality riparian buffer shall be preserved between such waterbodies and the disturbed areas, to the maximum extent practicable, during construction activities. The water quality riparian buffer is required to protect waters of the state that are not wet weather conveyances as identified using Tennessee's standard operating procedures for hydrologic determinations set forth in Tennessee Rules, Chapter 0400-40-03-.05(9).⁶ Because of the potential heavy sediment loading associated with construction site runoff, water quality riparian buffers are not primary sediment control measures and shall not be relied on as such; the primary purpose of water quality riparian buffers is additional pollutant removal. Stormwater discharges must enter the water quality riparian buffer zone as sheet flow, not as concentrated flow, where site conditions allow. Rehabilitation and enhancement of a natural buffer zone is allowed, if necessary, to improve its effectiveness in protecting waters of the state.

The water quality riparian buffer zone should be preserved between the top of stream bank and the disturbed construction area. The 30-foot criterion for the width of the buffer zone can be established on an average width basis at a project, as long as the minimum width of the buffer zone is more than 15 feet at any measured location. If the construction site encompasses both sides of a stream, buffer averaging can be applied to both sides, but each side must average the 30-foot criterion independently.

Construction activities within the water quality riparian buffer zone shall be avoided and existing forested buffer areas shall be preserved whenever possible. Where it is not practicable to maintain a full water quality riparian buffer, BMPs providing equivalent protection to a receiving stream as a natural water quality riparian buffer must be used. A justification for use and a design of equivalent BMPs shall be included in the SWPPP. Such equivalent BMPs are expected to be routinely used at construction projects typically located adjacent to surface waters. These projects may include sewer line construction, roadway construction, utility line or equipment installation, greenway construction, construction of a permanent outfall or a velocity dissipating structure.

⁶ If obtaining permit coverage for the first time following the effective date of this permit, 15-foot buffers are also required for any wet weather conveyance identified as waters of the United States by the U.S. Army Corps of Engineers or the Environmental Protection Agency.



This requirement does not apply to any valid Aquatic Resources Alteration Permit (ARAP), or equivalent permits issued by federal authorities. Additional buffer zone requirements may be established by the local MS4 program.

4.1.2.1. Water quality riparian buffer zone exemption based on existing uses

Water quality riparian buffer zones as described in Section 4.1.2 shall not be required in portions of the buffer where certain land uses exist and are to remain in place according to the following:

- a) A use shall be considered existing if it was present within the buffer zone as of the date of the Notice of Intent for coverage under the construction general permit. Existing uses may include buildings, parking lots, roadways, utility lines and on-site sanitary sewage systems. Only the portion of the buffer zone that contains the footprint of the existing land use is exempt from buffer zones. Activities necessary to maintain uses are allowed provided that no additional vegetation is removed from the buffer zone.
- b) If an area with an existing land use is proposed to be converted to another use or the impervious surfaces located within the buffer area are being removed, buffer zone requirements shall apply.

4.1.2.2. Pre-approved sites

Construction activity at sites that were pre-approved prior to February 1, 2010, is exempt from the buffer requirements of Section 4.1.2. Evidence of pre-approval for highway projects shall be a final right-of-way plan; and, for other construction projects, the final design drawings with attached written and dated approval by the local, state or federal agency with authority to approve such design drawings for construction.

4.1.3. Dewatering

Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls. Appropriate controls may include weir tanks, dewatering tanks, gravity bag filters, sand media particulate filters, pressurized bag filters, cartridge filters or other control units providing the level of treatment necessary to comply with permit requirements.



4.1.4. Pollution Prevention Measures

The permittee must design, install, implement and maintain effective pollution prevention measures to minimize the discharge of sediment and other pollutants. At a minimum, such measures must be designed, installed, implemented and maintained to:

- a) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water and other wash waters not containing soaps or solvents. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- b) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on the site to precipitation and to stormwater; and
- c) Minimize the discharge of pollutants from spills and leaks, and implement chemical spill and leak prevention and response procedures.

4.1.5. Prohibited Discharges

The following discharges are prohibited:

- a) Wastewater from washout of concrete, unless managed by an appropriate control.
- b) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
- c) Fuels, oils or other potential pollutants used in vehicle and equipment operation and maintenance.
- d) Soaps or solvents used in vehicle and equipment washing.



PART 5

5. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS

5.1. THE GENERAL PURPOSE OF THE SWPPP

A SWPPP must be prepared and submitted along with the NOI as required in Section 1.4.2. The primary permittee must implement the SWPPP and maintain effective Best Management Practices (BMPs) from commencement of construction activity until permanent stabilization is complete, or until the permittee does not have design or operational control of any portion of the construction site. If a SWPPP submittal contains contradictory or ambiguous information, the division will hold the permittee to the most stringent interpretation of the information submitted. Requirements for termination of site coverage are provided in Part 9.

A site-specific SWPPP must be developed for each construction project or activity covered by this permit. The design, inspection and maintenance of BMPs described in the SWPPP must be prepared in accordance with good engineering practices. At a minimum, BMPs shall be consistent with the recommendations contained in the current edition of the Tennessee Erosion and Sediment Control Handbook (the handbook).

Once a definable area has been permanently stabilized as described in Subsection 5.5.3.4, the permittee may identify this area on the SWPPP. No further SWPPP or inspection requirements apply to that portion of the site (e.g., earth-disturbing activities around one of three buildings in a complex are done and the area is permanently stabilized, one mile of a roadway or pipeline project is done and permanently stabilized, etc.).

For more effective implementation of BMPs, a cooperative effort by the different operators at a site to prepare and participate in a site-wide SWPPP is expected. Primary permittees at a site may develop separate SWPPPs that cover only their portion of the project. In instances where there is more than one SWPPP for a site, the permittees must ensure the stormwater discharge controls and other measures are compatible with one another and do not prevent another operator from complying with permit conditions. The site-wide SWPPP developed and submitted by the primary permittee must assign responsibilities to secondary permittees and coordinate all BMPs at the construction site. Assignment and coordination can be done by name or by job title.



5.2. QUALIFICATION REQUIREMENTS

For sites greater than five acres of disturbance, the narrative portion of the SWPPP shall be prepared by an individual who has a working knowledge of erosion prevention and sediment controls, such as (but not limited to):

- a registered 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.

For sites less than or equal to five acres of disturbance, these qualification requirements do not apply, and the division provides the following optional templates:

- Form CN-1249, the Stormwater Pollution Prevention Plan (SWPPP) for Single Family Residential Homebuilding Sites. This SWPPP template is available at:
http://tdec.tn.gov/etdec/DownloadFile.aspx?row_id=CN-1249. Form CN-1249 is not appropriate if significant grading of the lot or lots is necessary.
- SWPPP Template for Sites Not Requiring Engineer Design from the DWR – NR – G – 02 - Construction Stormwater – 05172019 Guidance regarding construction stormwater general permit coverage involving sites with Non-Engineer Design SWPPPs:
<https://www.tn.gov/content/dam/tn/environment/water/policy-and-guidance/dwr-nr-g-02-cgp-non-engineering-swppp-final-051719.pdf>
Attachment A (template):
<https://www.tn.gov/content/dam/tn/environment/water/policy-and-guidance/dwr-nr-g-02-cgp-non-engineering-swppp-final-051719-template.docx>.

Plans and specifications for any building or structure, changes in topography and drainage, including the design or modification of sediment basins or other sediment controls involving structural, hydraulic, hydrologic or other engineering calculations shall be prepared by a professional engineer or landscape architect registered in Tennessee and signed and sealed in accordance with the Tennessee Code Annotated, Title 62, Chapter 2 and the rules of the Tennessee Board of Architectural and Engineering Examiners. Engineering design of sediment basins or equivalent sediment controls must be provided for construction sites involving



drainage to an outfall totaling 10 or more acres (Subsection 5.5.3.5) or 5 or more acres if draining to waters with unavailable parameters or Exceptional Tennessee Waters (Section 6.4.1).

5.3. SWPPP PREPARATION AND COMPLIANCE

5.3.1. Existing Sites

Operators of an existing site, presently permitted under the division's 2016 construction general permit, shall maintain full compliance with the existing SWPPP. The existing SWPPP shall be modified, if necessary, to meet requirements of this new general permit, and the SWPPP changes implemented as soon as practicable but no later than 12 months following the new permit effective date. The permittee shall make the updated SWPPP available for the division's review upon request.

5.3.2. New Sites or New Phases of Existing Sites

For construction stormwater discharges not authorized under an NPDES permit as of the effective date of this permit, a SWPPP that meets the requirements of Part 5 of this permit shall be prepared and submitted along with the NOI and an appropriate fee for coverage under this permit.

5.3.3. Signature Requirements

The SWPPP shall be signed by the operators in accordance with Subpart 8.7, and if applicable, certified according to requirements in Section 5.2. Signatures on electronically submitted documents are deemed equivalent to original signatures. A SWPPP that does not bear a valid signature will be deemed incomplete.

5.3.4. SWPPP Availability

A copy of the existing version of the SWPPP shall be retained on-site at the location which generates the stormwater discharge in accordance with Part 7 of this permit. If the site is inactive or does not have an onsite location adequate to store the SWPPP, the location of the SWPPP, along with a contact phone number, shall be posted on-site. If the SWPPP is located off-site, reasonable local access to the plan during normal working hours must be provided.

The permittee shall make the existing SWPPP and inspection reports available upon request to the director; the local agency approving erosion prevention and sediment control plans, grading plans, land disturbance plans or stormwater management plans; or the operator of an MS4.



5.4. KEEPING SWPPP CURRENT

5.4.1. SWPPP Modifications

The permittee must modify, update and recertify the SWPPP if any of the following conditions apply:

- a) Whenever there is a change in the scope of the project that would be expected to have a significant effect on the discharge of pollutants to the waters of the state and which has not otherwise been addressed in the SWPPP.
- b) Whenever there is a change in chemical treatment methods, including the use of different treatment chemical, different dosage or application rate or different area of application.
- c) Whenever inspections or investigations by site operators or local, state or federal officials indicate the SWPPP is proving ineffective in eliminating or significantly minimizing pollutants from sources identified under Section 5.5.2, or is otherwise not achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activity. Where local, state or federal officials determine that the SWPPP is ineffective in eliminating or significantly minimizing pollutant sources, a copy of any correspondence to that effect must be retained in the SWPPP.
- d) Whenever any new operator (typically a secondary permittee) who will implement a measure of the SWPPP must be identified (see Subpart 3.1.1 for further description of which operators must be identified).
- e) Whenever it is necessary to include water quality protection measures as required by the applicable wildlife management agency intended to prevent a negative impact to legally protected state or federally listed fauna or flora (or species proposed for such protection – Subpart 1.3). Amendments to the SWPPP may be reviewed by the division, a local MS4, the EPA, or an authorized regulatory agency.
- f) Whenever a Total Maximum Daily Load (TMDL) is developed for the receiving waters for a pollutant of concern (e.g., siltation). A list of Tennessee's TMDLs can be found at:
<https://www.tn.gov/environment/program-areas/wr-water-resources/watershed-stewardship/tennessee-s-total-maximum-daily-load--tmdl--program.html>.



5.5. COMPONENTS OF THE SWPPP

The SWPPP must:

- a) identify all potential sources of pollutants likely to affect the quality of stormwater discharges from the construction site;
- b) describe practices to be used to reduce pollutants in stormwater discharges from the construction site; and
- c) assure compliance with the terms and conditions of this permit.

The SWPPP shall include the items described in Sections 5.5.1, 5.5.2 and 5.5.3.

5.5.1. SWPPP Narrative

Each SWPPP shall provide a description of pollutant sources and other information as indicated below:

- a) A description of all construction activities at the site, including the intended sequence of activities which disturb soils for major portions of the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation).
- b) Estimates of the total area of the site and the total area that is expected to be disturbed by excavation, grading, filling or other construction activities.
- c) A description of the topography of the site, including an estimation of percent slope and delineation of drainage area (acres) serving each outfall. Drainage area estimates shall include off-site drainage, if applicable.
- d) Hydric soils must be clearly identified.
- e) A description of how the runoff will be handled to prevent erosion at the permanent outfall and receiving stream.
- f) An erosion prevention and sediment control (EPSC) plan with the proposed construction area clearly outlined. The plan shall indicate the boundaries of the permitted area, drainage patterns, approximate slopes anticipated after major grading activities, areas of soil disturbance, an outline of areas which are not to be disturbed, the location of major structural and nonstructural controls identified in the SWPPP, the location of areas where stabilization practices are expected to occur, streams and sinkholes, and identification on the erosion control plan of outfall points intended for coverage. The erosion control plan must meet requirements stated in Section 5.5.3.
- g) A description of any discharge associated with industrial activity other than construction stormwater that originates on site and the location of that activity and its permit number.



- h) Identification of any streams on or adjacent to the project, a description of any anticipated alteration of these waters and the permit number or the tracking number of the Aquatic Resources Alteration Permit (ARAP) or Section 401 Certification issued for the alteration.
- i) The name of the receiving waters (this does not include wet weather conveyances connecting the site discharge to the receiving stream).
- j) Identification if those receiving waters have unavailable parameters for siltation.⁷
- k) Identification if those receiving waters are Exceptional Tennessee Waters.⁸
- l) If applicable, clearly identify and outline the buffer zones established to protect waters of the state located within the boundaries of the project.
- m) A description of the construction phasing for projects of more than 50 acres (Subsection 5.5.3.2).
- n) The timing of the planting of the vegetation cover must be discussed in the SWPPP if permanent or temporary vegetation is to be used as a control measure. Planting cover vegetation during winter months or dry months should be avoided.

5.5.2. SWPPP and EPSC plans

The SWPPP must include EPSC plans (Section 5.5.3) showing the approximate location of each control measure and a description of when the measure will be implemented during the construction process (e.g., prior to the start of earth disturbance, as the slopes are altered and after major grading is finished). The different stages of construction and the EPSC measures that will be utilized during each stage shall be depicted on multiple plan sheets as described below.

Three separate EPSC plan sheets should be developed for most sites, with the exception of single-lot homes, commercial lots, or linear infrastructure projects of less than or equal to 5 acres, for which a single plan sheet may be sufficient:

- a. The first plan sheet will address the EPSC measures necessary to manage stormwater runoff, erosion and sediment during the initial land disturbance (grading) stage.

⁷ DWR Construction Stormwater Permitting Map Viewer can be found at: <https://tdeconline.tn.gov/dwrcgp/>

⁸ List of Exceptional Waters and ORNWs in Tennessee can be found at: [https://tdec.tn.gov:8090/pls/enf_reports/f?p=9034:34304](https://tdec.tn.gov:8090/pls/enf_reports/f?p=9034:34304;); corresponding map viewer is under development



- b. A second plan sheet will address the EPSC measures necessary to manage stormwater runoff, erosion and sediment during any interim grading and construction stages.
- c. The third plan sheet will address the EPSC measures necessary to manage stormwater runoff, erosion and sediment during the final grading stage while permanent site stabilization is being achieved.

The description and implementation of controls shall address the following minimum components, as described in Sections 5.5.3, 5.5.3.6 and 5.5.3.7. Additional controls may be necessary to comply with Section 6.3.2.

5.5.3. Erosion Prevention and Sediment Controls (EPSC)

5.5.3.1. General criteria and requirements

- a) The erosion prevention controls shall be designed to eliminate to the maximum extent practicable the dislodging and suspension of soil in water. Sediment controls shall be designed to retain mobilized sediment on site to the maximum extent practicable.
- b) All control measures must be properly selected, installed and maintained in accordance with the manufacturer's specifications and/or good engineering practices. If periodic inspections or other information indicate a control has been used inappropriately, or incorrectly, the permittee must replace or modify the control.
- c) If sediment escapes the permitted area, off-site accumulations that have not reached a stream must be removed at a frequency sufficient to minimize off-site impacts (e.g., sediment that has escaped a construction site and collected in a street must be removed so that it does not subsequently wash into storm sewers and streams during the next rain or so that it does not pose a safety hazard to users of public streets). Permittees shall not initiate remediation or restoration of a stream without receiving prior authorization from the division. This permit does not authorize access to private property. Arrangements concerning the removal of sediment on adjoining property must be settled by the permittee and the adjoining landowner.
- d) Sediment must be removed from sediment traps, silt fences, sediment basins and other sediment controls when design capacity has been reduced by 50%.
- e) Erodible material storage areas (e.g., overburden and stockpiles of soil) and borrow pits that are used primarily for the permitted project are considered a part of the site and shall be identified on the NOI, addressed in the SWPPP and included in the fee calculation. TDOT projects shall be addressed in the Waste and Borrow Manual per the Statewide Stormwater Management Plan (SSWMP).



- f) Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 14 days prior to commencement of grading or earth moving activities unless the area is subsequently temporarily or permanently stabilized.
- g) Clearing and grubbing must be held to the minimum necessary for grading and equipment operation. Existing vegetation at the site shall be preserved to the maximum extent practicable. The limits of soil disturbance shall be clearly outlined in the SWPPP and the areas to remain undisturbed clearly indicated on the site, with the methods to be used to mark these areas described in the SWPPP.
- h) Construction must be sequenced to minimize the exposure time of graded or denuded areas.
- i) EPSC measures must be in place and functional before earth moving operations begin and must be constructed and maintained throughout the construction period stages as appropriate. Temporary measures may be removed at the beginning of the workday but must be replaced at the end of the workday.
- j) Off-site vehicle tracking of sediment and the generation of dust shall be minimized. A stabilized construction access shall be described and implemented to reduce the tracking of mud and dirt onto public roads by construction vehicles.

5.5.3.2. Construction phasing

Construction phasing is recommended on all projects regardless of size as an effective practice for minimizing erosion and limiting sedimentation. It is recommended that construction be phased to keep the total disturbed area less than 50 acres at any one time. This includes off-site borrow or disposal areas that meet the conditions of Section 1.2.2. Areas where construction is completed must be stabilized within 14 days (Subsection 5.5.3.4).

5.5.3.3. Projects Exceeding 50 acres of Disturbance

On projects where the permittee chooses to disturb more than 50 acres at one time, the following additional requirements shall apply:

- a) The permittee shall notify the division immediately if more than 50 acres of disturbance at one time is planned.
- b) Site assessments, as described in Subsection 5.5.3.8, shall be conducted on a quarterly basis.
- c) Operator inspections as described in Subsection 5.5.3.9 shall be conducted twice per week and following any rainfall event of more than 0.5 inches in



24 hours. Inspections following rainfall events can be counted as one of the twice-weekly inspections.

- d) Data describing the erodibility of soils on site, how the soil type erodibility will dictate the needed control measures and how the soil may affect the expected quality of runoff from the site shall be provided. The data may be referenced or summarized. Hydric soils must be clearly identified.
- e) A geospatial file shall be submitted to the division which identifies the project area boundaries as a polygon feature. This polygon feature can be submitted in any common data format (e.g., .kml file, shapefile, feature layer, etc.) that is compatible with common geographic systems software (e.g., Google Earth, ESRI, QGIS, etc.). The file name should reflect the same site name provided on the permit application, or a permit tracking number, if available.
- f) Stormwater runoff monitoring shall be conducted at each outfall draining 10 or more acres (Section 5.5.3.5) or 5 or more acres if draining to waters with unavailable parameters or Exceptional Tennessee Waters (Section 6.4.1).

Code	Parameter	Qualifier	Unit	Sample Type	Monitoring Frequency	Statistical Base
00070	Turbidity	Report	NTU	Grab	Monthly	Daily Maximum
00070	Turbidity	Report	NTU	Grab	Monthly	Monthly Average
00530	Total Suspended Solids (TSS)	Report	mg/L	Grab	Monthly	Daily Maximum
00530	Total Suspended Solids (TSS)	Report	mg/L	Grab	Monthly	Monthly Average
45613	Floating solids or visible foam-visual	Report	Y=1;N=0	Visual	Monthly	Value
50050	Flow	Report	MGD	Estimate	Monthly	Daily Maximum
50050	Flow	Report	MGD	Estimate	Monthly	Monthly Average

The permittee shall maintain a log of rainfall events including date, estimated duration (in hours), and total estimated rainfall per calendar day. For sampling events, the permittee shall provide an estimate of the total volume of the discharge per sampled outfall and the interval between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event.



The permittee shall report the estimated total drainage area and estimated acreage of land disturbance in the drainage area for each outfall for each sampling event. Record of the estimated drainage area and amount of land disturbance for a given sample event shall be reported in the notes section of the Discharge Monitoring Report.

5.5.3.4. Stabilization practices

The SWPPP shall include a description of temporary and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved when possible. Stabilization practices may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees and the preservation of mature vegetation. When seasonal or climate conditions would prevent timely establishment of vegetation other stabilization practices must be utilized. Use of impervious surfaces for permanent stabilization in lieu of a permanent vegetative cover should be avoided where practicable. No stabilization control measures or EPSC measures are to be installed in a stream without obtaining a Section 404 permit and an Aquatic Resources Alteration Permit (ARAP).

Stabilization measures shall be initiated as soon as possible in portions of the site where construction activities have temporarily or permanently ceased. Temporary or permanent soil stabilization at the construction site must be completed within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. In the following situations, temporary stabilization measures are not required:

- a) Where the initiation of stabilization measures is precluded by snow cover or frozen ground conditions or adverse soggy ground conditions, stabilization measures shall be initiated as soon as practicable.
- b) Where construction activity on a portion of the site is temporarily ceased, but soil disturbing activities is planned to resume within 2 weeks.
- c) In arid, semiarid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative stabilization measures such as properly anchored mulch, soil binders or matting must be employed.

Steep slopes shall be stabilized within one week after construction activity on the slope has temporarily or permanently ceased.



Permanent stabilization with perennial vegetation (using native herbaceous and woody plants where practicable) or other permanently stable, non-eroding surface shall replace any temporary measures as soon as practicable. Unpacked gravel containing fines (silt and clay sized particles) or crusher runs will not be considered a non-eroding surface. On sites where disturbed acreage will be returned to its prior agricultural use (i/e. row crops, pasture) normal agricultural practices can be substituted.

5.5.3.5. Structural practices

The SWPPP shall include a description of structural practices utilized to divert flows from exposed soils, store flows or otherwise limit runoff and discharge of pollutants from exposed areas of the site. Such practices may include, but are not limited to silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions and temporary or permanent sediment basins. Structural controls shall not be placed in streams except as authorized by a section 404 permit and/or Aquatic Resources Alteration Permit (ARAP).

EPSC measures shall be designed to minimize erosion and maximize sediment removal resulting from a 2-year, 24-hour storm (the design storm). The design of erosion prevention and sediment controls must adhere to good engineering practices. The drainage area recommendations and treatment design specifications are provided in the Tennessee Erosion and Sediment Control Handbook. Chemical treatment of the stormwater runoff may be necessary to minimize the amount of sediment being discharged when clay and other fine particle soils or highly erodible soils are present at the construction site. However, the use of cationic polymers for treatment is prohibited.

For an outfall that receives drainage from 10 or more acres, a minimum sediment basin volume that will provide treatment for a calculated volume of runoff from a 2-year, 24-hour storm and runoff from each acre drained, or equivalent control measures as specified in the Tennessee Erosion and Sediment Control Handbook, shall be provided until permanent stabilization of the site. A drainage area of 10 or more acres includes disturbed and undisturbed portions of the site and areas adjacent to the site, all draining through the common outfall. Where an equivalent control measure is substituted for a sediment basin, the equivalency (with respect to sediment removal) must be justified to the division. Runoff from any undisturbed acreage should be diverted around the disturbed area and the sediment basin. Diverted runoff can be omitted from the volume calculation.



Sediment storage expected from the disturbed areas must be included. Discharges from basins and impoundments shall utilize outlet structures that only withdraw water from near the surface of the basin or impoundment, unless infeasible.

All calculations related to drainage areas, runoff coefficients, basin volumes and equivalent control measures must be provided in the SWPPP. The discharge structure from a sediment basin must be designed to retain sediment during the lower flows in accordance with the most current version of the Tennessee Erosion and Sediment Control Handbook. Muddy water to be pumped from excavation and work areas must be held in settling basins, filtered or chemically treated prior to its discharge into surface waters. Water must be discharged through a pipe, grassed or lined channel or other equivalent means so that the discharge does not cause erosion and sedimentation. Discharged water must not cause an objectionable color contrast with the receiving stream.

Sediment structures treating drainage areas in excess of 25 acres require a site-specific design that accurately defines the site hydrology, site-specific sediment loading, hydraulics of the site, and adheres to all Tennessee Erosion and Sediment Control Handbook design recommendations for sediment basins.

Velocity dissipation structures shall be installed if needed to provide for non-erosive discharge velocities to wet weather conveyances or streams.

5.5.3.6. Stormwater management

The following factors must be accounted for in the design of all stormwater controls:

- a) The nature of stormwater runoff and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features. Stormwater controls must be designed to control stormwater volume, velocity, and peak flow rates to minimize discharges of pollutants in stormwater, as well as minimizing channel and streambank erosion at discharge points.
- b) The soil type and range of soil particle sizes expected to be present on the site.
- c) Description of any measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed, including a brief



description of applicable State or local erosion and sediment control requirements.

5.5.3.7. Other items needing control

- a) No solid materials, including building materials, shall be placed in waters of the state, except as authorized by a section 404 permit and/or Aquatic Resources Alteration Permit (ARAP). Litter, construction debris and construction chemicals exposed to stormwater shall be picked up prior to storm events or before being carried off the site by wind so that they do not become a pollutant source for stormwater discharges. EPSC materials shall be prevented from becoming a pollutant source for stormwater discharges.
- b) The SWPPP shall identify and provide the necessary EPSC measures for the installation of any waste disposal system, sanitary sewer or septic system. Permittees must also comply with applicable state and local waste disposal, sanitary sewer or septic system regulations as necessary.
- c) The SWPPP shall include a description of construction and waste materials expected to be stored on-site. The SWPPP shall also include a description of controls used to reduce pollution from materials stored on site. Controls may include storage practices to minimize exposure of the materials to stormwater or spill prevention and response.

5.5.3.8. Site Assessments

Site assessment shall be conducted at each outfall draining 10 or more acres (Section 5.5.3.5) or 5 or more acres if draining to waters with unavailable parameters or Exceptional Tennessee Waters (Section 6.4.1). The site assessment is a documented site inspection conducted by a qualified individual to verify the installation, functionality and performance of the EPSC measures described in the SWPPP. Site assessments shall cover the entire disturbed area and occur within 30 days of construction commencing at each portion of the site that drains the qualifying acreage. The site assessment shall be performed by individuals with one or more of the following qualifications:

- 1. A licensed professional engineer or landscape architect;
- 2. A Certified Professional in Erosion and Sediment Control (CPESC); or
- 3. A person who has successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites"



At a minimum, site assessments should be performed to verify the installation, functionality and performance of the EPSC measures described in the SWPPP. If structural BMPs (or equivalent EPSC measures) are not constructed or construction is in progress at the time of the site assessment, a follow-up monthly assessment(s) are required until the BMPs are constructed per 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](#).

5.5.3.9. Inspections

Operators shall ensure proper installation, maintenance, and overall effectiveness of erosion prevention and sediment controls (EPSCs) by performing twice weekly site inspections. Inspections must verify and document the functionality and performance of the EPSC measures described in the SWPPP. Initial inspections shall also indicate if all EPSCs have been installed as designed in the submitted SWPPP and EPSC plans; and, if not, measures that need to be taken so those EPSCs meet the design specifications in the field SWPPP and EPSC plans.

5.5.3.10. Inspector qualifications

Twice weekly inspections can be performed by:

- a) a person with a valid certification from the "Level I - Fundamentals of Erosion Prevention and Sediment Control" course,
- b) a licensed professional engineer or landscape architect,
- c) a Certified Professional in Erosion and Sediment Control (CPESC), or
- d) a person who has successfully completed the "Level II - Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

An inspector performs and documents the required inspections, paying particular attention to time-sensitive permit requirements, such as stabilization and maintenance activities.



5.5.3.11. Schedule of inspections

- a) Inspections described in paragraphs b, c and d below, shall be performed at least twice weekly. Inspections shall be performed at least 72 hours apart. Where sites or portions of construction sites have been temporarily stabilized, inspections only have to be conducted once per month until construction activity resumes. Inspection requirements do not apply to definable areas that have been permanently stabilized. Changes to the inspection frequency and the justification for such request must be included in the records kept on site. For projects by the Tennessee Department of Transportation (TDOT) and the Tennessee Valley Authority (TVA), such request must be submitted to the division's Nashville Central Office. The division reserves the right to require more frequent inspections if deemed necessary to ensure compliance at a site.
- b) Qualified personnel, as defined in Subsection 5.5.3.10 (provided by the permittee or cooperatively by multiple permittees), shall inspect disturbed areas of the construction site that have not been permanently 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. EPSC measures shall be observed to ensure that they are operating correctly.
- d) Outfall points shall be inspected to determine whether EPSC measures are effectively preventing sediment discharges off-site or 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, modified or repaired as necessary, before the next rain event; but in no case more than seven days after the need is identified.
- f) Based on the results of the inspection, the site description identified in the SWPPP in accordance with Section 5.5.1 and pollution prevention measures identified in the SWPPP in accordance with Section 5.5.3 shall be revised as appropriate. Such revisions shall be made no later than seven days following the inspection. In addition, any modifications to pollution prevention measures shall be implemented as soon as practicable but no later than 14 days following the inspection.



