Storm
Water
Pollution
Prevention
Plan



Storm Water Pollution Prevention Plan (SWPPP)

Permit Number: WVR112465

Prepared For:

CLAYWOOD PARK PUBLIC SERVICE DISTRICT

Development Name & Location:

MISCELLANEOUS WATER SYSTEM IMPROVEMENTS – PHASE III Dutch Ridge Road and US Route 50 Prepared by:

Date:

CERRONE ASSOCIATES, INC

NOVEMBER 2023

This Storm Water Pollution Prevention Plan (SWPPP) is provided by the West Virginia Department of Environmental Protection (WVDEP). Providing this document does not certify that the information is complete or complies with all requirements. The WVDEP claims no responsibility for omissions or inaccuracies in values or information presented to the WVDEP by businesses seeking compliance with state environmental regulations.

CERTIFICATIONS

To Be Completed by Permittee (Plans and Specifications Operational Control)

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

gg grand Park Bright-Range				
	R. Shayne Broblam, GM Name and Title		304-422-6042 Telephone Number	
	R Shayus Gaflenn Signature		11/28/2023 Date	
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	Name and Title		Telephone Number	
	Signature		Date	

SWPPP Revision Documentation Form

This storm water pollution prevention plan (SWPPP) should be revised and updated to address changes in site conditions, new or revised government regulations, and additional on-site storm water pollution controls. The signature of this representative attests that the SWPPP revision information is true and accurate. Previous authors and facility representatives are not responsible for the revisions.

Number	Date	Company Representative's Signature

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1.0. CONTACT INFORMATION

PERMITTEE	PHONE/FAX/MOBILE	ADDRESS
Claywood Park PSD	304-422-6042	PO Box 127
		Parkersburg, WV 26102 – 0127
PROJECT CONTRACTOR		
TBD		
QUALIFIED PERSON/ 24-HOUR		
CONTACT		
	204 422 6042	
Shayne Brabham, General	304-422-6042	
Manager		
OTHER		
OTTER		

2.0 OBJECTIVE

A storm water pollution prevention plan must be prepared for storm water discharges that will reach Waters of West Virginia, including discharges to the Municipal Separate Storm Sewer System (MS4), and to identify and address potential sources of pollution that are reasonably expected to affect the quality of discharges from the construction site, including off-site material storage areas, overburden and stockpiles of dirt, borrow areas, equipment staging areas, vehicle repair areas, fueling areas, etc., used by the permitted project. The SWPPP must describe and ensure the implementation of practices that will be used to reduce the pollutants in storm water discharges associated with construction activity at the construction site and assure compliance with the terms and conditions of the general permit.

3.0 Non-Storm Water Discharges

All discharges authorized by this permit shall be composed entirely of storm water.