- g) All inspections shall be documented on the *Construction Stormwater Inspection Certification Form* provided in Appendix C of this permit. An alternative inspection form may be used as long as the form contents and the inspection certification language are equivalent to the division's form and the permittee has obtained a written approval from the division to use the alternative form. The form must contain the printed name and signature of the inspector and the certification must be executed by a person who meets the signatory requirements of Section 8.7.2. Inspection reports must be submitted to the division within 10 days of the request.
- h) Inspectors shall accurately document site conditions in their inspection reports. 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) The initial primary permittee (such as a developer) is no longer required to inspect portions of the site that are covered by a subsequent primary permittee (such as a home builder). Subsequent primary permittees who have obtained coverage under this permit shall conduct twice weekly inspections as per the requirements in Subsection 5.5.3.9.

5.5.3.12. Pollution prevention measures for non-stormwater discharges

The SWPPP must identify source(s) of all non-stormwater discharge(s) listed in Section 1.2.3 if it is to be combined with stormwater discharges associated with construction activity. The SWPPP shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater components of the discharge. Any non-stormwater must be discharged through stable discharge structures. Estimated volume of the non-stormwater components of the discharge must be included in the design of all impacted control measures.



PART 6

6. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS

6.1. RELEASES IN EXCESS OF REPORTABLE QUANTITIES

The discharge of hazardous substances or oil in the stormwater discharges from a facility shall be prevented or minimized in accordance with the applicable SWPPP for the facility. This permit does not relieve the permittee of the reporting requirements of 40 CFR 117 and 40 CFR 302.

6.2. SPILLS

This permit does not authorize the discharge of hazardous substances or oil resulting from an on-site spill.

6.3. DISCHARGE COMPLIANCE WITH STATE WATER QUALITY STANDARDS

6.3.1. Violation of water quality standards

This permit does not authorize stormwater or other discharges that would cause or contribute to a violation of a state water quality standard (Tennessee State Rules, Chapters 0400-40-03, 0400-40-04). Such discharges constitute a violation of this permit.

Where a discharge is already authorized under this permit and the division determines the discharge to cause or contribute to the violation of applicable state water quality standards, the division will notify the operator of such violations. The permittee shall take all necessary actions to ensure future discharges do not cause or contribute to the violation of a water quality standard and shall document these actions in the SWPPP.

6.3.2. Discharge quality

- a) The construction activity shall be carried out in such a manner that will prevent violations of water quality criteria as stated in the Tennessee Rules, Chapter 0400-40-03-.03. This includes, but is not limited to, the prevention of any discharge that causes a condition in which visible solids, bottom deposits or turbidity impair the usefulness of waters of the state for any of the uses designated for that water body by Tennessee Rules, Chapter 0400-40-04. Construction activity carried out in the manner required by



this permit shall be considered in compliance with the Tennessee Rules, Chapter 0400-40-03-.03.

- b) There shall be no distinctly visible solids, scum, foam, oily slick, or the formation of slimes, bottom deposits, or sludge banks of such size or character as may be detrimental to fish and aquatic life.
- c) The stormwater discharge must not contain total suspended solids, turbidity, or color in such amounts or character that will result in any objectionable appearance compared to the turbidity or color of the receiving water, considering the nature and location of the water.
- d) The stormwater discharge shall not contain pollutants in quantities that will be hazardous or otherwise detrimental to humans, livestock, wildlife, plant life, or fish and aquatic life in the receiving stream. This provision includes species covered under Subpart 1.3.
- e) Solids or other materials removed by any sediment control treatment devices must be disposed of in a manner that prevents its entrance into or pollution of any surface or subsurface waters.

6.4. DISCHARGES INTO WATERS WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS

6.4.1. SWPPP/BMP Requirements

- a) Discharges that would cause measurable degradation of waters with unavailable parameters or that would cause more than de minimis degradation of Exceptional Tennessee Waters are not authorized by this permit (Subpart 1.3). To be eligible to obtain and maintain coverage under this permit, the operator must satisfy, at a minimum, the following additional requirements for discharges into waters with unavailable parameters for siltation and for discharges to Exceptional Tennessee Waters⁹. All other provisions of this general permit that apply to receiving waters with available parameters shall also apply.
- b) The SWPPP must certify that EPSC measures used at the site are designed to control stormwater runoff generated by a 5-year, 24-hour storm event (the design storm), at a minimum, either from total rainfall in the designated period or the equivalent intensity as specified on the following website https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html.

⁹ or discharges upstream of such waters and because of the proximity to the segment and the nature of the discharge is likely to cause more than de minimis degradation in the unavailable or exceptional segment.



- c) The permittee shall perform inspections described in Section 5.5.3.9 at least twice every calendar week. Inspections shall be performed at least 72 hours apart.
- d) If the division finds that an operator is contributing to the impairment of a receiving stream despite complying with the SWPPP, the operator will be notified by the division in writing that the discharge is no longer eligible for coverage under the general permit. The operator may update the SWPPP and implement the necessary changes designed to eliminate further impairment of the receiving stream. If the permittee does not implement the SWPPP changes within seven days of receipt of notification, the permittee will be notified in writing that continued discharges must be covered by an individual permit (Subpart 8.11). To obtain the individual permit, the operator must file an individual permit application and submit an updated SWPPP. The project must be stabilized immediately and remain stable until the SWPPP is updated and the individual permit is issued. Only discharges from earth disturbing activities necessary for stabilization are authorized to continue until the individual permit is issued.
- e) For an on-site outfall in a drainage area totaling five or more acres, a minimum sediment basin volume that will provide treatment for a calculated volume of runoff from a 5-year, 24-hour storm and runoff from each acre drained; or equivalent control measures as specified in the Tennessee Erosion and Sediment Control Handbook, shall be provided until permanent stabilization of the site.
- f) For an on-site outfall in a drainage area totaling 3.5 - 4.9 acres, a minimum sediment trap volume or engineering equivalent that will provide treatment for a calculated volume of runoff from a 5-year, 24-hour storm and runoff from each acre drained, is required until permanent stabilization of the site. A drainage area of 3.5 - 4.9 acres includes both disturbed and undisturbed portions of the site or areas adjacent to the site, all draining through the common outfall.

6.4.2. Water Quality Riparian Buffer Zone Requirements

Sites that contain, or are adjacent to, receiving waters with unavailable parameters for siltation or designated as Exceptional Tennessee Waters shall preserve a 60-foot natural water quality riparian buffer zone adjacent to the receiving stream. All other buffer zone requirements as stated in Section 4.1.2 will apply.



The natural water quality riparian buffer zone shall be preserved between the top of stream bank and the disturbed construction area. The 60-foot criterion for the width of the buffer can be established on an average width basis at a project, as long as the minimum width of the buffer is more than 30 feet at any measured location. If the construction site encompasses both sides of a stream, buffer averaging can be applied to both sides, but each side must average the 60-foot criterion independently.

This requirement does not apply to an area that is being altered under the authorization of a valid Aquatic Resources Alteration Permit (ARAP), or equivalent permits issued by federal authorities. Additional natural buffer zone requirements may be established by the local MS4 program.



PART 7

7. RETENTION, ACCESSIBILITY AND SUBMISSION OF RECORDS

7.1. DOCUMENTS

The primary permittee shall retain copies of SWPPPs, reports required by this permit, records of all data used to complete the NOI and the NOT for a period of at least three years from the date the NOT is submitted. This period may be extended by written request of the director.

7.2. ACCESSIBILITY AND RETENTION OF RECORDS

The permittee shall retain a copy of the SWPPP and a copy of the permit at the construction site (or other location accessible to the division) from the date construction commences to the date of termination of permit coverage. Permittees with day-to-day operational control over SWPPP implementation shall have a copy of the SWPPP available at a central location onsite for the use of all operators and those identified as having responsibilities under the plan whenever they are on the construction site.

7.2.1. Posting Information at the Construction Site

A notice shall be posted near the main entrance of the construction site visible to the public with the following information:

- a) a copy of the NOC with the NPDES permit tracking number for the construction project;
- b) a name or company name; E-mail address (if available); telephone number and address of the project site owner/operator or a local contact person; and
- c) the location of the SWPPP (Subpart 7.2).

The notice must be maintained in a legible condition. The notice shall be posted in a local public building if posting this information near a main entrance is infeasible due to safety concerns or if the site is not accessible to the public. If the construction project is a linear construction project (e.g., pipeline or highway), the notice must be placed in a publicly accessible location near where construction is actively underway and moved as necessary. This permit does not provide the public with any right to trespass on a construction site for any reason, including inspection of a site. This permit does not require permittees to allow members of the public access to a construction site.



The permittee shall also retain the following items in an appropriate location on-site (or other location accessible to [the division](#)):

- a) A rain gauge (or use a reference site for a record of daily precipitation) and accurate [rainfall](#) records;
- b) A copy of all required inspection reports; and
- c) Records of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated.

7.3. ELECTRONIC SUBMISSION OF DOCUMENTS

This permit requires the submission of forms developed by the [director](#) in order for a person to comply with certain requirements, including, but not limited to, making reports, submitting inspection findings, applying for permit coverage and requesting for termination of permit coverage. The [director](#) may make these forms available electronically and, if submitted electronically, then that electronic submission shall comply with the requirements of Chapter [0400-01-40](#). Electronic submission may be required when available, unless waived by the Commissioner in accordance with 40 C.F.R. § 127.15.

If [the division](#) notifies applicants by mail, E-mail, public notice or by making information available on the world wide web of electronic forms (see [NPDES Electronic Reporting](#)), the [operators](#) may be required to use those electronic options to submit the [NOI](#) (Section 3.3.2)

In the event of large-scale emergencies and/or prolonged electronic reporting system outages, an episodic electronic reporting waiver may be granted by the Commissioner in accordance with 40 CFR § 127.15. A request for a deadline extension or episodic electronic reporting waiver should be submitted to DWRWater.Compliance@tn.gov, in compliance with the Federal NPDES Electronic Reporting Rule.

In the event that [NPDES Electronic Reporting](#) is not functioning, the permittee shall comply with reporting conditions by mailing reports with wet-ink original signatures shall to the following address:



*STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
COMPLIANCE & ENFORCEMENT UNIT
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102*

For purposes of determining compliance with this permit, data provided to the division electronically is legally equivalent to data submitted on signed and certified forms. A copy must be retained for the permittee's files.

7.3.1. Monitoring Results

Monitoring results (if applicable, for projects exceeding 50 acres of disturbance at one time, see Subsection 5.5.3.3) shall be recorded monthly and submitted monthly using NetDMR. Submittals shall be no later than 15 days after the completion of the reporting period. If NetDMR is not functioning, a completed DMR with an original signature shall be submitted to the address for Compliance and Enforcement Unit as listed in the Subpart 7.3 above. The first DMR is due on the 15th of the month following permit effectiveness.

DMRs must be signed and certified by a responsible corporate officer as defined in Tennessee Rule 0400-40-05-.05(6), a general partner or proprietor, or a principal municipal executive officer or ranking elected official, or his duly authorized representative. Such authorization must be submitted in writing and must explain the duties and responsibilities of the authorized representative.



PART 8

8. STANDARD PERMIT CONDITIONS

8.1. DUTY TO COMPLY

8.1.1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Tennessee Water Quality Control Act (TWQCA) and is grounds for an enforcement action, permit termination, revocation and reissuance, modification; or for denial of a permit renewal application.

8.1.2. Penalties

Pursuant to T.C.A. § 69-3-115 of The Tennessee Water Quality Control Act of 1977, as amended:

- a) Any person who violates an effluent standard or limitation or a water quality standard established under this part (T.C.A. § 69-3-101, et. seq.); violates the terms or conditions of this permit; fails to complete a filing requirement; fails to allow or perform an entry, inspection, monitoring or reporting requirement; violates a final determination or order of the board, panel or commissioner; or violates any other provision of this part or any rule or regulation promulgated by the board, is subject to a civil penalty of up to ten thousand dollars (\$10,000) per day for each day during which the act or omission continues or occurs.
- b) Any person unlawfully polluting the waters of the state or violating or failing, neglecting, or refusing to comply with any of the provisions of this part (T.C.A. § 69-3-101, et. seq.) commits a Class C misdemeanor. Each day upon which such violation occurs constitutes a separate offense.
- c) Any person who willfully and knowingly falsifies any records, information, plans, specifications, or other data required by the board or the commissioner, or who willfully and knowingly pollutes the waters of the state, or willfully fails, neglects or refuses to comply with any of the provisions of this part (T.C.A. § 69-3-101, et. seq.) commits a Class E felony and shall be punished by a fine of not more than twenty-five thousand dollars (\$25,000) or incarceration, or both.



8.1.3. Civil and criminal liability

Nothing in this permit shall be construed to relieve the discharger from civil or criminal penalties for noncompliance. Notwithstanding this permit, the discharger shall remain liable for any damages sustained by the State of Tennessee, including but not limited to fish kills and losses of aquatic life and/or wildlife, as a result of the discharge to any surface or subsurface waters. Additionally, notwithstanding this permit, it shall be the responsibility of the discharger to conduct stormwater discharge activities in a manner such that public or private nuisances or health hazards will not be created. Furthermore, nothing in this permit shall be construed to preclude the State of Tennessee from any legal action or relieve the discharger from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or the Federal Water Pollution Control Act.

8.1.4. Liability Under State Law

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable local, state or federal law.

8.2. CONTINUATION OF THE EXPIRED GENERAL PERMIT

Permittees shall maintain coverage under this general permit until a new general permit is issued.

Operator(s) of an existing site permitted under the division's 2016 construction general permit shall maintain full compliance with the existing SWPPP. The existing SWPPP shall be modified according to the Section 5.3.1 of this permit.

8.3. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

8.4. DUTY TO MITIGATE

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.



8.5. DUTY TO PROVIDE INFORMATION

The permittee shall furnish to the division or an authorized representative of the division, within a time specified by the division, any information that the division may request to determine compliance with this permit or other information relevant to the protection of the waters of the state. The permittee shall also furnish to the division, upon request, copies of records required to be kept by this permit.

8.6. OTHER INFORMATION

When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the director, he or she shall promptly submit such facts or information.

8.7. SIGNATORY REQUIREMENTS

All NOIs, SWPPPs, NOTs, Construction Stormwater Inspection Certifications, Construction Stormwater Monitoring Report forms, reports, certifications or information either submitted to the director or the operator of a large or medium Municipal Separate Storm Sewer System (MS4) shall be signed as described in Sections 8.7.1 and 8.7.2 and dated.

8.7.1. Signatory Requirements for an NOI¹⁰

The NOI shall be signed as follows:

- a) For a corporation, by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - i. a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or
 - ii. the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated site including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive

¹⁰ As specified in 40 CFR 122.22(a)(1)-(3) [48 FR 14153, Apr. 1, 1983, as amended at 48 FR 39619, Sept. 1, 1983; 49 FR 38047, Sept. 29, 1984; 50 FR 6941, Feb. 19, 1985; 55 FR 48063, Nov. 16, 1990; 65 FR 30907, May 15, 2000]



measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- b) For a general partnership, by each general partner in the general partnership,
- c) For a sole proprietorship, by the proprietor,
- d) For a municipality, state, federal, or other public agency, by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - i. the chief executive officer of the agency, or
 - ii. a senior executive officer having responsibility for the overall operations of a principle geographic unit of the agency (e.g., Regional Administrators of [EPA](#)).

NOTE: The division does not require specific assignments or delegations of authority to responsible corporate or municipal, state, federal, or other public agency officers. The division will presume that these officers have the requisite authority to sign permit applications unless the entity has notified the [director](#) to the contrary. Procedures governing authority to sign permit applications may provide for assignment or delegation to applicable positions rather than to specific individuals.

8.7.2. Signatory Requirements for SWPPPs, Reports and Other Items

SWPPPs, Construction Stormwater Inspection Certification forms, reports, certifications or other information submittals required by the permit and other information requested by [the division](#), including but not limited to Notice of Violation responses, shall be signed by a person described in Section 8.7.1, or by a duly authorized representative of that person.

8.7.3. Duly Authorized Representative

For a purpose of satisfying signatory requirements for reports (Section 8.7.2), a person is a duly authorized representative only if:

- a) the authorization is made in writing by a person described in Section 8.7.1;
- b) the authorization specifies an individual having responsibility for the overall operation of the regulated site or activity such as the position of



plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company; a duly authorized representative may thus be either a named individual or any individual occupying a named position; and

- c) the written authorization is submitted to the director or an appropriate EFO. The written authorization shall be a written document including the name of the newly authorized person or any individual occupying a named position as described in paragraph b) above, and the corresponding contact information (title, mailing address, phone number and E-mail address) for the authorized person or position. The written authorization shall be signed by the newly authorized person accepting responsibility and by the person described in Section 8.7.1 delegating the authority.

8.7.4. Changes to Authorization

If an authorization under Sections 8.7.1 or 8.7.3 is no longer accurate because a different individual or position has responsibility as the primary or secondary permittee, but the company name (permittee name) remains the same, a new NOI and SWPPP certification shall be submitted and signed by the new party who meets signatory authority satisfying the requirements of Sections 8.7.1 or 8.7.3 . The NOI shall include the new individual's information (title, mailing address, phone number and E-mail address), the existing tracking number and the project name.

8.7.5. Signatory Requirements for Primary Permittees

Primary permittees required to sign an NOI and SWPPP because they meet the definition of an operator (Subpart 2.1) shall sign the following certification statement on the NOI and on the SWPPP:

"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."



8.7.6. Signatory Requirements for Secondary Permittees

Secondary permittees required to sign an NOI and SWPPP because they meet the definition of an operator but who are not primarily responsible for preparing an NOI and SWPPP, shall sign the following certification statement on the NOI and on the SWPPP:

"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."

8.8. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to Section 311 of the Clean Water Act or Section 106 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

8.9. PROPERTY RIGHTS

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges; nor does it authorize any injury to private property, any invasion of personal rights or any infringement of federal, state or local laws or regulations. The issuance of this permit does not authorize trespassing or discharges of stormwater or non-stormwater across private property.

8.10. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.



8.11. INDIVIDUAL PERMITS

8.11.1. Required Individual Permit Coverage

The director may require any person covered by this permit to apply for and obtain an individual NPDES permit to ensure adequate protection of designated uses of a receiving stream. Any interested person may petition the director in writing to take action under this paragraph but must include in their petition the justification for such an action. Where the director requires a discharger authorized to discharge under this permit to apply for an individual NPDES permit, the director shall notify the discharger in writing that an individual permit application is required. This notification will include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the discharger to file the application and a statement that coverage under this general permit shall terminate upon the effective date of an individual NPDES permit; or denial of coverage under an individual permit. An individual NPDES permit is required only when additional permit terms or conditions beyond those set forth herein are necessary to protect water quality. Criteria for the division to require an individual NPDES permit may include, but are not limited to:

- a) Due to unique site conditions the discharge may result in greater than de minimis degradation, or a threat to threatened or endangered aquatic or semi-aquatic species.
- b) The total acreage to be disturbed and/or total drainage area to an outfall may exceed the capability of standard EPSCs and other BMPs to prevent pollution to waters.
- c) Steep grades or erosive soil conditions warrant site-specific controls that exceed the conditions of the CGP.
- d) Other site-specific conditions, such as contaminated soils or public lands.

The notification may require stabilization of the site and suspend coverage under this general permit until the individual permit is issued. Individual permit applications and updated SWPPP shall be submitted to the appropriate Environmental Field Office of the division as indicated in Subpart 3.4. The director may grant additional time to submit the application upon request of the applicant. If a discharger fails to submit in a timely manner an individual NPDES permit application as required by the director under this paragraph, then the applicability of this permit to the discharger will be terminated at the end of the day specified by the director for application submittal.



If the decision to require an individual NPDES permit precedes the issuance of coverage under this general permit, earth disturbing activities cannot begin until the individual permit is issued.

8.11.2. Permittee-Requested Individual Permit Coverage

Any discharger authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. Any discharger that knowingly cannot abide by the terms and conditions of this permit must apply for an individual permit. In such cases, the permittee shall submit an individual application in accordance with the requirements of 40 CFR 122.26(c)(1)(ii), with reasons supporting the request, and a SWPPP to the appropriate division's Environmental Field Office. The request may be granted by issuance of an individual permit, or alternative general permit, if the reasons cited by the permittee are adequate to support the request.

8.11.3. General Permit Termination

When an individual NPDES permit is issued to a discharger otherwise subject to this permit, or the discharger is authorized to discharge under an alternative NPDES general permit, the applicability of this permit to the discharger is terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to an owner or operator otherwise subject to this permit, or the owner or operator is denied for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is terminated on the date of such denial, unless otherwise specified by the director. Coverage under the Tennessee Multi-Sector General Permit for the Discharge of Stormwater from an Industrial Activity (TMSP) will not be considered as an alternative general permit under this section without being specified by the director.

8.12. OTHER, NON-STORMWATER, PROGRAM REQUIREMENTS

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

8.13. PROPER OPERATION AND MAINTENANCE

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related equipment) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWPPPs.



Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee, when determined by the permittee or the division to be necessary to achieve compliance with the conditions of the permit.

8.14. INSPECTION AND ENTRY

The permittee shall allow authorized representatives of the Environmental Protection Agency, the director or an authorized representative of the commissioner of TDEC, or, in the case of a construction site which discharges through a municipal separate storm sewer, an authorized representative of the MS4 receiving the discharge, upon the presentation of credentials and other documents as may be required by law:

- a) to enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- b) to have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and
- c) to inspect any facilities or equipment, including monitoring and control equipment.

8.15. PERMIT ACTIONS

This permit may be issued, modified, revoked, reissued or terminated for cause in accordance with this permit and the applicable requirements of T.C.A. § 69-3-108. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.



PART 9

9. REQUIREMENTS FOR TERMINATION OF COVERAGE

9.1. TERMINATION OF DEVELOPER AND BUILDER COVERAGE

9.1.1. Termination Process for Primary Permittees

Primary permittees wishing to terminate coverage under this permit must submit a completed Notice of Termination (NOT) form provided in Appendix B of this permit (representative photo or video documentation of site stabilization is recommended). Electronic submittal is encouraged (see NPDES Electronic Reporting for more information). Primary permittees who abandon a site and fail to submit the NOT will be in violation of this permit. If the NOT was not submitted five years following the “estimated end date” (as identified on the NOI), the division can terminate the CGP coverage, unless the permittee specifically requests to maintain coverage. Signs notifying the public of the construction activity shall be in place until the NOT form has been submitted. Primary permittees may terminate permit coverage only if the conditions described below occur at the site:

- a) For areas where the primary permittee has control, all earth-disturbing activities and, if applicable, construction support activities permitted under Section 1.2.2 at the site are complete and the following requirements are met:
 - i. For any areas that were disturbed during construction, are not covered by permanent structures and over which the permittee had control during the construction activities; the requirements for permanent vegetation or non-vegetative stabilization described in Subsection 5.5.3.4 are met;
 - ii. The permittee has removed and properly disposed of all construction materials, as well as waste and waste handling devices. The permittee has removed all equipment and vehicles that were used during construction, unless they are intended for long-term use following termination of permit coverage;
 - iii. The permittee has removed all stormwater controls that were installed and maintained during construction, except those that are intended for long-term use following termination of permit coverage;
 - iv. The permittee has identified in the SWPPP who is responsible for ongoing maintenance of any stormwater controls left on the site for long-term use following termination of permit coverage, and
 - v. The groundcover achieves permanent stabilization.



- b) The permittee has transferred control of all areas of the site for which he is responsible (including, but not limited to, infrastructure, common areas, [stormwater](#) drainage structures, [sediment](#) control basin) under this permit to another [operator](#), and that [operator](#) has submitted an [NOI](#) and obtained coverage under this permit.
- c) The permittee obtains coverage under an individual or alternative general NPDES permit.

9.1.2. NOT Review

The division may review [NOTs](#) for completeness and accuracy and, when necessary, investigate the proposed site for which the [NOT](#) was submitted. Coverage under the permit is terminated when the permit record is published on [TDEC's DataViewer](#) as "Inactive." [Operators](#) may be liable for discharges that occur from the site after termination.

The division retains the right to deny termination of coverage under this general permit upon receipt of the [NOT](#). If the local Environmental Field Office has information indicating that the permit coverage is not eligible for termination, written notification will be provided within 30 days of receipt that permit coverage has not been terminated. The notification will include a summary of existing deficiencies. When the site meets the termination criteria, the [NOT](#) should be re-submitted.

If any permittee files for bankruptcy or the site is foreclosed on by the lender, the permittee shall notify [the division](#) of the situation so that [the division](#) may assess the site to determine if permit coverage should be obtained by any other person or whether other action is needed.

9.2. TERMINATION OF BUILDER AND CONTRACTOR COVERAGE

9.2.1. Termination Process for Secondary Permittees

Secondary permittees must request termination of coverage under this permit by submitting a [NOT](#) when they are no longer an [operator](#) at the construction site. Electronic submittal is encouraged (see [NPDES Electronic Reporting](#) for more information). Secondary permittees receive coverage under this permit but are not normally mailed a NOC. Consequently, [the division](#) may, but is not required to, notify secondary permittees that their notice of termination has been received. If [the division](#) has reason to believe that the secondary permittee's [NOT](#) should



not have been submitted, the division will deny the secondary permittee's NOT in writing, with specific reasons as to why the NOT should not have been submitted.

9.3. NOT CERTIFICATION

The NOT and the following certification must be signed in accordance with Subpart 8.7 of this permit:

"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 state is unlawful under the Tennessee Water Quality Control 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 Tennessee Water Quality Control Act. 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."

9.4. WHERE TO SUBMIT A NOT?

Electronic submittal is encouraged (see [NPDES Electronic Reporting](#) for more information). Otherwise, the NOT shall be submitted to the Environmental Field Office (EFO) which issued the NOC to the primary permittee. A list of counties and the corresponding EFOs is provided in Subpart 3.4. The appropriate permit tracking number must be clearly printed on the form.



PART 10

10. DEFINITIONS, ACRONYMS AND RESOURCES

10.1. DEFINITIONS

2-year 24-hour 5-year 24-hour	2-year and 5-year design storm depths and intensities The estimated design rainfall amounts, for any return period interval (i.e., 2-yr, 5-yr, 25-yr, etc.,) in terms of either 24-hour depths or intensities for any duration, can be found by accessing the data available at https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html . Other data sources may be acceptable with prior written approval by TDEC Division of Water Resources.
ARAP	Aquatic Resource Alteration Permit Persons who wish to make an alteration to a <u>stream</u> , river, lake or wetland must first obtain a water quality permit. Physical alterations to properties of waters of the state require an ARAP or a §401 Water Quality Certification (§401 certification). Examples of <u>stream</u> alterations that require a permit from the division include: • Dredging, excavation, channel widening, or straightening • Bank sloping; stabilization • Channel relocation • Water diversions or withdrawals • Dams, weirs, dikes, levees or other similar structures • Flooding, excavating, draining and/or filling a wetland • Road and utility crossings • Structural fill General ARAPs are developed and maintained by the division to provide a streamlined, expedited means of authorizing projects that singularly or cumulatively propose minor impacts to water resources.
BMP	Best Management Practices ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the discharge of pollutants to <u>waters</u> of the state. BMPs also include treatment requirements, operating procedures; and practices to control plant site runoff,



	spillage, leaks, sludge or waste disposal, or drainage from raw material storage. BMPs include source control practices (non-structural BMPs) and engineered structures designed to treat runoff. <u>Structural BMPs</u> are facilities that help prevent pollutants in stormwater runoff from leaving the site. <u>Non-structural BMPs</u> are techniques, activities and processes that reduce pollutants at the source.
borrow pit	Borrow Pit is an excavation from which erodible material (typically <u>soil</u>) is removed to be fill for another site. There is no processing or separation of erodible material conducted at the site. Given the nature of activity and pollutants present at such excavation, a borrow pit is considered a construction activity for the purpose of this permit.
buffer zone	Buffer Zone or Water Quality Riparian Buffer is a permanent strip of natural perennial vegetation, adjacent to a <u>stream</u>, river, wetland, pond, or lake that contains dense vegetation made up of grass, shrubs, and/or trees. The purpose of a water quality riparian buffer is to maintain existing water quality by minimizing risk of any potential <u>sediments</u>, nutrients or other pollutants reaching adjacent surface waters and to further prevent negative water quality impacts by providing canopy over adjacent waters
clearing	Clearing refers to removal of vegetation and disturbance of <u>soil</u> prior to grading or excavation in anticipation of construction activities. Clearing may also refer to wide area land disturbance in anticipation of non-construction activities. Clearing, grading and excavation do not refer to clearing of vegetation along existing or new roadways, highways, dams or power lines for sight distance or other maintenance and/or safety concerns, or cold planning, milling, and/or removal of concrete and/or bituminous asphalt roadway pavement surfaces. The clearing of land for agricultural purposes is exempt from federal <u>stormwater</u> NPDES permitting in accordance with Section 401(1)(1) of the 1987 Water Quality Act and state <u>stormwater</u> NPDES permitting in accordance with the Tennessee Water Quality Control Act of 1977 (<u>T.C.A. 69-3-101 et seq.</u>).



commencement	Commencement of construction: the initial disturbance of <u>soils</u> associated with clearing, grading, excavating or other construction activities.
common plan	Common plan of development or sale is broadly defined as any announcement or documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, zoning request, computer design) or physical demarcation (including boundary signs, lot stakes, surveyor markings) indicating construction activities may occur on a specific plot. A common plan of development or sale identifies a situation in which multiple areas of disturbance are occurring on contiguous areas. This applies because the activities may take place at different times, on different schedules, by different <u>operators</u> .
control measure	Control measure refers to any Best Management Practice (BMP) or other method used to prevent or reduce the discharge of pollutants to waters of the state.
CWA	CWA means the Clean Water Act of 1977 or the Federal Water Pollution Control Act (33 U.S.C. 1251, et seq.)
director	Director means the director, or authorized representative, of the Division of Water Resources of the State of Tennessee, Department of Environment and Conservation.
degradation	Degradation means the alteration of the properties of waters by the addition of pollutants, withdrawal of water, or removal of habitat, except those alterations of a short duration.
de minimis	De Minimis is degradation of a small magnitude, as provided in this paragraph: (a) <u>Discharges and withdrawals</u> : 1. Subject to the limitation in part 3 of this subparagraph, a single discharge other than those from new domestic wastewater sources will be considered de minimis if it uses less than five percent of the available assimilative capacity for the substance being discharged. 2. Subject to the limitation in part 3 of this subparagraph, a single water withdrawal will be considered de minimis if it removes less than five percent of the 7Q10 flow of the <u>stream</u> .



	3. If more than one activity described in part 1 or 2 of this subparagraph has been authorized in a segment and the total of the authorized and proposed impacts uses no more than 10% of the assimilative capacity, or 7Q10 low flow, they are presumed to be de minimis. Where the total of the authorized and proposed impacts uses 10% of the assimilative capacity, or 7Q10 low flow, additional degradation may only be treated as de minimis if the Division finds on a scientific basis that the additional degradation has an insignificant effect on the resource. (b) Habitat alterations authorized by an Aquatic Resource Alteration Permit (ARAP) are de minimis if the Division finds that the impacts, individually and cumulatively, are offset by impact minimization and/or in-system mitigation, provided however, in Outstanding National Resource Waters (ONRWs) the mitigation must occur within the ONRW.
discharge of a pollutant	Discharge or discharge of a pollutant refers to the addition of pollutants to waters from a source.
disturbed area	Disturbed area means the total area presented as part of the development (and/or of a larger common plan of development) subject to being cleared, graded, grubbed, filled or excavated during the life of the development. The area cannot be limited to only the portion of the total area that the site-wide owner/developer initially disturbs through the process of various land clearing activities or in the construction of roadways, sewers, drainfields, and water utilities, <u>stormwater</u> drainage structures, etc., to make the property marketable.
division	Division means the Division of Water Resources of the State of Tennessee, Department of Environment and Conservation
exceptional waters	Exceptional Tennessee Waters are surface waters designated by the division as having the characteristics set forth at Tennessee Rules, Chapter 0400-40-03-.06(4). Characteristics include waters within parks or refuges; scenic rivers; waters with threatened or endangered species; waters that provide specialized recreational opportunities; waters within areas designated as lands



	unsuitable for mining; waters with naturally reproducing trout; waters with exceptional biological diversity and other waters with outstanding ecological or recreational value.
permanent stabilization	Permanent Stabilization means that all <u>soil</u> disturbing activities at the site have been completed and one of the three following criteria is met: (1) A perennial, preferably native, vegetative cover with a uniform (i.e., evenly distributed, without large bare areas) density of at least 70 percent has been established on all unpaved areas and areas not covered by permanent structures, and all slopes and channels have been permanently stabilized against erosion. (2) Equivalent permanent stabilization measures such as the use of riprap; permanent geotextiles; hardened surface materials including concrete, asphalt, gabion baskets or Reno mattresses have been employed. (3) For construction projects on land used for agricultural or silvicultural purposes, <u>permanent stabilization</u> may be accomplished by returning the disturbed land to its preconstruction agricultural or silvicultural use.
improved sinkhole	Improved sinkhole is a natural surface depression that has been altered in order to direct fluids into the hole opening. Improved sinkhole is a type of injection well regulated under the Underground Injection Control (UIC) program. Underground injection constitutes an intentional disposal of waste waters in natural depressions, open fractures and crevices, such as those commonly associated with weathering of limestone.
Level 1	Level 1 - Fundamentals of Erosion Prevention and Sediment Control training and certification program administered by University of Tennessee Water Resources Research Center (https://tnepsc.org/index.asp). The Fundamentals course is a foundation-building course intended for individuals involved in land-disturbing activities covered by the Construction General Permit. The course aims to build a working knowledge of erosion and <u>sedimentation</u> processes and practices and is intended for: site inspectors, inspection and enforcement personnel from all levels of government, plan preparers and reviewers, and designers and engineers. Topics include:



	Construction General Permit and related <u>SWPPP</u> requirements; function, installation, limitations, inspection and maintenance of Best Management Practices; roles of local officials and state government agencies involved in the permitting process; and basic hydrologic and erosion processes. Upon successful completion of a Course Certification Exam, the participant receives a Level 1 TNEPSC certificate. The Level 1 certificate is valid for three full years following the year that the certificate was issued. To meet the requirement for Level 1 certified staff, TDOT may develop and administer an approved equivalent Level1 training and certification program as provided in the TDOT individual <u>MS4</u> Permit. The equivalent TDOT Level 1 certification is valid only for TDOT staff and for projects where TDOT is the primary site <u>operator</u>.
Level 2	Level 2 - Design Principles for Erosion Prevention and Sediment Control for Construction Sites training and certification program administered by University of Tennessee Water Resources Research Center (https://tnepsc.org/index.asp). It is an advanced 2-day workshop designed for engineers and other professionals who have completed the prerequisite Level 1 course. The Level 2 Design workshop provides the general tools needed for developing an acceptable, working <u>SWPPP</u>. Topics discussed in the course include: hydrologic methods for determining peak flows; principles of <u>soil</u> erosion, scouring and <u>sediment</u> transport processes, including practice examples for preventing erosion; and open channel principles and practices for designing a stable channel, including use and examples of riprap, blankets and matting, and vegetation; <u>stormwater</u> control requirements and design; <u>sedimentation</u> principles; and <u>temporary sediment basin</u> design requirements, and detailed examples. The Level 2 Design workshop provides a Certificate of Completion after attending both days and successfully completing the take-home exam.
linear project	Linear Project is a land disturbing activity as conducted by an underground/overhead utility or highway department, including, but not limited to, any cable line or wire for the transmission of electrical energy; any conveyance pipeline for transportation of gaseous or liquid substance; any



	cable line or wire for communications; or any other energy resource transmission ROW or utility infrastructure, e.g., roads and highways. Activities include the construction and installation of these utilities within a corridor. Linear project activities also include the construction of access roads, staging areas and borrow/spoil sites associated with the linear project. Land disturbance specific to the development of residential and commercial subdivisions or high-rise structures is not considered a linear project.
measurable degradation	Measurable Degradation , as used in the context of <u>discharges</u> or withdrawals, means changes in parameters of waters that are of sufficient magnitude to be detectable by the best available instrumentation or laboratory analyses.
month	Month or Monthly refers to calendar months.
MS4	"Municipal Separate Storm Sewer System" or "MS4" is defined in 40 CFR §122.26(b)(8) to mean a conveyance or system of conveyances (e.g., roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains) that are: a) owned and operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of sewage, industrial wastes, <u>stormwater</u>, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that <u>discharges</u> to waters of the United States; b) designed or used for collecting or conveying <u>stormwater</u>; c) not a combined sewer; and d) not part of a Publicly Owned Treatment Works (POTW) as defined in 40 CFR §122.2.
operator	Operator for the purpose of this permit and in the context of <u>stormwater</u> associated with construction activity, means any person (typically considered the primary permittee)

	associated with a construction project that meets either of the following two criteria: a) This 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 who is the current owner of the construction site. b) This person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a <u>SWPPP</u> 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. It is anticipated that at different phases of a construction project, different types of parties may satisfy the definition of “operator” (see Part 2 of this permit).
point source (or outfall)	Point source means any discernible, confined and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include introduction of pollutants from non-point source agricultural and silvicultural activities, including <u>stormwater</u> runoff from orchards, cultivated crops, pastures, range lands, forest lands or return flows from irrigated agriculture or agricultural <u>stormwater</u> runoff. In short, outfall is a point where runoff leaves the site as a concentrated flow in a discrete conveyance. Phrase “point source” and term “outfall” are used interchangeably in this general permit, and can be considered synonyms.
pollutant	Pollutant means sewage, industrial wastes, or other wastes.
QLP	Qualifying State, Tribal, or local erosion and sediment control program is one that includes, as defined in 40 CFR 122.44(s):



	a) Requirements for construction site <u>operators</u> to implement appropriate erosion and <u>sediment</u> control best management practices. b) Requirements for construction site <u>operators</u> to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality. c) Requirements for construction site <u>operators</u> to develop and implement a <u>stormwater</u> pollution prevention plan. A stormwater pollution prevention plan includes site descriptions, descriptions of appropriate control measures, copies of approved State, Tribal or local requirements, maintenance procedures, inspection procedures and identification of non-<u>stormwater</u> discharges. d) Requirements to submit a site plan for review that incorporates consideration of potential water quality impacts.
rainfall	A rainfall event is defined as any occurrence of rain preceded by 10 hours without precipitation that results in an accumulation of 0.01 inches or more. Instances of rainfall occurring within 10 hours of each other will be considered a single rainfall event.
registered engineer	Registered Engineer and Registered Landscape Architect An engineer or landscape architect certified and registered by the State Board of Architectural and Engineer Examiners pursuant to Section 62-202, Tennessee Code Annotated, to practice in Tennessee.
runoff coefficient	Runoff coefficient means the fraction of total rainfall that will appear at the conveyance as runoff. Runoff coefficient is also defined as the ratio of the amount of water that is not absorbed by the surface to the total amount of water that falls during a rainstorm.
sediment	Sediment means solid material, both inorganic (mineral) and organic, that is in suspension, is being transported; or has been moved from the site of origin by wind, water, gravity or ice as a product of erosion.
sediment basin	Sediment basin A temporary basin consisting of an embankment constructed across a wet weather



	conveyance, an excavation that creates a basin or by a combination of both. A sediment basin typically consists of a forebay cell, dam, impoundment, permanent pool, primary spillway, secondary or emergency spillway and surface dewatering device. The size and shape of the basin depends on the location, size of drainage area, incoming runoff volume and peak flow, <u>soil</u> type and particle size, land cover, and receiving <u>stream</u> classification (i.e., waters with unavailable parameters, Exceptional TN Waters, or waters with available parameters).
sedimentation	Sedimentation means the action or process of forming or depositing sediment.
soil	Soil or Topsoil means the unconsolidated mineral and organic material on the immediate surface of the earth that serves as a natural medium for the growth of plants.
steep slope	Steep Slope or Steep Grade means a natural or created slope of 35% grade or greater. Designers of sites with steep slopes must pay attention to <u>stormwater</u> management in the <u>SWPPP</u> to engineer runoff around or over a steep slope so as not to erode the slope. In addition, site managers should focus on erosion prevention on the slopes and stabilize the slopes as soon as practicable to prevent slope failure or sediment discharges from the project.
stormwater	Stormwater means rainfall runoff, snow melt runoff, and surface runoff and drainage.
stream	A Stream is a surface water that is not a wet weather conveyance. Therefore, as used in this permit, "stream" includes lakes, wetlands and other non-linear surface waters.
construction stormwater	Stormwater associated with industrial activity is defined in 40 CFR 122.26(b)(14) and incorporated here by reference. Most relevant to this permit is 40 CFR 122.26(b)(14)(x), which relates to construction activity including clearing, grading, filling and excavation activities, including borrow pits containing erodible material. Disturbance of soil for the purpose of crop production is exempt from permit requirements, but stormwater discharges from agriculture-related activities that involve construction of structures (e.g., barn construction, road construction, pond construction) are considered associated with industrial



	activity. Maintenance to the original line and grade, hydraulic capacity; or to the original purpose of the facility (e.g., re-clearing, minor excavation performed around an existing structure necessary for maintenance or repair and repaving of an existing road) is not considered a construction activity for the purpose of this permit.
discharge-related activities	Stormwater discharge-related activities means activities that cause, contribute to or result in point source stormwater pollutant discharges. These activities may include excavation, site development, grading and other surface disturbance activities; and activities to control stormwater including the siting, construction and operation of best management practices (BMPs).
SWPPP	Stormwater Pollution Prevention Plan is a written site-specific plan required by this permit that includes a narrative pollution prevention plan and graphical erosion and sediment control plan. In its basic form, the plan contains a site map, a description of construction activities that could introduce pollutants to stormwater runoff, a description of measures or practices to control these pollutants, and erosion and sediment control plans and specifications. It must be prepared and submitted before construction begins. In order to effectively reduce erosion and <u>sedimentation</u> impacts, Best Management Practices (BMPs) must be designed, installed and maintained during land disturbing activities. The <u>SWPPP</u> should be prepared in accordance with the <u>Tennessee Erosion and Sediment Control Handbook</u> .
take	Take of an endangered species means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or attempt to engage in any such conduct.
the handbook	<u>Tennessee Erosion and Sediment Control Handbook</u> is a guidance issued by the Division of Water Resources for the purpose of developing Stormwater Pollution Prevention Plans and Erosion and Sediment Control Plans required by the TNCGP. The handbook is designed to provide information to planners, developers, engineers and contractors on the proper selection, installation and maintenance of BMPs. The handbook is intended for use during the design and



	construction of projects that require erosion and sediment controls to protect waters of the state.
temporary stabilization	Temporary stabilization is achieved when vegetation or non-erodible surface has been established on the area of disturbance and construction activity has temporarily ceased. Under certain conditions, temporary stabilization is required when construction activities temporarily cease. However, if future construction activity is planned, permit coverage continues.
TMDL	Total maximum daily load (TMDL) means the sum of the individual wasteload allocations for <u>point sources</u> and load allocations for nonpoint sources and natural background (40 CFR 130.2(l)). TMDL is a study that quantifies the amount of a pollutant in a <u>stream</u>, identifies the sources of the pollutant and recommends regulatory or other actions that may need to be taken in order for the <u>stream</u> to cease being polluted. TMDLs can also be described by the following equation: $\text{TMDL} = \text{sum of nonpoint sources (LA)} + \text{sum of } \underline{\text{point sources (WLA)}} + \text{margin of safety}$ A list of completed TMDLs that have been approved by EPA can be found at our web site: https://www.tn.gov/environment/program-areas/wr-water-resources/watershed-stewardship/tennessee-s-total-maximum-daily-load--tmdl--program.html
treatment chemicals	Treatment chemicals are polymers, flocculants or other chemicals used to reduce turbidity in stormwater discharges by chemically bonding to suspended silts and other soil materials and causing them to bind together and settle out. Common examples of anionic treatment chemicals are chitosan and anionic PAM.
turbidity	Turbidity is the cloudiness or haziness of a fluid caused by individual particles (suspended solids) that are generally invisible to the naked eye, similar to smoke in air.
waste site	Waste site is an area where material from a construction site is disposed of. When the material is erodible, such as soil, the site must be treated as a construction site.



waters or waters of the state	Waters (or waters of the state) means any and all water, public or private, on or beneath the surface of the ground, which are contained within, flow through, or border upon Tennessee or any portion thereof, except those bodies of water confined to and retained within the limits of private property in single ownership which do not combine or effect a junction with natural surface or underground waters.
unavailable parameters	Waters with unavailable parameters means any segment of surface waters that has been identified by the division as failing to support one or more classified uses. For the purpose of this permit, pollutant of concern is siltation. Based on the most recent assessment information available to staff, the division will notify applicants and permittees if their discharge is into, or is affecting, waters with unavailable parameters. Resources to be used in making this determination include biennial compilations of impaired waters, databases of assessment information, updated GIS coverages (https://tdeconline.tn.gov/dwr/), and the results of recent field surveys. GIS coverages of the streams and lakes not meeting water quality standards, plus the biennial list of waters with unavailable parameters, can be found at https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/water-quality-reports---publications.html .
week	A one-week period is a synonym of a calendar-week ; typically, a period from Sunday through Saturday.
wet weather conveyance	Wet weather conveyances are man-made or natural watercourses, including natural watercourses that have been modified by channelization, that meet the following: a) The conveyance carries flow only in direct response to precipitation runoff in its immediate locality. b) The conveyance's channels are at all times above the ground water table. c) The flow carried by the conveyance is not suitable for drinking water supplies. d) Hydrological and biological analyses indicate that, due to naturally occurring ephemeral or low flow under normal weather conditions, there is not sufficient water



	to support fish or multiple populations of obligate lotic aquatic organisms whose life cycle includes an aquatic phase of at least two months. (Tennessee Rules, Chapter 0400-40-3-.04(3)).
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10.2. ACRONYMS AND ABBREVIATIONS

7Q10	7-day minimum, 10-year recurrence interval
<u>ARAP</u>	Aquatic Resource Alteration Permit
<u>BMP</u>	Best Management Practice
BPT	Best Practicable Control Technology Currently Available
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CGP	Construction General Permit (this NPDES permit)
<u>CWA</u>	Clean Water Act
<u>EFO</u>	Environmental Field Office (see Subpart 3.4)
EPA	(U.S.) Environmental Protection Agency
EPSC	Erosion Prevention and Sediment Control
<u>MS4</u>	Municipal Separate Storm Sewer System
NOC	Notice of Coverage (see Subpart 1.5)
NOI	Notice of Intent (to be covered by this permit – see Section 1.4.1)
NOT	Notice of Termination (see Part 9)
NPDES	National Pollutant Discharge Elimination System
ONRW	Outstanding National Resource Waters
<u>QLP</u>	Qualifying Local Program (see Section 1.4.5)
<u>SWPPP</u>	Stormwater Pollution Prevention Plan
TDEC	Tennessee Department of Environment and Conservation
TDOT	Tennessee Department of Transportation
<u>TMDL</u>	Total Maximum Daily Load
TMSP	Tennessee Multi-Sector General Permit for the Discharge of Stormwater from an Industrial Activity
TVA	Tennessee Valley Authority
TWQCA	Tennessee Water Quality Control Act
UIC	Underground Injection Control
USGS	United States Geological Survey



10.3. RESOURCES, HYPERLINKS, AND WEB PAGES

Electronic Code of Federal Regulations (eCFR), Title 40 (40 CFR § 1 through § 1099)

<https://www.ecfr.gov/cgi-bin/text-idx?SID=75202eb5d09974cab585afeea981220b&mc=true&tpl=/ecfrbrowse/Title40/40chapter1.tpl>

Electronic Reporting (NetDMR) Waiver Request

https://www.tn.gov/content/dam/tn/environment/water/documents/wr_electronic_reporting_waiver.pdf

Online Forms

[NPDES Electronic Reporting](#)

NPDES Compliance Inspection Manual (EPA)

<https://www.epa.gov/sites/production/files/2017-01/documents/npdesinspect.pdf>

NPDES Electronic Reporting Rule

<https://www.federalregister.gov/documents/2015/10/22/2015-24954/national-pollutant-discharge-elimination-system-npdes-electronic-reporting-rule>

Rules of the TN Department of Environment and Conservation, Chapter 0400-40

<https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm>

TDEC Water Quality Rules, Reports, and Publications

<https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/water-quality-reports---publications.html>

Technical Support Document for Water Quality-based Toxics Control (EPA)

<https://www3.epa.gov/npdes/pubs/owm0264.pdf>

Tennessee Water Resources Data and Map Viewers

<https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/water-resources-data-map-viewers.html>

USGS StreamStats

https://www.usgs.gov/mission-areas/water-resources/science/streamstats-streamflow-statistics-and-spatial-analysis-tools?qt-science_center_objects=0#qt-science_center_objects



USGS SWToolbox

<https://www.usgs.gov/software/swtoolbox-software-information>

(End of body of permit; appendices follow.)

APPENDIX A – NOTICE OF INTENT FORM (NOI)

(See Next Page)

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION**

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor

Nashville, TN 37243

Toll Free Number: 1-888-891-8332 (TDEC)

**NOTICE OF INTENT (NOI) FOR GENERAL NPDES PERMIT FOR
STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES (TNR100000)**

Site or Project Name:		NPDES Tracking Number: TNR	
Street Address including city or zip code or Location:		Construction Start Date:	
		Estimated End Date:	
Site Description:		Latitude (dd.dddd):	
		Longitude (-dd.dddd):	
County(ies):	MS4 Jurisdiction (if applicable):	Acres Disturbed:	
		Total Acres:	
Are there any streams ☐ and/or wetlands ☐ on or adjacent to the construction site? If wetlands are located on-site and may be impacted, attach wetlands delineation report. If an Aquatic Resource Alteration Permit has been obtained for this site, what is the permit number? ARAP Number:			
Receiving waters:			
Include the SWPPP with the NOI ☐ SWPPP Included		Include a site location ☐ Map Included map	

Name of Site Owner or Developer (Site-Wide Permittee): (correct legal name of person, company, or entity that has operational or design control over construction plans and specifications)			
For corporate entities only, provide the Tennessee Secretary of State (SOS) Control Number:			
Site Owner or Developer Contact Name: (individual responsible for site)		Title or Position: (the party who signs the certification below):	
Mailing Address:	City:	State:	Zip:
Phone: ()	E-mail:		

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

Owner or Developer 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 or Developer Name: (print or type)	Signature:	Date:

Contractor(s) 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.

Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:
Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:
Primary contractor name, address, and SOS control number (if applicable): (print or type)	Signature:	Date:

NOTICE OF INTENT (NOI) FOR GENERAL NPDES PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES (TNR100000)

Purpose of this form: A completed notice of intent (NOI) must be submitted to obtain coverage under the Tennessee General NPDES Permit for Discharges of Stormwater Associated with Construction Activity (permit). **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.** This permit is required for stormwater 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 appropriate permit 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):

(i) Projects equal to or greater than 150 acres	\$10,000
(ii) Projects equal to or greater than 50 acres and less than 150 acres	\$6,000
(iii) Projects equal to or greater than 20 acres and less than 50 acres	\$3,000
(iv) Projects equal to or greater than 5 acres and less than 20 acres	\$1,000
(v) Projects equal to or greater than 1 acre and less than 5 acres	\$250
(vi) Projects seeking subsequent coverage under an actively covered larger common plan of development or sale	\$100

There is no fee for sites less than 1 acre. A separate annual maintenance fee is also required for construction activities that exceed 1 year under general permit coverage. Tennessee Rules, Chapter 0400-40-11-.02(b)(12)).

Who must submit the NOI form? Per Section 2 of the permit, all site operators must submit an NOI form. "Operator" for the purpose of this permit and in the context of stormwater 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 landowner of the construction site. This person 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 primary permittee, any separate or subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The site-wide site-specific SWPPP shall be prepared in accordance with the requirements of part 5 of the permit and must be submitted with the NOI unless the NOI being submitted is to only add a contractor (secondary permittee) to an existing coverage.

Artificial entities (e.g., corporations or partnerships excluding entities not required to register) must submit the TN Secretary of State, Division of Business Services, control number. The Division reserves the right to deny coverage to artificial entities that are not properly registered and in good standing with the TN Secretary of State.

Notice of Coverage The division will review the NOI for completeness and accuracy and prepare a notice of coverage (NOC). Stormwater discharge from the construction site is authorized as of the effective date of the NOC.

Complete the form Type or print clearly, using ink and not markers or pencil. Answer each item or enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your construction site or activity. 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, a map, and the SWPPP.**

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 geographic information available to describe the location (reference to adjacent highways, roads and structures; e.g. intersection of state highways 70 and 100). Latitude and longitude (expressed in decimal degrees) of the center of the site can be located on USGS quadrangle maps. The maps can be obtained at the USGS World Wide Web site: <http://www.usgs.gov/>; latitude and longitude information can be found at numerous other web sites. Attach a copy of a portion of a 7.5 minute topographic map, a city map, or a county 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.

Give name of the receiving waters Trace the route of stormwater runoff from the construction site and determine the name of the river(s), stream(s), creek(s), wetland(s), lake(s) or any other water course(s) into which the stormwater runoff drains. Note that the receiving 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 water body 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 you have a question about the ARAP program, contact your local Environmental 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** or use MyTDEC Forms for electronic submittal.

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 Parkway, Suite 206	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601

APPENDIX B – NOTICE OF TERMINATION FORM (NOT)

(See Next Page)

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)**

Division of Water Resources (DWR)

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. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been permanently 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. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form.

Submit this form to the local DWR Environmental Field Office (EFO) address (see table below) or using MyTDEC Forms electronic submittal process. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

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: (check only one)

☐	Primary permittee termination: all requirements for termination under Permit Part 9.1.1. a) through c) have been met. This includes, but is not limited to, for areas the primary permittee has control all earth-disturbing activities at the site are complete and permanent stabilization as defined in Part 10 of the CGP has been achieved. (attach photo documentation).
☐	When applicable, and you are a primary permittee seeking termination, list who is responsible for ongoing maintenance of stormwater controls left on the site subject for long-term use following termination of coverage:
☐	Secondary permittee termination: all requirements for termination under Permit Part 9.2.1. have been met (no longer an operator at the construction site).

CN-1175 (Rev. 12-21)

RDA 2366

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

APPENDIX C – INSPECTION REPORT FORM

(See Next Page)



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)

Division of Water Resources (DWR)

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 (Inspection Form)**

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/ground conditions:	Rainfall total since last inspection:	Inspector's TNEPSC Certification Number:
Site Assessment ☐ Yes ☐ No	Assessor's TN PE registration number:	Assessor's TNEPSC Level II/CPESC number:

Check the box if the following items are on-site:	
☐	Notice of Coverage (NOC)
☐	Stormwater Pollution Prevention Plan (SWPPP)
☐	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 per the current phase?	☐	☐	
		Yes	No	
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas? (permit section 5.5.3)	☐	☐	
		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? (permit section 5.5.3.5 and 6.3.2)	☐	☐	
		Yes	No	
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track-out? (permit section 5.5.3.1)	☐	☐	
		Yes	No	
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls? (permit section 4.1.3) If "No," describe below the measure to be implemented to address deficiencies.	☐	☐	☐
		N/A	Yes	No
6.	If construction activity at any location on-site has temporarily/permanently ceased, was the area stabilized within 14 days? (permit section 5.5.3.4) If "No," describe below each location and measures taken to stabilize the area(s).	☐	☐	☐
		N/A	Yes	No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from wash waters, exposure of materials and discharges from spills and leaks per section 4.1.4? If "No," describe below the measure to be implemented to address deficiencies.	☐	☐	☐
		N/A	Yes	No

Construction Stormwater Inspection Certification Form (Inspection Form)

Purpose of this form/ Instructions

An inspection, as described in subsection 5.5.3.9. of the General Permit for Stormwater Discharges from Construction Activities ("Permit"), shall be performed at the specified frequency and documented on this form. 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), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

Inspections can be performed by:

- a) a person with an valid certification from the "Fundamentals of Erosion Prevention and Sediment Control Level I" course,
- b) a licensed professional engineer or landscape architect,
- c) a Certified Professional in Erosion and Sediment Control (CPESC), or
- d) a person who has successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

Qualified personnel, as defined in subsection 5.5.3.10 of the Permit (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been permanently 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.

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.

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.

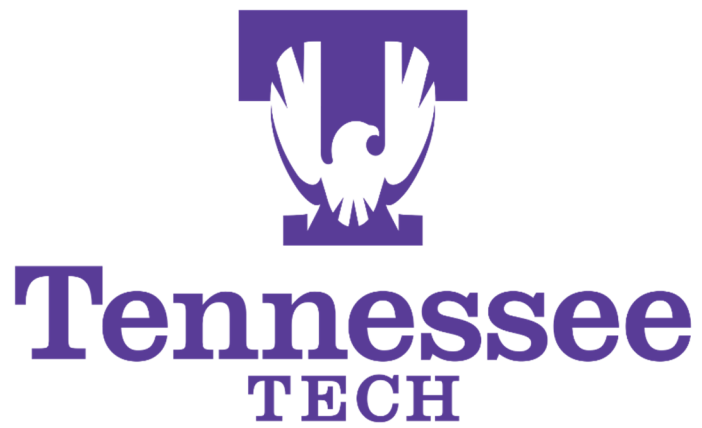
Based on the results of the inspection, any inadequate control measures or control measures in disrepair shall be replaced or modified, or repaired as necessary, before the next rain event if possible, but in no case more than 7 days after the need is identified.

Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 5.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 5.5.2 of the Permit, 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.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the Division's form and the permittee has obtained a written approval from the Division to use the alternative form. Inspection documentation will be maintained on site and made available to the Division upon request. Inspection reports must be submitted to the Division within 10 days of the request.

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.

SITE CONSTRUCTION PLANS



NORTH WHITNEY AVE. PARKING LOT
TENNESSEE TECH UNIVERSITY
SBC #364/011-04-2025



SHEET INDEX	
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CIVIL	
C-101	EXISTING CONDITIONS PLAN
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C-201	SITE PLAN
C-202	SITE COORDINATE PLAN
C-203	SITE COORDINATE PLAN
C-301	GRADING PLAN
C-302	DETAIL AREA GRADING PLAN
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C-501	EROSION CONTROL PLAN - STAGE I
C-502	EROSION CONTROL PLAN - STAGE I
C-503	EROSION CONTROL PLAN - STAGE II
C-504	EROSION CONTROL PLAN - STAGE II
C-505	EROSION CONTROL PLAN - STAGE III
C-506	EROSION CONTROL PLAN - STAGE III
C-601	EROSION CONTROL DETAILS
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ELECTRICAL	
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E001	ELECTRICAL - SITE PLAN
E400	ELECTRICAL - RISER DIAGRAM AND SCHEDULES

SITE DATA	
DEVELOPMENT NAME:	NORTH WHITNEY AVENUE PARKING LOT
LOT AREA:	224.9 +/- ACRES
PARCEL / TAX ID:	0400 B 001.00
ADDRESS:	N WHITNEY AVE. @ WINGS UP WAY
CITY:	COCKEVILLE
COUNTY:	PUTNAM
STATE:	TENNESSEE
FRONT (STREET) SETBACK:	30' (50' MAJOR STREETS)
SIDE SETBACK:	10'(30' ON STREET CORNER)
REAR SETBACK:	20'
ZONING CLASSIFICATION	
EXISTING ZONING:	UNV (UNIVERSITY)
PROPOSED ZONING:	UNV (UNIVERSITY)
BUILDING AREA	
EXISTING BUILDING AREA:	N/A
PROPOSED BUILDING AREA:	N/A
BUILDING HEIGHT:	N/A
LANDSCAPE AREA	
DISTURBED AREA:	(89,923 SQ. FT. (2.064 ACRES) +/-
PARKING SUMMARY	
TOTAL PARKING SPACES REQUIRED (N/A):	N/A
TOTAL PARKING SPACES PROVIDED:	120 SPACES
ACCESSIBLE PARKING SPACES REQUIRED (BASED ON 120 PROVIDED):	N/A
TOTAL ACCESSIBLE PARKING SPACES PROVIDED:	4 SPACES
APPLICANT CONTACT	
<u>OWNER / DEVELOPER:</u>	
TENNESSEE TECHNOLOGICAL UNIVERSITY	
CAPITAL PROJECTS & PLANNING	
915 N WHITNEY AVE. - WHISE ROOM 109	
COCKEVILLE, TN 38505	
CONTACT: STEFANIE REZSNYAK	
PHONE: (561) 236-5161	
EMAIL: SREZSNYAK@TNTECH.EDU	
<u>ENGINEER:</u>	
PALMER ENGINEERING CO.	
2817 ERICA PLACE	
NASHVILLE, TN 37204	
CONTACT: RANDY HARPER, PE, CPESC	
PHONE: (615) 297-8957 (OFFICE) OR (615) 417-7175 (CELL)	
EMAIL: RHARPER2@PALMERNET.COM	



DEMOLITION NOTES:

1. THE OWNER HAS THE FIRST RIGHT OF REFUSAL FOR ALL DEMOLISHED MATERIALS. CONTRACTOR TO CONFIRM STATUS OF ALL DEMOLISHED ITEMS WITH THE OWNER'S CONSTRUCTION PROJECT MANAGER. ALL DEMOLISHED ITEMS NOT KEPT BY THE OWNER TO BE BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR IS TO DISPOSE OF ALL DEMOLISHED MATERIAL NOT KEPT BY THE OWNER OFF OF THE OWNER'S PROPERTY AT NO ADDITIONAL COST.
2. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC. TO BE REMOVED SHALL BE REMOVED TO SUBGRADE.
3. ALL ITEMS OF CONSTRUCTION REMAINING AND NOT SPECIFICALLY MENTIONED THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, TREES, UTILITIES, AND STRUCTURES THAT ARE TO REMAIN. REPAIR CONTRACTOR CAUSED DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
5. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH CRUSHED STONE AND COMPACTED.
6. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS PRIOR TO BEGINNING WORK.
7. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN, AND REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AT THE CONTRACTOR'S EXPENSE.
8. COORDINATE ALL DEMOLITION WITH THE APPROPRIATE UTILITY COMPANY AND THE OWNER PRIOR TO PERFORMING THE WORK AND OBTAIN APPROVAL TO INSURE MINIMAL INTERRUPTIONS IN SERVICE TO EXISTING FACILITIES.
9. CONTRACTOR MUST FILE A NOTICE OF DEMOLITION A MINIMUM OF 10 DAYS PRIOR TO BEGINNING OF DEMOLITION ACTIVITIES. APPLICATION MUST BE FILED WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION, DIVISION OF AIR POLLUTION CONTROL.
10. ALL HAZARDOUS MATERIALS ON-SITE MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL AGENCIES HAVING JUSTIFICATION OVER SUCH, COORDINATE DISPOSAL WITH THE OWNER'S REPRESENTATIVE.
11. ALL UTILITY ADJUSTMENTS TO BE PERFORMED BY RESPECTIVE UTILITY UNLESS OTHERWISE NOTED.
12. EROSION CONTROL SHALL BE INSTALLED AS NECESSARY DURING DEMOLITION OPERATIONS TO INSURE THAT ANY SEDIMENT TRANSPORT/SEDIMENT RUNOFF THAT DOES OCCUR WILL REMAIN ON-SITE.
13. ALL DEMOLITION, TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS.
14. ALL ENVIRONMENTAL ABATEMENT TO BE PERFORMED BY OTHERS. CONTRACTOR TO COORDINATE WITH ENVIRONMENTAL CONSULTANT.
15. NOTIFY PROJECT MANAGER AND CIVIL ENGINEER OF ADDITIONAL UTILITIES OR OTHER ITEMS THAT MAY BE FOUND DURING CONSTRUCTION WHICH ARE NOT LOCATED ON THESE PLANS.

FLOODPLAIN NOTE:

THIS PARCEL DESCRIBED HEREON DOES NOT LIE WITHIN A FLOOD HAZARD AREA IN ACCORDANCE WITH "INSURANCE RATE MAP PANEL NUMBER 47141C01200", FLOOD ZONE "X". UNSHADED.

TRAFFIC CONTROL NOTES:

1. WHENEVER CONSTRUCTION OPERATIONS ENCRONCH ON THE RIGHT OF WAY OF ADJACENT ROADWAYS, TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL AND STATE STANDARDS.
2. NO MATERIALS OR EQUIPMENT SHALL BE STORED OR STOCKPILED WITHIN THE RIGHT-OF-WAY OF ADJACENT ROADWAYS.
3. ALL TRAFFIC CONTROL, INCLUDING MARKINGS, SIGNS, ETC. SHALL FOLLOW THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. EXCAVATION AND LANE CLOSURE PERMITS ARE REQUIRED FOR ALL WORK DONE WITHIN THE PUBLIC RIGHT OF WAY.

GENERAL SITE NOTES:

1. THE CONTRACTOR SHALL CHECK ALL EXISTING GRADES, PIPE SIZES, STRUCTURE LOCATIONS, DIMENSIONS, ETC. IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR CONTRACTOR CAUSED DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.
3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES AND OBTAIN ALL PERMITS PRIOR TO BEGINNING WORK.
4. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVEMENT. ENSURE POSITIVE DRAINAGE IN AREAS TO BE MILLED.

GENERAL SITE NOTES:

5. ALL CONCRETE SHALL BE CLASS "A" (4,000 P.S.I.), UNLESS OTHERWISE NOTED. PREFORMED FIBER EXPANSION JOINTS (I/JT) SHALL BE PROVIDED WHERE SIDEWALKS OR PADS CONTACT EXTERIOR BUILDING WALLS OR CONCRETE CURBS. TRANSVERSE EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 25' TO MATCH TRANSVERSE JOINT MARKINGS. TRANSVERSE JOINT MARKINGS SHALL BE MADE TO FORM BLOCKS AS NEARLY SQUARE AS POSSIBLE.
6. ALL DAMAGE TO EXISTING ASPHALT PAVEMENT TO REMAIN, WHICH RESULTS FROM NEW CONSTRUCTION, SHALL BE REPLACED WITH LIKE MATERIALS AT CONTRACTOR'S EXPENSE.
7. DIMENSIONS ARE TO THE FACE OF CURBS, EDGE OF CONCRETE, OR TO FACE OF BUILDING, AND ALL RADII ARE 3', UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THE USE OF EQUIPMENT IN AND AROUND OVERHEAD ELECTRICAL WIRES AND SERVICES. IF AT ANY TIME IN THE PURSUIT OF THIS WORK, THE CONTRACTOR MUST WORK IN CLOSE PROXIMITY OF THE ABOVE NOTED WIRES, THE ELECTRICAL COMPANY SHALL BE CONTACTED PRIOR TO SUCH WORK AND THE PROPER SAFETY MEASURES TAKEN.
9. SEE ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS.
10. IN EASEMENTS AND RIGHTS-OF-WAY, CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION EXCEPT AS NOTED.
11. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY AOC OF AMERICA, INC. AND THE "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" ISSUED BY THE U.S. DEPARTMENT OF LABOR.
12. ALL ACCESSIBLE PARKING SPACES ARE TO RECEIVE AN ACCESSIBLE SIGN AND ACCESSIBLE SYMBOL PAINTED ON THE PAVEMENT. STALLS ADJACENT TO 8' WIDE STRIPED AISLES ARE TO RECEIVE A "VAN ACCESSIBLE" SIGN IN ADDITION TO THE ABOVE.
13. ALL ACCESSIBLE RAMP DESIGNS SHALL CONFORM TO 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN OR STATE OF TENNESSEE, OR CITY OF COOKEVILLE ADOPTED BUILDING CODE STANDARD, WHICHEVER IS MORE RESTRICTIVE.
14. PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS AND T.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, GEOTECHNICAL ENGINEERING REPORT, AND PROJECT SPECIFICATIONS.
15. ALL ON-SITE PAVEMENT MARKINGS SHALL BE 4" PAINTED, USING WHITE LINES ON ASPHALT PAVING AND YELLOW LINES ON PORTLAND CEMENT CONCRETE PAVING, UNLESS NOTED OTHERWISE. ALL PAVEMENT MARKINGS IN RIGHT-OF-WAY SHALL BE THERMOPLASTIC. ALL ON-SITE PAVEMENT MARKINGS SHALL BE SLIP RESISTANT.
16. THE ENGINEER AS REPRESENTATIVE OF THE OWNER, SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUB-CONTRACTOR. SHALL HAVE NO AUTHORITY TO STOP WORK. SHALL NOT HAVE CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE, OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS OR OTHER WORK AIDS.
17. ALL SIDEWALKS, EXISTING AND PROPOSED, ARE TO BE CONSTRUCTED AND / OR LEFT IN A CONDITION THAT MEETS OR EXCEEDS T.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
18. ALL WORK IN THE RIGHT-OF-WAY MUST COMPLY WITH T.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TENNESSEE DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING WORK. CHECK ALL SIDEWALKS IN THE RIGHT-OF-WAY FOR COMPLIANCE.
19. CONCRETE WHEEL STOPS TO BE INSTALLED 24" FROM END OF PARKING STALL.
20. THE CONTRACTOR SHALL INCLUDE STEEL ROAD PLATES FOR TRENCH AREAS OF PROPOSED UTILITIES WHICH ARE NOT CORDED OFF IN EXISTING PAVED AREAS. STEEL ROAD PLATES SHALL BE MINIMUM 1" THICK GRADE A36 OR GRADE 50, CAPABLE OF HS-20 LOADING, TO PROVIDE A COVER OVER AN OPEN EXCAVATION TO PROVIDE VEHICULAR OR PEDESTRIAN TRAFFIC PROTECTION. STEEL DRIVE PLATES MUST EXTEND A MINIMUM OF 2'-0" OVER THE TOP OF THE GROUND AT EACH END OR SIDES, AND BE SECURED AGAINST UPLIFT. ALL WORK MUST BE IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AND ANY STATE OR LOCAL REGULATIONS THAT MAY APPLY.
21. CONTRACTOR SHALL VERIFY THAT ACTUAL SITE CONDITIONS ARE CONSISTENT WITH THE EXISTING CONDITIONS DEPICTED ON THE CONSTRUCTION PLANS. DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER PRIOR TO BIDDING AND PRIOR TO STARTING CONSTRUCTION. SUBMITTAL OF BID SHALL INDICATE THAT THE CONTRACTOR ACCEPTS THE ACTUAL SITE CONDITIONS AS MATCHING THE EXISTING CONDITIONS DEPICTED ON THE CONSTRUCTION PLANS.
22. ALL SYSTEMS, PRODUCTS AND INSTALLATIONS SHALL BE GUARANTEED AGAINST ANY DEFECTS FOR ONE YEAR FROM THE SUBSTANTIAL COMPLETION DATE, CORRECTION OR REPLACEMENT OF DEFECTIVE MATERIALS AND WORKMANSHIP SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
23. INSTALL SAFETY FENCING AS NECESSARY FOR SECURITY, SAFETY AND TRAFFIC PURPOSES.
24. COLD MILLING - CLEAN EXISTING PAVEMENT SURFACE OF LOOSE AND DELETERIOUS MATERIAL IMMEDIATELY BEFORE COLD MILLING. REMOVE EXISTING ASPHALT PAVEMENT BY COLD MILLING TO DEPTHS INDICATED.

GRADING, DRAINAGE & EROSION CONTROL

NOTES:

1. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES AND ONLY AS APPROVED BY OWNER'S REPRESENTATIVE AND CITY ENGINEER.
2. TOPSOIL IS TO BE REDISTRIBUTED OVER GRADED AREAS TO A MINIMUM OF 12" AND A MINIMUM DEPTH OF 12" OVER ROCK. TOPSOIL MUST BE FERTILE, FRABLE TOPSOIL IN ACCORDANCE WITH SPECIFICATIONS. LANDSCAPE TREE ISLANDS TO HAVE 24" MINIMUM TOPSOIL.
- ALL GRADED AREAS, INCLUDING SLOPES, ARE TO BE STABILIZED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETED, WITHIN A MAXIMUM OF 14 DAYS.
- CONSTRUCT EROSION CONTROL AS SHOWN ON DRAWINGS PRIOR TO BEGINNING GRADING OPERATIONS.
- ALL NEW STRUCTURES AND EXISTING STRUCTURES SHALL HAVE SEDIMENT REMOVED PRIOR TO ACCEPTANCE.
- SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN APPROXIMATELY 33% FILLED WITH SUCH SEDIMENT.
- ALL DIMENSIONS AND LOCATIONS OF TEMPORARY EROSION AND WATER POLLUTION CONTROL DEVICES SHALL BE SUBJECT TO ADJUSTMENT AS DESIGNATED BY THE OWNER'S REPRESENTATIVE OR CITY INSPECTOR.
- WHEN THE TEMPORARY SOIL EROSION AND WATER POLLUTION DEVICES ARE NO LONGER REQUIRED FOR THE INTENDED PURPOSE IN THE OPINION OF THE OWNER'S REPRESENTATIVE, THEY SHALL BE REMOVED.
- REPLACE SILT BARRIERS WHEN CONDITIONS WARRANT AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE OR CITY INSPECTOR.

- THE CONTRACTOR SHALL PROVIDE THE NECESSARY PROTECTION, IN ACCORDANCE WITH THE SPECIFICATIONS, FOR TREES TO REMAIN. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, NOR HANDLE OR STORE MATERIALS, WITHIN THE DROPLINES OF TREES TO REMAIN.

- CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING GRADING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO DRAINAGE AND MOVEMENT OF STORM WATER. SHOULD THE CONTRACTOR HAVE ANY QUESTION OF THE INTENT OR ANY PROBLEMS WITH CONTINUITY OF GRADES, THE ENGINEER SHOULD BE CONTACTED IMMEDIATELY PRIOR TO BEGINNING WORK.

- ALL SLOPES 3:1 OR STEEPER SHALL BE STABILIZED WITH STAKED SOD, NORTH AMERICAN GREEN SC-150, SC-150BN, FLEXTERRA HP-FGM OR APPROVED EQUAL.

- ANY MUD/CONSTRUCTION DEBRIS THAT MAY BE TRANSPORTED TO PUBLIC ROADS OR PARKING AREAS SHALL BE CLEANED UP IMMEDIATELY.

- ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH ALL FEDERAL OSHA REGULATIONS. CONTRACTOR TO PAY PARTICULAR ATTENTION TO 29 CFR PART 1926, SUBPARTS M AND P.

- CONSTRUCTION ENTRANCE SHALL BE IN PLACE PRIOR TO ANY COMBUSTIBLES, I.E. CONSTRUCTION TRAILER, LUMBER, ETC. BEING PRESENT ON JOB SITE. IN ADDITION TO THE CONSTRUCTION ENTRANCE, AN ALL WEATHER DRIVE MUST BE IN PLACE AND ACCESSIBLE TO ALL AREAS OF THE CONSTRUCTION SITE THAT WILL CONTAIN COMBUSTIBLES THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROCESS. THE ALL WEATHER DRIVE SHALL BE NO LESS THAN 20 FEET OF UNOBSTRUCTED WIDTH WITH ADEQUATE TURNING RADIUS CAPABLE OF SUPPORTING THE IMPOSED LOADS OF THE FIRE DEPARTMENT PROCESS.

- THE CONTRACTOR MUST NOTIFY ALL UTILITIES IN THE AREA AND CALL THE TENNESSEE ONE CALL SYSTEM AT 811 TO COORDINATE THE FIELD LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY EARTH DISTURBANCE. "CALL BEFORE DIGGING"

- GENERAL CONTRACTOR SHALL KEEP GROUND DISTURBANCE TO THE MINIMUM REQUIRED TO COMPLETE THE PROJECT. ALL AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED IF DISTURBED AREA HAS NOT BEEN WORKED WITHIN THE PAST 14 DAYS.

- CONTRACTOR SHALL REFER TO AND ADHERE TO THE RECOMMENDATIONS IN THE GEOTECHNICAL ENGINEERING REPORT, IF AVAILABLE.

- RETAINING WALLS SHALL BE DESIGN / BUILD BY THE GENERAL CONTRACTOR. CONTRACTOR SHALL PROVIDE PLANS SEALED BY A TENNESSEE REGISTERED ENGINEER AND THE OWNER AND ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION. A 42" HIGH PEDESTRIAN GUARD SHALL BE PROVIDED FOR RETAINING WALL HEIGHTS THAT ARE GREATER THAN OR EQUAL TO 30 INCHES. PEDESTRIAN GUARD SHALL BE INSTALLED ON TOP OF RETAINING WALL AND SHALL NOT ALLOW A 4-INCH DIAMETER SPHERE TO PASS THROUGH ANY OPENING. GUARDS SHALL BE DESIGNED TO RESIST A 50 PLF LOAD IN ACCORDANCE WITH ASCE 7, AND A 200 LB. CONCENTRATED LOAD IN ACCORDANCE WITH ASCE 7. INTERMEDIATE RAILS, BALLUSTERS, AND PANEL FILLERS SHALL RESIST A 50 LB. CONCENTRATED LOAD IN ACCORDANCE WITH ASCE 7. THIS SHALL BE A MINIMUM DESIGN.

- NOTE: SITE IS TO BE BID UNCLASSIFIED, REFERENCE SPECIFICATIONS AND GEOTECH REPORT, IF AVAILABLE.

- CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS PRIOR TO BEGINNING WORK. BEGINNING CONSTRUCTION SIGNIFIES THAT THE CONTRACTOR ACCEPTS THE SITE AS IS.

- NO CUT SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2H:1V UNLESS SPECIFICALLY NOTED ON THE PLANS AND APPROVED BY THE GEOTECHNICAL ENGINEER. NO FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 3:1 UNLESS SPECIFICALLY NOTED ON THE PLANS AND APPROVED BY THE GEOTECHNICAL ENGINEER.

- SITE GRADES AROUND THE BUILDING AND PAVEMENT AREAS SHALL BE GRADED DURING CONSTRUCTION TO PREVENT PONDING. ANY SURFACE WATER ACCUMULATION IN THE BUILDING AND PAVEMENT AREAS SHALL BE DRAINED IMMEDIATELY TO AVOID SATURATION OF THE SUBGRADE SOILS.

- ENGINEERED FILL SHALL BE COMPACTED AS SPECIFIED IN THE GEOTECHNICAL ENGINEERING REPORT.

- CONTRACTOR IS ADVISED THAT FINAL GRADING AND CURB PLACEMENT SHALL BE COMPLETED TO ACCOMMODATE THE FOLLOWING:

- A) NO WATER WILL POND AT POINTS WHERE LANDSCAPE ISLANDS EXTEND INTO PARKING FIELDS.
- B) SPACES DESIGNATED FOR HANDICAP PARKING AND ACCESS AISLE SHALL HAVE A FINAL SLOPE AFTER PAVING IS COMPLETED OF NOT MORE THAN 2.0% IN ANY DIRECTION. IF EITHER OF THESE ITEMS ARE NOT CONSTRUCTED AS OUTLINED ABOVE, REWORK WILL BE PROVIDED BY THE CONTRACTOR TO CORRECT DEFICIENCIES AT THE CONTRACTOR'S EXPENSE.

- ALL SPOT ELEVATIONS SHOWN ARE FINISHED GRADE. SPOT ELEVATIONS SHOWN ALONG CURB LINE ARE FLOW ELEVATIONS FOR FACE OF CURB (B) OR TOP FACE OF CURB (T). SPOT ELEVATIONS SHOWN AS (EX) ARE EXISTING TO BE MATCHED.

- NO GRADING OPERATIONS SHALL BEGIN UNTIL A CONTRACTOR HAS OBTAINED A PERMIT FROM THE AUTHORITY HAVING JURISDICTION.

- CONTRACTOR IS RESPONSIBLE FOR PROPER STORAGE OF ALL FLUIDS, ANY SPILLS ARE TO BE IMMEDIATELY REMEDIATED.

- CONTRACTOR IS TO ADJUST ALL UTILITY CASTINGS TO PROVIDE FLUSH ELEVATION WITH SURROUNDING PAVEMENT.

- CONTRACTOR IS TO ENSURE PROPER DRAINAGE TO ALL INLETS. CONTACT ENGINEER IF ADDITIONAL MILLING IS REQUIRED.

- CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE FROM ALL DOORS. REPORT ANY DISCREPANCY TO THE ENGINEER IMMEDIATELY.

- TWICE WEEKLY INSPECTIONS, DAILY RAINFALL RECORDS, STORMWATER POLLUTION PREVENTION PLAN (SWPPP), NOTICE OF COVERAGE (NOC) AND EROSION PREVENTION AND SEDIMENT CONTROL PLANS, IF APPLICABLE, SHOULD BE KEPT CURRENT AND ON-SITE TILL THE END OF THE PROJECT.

STORMWATER AS-BUILT NOTE

CONTRACTOR MUST PROVIDE TO THE ENGINEER OF RECORD, SURVEYED AS-BUILT DRAWINGS IN AUTOCAD, REGISTERED TO THE STATE PLANE (NAD 83, NAVD 88) FOR THE FOLLOWING ITEMS, UPON COMPLETION OF CONSTRUCTION:

- UNDERGROUND DETENTION, INLET AND OUTLET STRUCTURES AND PIPES
- AS-BUILT GROUND DETENTION, INLET AND OUTLET STRUCTURES AND PIPES
- PUBLIC STORM SEWER INFRASTRUCTURE
- CUT & FILL IN THE FLOODPLAIN
- SINK HOLE ALTERATIONS
- BIO-RETENTION
- PERVIOUS PAVEMENTS
- WATER QUALITY SWALES
- GRASS CHANNELS
- CISTERNS
- GREEN ROOFS
- INFILTRATION TRENCHES

- A. SOME OF THE ABOVE ITEMS WILL REQUIRE MULTIPLE TOPOGRAPHIC SURVEYS (DURING THE PROGRESS OF CONSTRUCTION) OF THE AREA, INCLUDING THE FOLLOWING: SUBGRADE & FINISHED GRADE OF ALL PVIOUS PAVEMENTS AND BIO-RETENTION AREAS, LOCATIONS & ELEVATIONS OF UNDERDRAINS AND UNDERGROUND CHECK DAMS, TOP OF GABION ELEVATIONS AT PRE-TREATMENT CELLS AND DETAILED MEASUREMENTS OF ALL OUTLET STRUCTURES.

- B. FOR SYSTEMS SUCH AS BIORETENTION AREAS THAT HAVE MULTIPLE LAYERS, A SERIES OF MEASUREMENTS WILL BE REQUIRED OF EACH LAYER TO VERIFY THE AS-BUILT LAYER THICKNESS.

- C. ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE NOTED ON AS-BUILT DRAWINGS SUBMITTED.

- D. WATER QUALITY BUFFERS SHALL BE SURVEYED, ALONG WITH LOCATIONS OF BUFFER SIGNS.

- E. AS-BUILT INFORMATION TO BE PROVIDED IN ACCORDANCE WITH THE STORM WATER REGULATIONS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ).

- F. THE CONTRACTOR SHALL PROVIDE REPRESENTATIVE PHOTOS TO THE ENGINEER OF RECORD AT EACH STAGE OF CONSTRUCTION, I.E. SUBGRADE, GABION BASKET INSTALLATION, UNDERDRAIN INSTALLATION, AND AS EACH LAYER IS BUILT IN A MULTIPLE LAYER SYSTEM.

ELECTRIC, COMMUNICATIONS & GAS UTILITIES NOTE

PRIMARY AND SECONDARY ELECTRIC SERVICE LINE LOCATIONS, ELECTRICAL TRANSFORMER LOCATIONS, COMMUNICATIONS (PHONE, INTERNET, CATV, ETC.) SERVICE LINE LOCATIONS, NATURAL GAS SERVICE LINE LOCATIONS AND NATURAL GAS METER LOCATIONS SHOWN ON THESE CIVIL PLANS ARE SCHEMATIC ONLY. CONTRACTOR MUST INSTALL THESE SERVICES IN ACCORDANCE WITH CURRENT CODES AND SERVICE PROVIDER REQUIREMENTS. CONTRACTOR MUST VERIFY AND COORDINATE FINAL LOCATIONS WITH THE APPROPRIATE SERVICE PROVIDER AND THE MEP ENGINEER(S) PRIOR TO CONSTRUCTION.

SITE LIGHTING NOTE

PHOTOMETRIC PLAN IS PROVIDED FOR LIGHT LEVEL APPROVAL. SITE LIGHT POLES, FIXTURE TYPES, AND LOCATIONS MAY NOT BE ALTERED WITHOUT APPROVAL FROM THE AUTHORITY HAVING JURISDICTION (AHJ). ELECTRICAL CONDUIT AND WIRING DESIGN SHALL BE PROVIDED BY THE ELECTRICAL ENGINEER.

UTILITY NOTES:

1. ELECTRICAL SERVICE UTILITY CONSTRUCTION SHALL COMPLY WITH WITH SPECIFICATIONS OF THE RESPECTIVE PROVIDER.
2. TELEPHONE/DATA/CABLE TV UTILITY CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS OF THE RESPECTIVE PROVIDER.
3. GENERAL CONTRACTOR SHALL HAVE APPROVAL OF ALL GOVERNING AGENCIES HAVING JURISDICTION OVER THIS SYSTEM PRIOR TO INSTALLATION.
4. ALL APPROPRIATE FEES SHALL BE PAID PRIOR TO BEGINNING SITE UTILITY CONSTRUCTION.
5. GENERAL CONTRACTOR WILL BE REIMBURSED BY OWNER FOR ALL TAP AND TIE ON FEES REQUIRED.
6. ALL TRENCHING, PIPE LAYING AND BACKFILLING SHALL BE IN ACCORDANCE WITH ALL FEDERAL OSHA REGULATIONS. CONTRACTOR TO PAY PARTICULAR ATTENTION TO 29 CFR PART 1926, SUBPARTS M AND P.
7. CONTRACTORS FOR WATER AND SEWER WORK MUST BE APPROVED BY THE RESPECTIVE PROVIDER.
8. CONTRACTOR SHALL COORDINATE INSPECTION WITH LOCAL UTILITY COMPANY.
9. ALL ELECTRICAL CONDUIT TO BE INSTALLED AND ROUTED ACCORDING TO CURRENT ELECTRIC AND NEPA CODES, IN ACCORDANCE WITH THE UTILITY COMPANY DESIGNS AND WITH SITE ELECTRICAL PLANS.
10. GENERAL CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY / LOCATIONS AND ELEVATIONS TO THE ENGINEER FOR COMPLETION OF AS-BUILDS FOR PUBLIC LINES.
11. SEWER UTILITY CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS OF THE RESPECTIVE PROVIDER AND PROJECT SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE.
12. WATER UTILITY CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS OF THE RESPECTIVE PROVIDER AND PROJECT SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE.
13. WATER MAINS SHALL BE LAID AT LEAST TEN FEET (10') HORIZONTALLY FROM ANY SANITARY SEWER, STORM SEWER OR SEWER MANHOLE, WHENEVER POSSIBLE. THE DISTANCE SHALL BE MEASURED EDGE-TO-EDGE. WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF TEN FEET (10'), A WATER MAIN MAY BE LAID CLOSER TO A STORM OR SANITARY SEWER PROVIDED THAT:
 - THE BOTTOM OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES (18") ABOVE THE TOP OF THE SEWER;
 - WHERE THIS VERTICAL SEPARATION CANNOT BE OBTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
14. WATER MAINS CROSSING HOUSE SEWERS, STORM SEWERS OR SANITARY SEWERS SHALL BE LAID TO PROVIDE A SEPARATION OF AT LEAST EIGHTEEN INCHES (18") BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER, WHENEVER POSSIBLE. WHEN LOCAL CONDITIONS PREVENT A VERTICAL SEPARATION AS DESCRIBED ABOVE, THE FOLLOWING CONSTRUCTION SHALL BE USED:
 - A VERTICAL SEPARATION OF AT LEAST EIGHTEEN INCHES (18") BETWEEN THE BOTTOM OF THE SEWER AND THE TOP OF THE WATER MAIN;
 - ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS;
 - THAT THE LENGTH OF WATER PIPE BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER;
 - BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
15. ALL SEWER & WATER TRENCHES IN EXISTING ROADWAYS OR DRIVEWAYS SHALL BE BACKFILLED WITH NO. 57 OR 67 STONE FROM A POINT 6-INCHES UNDER THE PIPE TO THE ROADWAY PAVEMENT SUBGRADE.
16. SEWER & WATER LINE TRENCHES OUTSIDE EXISTING DRIVEWAYS OR STREETS SHALL BE BACKFILLED WITH NO. 57 OR 67 STONE TO 12" ABOVE THE PIPE AND BACKFILLED WITH A MIXTURE OF CLEAN EARTH, FREE OF ROCK NO LARGER THAN 6" SQ. AND DEBRIS (FOR THE FULL WIDTH OF THE EASEMENT), FROM TOP POINT TO THE TOP OF THE TRENCH, WHERE THE UTILITIES ARE LOCATED BENEATH OR NEAR PAVEMENT. BACKFILL THE TRENCHES WITH CRUSHED STONE TO SUBGRADE.
17. UNLESS SPECIFICALLY NOTED, WATER LINES LESS THAN 3" TO BE TYPE K COPPER. MINIMUM COVER OVER THE TOP OF THE PIPE IS 36".
18. UNLESS SPECIFICALLY NOTED, WATER LINES 4"-12" TO BE ANSI A21.50/AWWA C150 PRESSURE CLASS 350 DUCTILE IRON PIPE, MANUFACTURED BY AMERICAN CAST IRON PIPE COMPANY, U.S. PIPE AND FOUNDRY COMPANY, CLOW, OR GRIFFIN, RESTRAINED JOINT PIPE. ALL FITTINGS TO BE RESTRAINED JOINT FITTINGS.
19. FITTINGS AND GASKETS FOR PRESSURE CLASS 350 DIP TO MEET THE FOLLOWING STANDARDS:
 - AWWA C-153/ANSI 21.53, DUCTILE IRON COMPACT FITTINGS
 - AWWA C-110/ANSI 21.10, DUCTILE IRON STANDARD AND SPECIAL FITTINGS
 - BURIED FITTINGS TO BE MECHANICAL JOINT, FITTINGS IN VAULTS SHALL BE FLANGED
20. ALL WATER AND SANITARY LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END.
21. THE CONTRACTOR PERFORMING FIRE SPRINKLER LINE INSTALLATION MUST BE A LICENSED FIRE SPRINKLER CONTRACTOR.

SITE DATA TABLE

SITE DATA	
DEVELOPMENT NAME:	NORTH WHITNEY AVENUE PARKING LOT
LOT AREA:	224.9 +/- ACRES
PARCEL / TAX ID:	0400 B 001.00
ADDRESS:	N WHITNEY AVE. @ WINGS UP WAY
CITY:	COOKEVILLE
COUNTY:	PUTNAM
STATE:	TENNESSEE
FRONT (STREET) SETBACK:	30' (50' MAJOR STREETS)
SIDE SETBACK:	10'(30' ON STREET CORNER)
REAR SETBACK:	20'
ZONING CLASSIFICATION	
EXISTING ZONING:	UNV (UNIVERSITY)
PROPOSED ZONING:	UNV (UNIVERSITY)
BUILDING AREA	
EXISTING BUILDING AREA:	N/A
PROPOSED BUILDING AREA:	N/A
BUILDING HEIGHT:	N/A
LANDSCAPE AREA	
DISTURBED AREA:	(89,923 SQ. FT. (2.064 ACRES) +/-
PARKING SUMMARY	
TOTAL PARKING SPACES REQUIRED (N/A):	N/A
TOTAL PARKING SPACES PROVIDED:	120 SPACES
ACCESSIBLE PARKING SPACES REQUIRED (BASED ON 120 PROVIDED):	N/A
TOTAL ACCESSIBLE PARKING SPACES PROVIDED:	4 SPACES

APPLICANT CONTACT

OWNER / DEVELOPER:
TENNESSEE TECHNOLOGICAL UNIVERSITY
CAPITAL PROJECTS & PLANNING
915 N WHITNEY AVE. - WHSE, ROOM 109
COOKEVILLE, TN 38505
CONTACT: STEFANIE REZSNYAK
PHONE: (561) 236-5161
EMAIL: SREZSNYAK@TNTECH.EDU

ENGINEER:
PALMER ENGINEERING CO.
2817 ERICA PLACE
NASHVILLE, TN 37204
CONTACT: RANDY HARPER, PE, C'ESCC
PHONE: (615) 297-8957 OR (615) 417-7175
EMAIL: RHARPER2@PALMERNET.COM

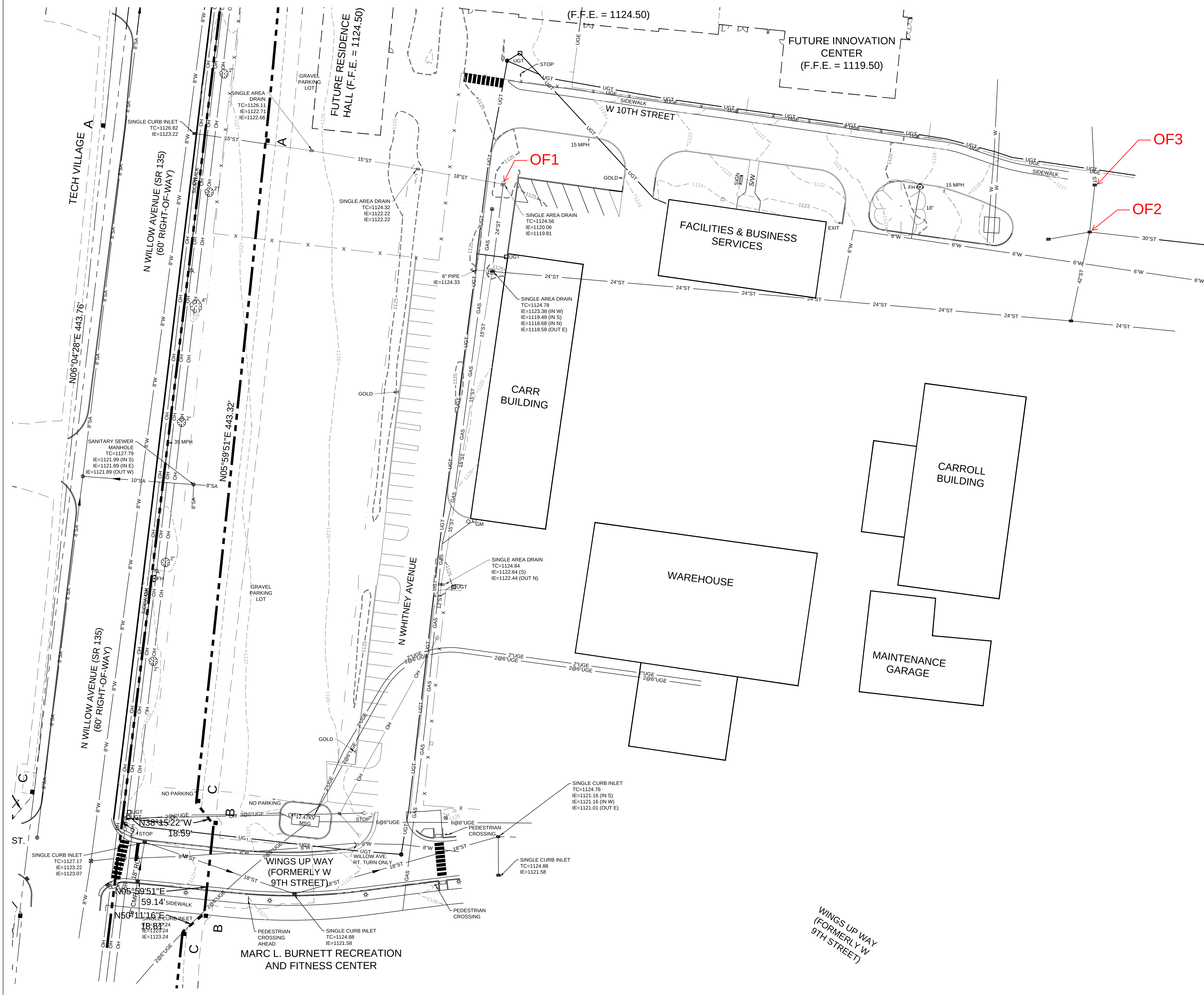
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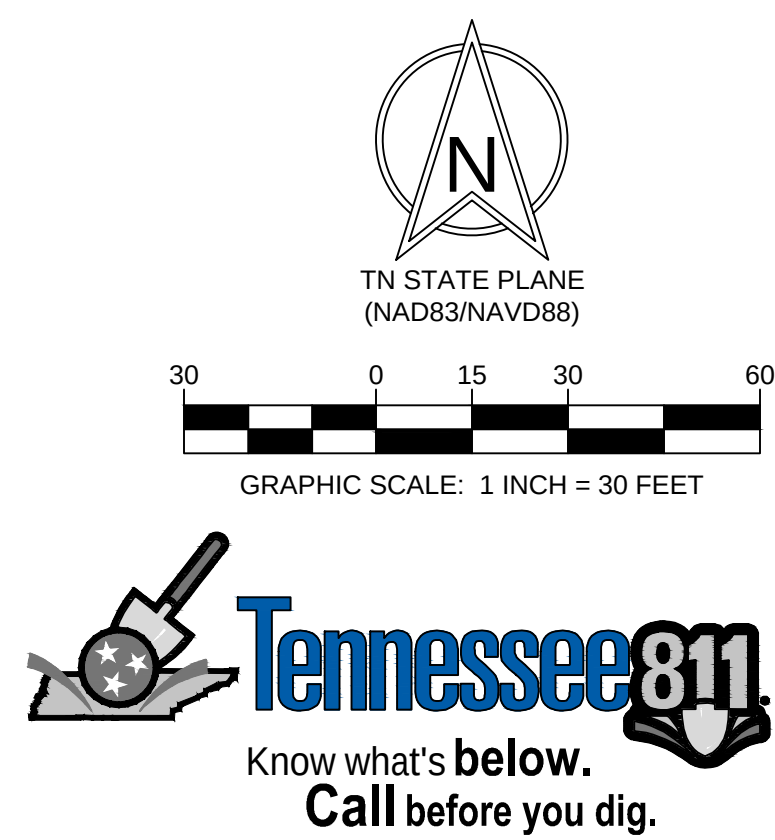
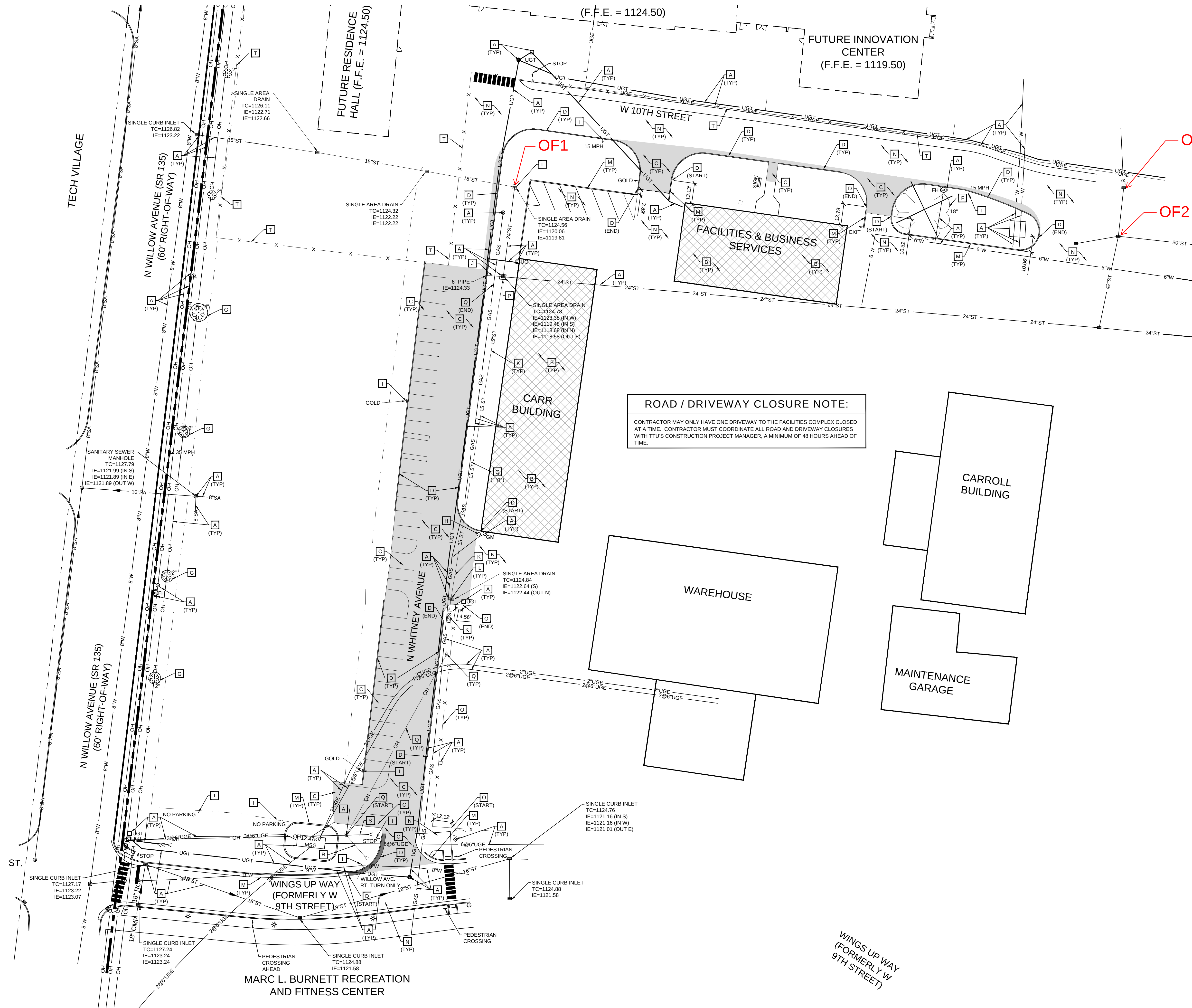
TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505



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JOB NUMBER: 13013.00	DATE: APRIL 1, 2026	DRAWN: R. HARPER	CHECKED: R. HARPER
SHEET: G-102	SCALE: N.T.S.		





NOTE:
REF. G-102 FOR ADDITIONAL NOTES.

DEMOLITION LEGEND:

ALL UNDERGROUND UTILITY SERVICES NOT ADDRESSED ON THIS DEMOLITION PLAN OR ADDITIONAL SERVICES FOUND DURING CONSTRUCTION THAT ARE WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED COMPLETELY UNLESS UTILITY WILL REMAIN IN SERVICE AFTER COMPLETION OF DEMOLITION. FOUND UTILITIES TO REMAIN WILL BE RELOCATED AS NEEDED. (COORDINATE ANY UTILITY REMOVAL/RELOCATION WITH THE APPROPRIATE UTILITY COMPANIES PRIOR TO REMOVAL/RELOCATION AND/OR TURN OFF).

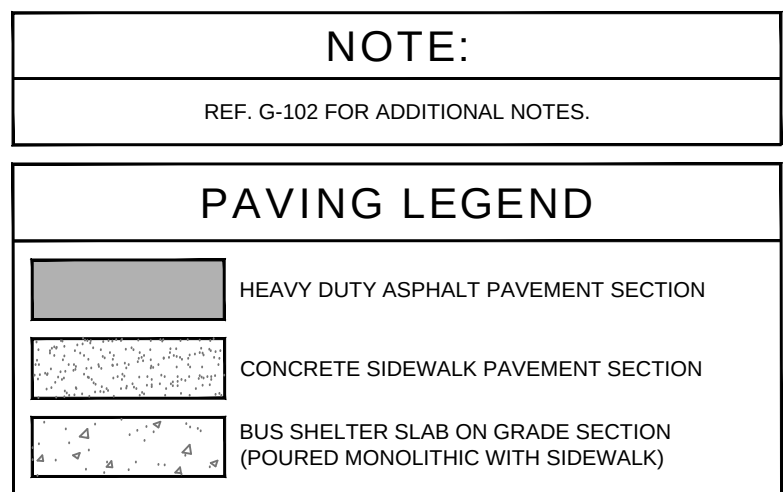
- A** EXISTING UTILITY TO REMAIN & BE PROTECTED THROUGHOUT CONSTRUCTION.
- B** EXISTING BUILDING TO REMAIN & BE PROTECTED THROUGHOUT CONSTRUCTION
- C** SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT / CONCRETE PAVEMENT TO SUBGRADE. REMOVE SUFFICIENT AMOUNT OF MATERIAL TO INSTALL FULL-DEPTH PAVEMENT TO GRADES SHOWN ON SHEET C-201 AND SECTION DETAILS ON SHEET C-602 & ARCH. PLANS.
- D** REMOVE EXISTING CONCRETE POST CURB TO SUBGRADE AND DISPOSE OFF-SITE.
- E** NOT USED
- F** EXISTING TREE TO BE REMOVED.
- G** EXISTING TREE TO REMAIN & BE PROTECTED THROUGHOUT CONSTRUCTION.
- H** EXISTING BOLLARD TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION
- I** REMOVE EXISTING SIGN AND SIGN POST, RETURN TO OWNER.
- J** CUT EXISTING 6" PVC STORM DRAIN PIPE 12" OUTSIDE OF EXISTING STRUCTURE & PLUG, REMOVE & DISPOSE OF REMAINING PIPE
- K** REMOVE EXISTING STORM DRAIN PIPE & DISPOSE
- L** REMOVE EXISTING STORM DRAIN STRUCTURE & DISPOSE
- M** EXISTING CURB TO REMAIN & BE PROTECTED THROUGHOUT CONSTRUCTION
- N** EXISTING CONCRETE PAVEMENT, CONCRETE SIDEWALK, AND ASPHALT PAVEMENT TO REMAIN & BE PROTECTED THROUGHOUT CONSTRUCTION
- O** EXISTING FENCE AND POSTS TO BE REMOVED & DISPOSE
- P** CUT EXISTING 15" RCP STORM DRAIN PIPE 12" OUTSIDE OF EXISTING STRUCTURE & PLUG, REMOVE & DISPOSE OF REMAINING PIPE
- Q** AFTER TEMPORARY POWER HAS BEEN PROVIDED TO EMERGENCY SIREN BY RESIDENCE HALL PROJECT, CONTRACTOR TO REMOVE REMAINING PORTION OF OVERHEAD POWER AND STREET LIGHTS, STREETLIGHTS TO BE RETURNED TO OWNER OR COOKEVILLE ELECTRIC DEPARTMENT, COORDINATE WITH COOKEVILLE ELECTRIC DEPARTMENT.
- R** REMOVE EXISTING GUY WIRE & ANCHOR AFTER DEMOLITION OF OVERHEAD LINES (COORDINATE WITH COOKEVILLE ELECTRIC DEPARTMENT)
- S** EXISTING GUY WIRE TO REMAIN, COORDINATE WITH COOKEVILLE ELECTRIC DEPARTMENT TO ADD POLE STANDOFF OR REPLACE GUY WIRE IF VERTICAL CLEARANCE OVER ACCESSIBLE WALK IS LESS THAN 80 INCHES ACROSS THE ENTIRE WIDTH
- T** EXISTING RESIDENCE HALL CONSTRUCTION FENCE TO BE PROTECTED THROUGHOUT CONSTRUCTION

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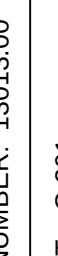
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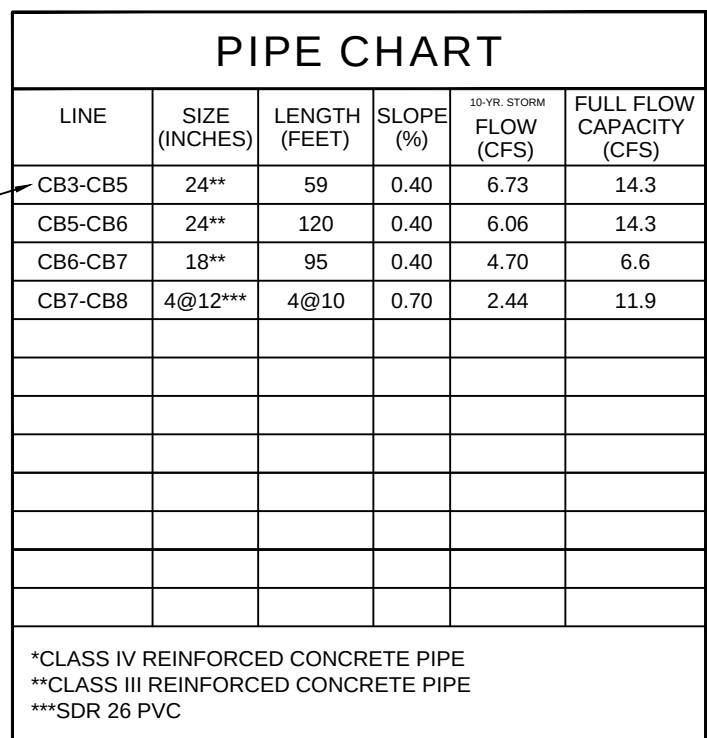
REVISION DESCRIPTION	
DATE	2026/04/01
ISSUE FOR BID	

DEMOLITION PLAN	
TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025 TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU) NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.) COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505	
JOB NUMBER: 13013.00	DATE: APRIL 1, 2026
SHEET: C-102	SCALE: 1" = 30' H
DRAWN: R. HARPER	CHECKED: R. HARPER



- 1 EXISTING STRIPING TO REMAIN
- 2 EXISTING PAVEMENT TO REMAIN
- 3 EXISTING CONCRETE CURB & GUTTER TO REMAIN
- 4 EXISTING CONCRETE POST CURB TO REMAIN
- 5 EXISTING SIDEWALK TO REMAIN
- 6 NEW ASPHALT SURFACE TO BE FLUSH WITH EXISTING PAVEMENT AT JOINT
- 7 FULL DEPTH HEAVY DUTY ASPHALT PAVEMENT SECTION (REF. C-602)
- 8 1" COLD PLANE (MILL) & 1-1/2" ASPHALT SURFACE COURSE OVERLAY (REF. C-603)
- 9 INSTALL CONCRETE SIDEWALK SECTION, SIDEWALK TO HAVE TOOLED JOINTS, W/ 4" WIDE SMOOTH PICTURE FRAME OVER BROOM FINISH (REF. C-602)
- 10 SIDEWALK TO BE FLUSH
- 11 INSTALL 6-18 CONCRETE CURB & GUTTER (REF. C-602)
- 12 TIE PROPOSED CONCRETE CURB & GUTTER TO EXISTING CURB & GUTTER
- 13 INSTALL 6" CONCRETE POST CURB (REF. C-602)
- 14 INTEGRAL CONCRETE CURB AND SIDEWALK (REF. C-602)
- 15 SAW CUT EXISTING PAVEMENT
- 16 INDICATES NUMBER OF PARKING SPACES PER PARKING BAY
- 17 4" WIDE PAINTED SINGLE SOLID YELLOW LINE (SSYL)
- 18 4" WIDE PAINTED SINGLE SOLID WHITE LINE (SSWL)
- 19 THERMOPLASTIC 24" STOP BAR (REF. C-602)
- 20 4" WIDE PAINTED YELLOW STRIPES, 48" O.C. @ 45°
- 21 4" WIDE THERMOPLASTIC SINGLE SOLID YELLOW LINE (SSYL)
- 22 WHITE THERMOPLASTIC CROSSWALK (24" WIDE STRIPE, 24" GAP)
- 23 PROVIDE & INSTALL CONCRETE WHEEL STOP (72"x10"x4") (REF. C-602)
- 24 PAINTED YELLOW "IN MOTION" SYMBOL OF ACCESSIBILITY & PAINTED "VAN" (24" YELLOW LETTERS) (REF. C-602)
- 25 INSTALL PARALLEL ACCESSIBLE RAMP (REF. C-602)
- 26 INSTALL ACCESSIBLE PARKING SIGN (VAN ACCESSIBLE WHERE APPLICABLE) (REF. C-602)
- 27 INSTALL R1-1 STOP SIGN (24" IN PARKING LOTS, 30" ON LOCAL STREETS) (REF. C-603)
- 28 EXISTING FIRE HYDRANT
- 29 PROPOSED SITE LIGHTING (REF. LIGHTING PLAN, E001 & E101)
- 30 INSTALL 12"x36" R1-6 STATE LAW WIDE TO PEDESTRIANS IN CROSSWALK SIGN (REF. C-606)
- 31 BUS SHELTER SLAB ON GRADE (REF. C-603)
- 32 BUS SHELTER & TRASH CANS PROVIDED & INSTALLED BY OTHERS (NOT IN CONTRACT)
- 33 INSTALL EV PARKING SIGN & POST (REF. C-603)
- 34 SINGLE POINT EV CHARGER (PROVIDED BY TTU, INSTALLED BY CONTRACTOR) (REF. ELECTRICAL PLANS), ANCHOR CHARGER TO CONCRETE PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS (MINIMUM OF 24"x24"x24" CONCRETE PEDESTAL, 4,000 PSI CONCRETE @ 28 DAYS, W/ 5% MIN. AIR PROVISIONMENT)
- 35 PROPOSED LICENSE PLATE READER TO BE PROVIDED BY TTU, INSTALLED BY CONTRACTOR, PROVIDE POWER & DATA
- 36 PROVIDE & INSTALL 4" CONCRETE FILLED STEEL PIPE BOLLARD (REF. C-605)
- 37 ACCESSIBLE RAMP W/ HANDRAILS BOTH SIDES (REF. C-606)
- 38 DOWEL JOINT TO CONNECT EXISTING CONCRETE TO PROPOSED CONCRETE (REF. C-603)
- 39 PROVIDE SIGN POLE AND BASE PER STOP SIGN DETAIL SHEET C-603, INSTALL "NO PARKING" SIGN, SIGN TO BE PROVIDED BY OWNER
- 40 INSTALL TTU PARKING COLOR CODE SIGNFACE ON BACK SIDE OF STOP SIGN (SIGN FACE TO BE PROVIDED BY OWNER)
- 41 APPROXIMATE LOCATION OF EXISTING RESIDENCE HALL CONSTRUCTION FENCE
- 42 LICENSE PLATE READER TO BE PROVIDED BY TTU, INSTALLED BY RESIDENCE HALL CONTRACTOR, RESIDENCE HALL CONTRACTOR TO PROVIDE POWER & DATA (NOT IN CONTRACT)
- 43 ITEMS SHOWN DASHED WITHIN THE LIMITS OF THE RESIDENCE HALL TEMPORARY CONSTRUCTION FENCE TO BE COMPLETED BY THE RESIDENCE HALL CONTRACTOR (NOT IN THIS CONTRACT, UNLESS OTHERWISE NOTED)
- 44 CONTRACTOR TO INSTALL NEW 6 FOOT TALL GALVANIZED CHAINLINK FENCE WITH 3" GALVANIZED WIRE TO MATCH EXISTING CHAINLINK FENCE (USE 2" TWISTED & BARBED MESH, 9 GAUGE WIRE, WITH SLATS, 2" ID GALVANIZED POSTS (END, CORNER OR PULL), 1-1/2" ID GALVANIZED LINE POST AND BRACE BAR WITH 7 GAUGE TENSION WIRE TOP AND BOTTOM)
- 45 LIMITS OF DISTURBANCE

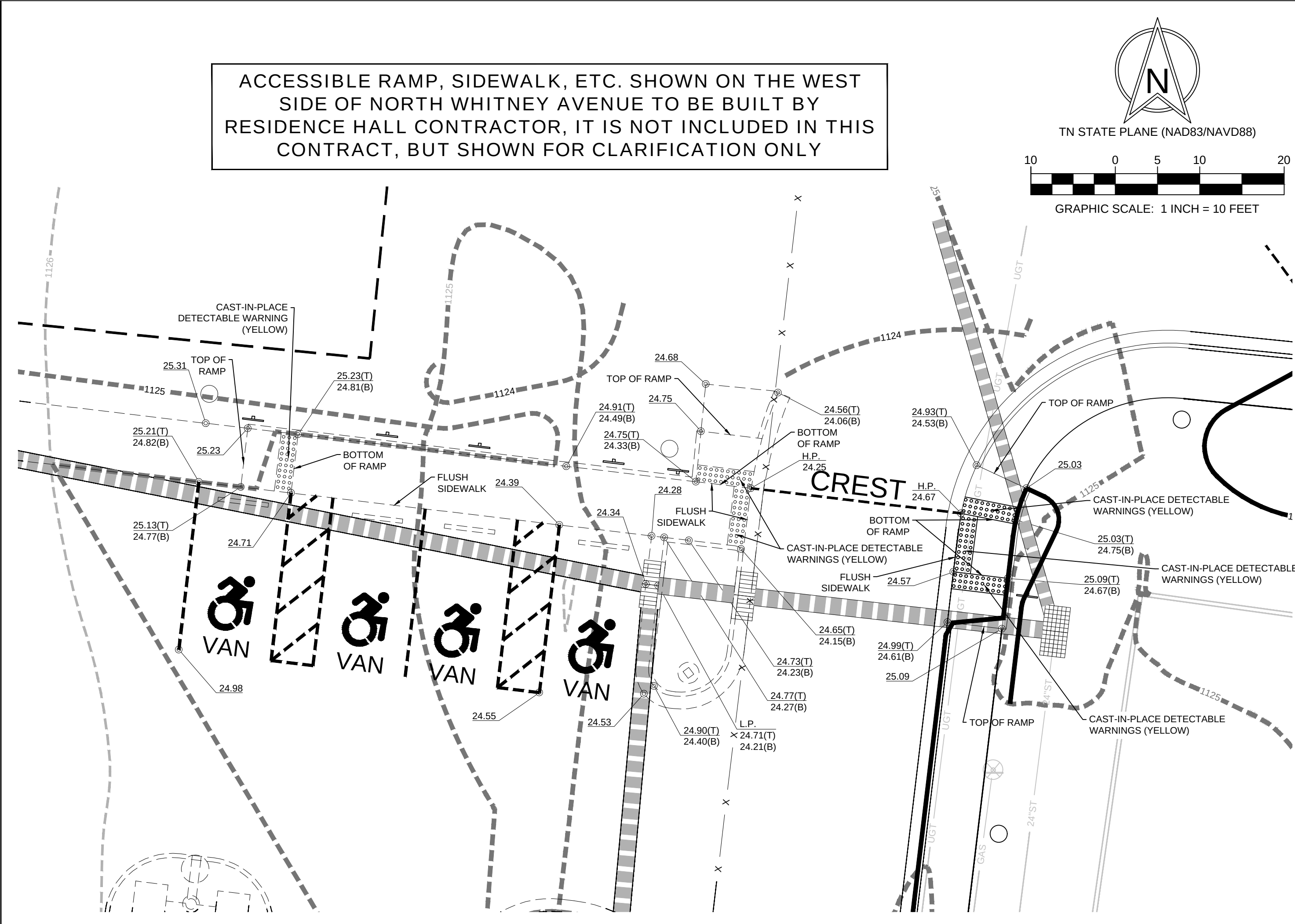
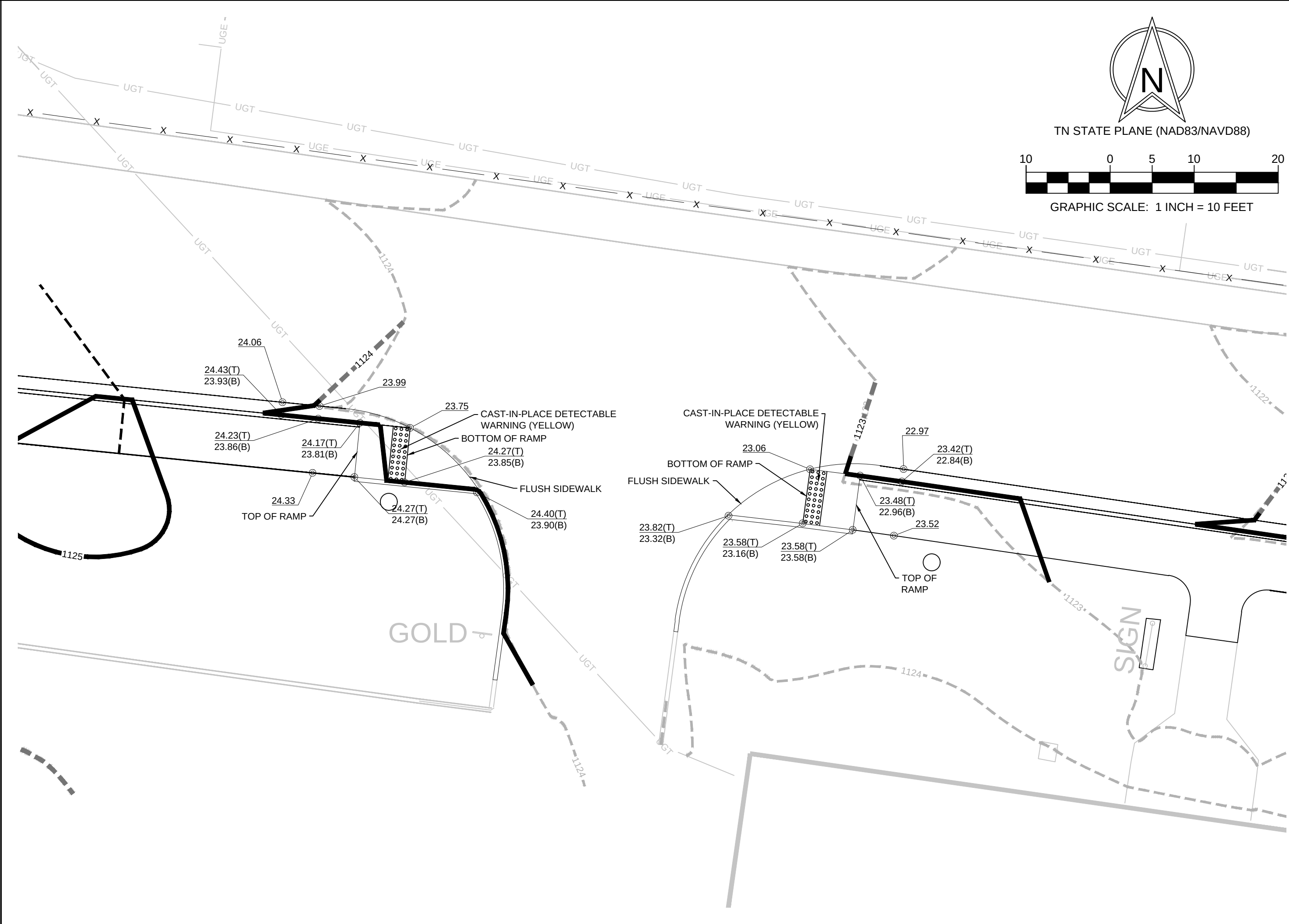
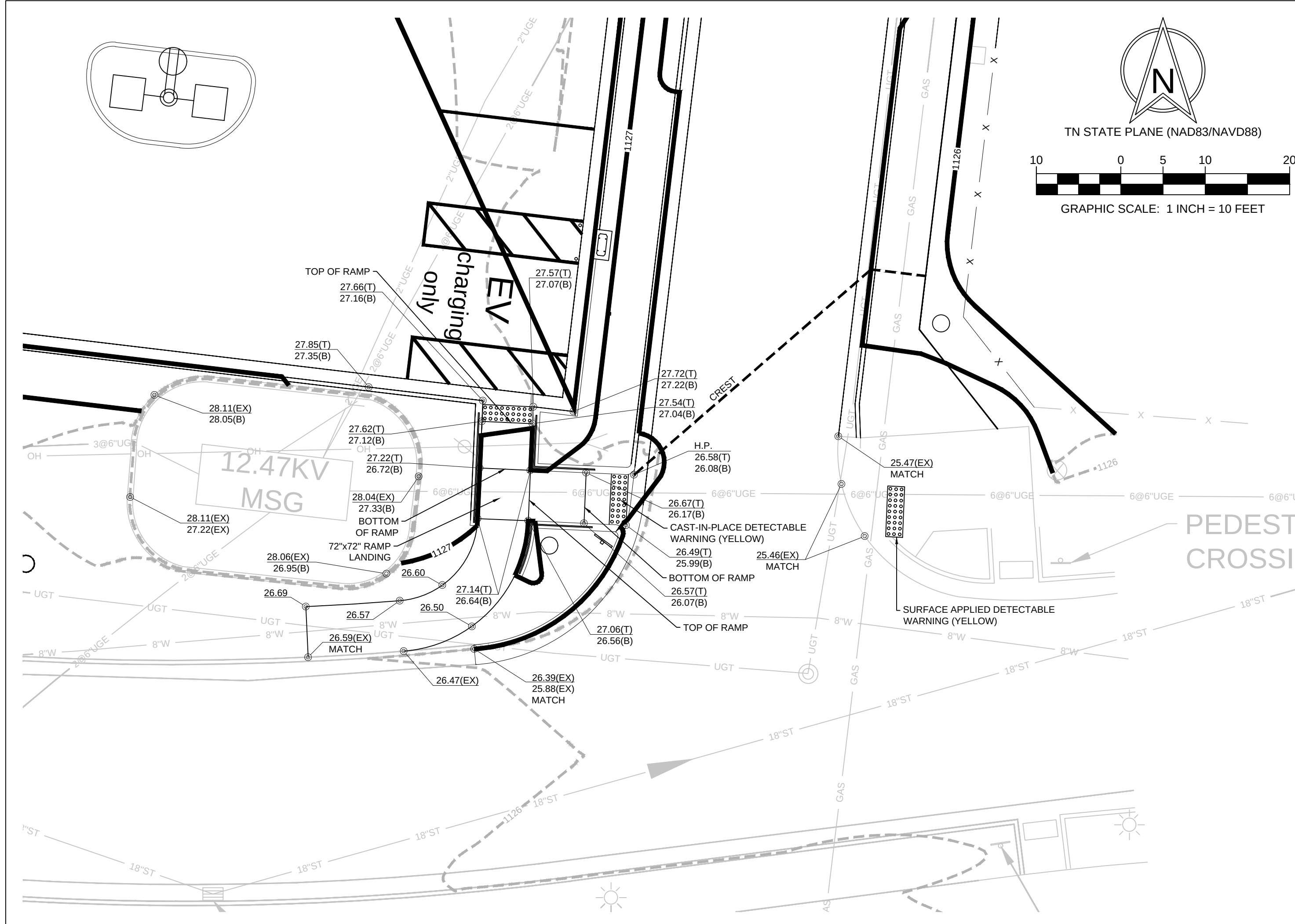
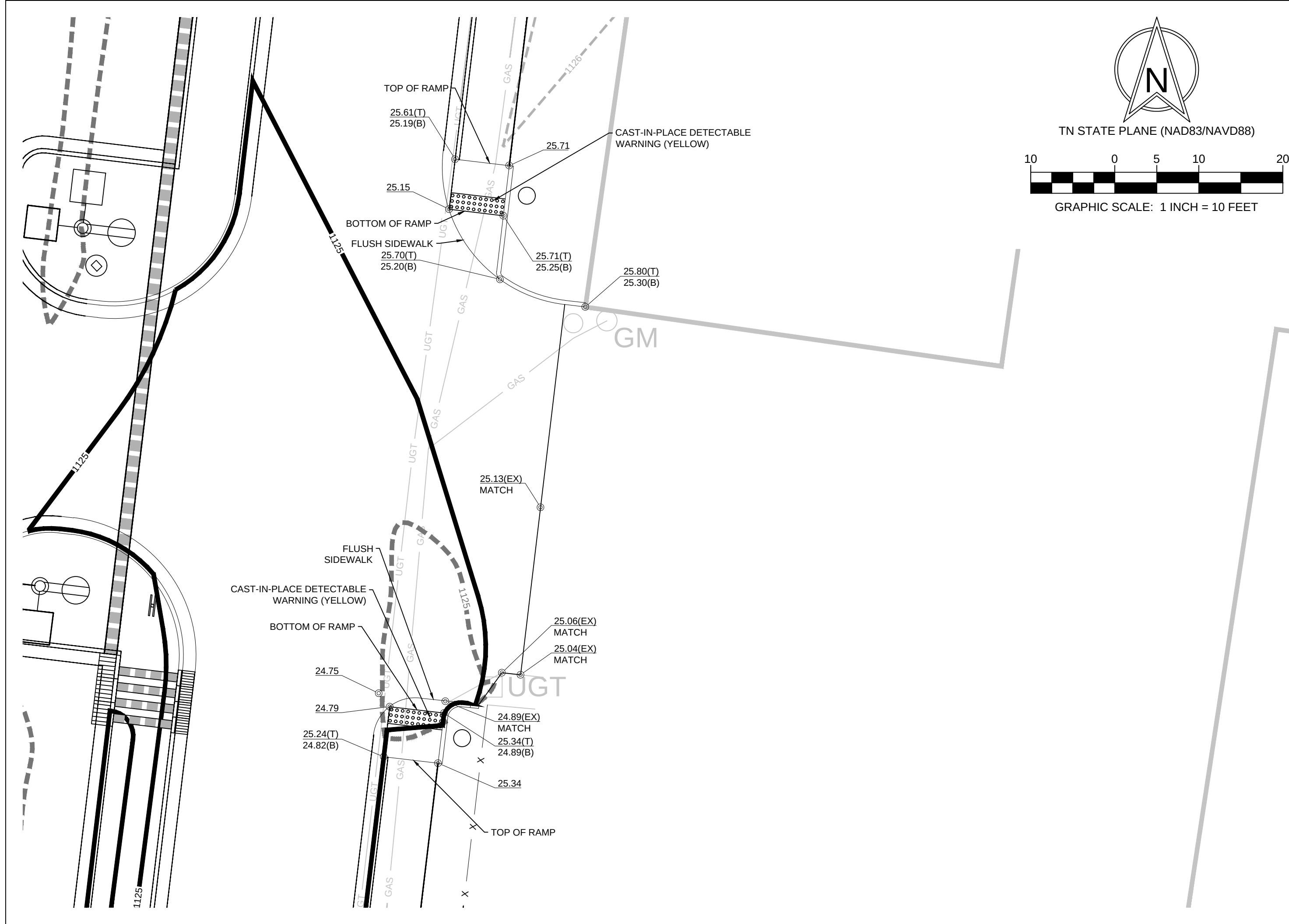
 Palmer ENGINEERING PALMER ENGINEERING RICE PLAZA NASHVILLE TN 37204 (615) 297-4857 pecmast@palmer.net.com	JOB NUMBER: 13013.00	DATE: APRIL 1, 2026	DRAWN: R. HARPER
	SHEET: C-201	SCALE: 1" = 30' H	CHECKED: R. HARPER
	SITE PLAN		
	TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025 TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU) NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.) COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505		
	DATE	REVISION DESCRIPTION	
	2026/04/01	ISSUE FOR BID	



CONTRACTOR KEY NOTES:

- 1 LIMITS OF DISTURBANCE, (89.923 SQ. FT. (2.064 ACRES) +/-
- 2 3:1 SLOPE
- 3 ADJUST MANHOLE TO GRADE (PER COOKEVILLE DEPT. OF WATER QUALITY CONTROL, REF. MANHOLE DETAIL C-607)
- 4 APPROXIMATE LOCATION OF EXISTING RESIDENCE HALL TEMPORARY CONSTRUCTION FENCE (BY OTHERS)
- 5 END PIPE CONSTRUCTION (THIS CONTRACT), TEMPORARY PLUG & MARK OR CONNECT TO EXISTING PIPE INSTALLED BY RESIDENCE HALL PROJECT, DEPENDING ON RESIDENCE HALL PHASE OF CONSTRUCTION

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PLOTTED: Apr 01, 2026 - 12:45pm



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JOB NUMBER: 13013.00
SHEET: C-302

DATE: APRIL 1, 2026
SCALE: 1" = 10' H

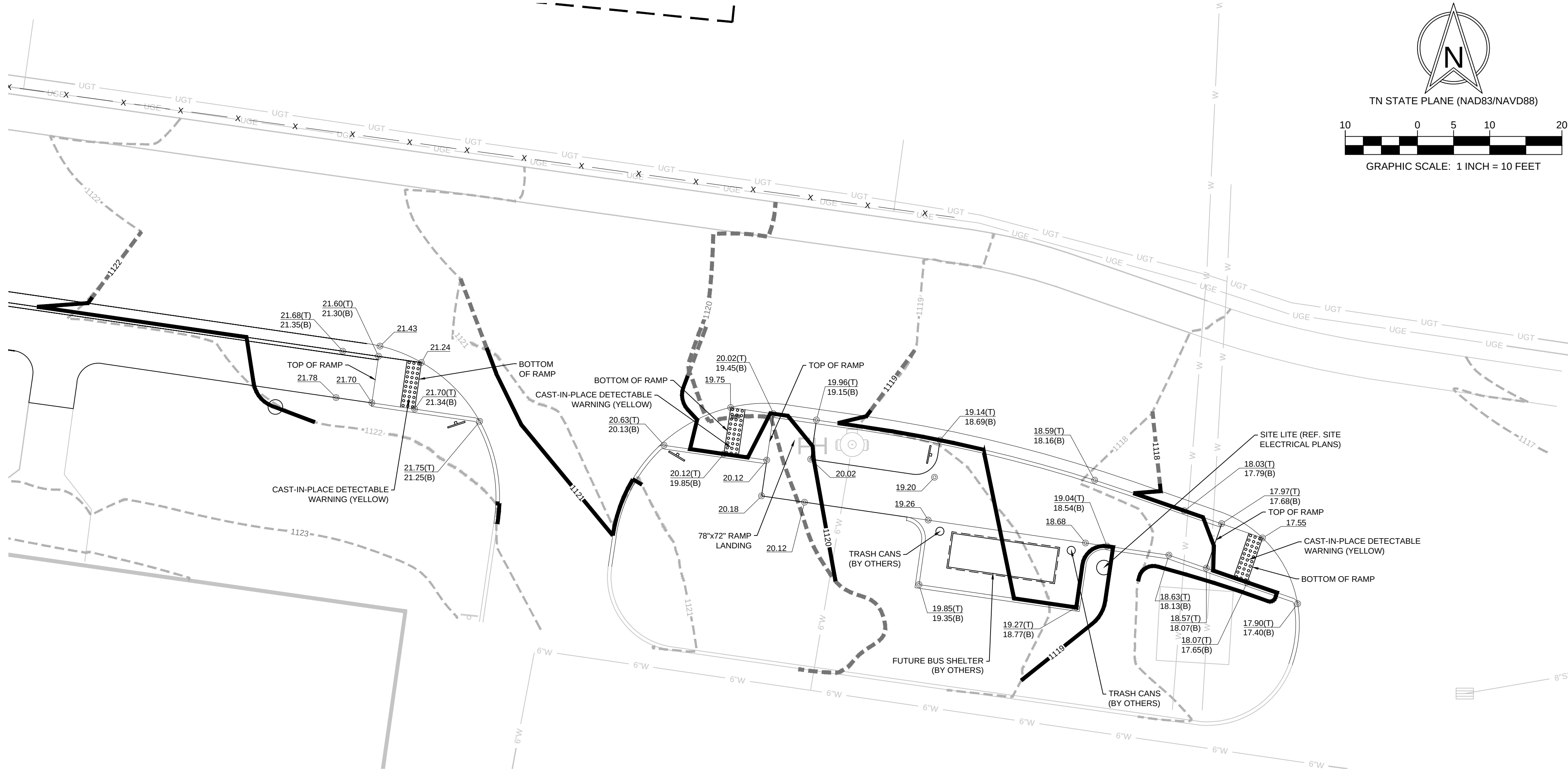
DRAWN: R. HARPER
CHECKED: R. HARPER

DETAIL AREA GRADING PLAN

TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505

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JOB NUMBER: 13013.00
SHEET: C-303

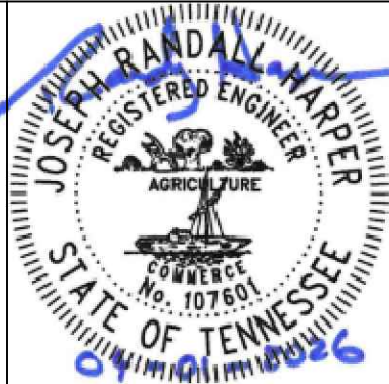
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SCALE: 1" = 10' H

DRAWN: R. HARPER
CHECKED: R. HARPER

DETAIL AREA GRADING PLAN

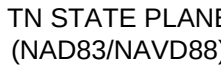
TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505

DATE	REVISION DESCRIPTION
2025/04/01	ISSUE FOR BID





WINGS UP WAY
(FORMERLY W
9TH STREET)



GRAPHIC SCALE: 1 INCH = 30 FEET



REF. C-001 FOR ADDITIONAL NOTES

	628	PROPOSED CONTOUR
	622	EXISTING CONTOUR
	620	EXISTING INDEX CONTOUR
	WT	WEIGHTED SEDIMENT TUBE
	SF	TEMPORARY SILT FENCE
		CONSTRUCTION ENTRANCE/EXIT (VEHICLE TRACKING CONTROL)
		FINAL STABILIZATION LANDSCAPE / MULCH

TEMPORARY INLET PROTECTION

1 LIMITS OF DISTURBANCE, (89,923 SQ. FT. (2.064 ACRES) +/

- 1 LIMITS OF DISTURBANCE, (89,923 SQ. FT. (2.064 ACRES) +/-
- 2 CONTRACTOR TO INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE / EXIT FOR VEHICLE TRACKING CONTROL (REF. C-601)
- 3 SWPPP NOTICE SIGNAGE (REF. C-601)
- 4 CONSTRUCTION TRAILER LOCATION
- 5 CONTRACTOR TO INSTALL AND MAINTAIN STORM DRAIN INLET PROTECTION DURING CONSTRUCTION INLET PROTECTION BASIS OF DESIGN TO BE FLEXSTORM. (REF. C-601)
- 6 CONTRACTOR TO INSTALL WEIGHTED SEDIMENT TUBE PERIMETER CONTROL (REF. C-601)
- 7 EXISTING TREE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION
- 8 EXISTING RESIDENCE HALL PROJECT TEMPORARY CONSTRUCTION FENCE

EROSION CONTROL PLAN - STAGE I

TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505

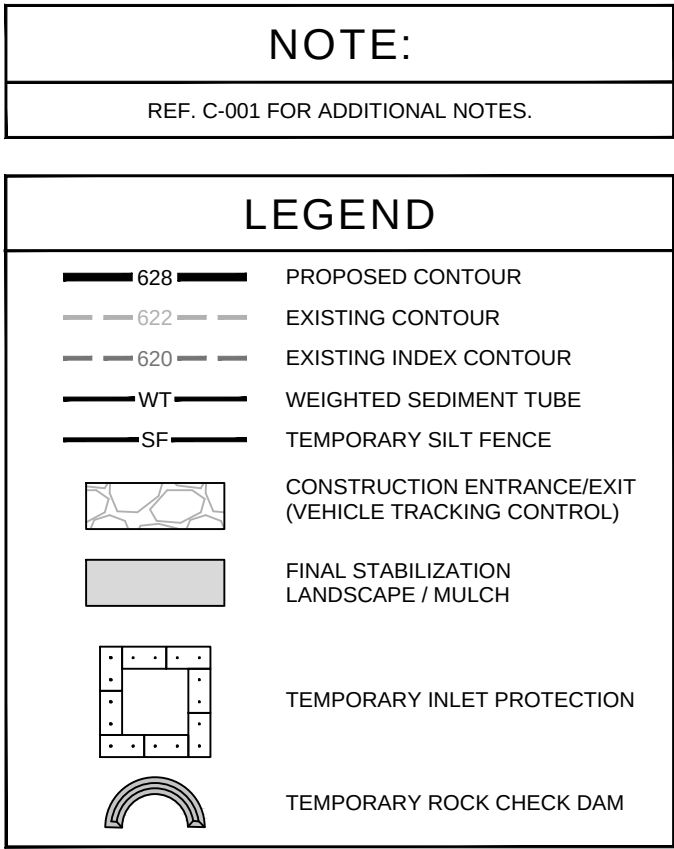
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JOB NUMBER: 13013.00	DATE: APRIL 1, 2026	DRAWN: R. HARPER
SHEET: C-501	SCALE: 1" = 30' H	CHECKED: R. HARPER

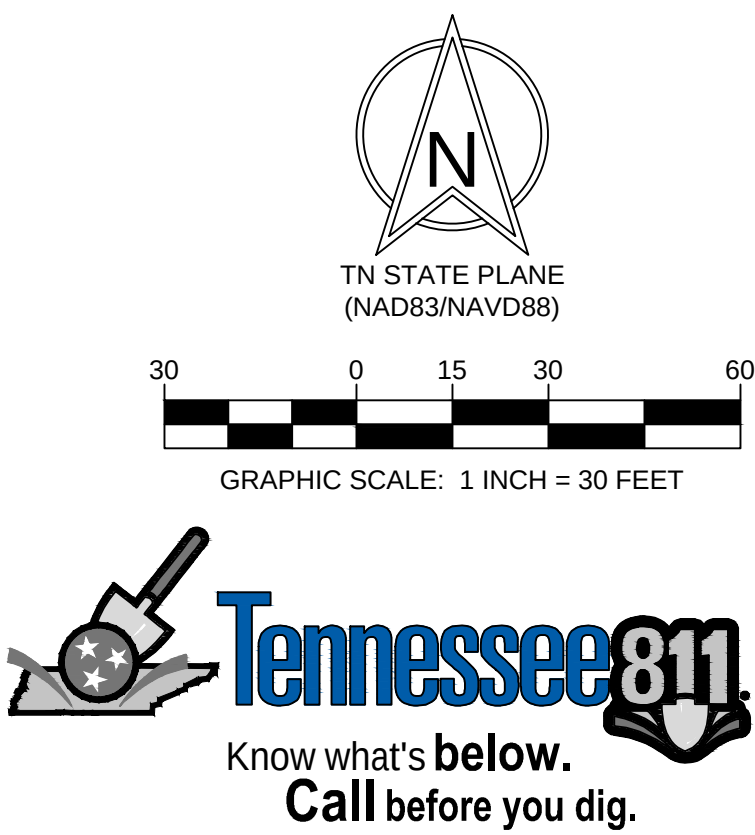
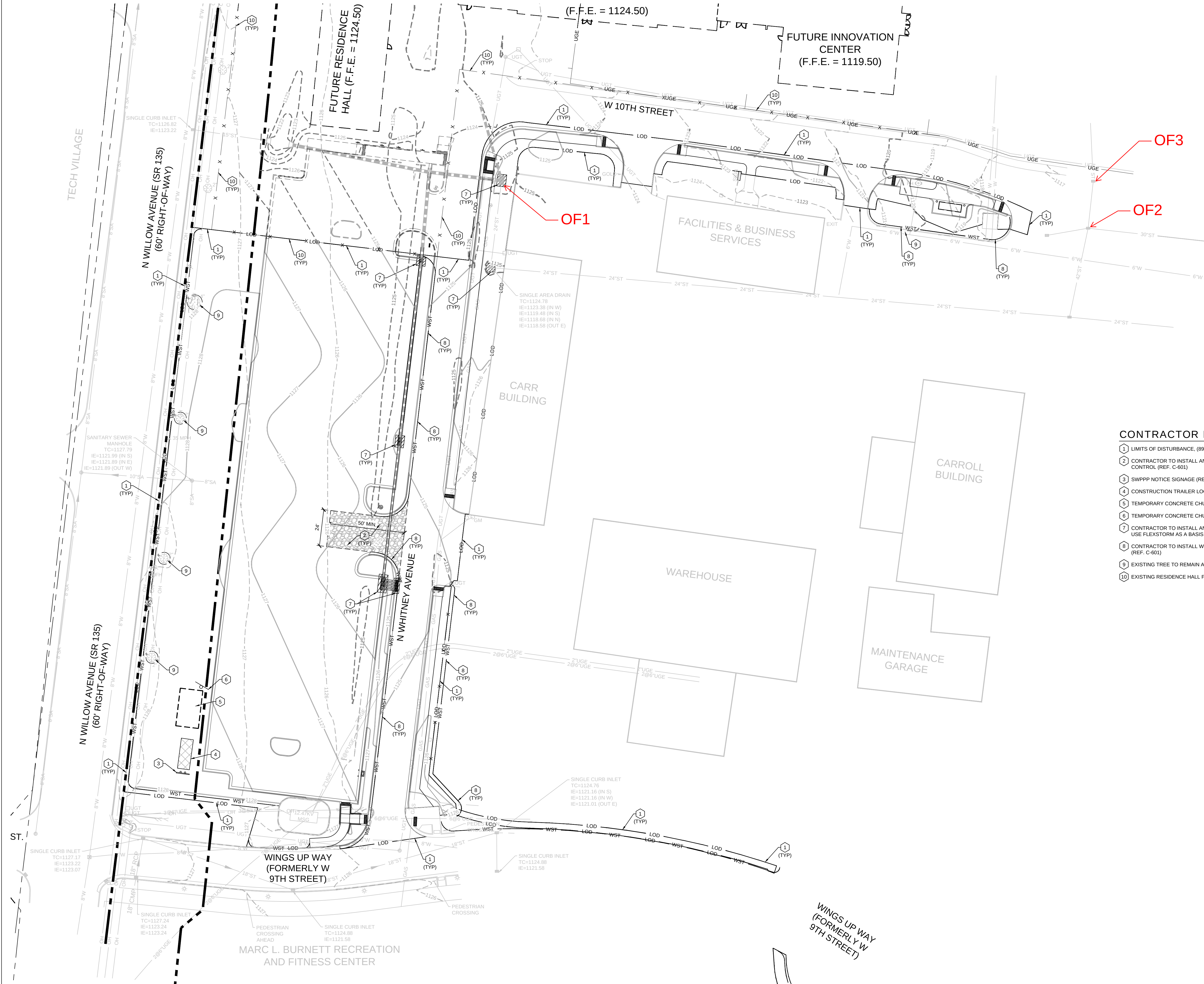
REVISION DESCRIPTION

DATE 2026/04/01



- 1 LIMITS OF DISTURBANCE, (89,923 SQ. FT. (2.064 ACRES) +/-
- 2 CONTRACTOR TO INSTALL WEIGHTED SEDIMENT TUBE PERIMETER CONTROL (REF. C-601)

Palmer ENGINEERING PALMER ENGINEERING 2817 ERICA PLACE NASHVILLE, TN 37204 (615) 297-8857 pecnash@palmernet.com	JOB NUMBER: 13013-00		DATE: APRIL 1, 2026	DRAWN: R. HARPER	TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025 TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU) NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.) COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505	REVISION DESCRIPTION ISSUE FOR BID	DATE 2026/04/01	JOSEPH RANDALL HARPER REGISTERED ENGINEER AGRICULTURE NO. 107801 STATE OF TENNESSEE EXPIRATION DATE: JUNE 30, 2026
	SHEET: C-502		SCALE: 1" = 30' H					
	CHECKED: R. HARPER							



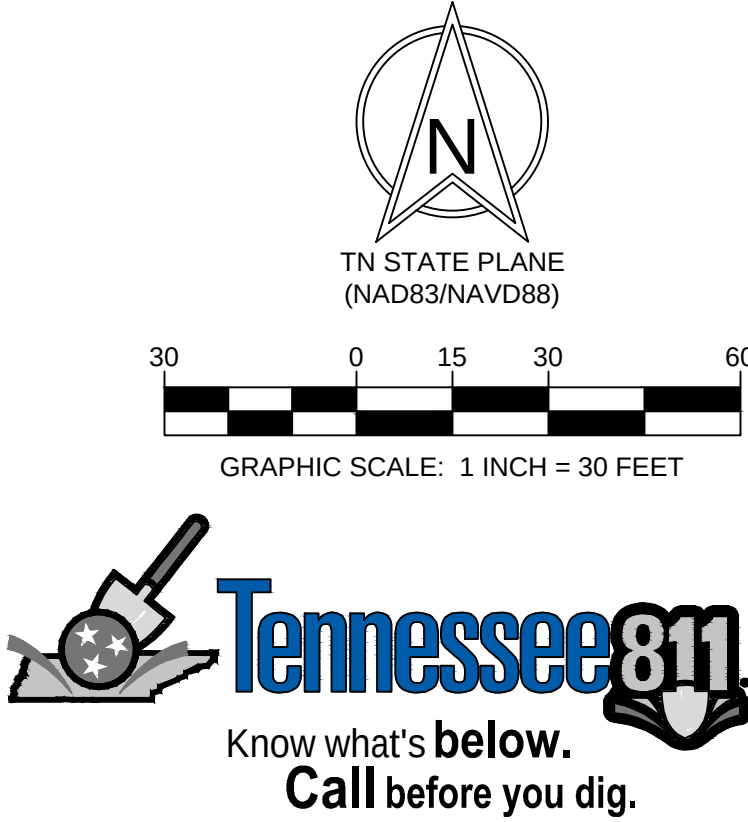
NOTE:	
REF. C-001 FOR ADDITIONAL NOTES.	

LEGEND	
	PROPOSED CONTOUR
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	WEIGHTED SEDIMENT TUBE
	TEMPORARY SILT FENCE
	CONSTRUCTION ENTRANCE/EXIT (VEHICLE TRACKING CONTROL)
	FINAL STABILIZATION LANDSCAPE / MULCH
	TEMPORARY INLET PROTECTION
	TEMPORARY ROCK CHECK DAM

CONTRACTOR KEY NOTES:

- LIMITS OF DISTURBANCE, (89,923 SQ. FT. (2.064 ACRES) +/-)
- CONTRACTOR TO INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE / EXIT FOR VEHICLE TRACKING CONTROL (REF. C-601)
- SWPPP NOTICE SIGNAGE (REF. C-601)
- CONSTRUCTION TRAILER LOCATION
- TEMPORARY CONCRETE CHUTE WASHOUT AREA (REF. C-601)
- TEMPORARY CONCRETE CHUTE WASHOUT AREA SIGN (REF. C-601)
- CONTRACTOR TO INSTALL AND MAINTAIN STORM DRAIN INLET PROTECTION DURING CONSTRUCTION. USE FLEXSTORM AS A BASIS OF DESIGN. (REF. C-601)
- CONTRACTOR TO INSTALL WEIGHTED SEDIMENT TUBE PERIMETER CONTROL (REF. C-601)
- EXISTING TREE TO REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION
- EXISTING RESIDENCE HALL PROJECT TEMPORARY CONSTRUCTION FENCE (BY OTHERS)

 PALMER ENGINEERING 2817 ERICA PLACE NASHVILLE, TN 37204 (615) 437-6577 palmer@palmer.net		JOB NUMBER: 13013.00			
		SHEET: C-503			
DATE: APRIL 1, 2026		DRAWN: R. HARPER			
SCALE: 1" = 30' H		CHECKED: R. HARPER			
EROSION CONTROL PLAN - STAGE II					
TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025					
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)					
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)					
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505					
DATE: 2026/04/01		REVISION DESCRIPTION			
		ISSUE FOR BID			

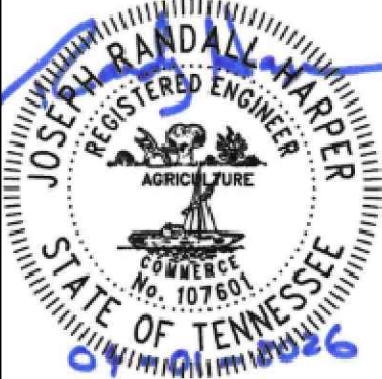


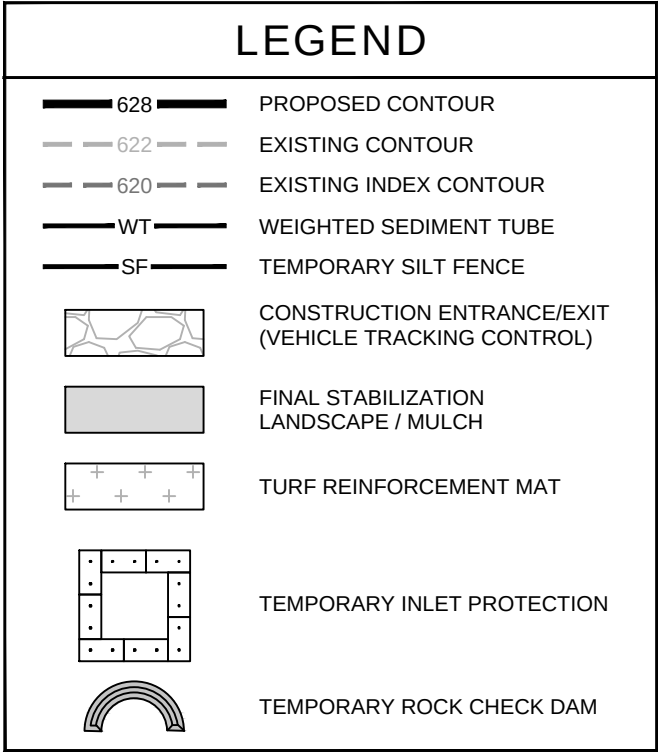
NOTE:
REF. C-001 FOR ADDITIONAL NOTES.

LEGEND	
	PROPOSED CONTOUR
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
	WEIGHTED SEDIMENT TUBE
	TEMPORARY SILT FENCE
	CONSTRUCTION ENTRANCE/EXIT (VEHICLE TRACKING CONTROL)
	FINAL STABILIZATION LANDSCAPE / MULCH
	TEMPORARY INLET PROTECTION
	TEMPORARY ROCK CHECK DAM

CONTRACTOR KEY NOTES:
① LIMITS OF DISTURBANCE, (89,923 SQ. FT. (2.064 ACRES) +/-)
② CONTRACTOR TO INSTALL WEIGHTED SEDIMENT TUBE PERIMETER CONTROL (REF. C-501)

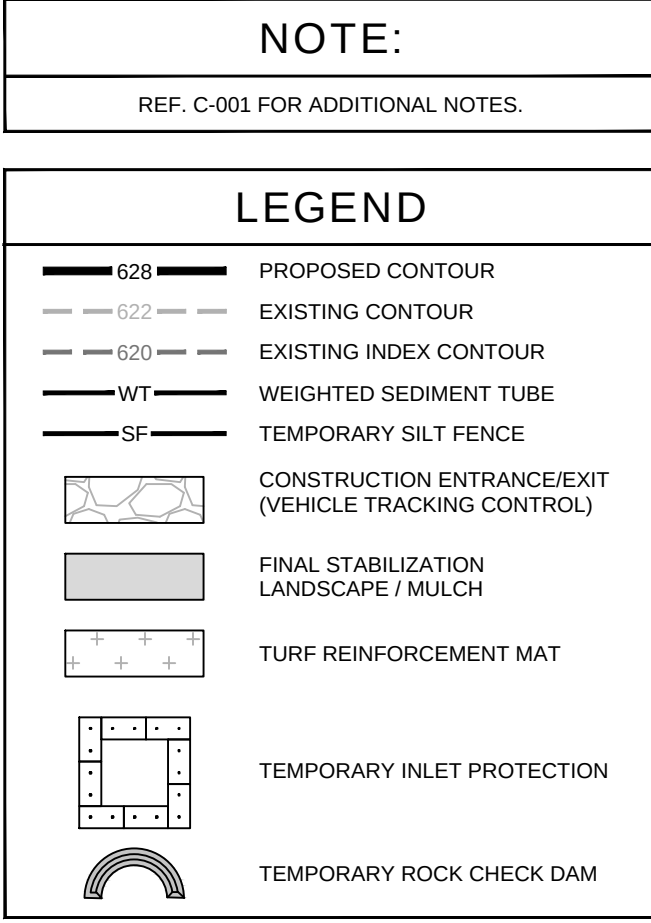
 Palmer ENGINEERING		PALMER ENGINEERING 2817 ERICA PLACE NASHVILLE, TN 37204 (615) 297-8957 pecnash@palmernet.com	
JOB NUMBER: 13013.00	DATE: APRIL 1, 2026	DRAWN: R. HARPER	
SHEET: C-504	SCALE: 1" = 30' H	CHECKED: R. HARPER	
EROSION CONTROL PLAN - STAGE II			
TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025			
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)			
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)			
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505			
DATE		REVISION DESCRIPTION	
2026/04/01		ISSUE FOR BID	





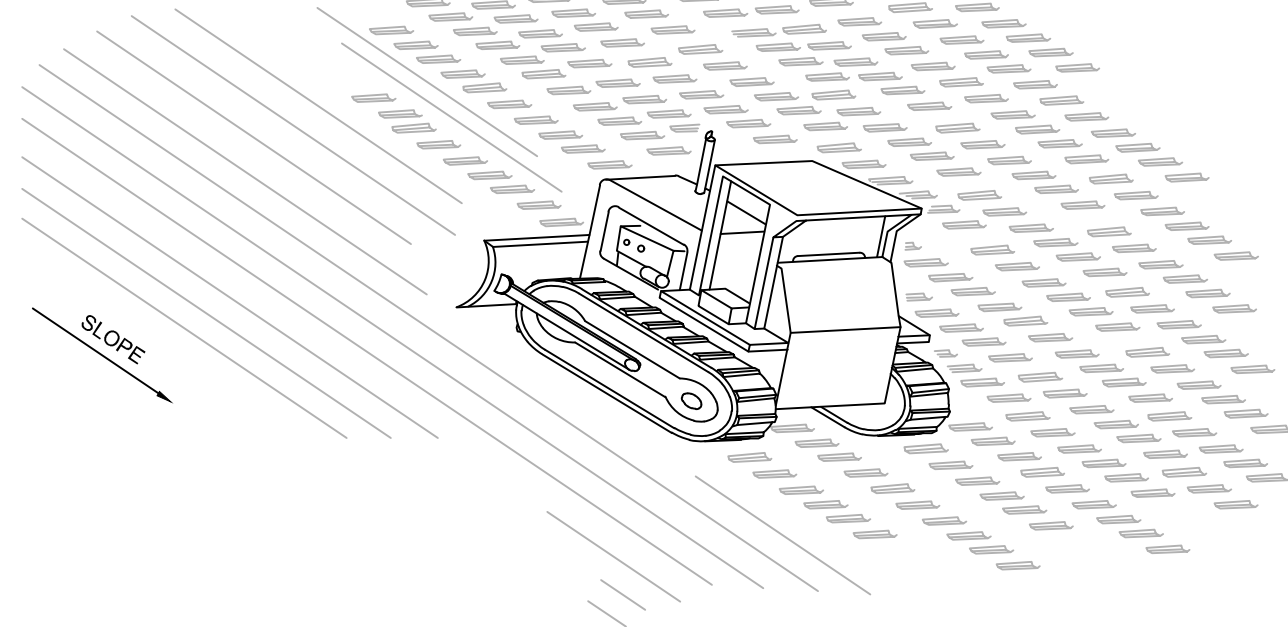
- 1 LIMITS OF DISTURBANCE, (89.923 SQ. FT. (2.064 ACRES) +/-)
- 2 CONTRACTOR TO PREPARE SOG BED, INSTALL SOIL AMENDMENTS AS SPECIFIED, AND SOG DISTURBE AREA (NOT OTHERWISE LANDSCAPED) AS SPECIFIED IN PROJECT MANUAL, CONTRACTOR TO PROVIDE TEMPORARY WATERING TO GET SOG ESTABLISHED
- 3 CONTRACTOR TO PREPARE SEED BED, INSTALL SOIL AMENDMENTS AS SPECIFIED, AND SEED AND MULCH DISTURBED AREA (NOT OTHERWISE LANDSCAPED) AS SPECIFIED IN PROJECT MANUAL, CONTRACTOR TO PROVIDE TEMPORARY WATERING TO GET SOG ESTABLISHED
- 4 APPROXIMATE LOCATION OF RESIDENCE HALL PROJECT TEMPORARY CONSTRUCTION FENCE (BY OTHERS)
- 5 CONTRACTOR TO PREPARE MULCHED LANDSCAPE TREES/SHRUB BED, INSTALL SOIL AMENDMENTS AS SPECIFIED, AND LANDSCAPE AS SPECIFIED IN PROJECT MANUAL AND LANDSCAPE PLANS CONTRACTOR TO PROVIDE TEMPORARY WATERING TO ESTABLISH PLANTS

[illegible]



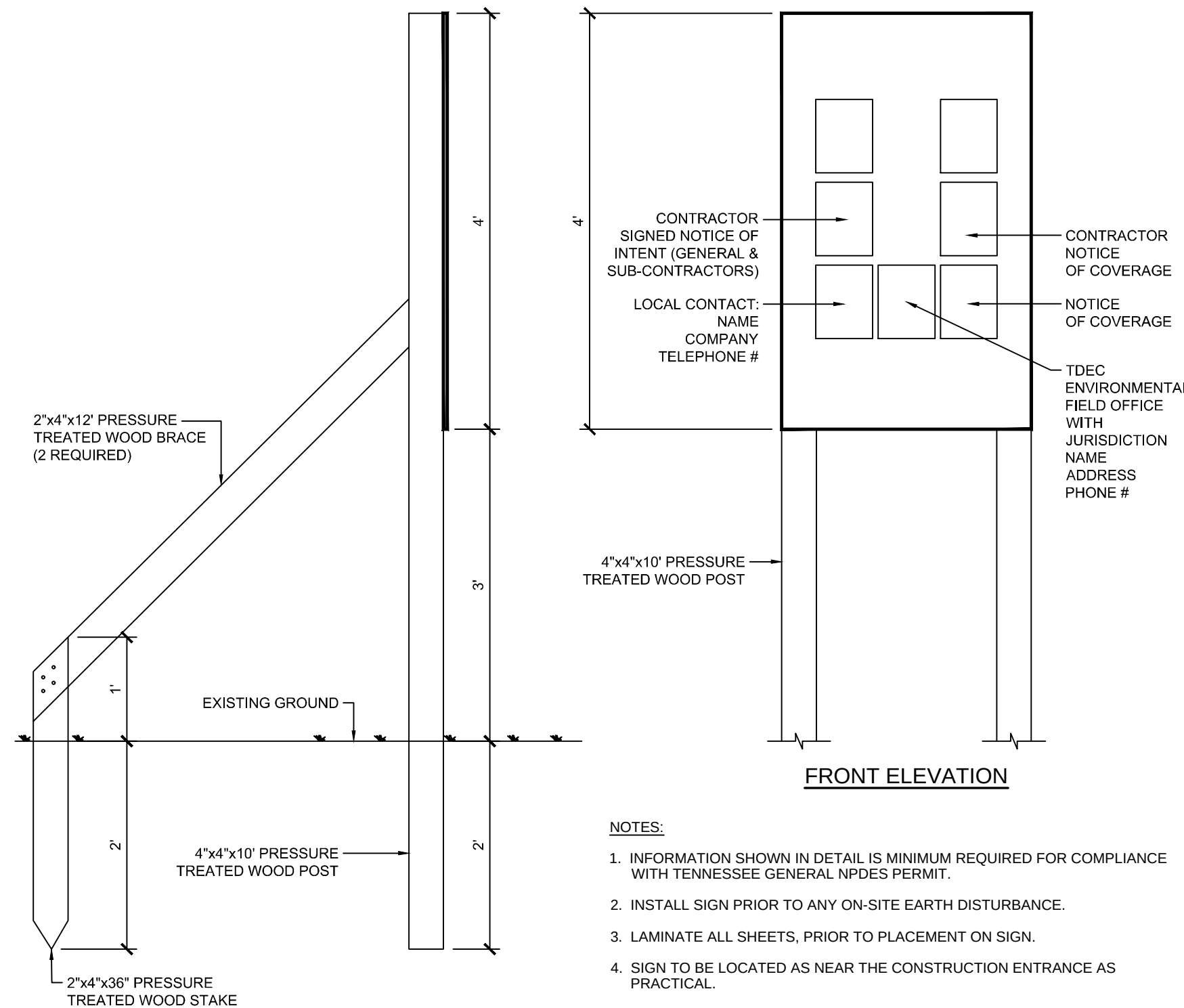
1. LIMITS OF DISTURBANCE, (89,923 SQ. FT. (2.064 ACRES)) +/-
2. CONTRACTOR TO PREPARE SOD BED, INSTALL SOIL AMENDMENTS AS SPECIFIED, AND SOD DISTURBED AREA (NOT OTHERWISE LANDSCAPED) AS SPECIFIED IN PROJECT MANUAL, CONTRACTOR TO PROVIDE TEMPORARY WATERING TO GET SOD ESTABLISHED
3. CONTRACTOR TO PREPARE SEED BED, INSTALL SOIL AMENDMENTS AS SPECIFIED, AND SEED AND MULCH DISTURBED AREA (NOT OTHERWISE LANDSCAPED) AS SPECIFIED IN PROJECT MANUAL, CONTRACTOR TO PROVIDE TEMPORARY WATERING TO GET SOD ESTABLISHED

 Palmer ENGINEERING PALMER ENGINEERING 2000 W. WOODLAND AVE. NASHVILLE, TN 37204 (615) 237-8957 pecnash@palmernet.com JOB NUMBER: 13013.00 DATE: APRIL 1, 2026 SHEET: C-506 SCALE: 1" = 30' H DRAWN: R. HARPER CHECKED: R. HARPER	EROSION CONTROL PLAN - STAGE III		
	TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025		
	TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)		
	NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)		
	COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505		
DATE	2026/04/01	REVISION DESCRIPTION	
		ISSUE FOR BID	



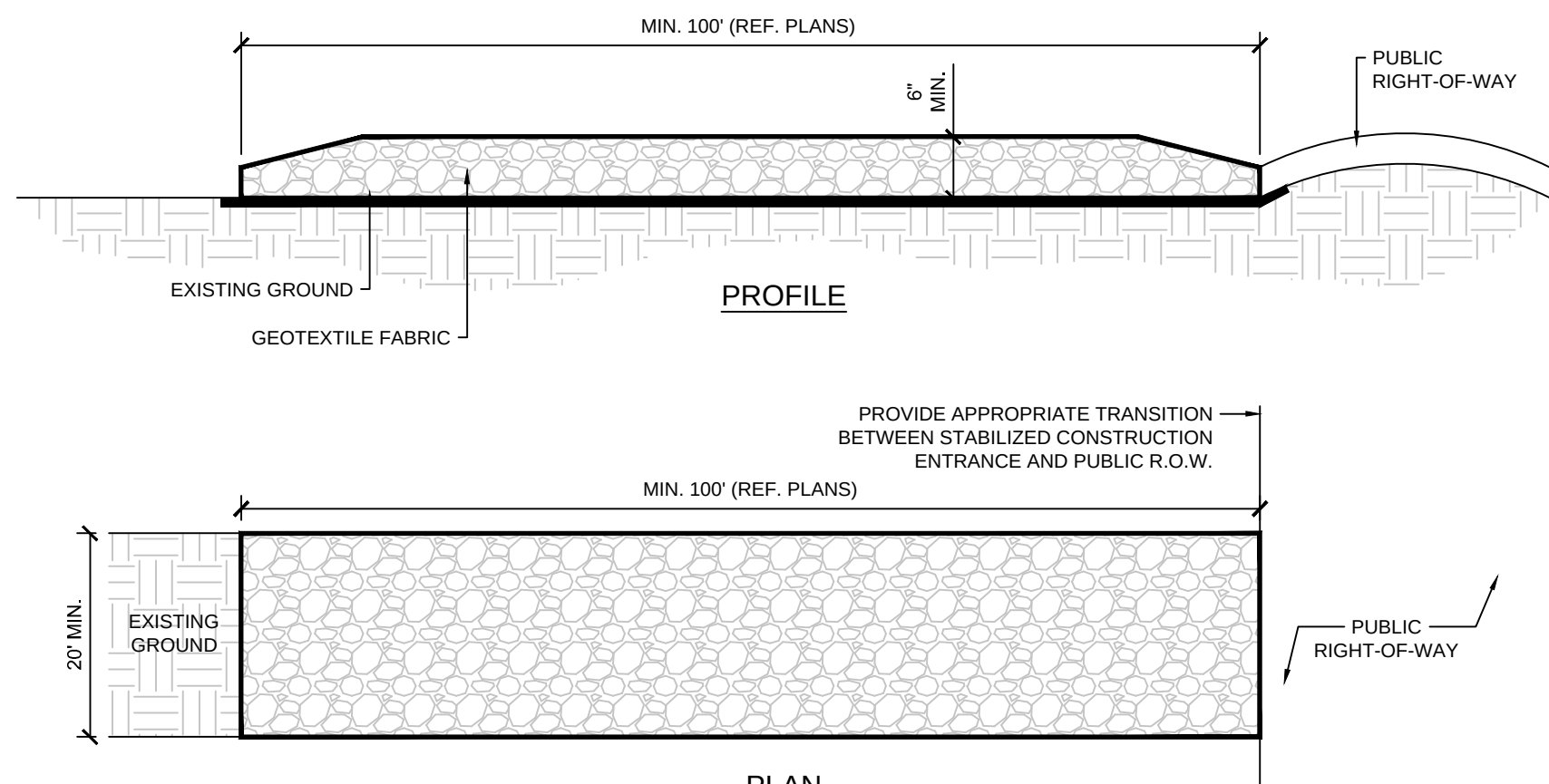
- NOTES:
1. TRACK ALL SLOPES
 2. USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO THE SLOPE. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

TRACKING
NOT TO SCALE



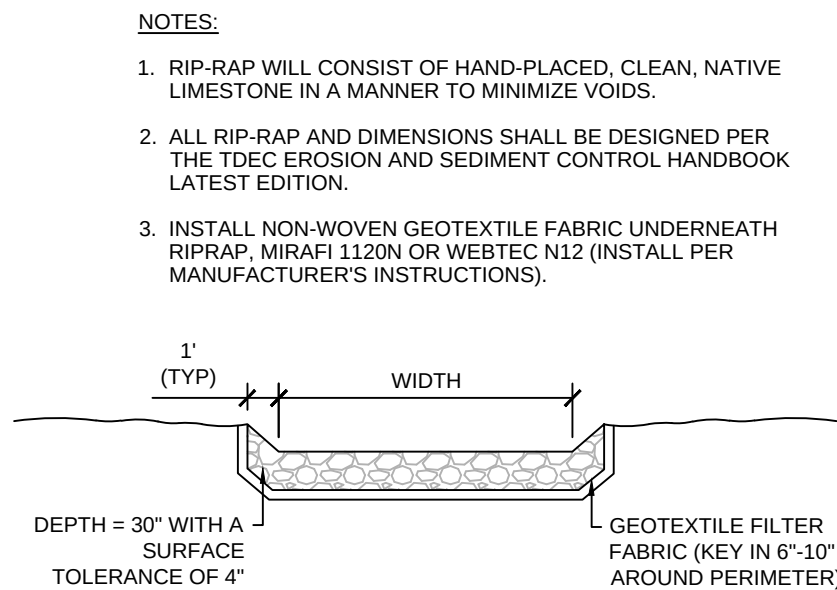
- NOTES:
1. INFORMATION SHOWN IN DETAIL IS MINIMUM REQUIRED FOR COMPLIANCE WITH TENNESSEE GENERAL NPDES PERMIT.
 2. INSTALL SIGN PRIOR TO ANY ON-SITE EARTH DISTURBANCE.
 3. LAMINATE ALL SHEETS, PRIOR TO PLACEMENT ON SIGN.
 4. SIGN TO BE LOCATED AS NEAR THE CONSTRUCTION ENTRANCE AS PRACTICAL.
 5. CONTRACTOR MAY ADD ADDITIONAL SIGNS/ PERMITS AS SPACE WARRANTS.
 6. CONTRACTOR TO ALSO POST SWPPP PLAN SHEETS INSIDE TRAILER AND MARK ANY REVISIONS MADE DURING CONSTRUCTION.

NPDES PERMIT SIGN
NOT TO SCALE



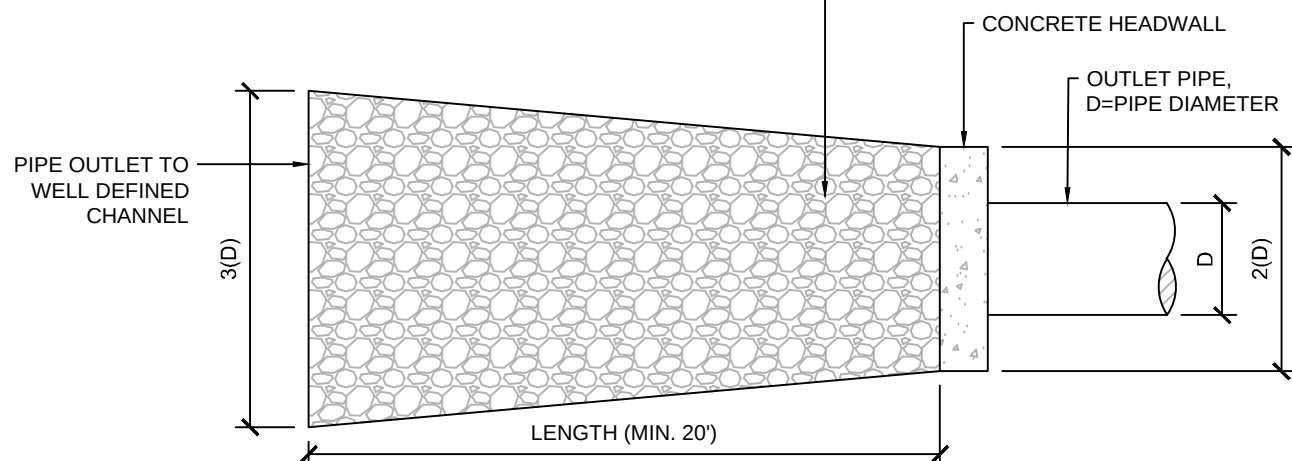
- CONSTRUCTION SPECIFICATIONS:
1. STONE SIZE - USE MSHA SIZE NO. 2 (2 1/2" TO 1") OR AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
 2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 100 FEET.
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS (20' MINIMUM).
 5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
 6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



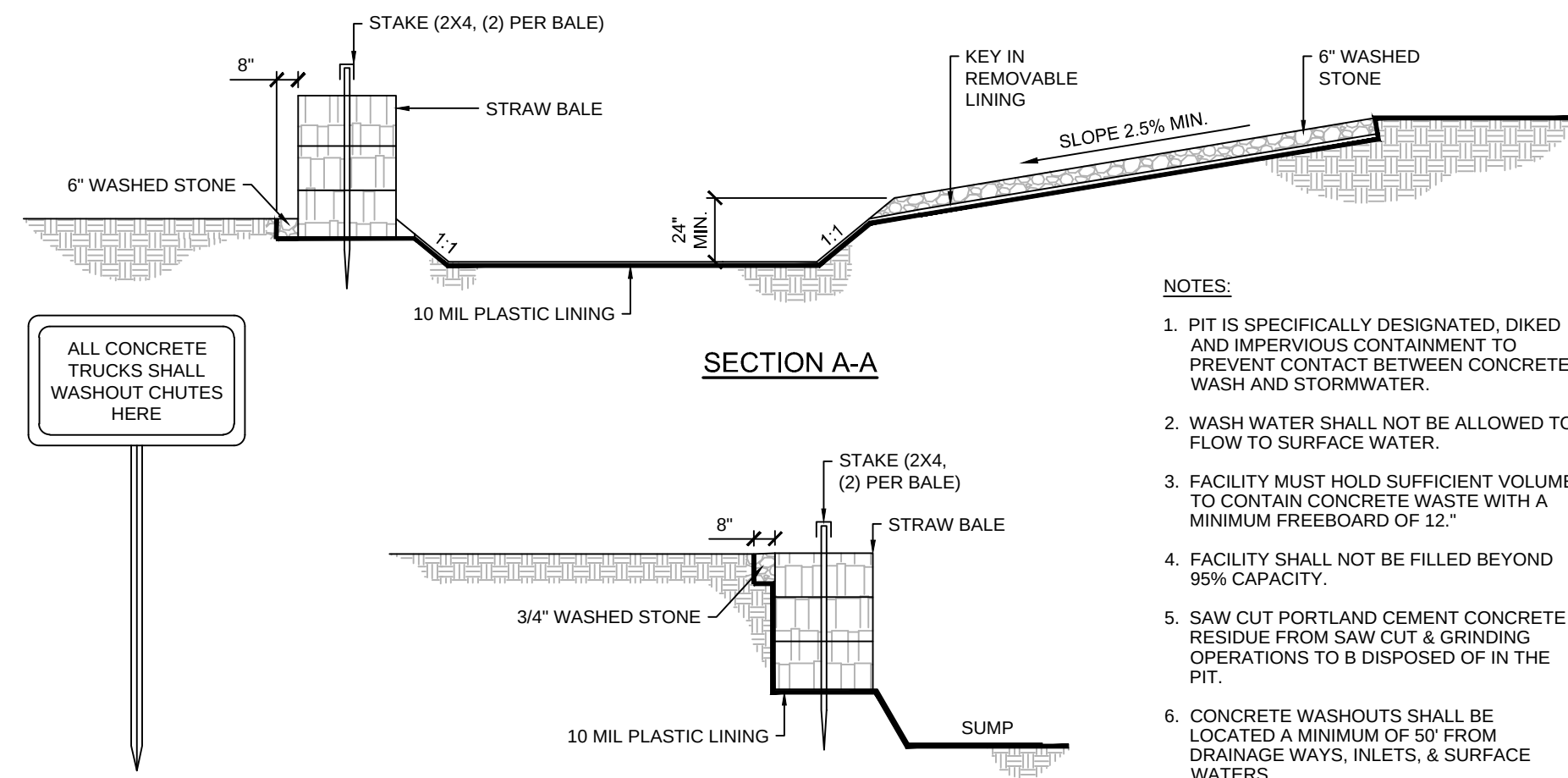
CROSS SECTION

OUTLET PROTECTION TO BE INSTALLED PER THE TDEC EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.



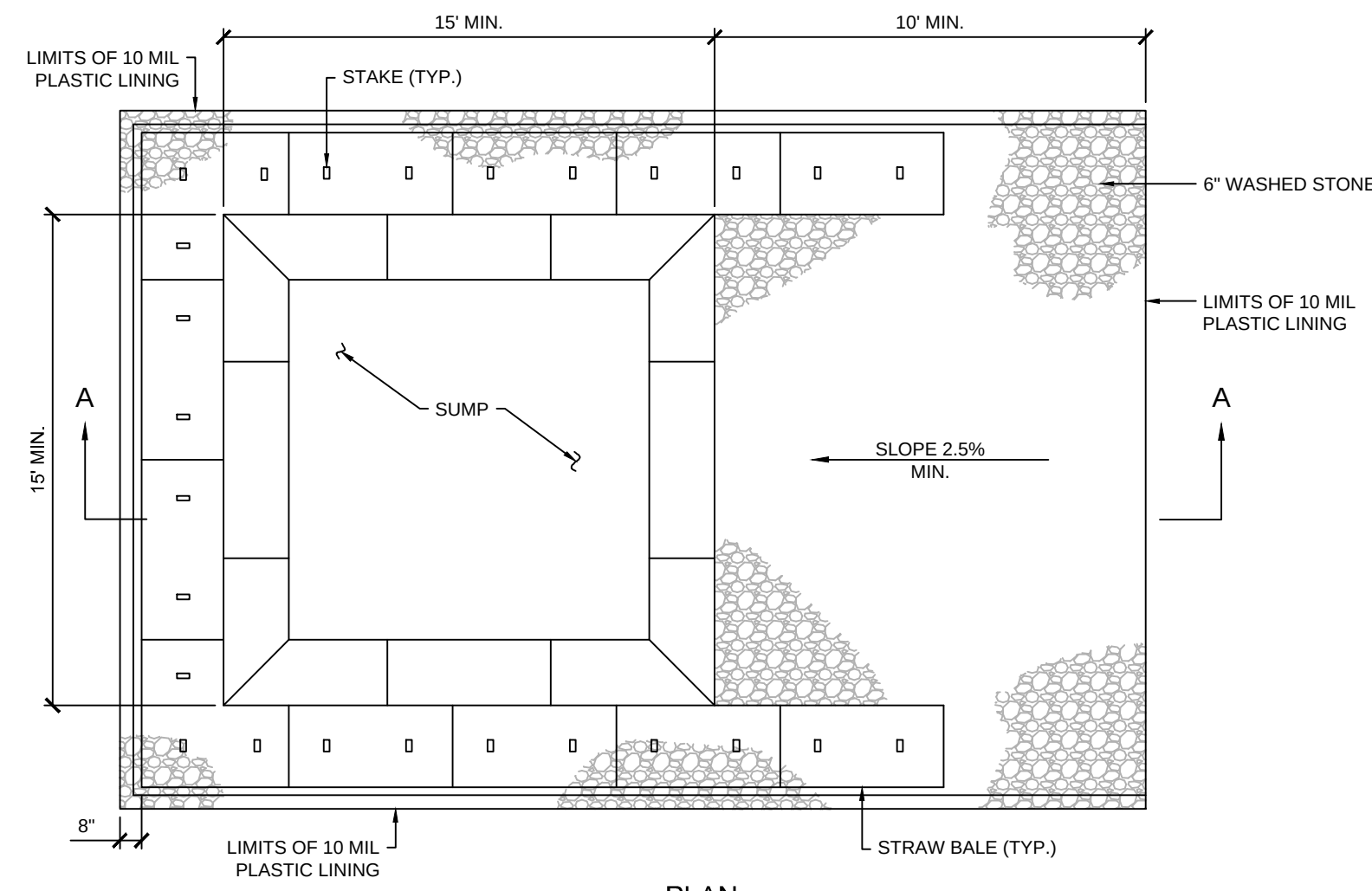
PLAN VIEW

RIP RAP OUTLET PROTECTION
NOT TO SCALE



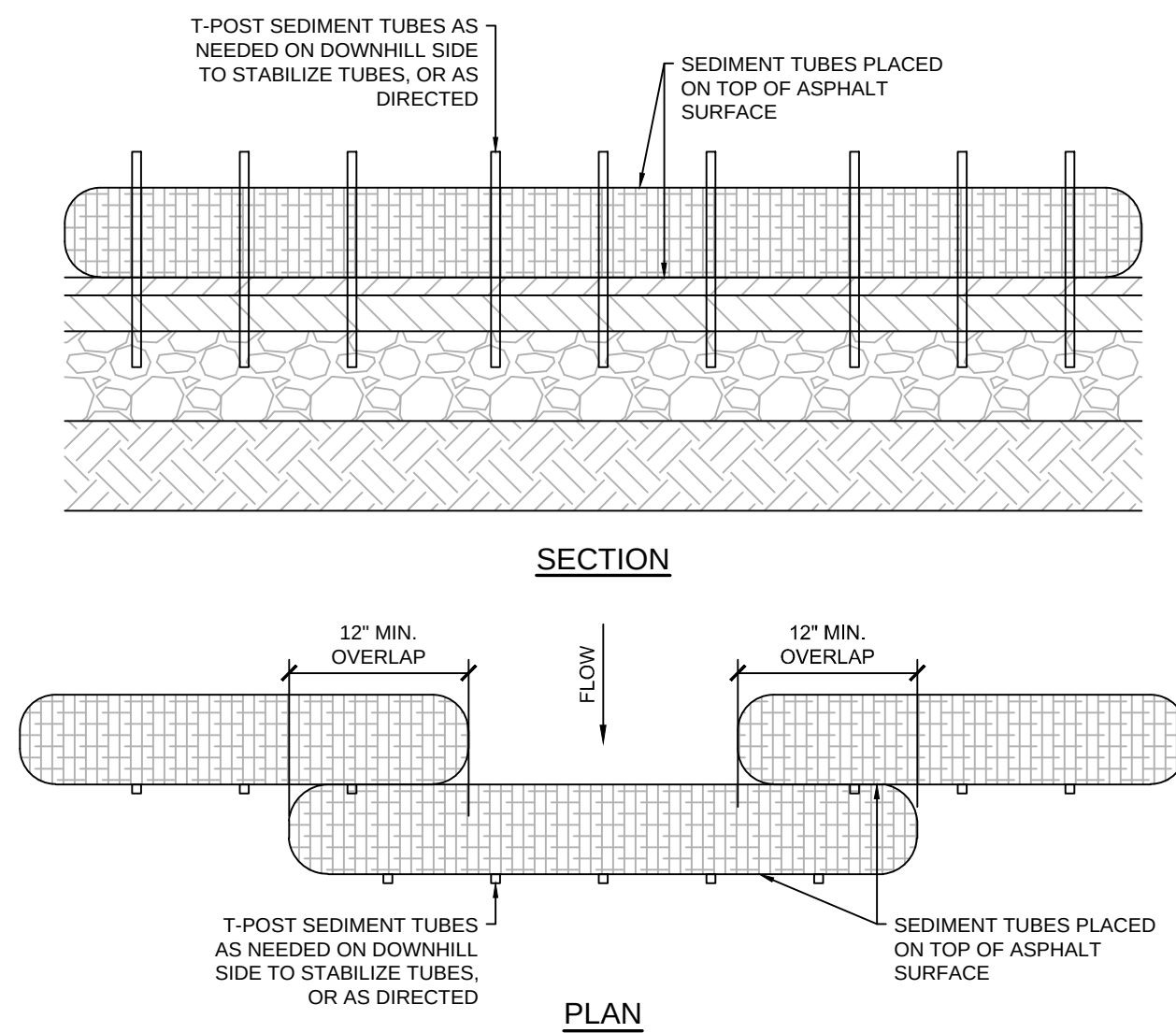
SECTION A-A

WASHOUT SIGN



PLAN

CONCRETE WASHOUT AREA
NOT TO SCALE



SECTION

PLAN

WEIGHTED SEDIMENT TUBE
NOT TO SCALE

EROSION CONTROL DETAILS

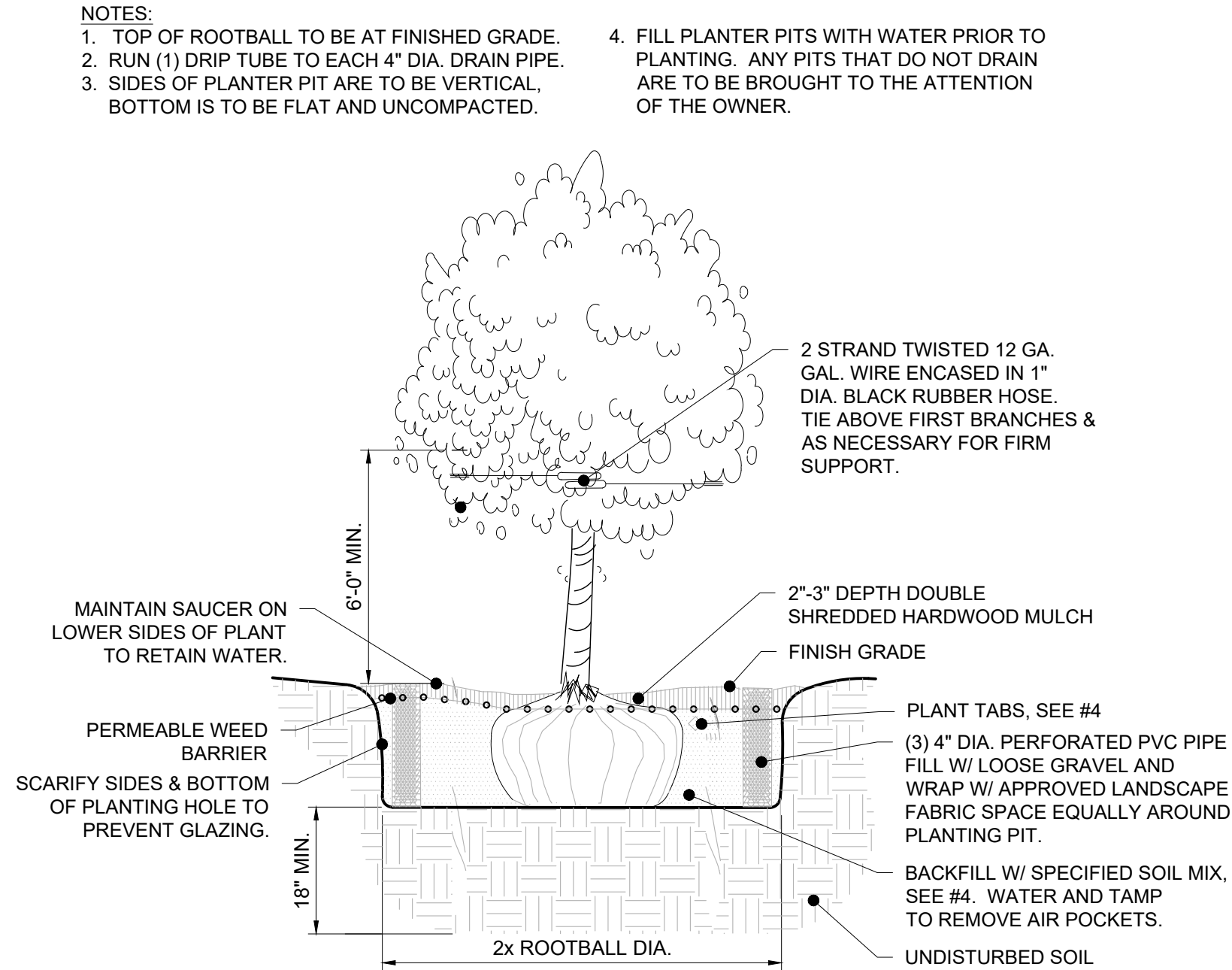
REVISION DESCRIPTION

DATE: 2026/04/01
ISSUE FOR BID

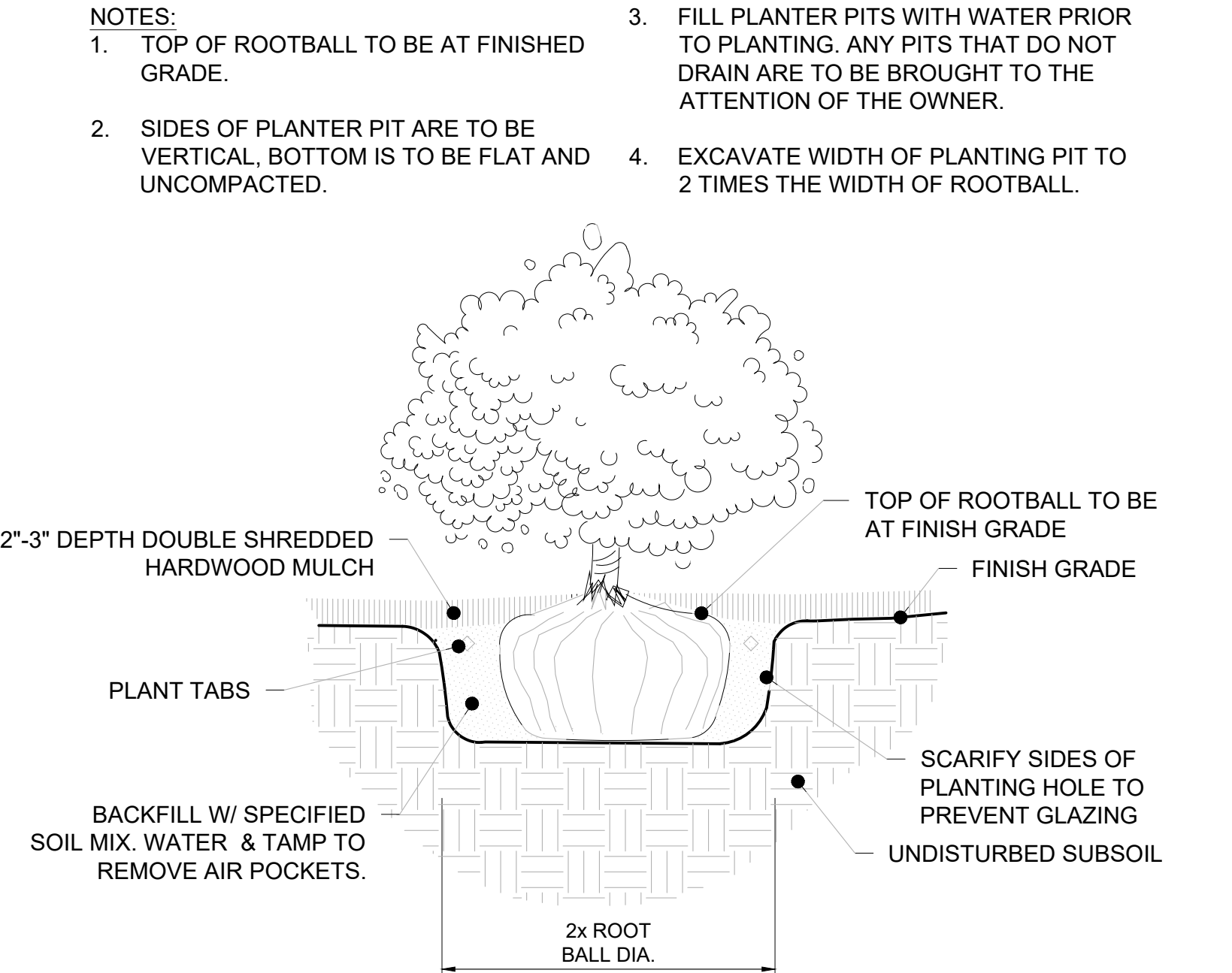
TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505

Palmer
ENGINEERING
PALMER ENGINEERING
2817 ERICA PLACE
NASHVILLE, TN 37204
(615) 581-5677
pjohnstn@palmernet.com

JOB NUMBER: 13013.00
SHEET: C-601
DATE: APRIL 1, 2026
SCALE: N.T.S.
DRAWN: R. HARPER
CHECKED: R. HARPER



TYPICAL TREE PLANTING DETAIL
NOT TO SCALE

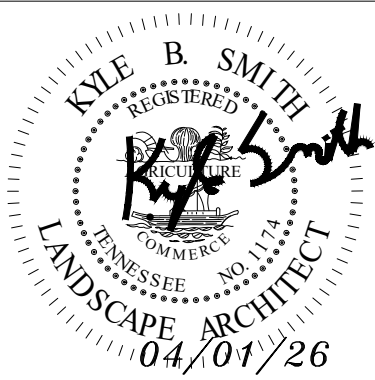
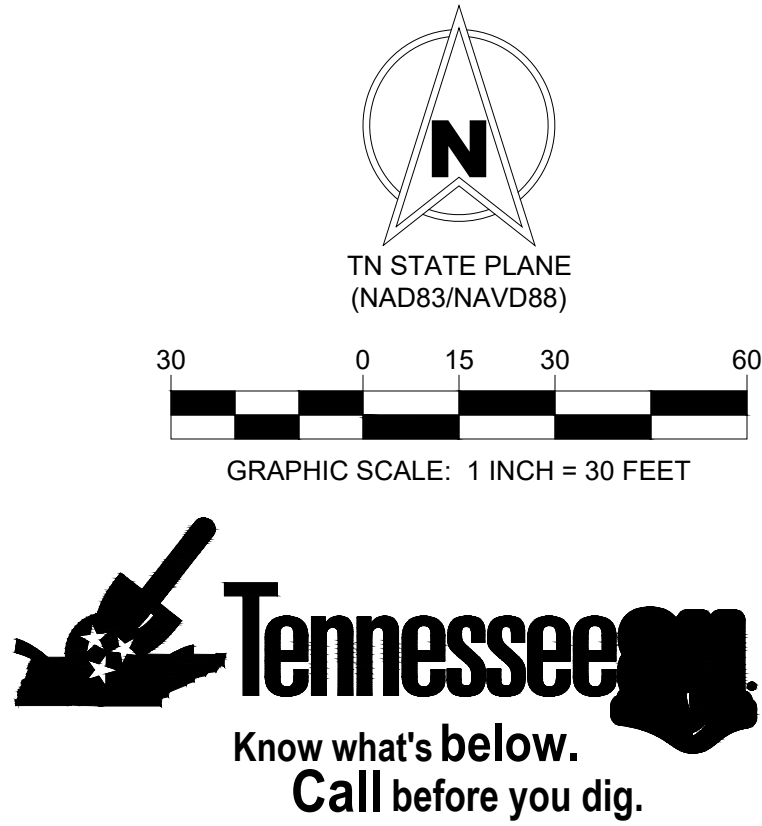


SHRUB PLANTING DETAIL
NOT TO SCALE

LANDSCAPE GENERAL NOTES:

1. NO PLANT SUBSTITUTIONS, TYPE OR QUANTITY DEVIATION FROM THE APPROVED LANDSCAPE PLANS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL FROM THE LANDSCAPE ARCHITECT, AND THE TENNESSEE TECH UNIVERSITY.
2. ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1)
3. COORDINATE WORK WITH ALL TRADES.
4. CONTRACTOR SHALL HAVE PROJECT BLUE STAKED PRIOR TO COMMENCEMENT OF WORK.
5. ALL PLANT MATERIALS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT, OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. TREE HEIGHT AND CALIPER SIZE IS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1)
7. CONTRACTOR TO STAKE LOCATIONS OF ALL PLANT MATERIAL FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
8. LANDSCAPE AREAS SHALL BE AT +/- .10 OF A FOOT FROM FINISHED GRADE PRIOR TO THE COMMENCEMENT OF WORK. ALL GRADING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF PLANT MATERIALS, OR THE IRRIGATION SYSTEM.
9. ALL TREES TO BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE.
10. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL WALLS AND STRUCTURES.
11. ALL SLOPES NOT TO EXCEED 4:1 IN LANDSCAPED AREAS.
12. CONTRACTOR IS TO VERIFY ALL QUANTITIES BASED ON THE APPROVED LANDSCAPE PLAN.
13. CONTRACTOR TO VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK. ALL POTENTIAL CONFLICTS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, OR OWNER'S REPRESENTATIVE IMMEDIATELY.
14. CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENT AND LANDSCAPE TO REMAIN THROUGHOUT CONSTRUCTION ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
15. CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THIS PLAN. ANY AND ALL DEVIATION SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO CERTIFICATE OF OCCUPANCY BEING ISSUED.
16. ALL LANDSCAPE AREAS & MATERIALS SHALL BE MAINTAINED IN A HEALTHY, NEAT, CLEAN, AND WEED-FREE CONDITION DURING CONSTRUCTION. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. AREAS WITHIN THE SIGHT DISTANCE TRIANGLE SHALL BE KEPT CLEAR OF ANY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 2'-0". TREE CANOPIES SHALL BE KEPT HIGHER THAN 9'-0".
18. ALL PLANTING SHALL BE MAINTAINED IN HEALTHY GROWING CONDITION. FERTILIZATION, CULTIVATION, AND PRUNING SHALL BE CARRIED OUT ON A REGULAR BASIS.
19. DEAD OR DYING PLANTS SHALL BE REMOVED AND REPLACED PROMPTLY.
20. ALL PLANTINGS ARE TO BE IRRIGATED AS OFTEN AS NECESSARY TO PROVIDE HEALTHY GROWING CONDITIONS.

PLANT SCHEDULE					
QTY.	COMMON NAME	BOTANICAL NAME	HEIGHT	TRUNK	COMMENTS
CANOPY TREES					
8	Espresso Kentucky Coffee Tree	Gymnocladus dioicis 'Espresso-JFS'	10' - 12'	2" Cal.	B&B
3	October Glory Red Maple	Acer rubrum 'October Glory'	10' - 12'	2" Cal.	B&B
11	TOTAL - CANOPY TREES				
UNDERSTORY/COLUMNAR TREES					
4	'Nellie R. Stevens' Holly	Ilex x 'Nellie R. Stevens'	6' - 7'	2" Cal.	Well formed
4	TOTAL - UNDERSTORY TREES				
15	TOTAL - ALL TREES				
SHRUBS					
60	Dwarf Burford Holly	Ilex cornuta 'Burfordii nana'	24" Min.	5 Gal.	Container
8	Otto Luyken	Prunus laurocerasus 'Otto Luyken'	24" Min.	5 Gal.	Full and Heavy; Container
60	Rose Creek Abelia	Abelia grandiflora 'Rose Creek'	12" Min.	3 Gal.	Container
128	TOTAL - SHRUBS				
TURF					
10,863 SF	Drought Tolerant Turf Type Tall Fescue Sod	Drought Tolerant Turf Type Tall Fescue Sod			
16,689 SF	Drought Tolerant Turf Type Tall Fescue Seed	Drought Tolerant Turf Type Fescue Seed			
CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO PURCHASE. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY ERRORS OR OMISSIONS					



REVISION DESCRIPTION
ISSUE FOR BID

DATE
2/28/2026

PLANTING SCHEDULE, NOTES, & DETAILS

TTU NORTH WHITNEY AVE. PARKING LOT - SBC# 364/011-04-2025
TENNESSEE TECHNOLOGICAL UNIVERSITY (TTU)
NORTH WHITNEY AVE. (WINGS UP WAY - W 10TH ST.)
COOKEVILLE, PUTNAM COUNTY, TENNESSEE 38505

Palmer
ENGINEERING
PALMER ENGINEERING
2817 ERICA PLACE
NASHVILLE, TN 37204
(615) 231-5577
p@palmer.net

JOB NUMBER: 13013.00
SHEET: L-101
DATE: APR. 1, 2026
SCALE:
DRAWN: K. SMITH
CHECKED: K. SMITH

RAINFALL LOG



Tennessee
TECH

2026

RAINFALL LOG

Rain Gauge Location:

[illegible]

2026

RAINFALL LOG

Rain Gauge Location:

[illegible]

2026

RAINFALL LOG

Rain Gauge Location:

[illegible]

2026

RAINFALL LOG

Rain Gauge Location:

[illegible]

**BLANK GENERAL NPDES PERMIT FOR STORMWATER
DISCHARGES FROM CONSTRUCTION ACTIVITIES (CGP)
CONSTRUCTION STORMWATER INSPECTION CERTIFICATION
(INSPECTION FORM CN-1173)**





TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)

DIVISION OF WATER RESOURCES

Davy Crockett Tower 500 James Robertson Parkway, 9th Floor

Nashville, Tennessee 37243

1-888-891-8332 (TDEC)

**General NPDES Permit for Stormwater Discharges from Construction Activities (CGP)
Construction Stormwater Inspection Certification (Inspection Form)**

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/ground conditions:	Rainfall total since last inspection:	Inspector's TNEPSC Certification Number:
Site Assessment ☐ Yes ☐ No	Assessor's TN PE registration number:	Assessor's TNEPSC Level II/CPESC number:

Check the box if the following items are on-site:	
☐	Notice of Coverage (NOC)
☐	Stormwater Pollution Prevention Plan (SWPPP)
☐	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 per the current phase?	☐ Yes	☐ No	
2.	Are EPSCs functioning correctly at all disturbed areas/material storage areas? (permit section 5.5.3)	☐ 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? (permit section 5.5.3.5 and 6.3.2)	☐ Yes	☐ No	
4.	Are EPSCs functioning correctly at ingress/egress points such that there is no evidence of track-out? (permit section 5.5.3.1)	☐ Yes	☐ No	
5.	If applicable, have discharges from dewatering activities been managed by appropriate controls? (permit section 4.1.3) If "No," describe below the measure to be implemented to address deficiencies.	☐ N/A	☐ Yes	☐ No
6.	If construction activity at any location on-site has temporarily/permanently ceased, was the area stabilized within 14 days? (permit section 5.5.3.4) If "No," describe below each location and measures taken to stabilize the area(s).	☐ N/A	☐ Yes	☐ No
7.	Have pollution prevention measures been installed, implemented, and maintained to minimize the discharge of pollutants from wash waters, exposure of materials and discharges from spills and leaks per section 4.1.4? If "No," describe below the measure to be implemented to address deficiencies.	☐ N/A	☐ Yes	☐ No

[illegible]

Construction Stormwater Inspection Certification Form (Inspection Form)

Purpose of this form / Instructions

An inspection, as described in subsection 5.5.3.9. of the General Permit for Stormwater Discharges from Construction Activities ("Permit"), shall be performed at the specified frequency and documented on this form. 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), such inspection only has to be conducted once per month until thawing results in runoff or construction activity resumes.

Inspections can be performed by:

- a) a person with a valid certification from the "Fundamentals of Erosion Prevention and Sediment Control Level I" course,
- b) a licensed professional engineer or landscape architect,
- c) a Certified Professional in Erosion and Sediment Control (CPESC), or
- d) a person who has successfully completed the "Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites" course.

Qualified personnel, as defined in subsection 5.5.3.10 of the Permit (provided by the permittee or cooperatively by multiple permittees) shall inspect disturbed areas of the construction site that have not been permanently 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.

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.

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.

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 if possible, but in no case more than 7 days after the need is identified.

Based on the results of the inspection, the site description identified in the SWPPP in accordance with section 5.5.1 of the Permit and pollution prevention measures identified in the SWPPP in accordance with section 5.5.2 of the Permit, 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.

All inspections shall be documented on this Construction Stormwater Inspection Certification form. Alternative inspection forms may be used as long as the form contents and the inspection certification language are, at a minimum, equivalent to the Division's form and the permittee has obtained a written approval from the Division to use the alternative form. Inspection documentation will be maintained on site and made available to the Division upon request. Inspection reports must be submitted to the Division within 10 days of the request.

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.

**BLANK NOTICE OF TERMINATION (NOT) FOR GENERAL NPDES
PERMIT FOR STORMWATER DISCHARGES FROM
CONSTRUCTION ACTIVITIES (CGP)
(FORM CN-1175) (FOR REFERENCE ONLY, MUST BE
SUBMITTED THROUGH MyTDEC Forms,
<https://forms.tdec.tn.gov/>)**



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)**

DIVISION OF WATER RESOURCES (DWR)
Davy Crockett Tower, 500 James Robertson Parkway, 9th 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. Specifically, this means that all disturbed soils at the portion of the construction site where the operator had control have been permanently 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. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form.

Submit this form to the local DWR Environmental Field Office (EFO) address (see table below) or using MyTDEC Forms electronic submittal process. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC).

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: (check only one)

☐	Primary permittee termination: all requirements for termination under Permit Part 9.1.1. a) through c) have been met. This includes, but is not limited to, for areas the primary permittee has control all earth-disturbing activities at the site are complete and permanent stabilization as defined in Part 10 of the CGP has been achieved. (attach photo documentation)
☐	When applicable, and you are a primary permittee seeking termination, list who is responsible for ongoing maintenance of stormwater controls left on the site subject for long-term use following termination of coverage:
☐	Secondary permittee termination: all requirements for termination under Permit Part 9.2.1. have been met (no longer an operator at the construction site).

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 state is unlawful under the Tennessee Water Quality Control 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 Tennessee Water Quality Control Act. 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:
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EFO	Address	EFO	Street Address
Memphis	8383 Wolf Lake Drive, Bartlett, TN 38133	Cookeville	1221 South Willow Ave., TN 38506
Jackson	1625 Hollywood Drive, TN 38305	Chattanooga	1301 Riverfront Parkway, Ste. 206, TN 37402
Nashville	711 R S Gass Boulevard, TN 37243	Knoxville	3711 Middlebrook Pike, TN 37921
Columbia	1421 Hampshire Pike, TN 38401	Johnson City	2305 Silverdale Road, TN 37601

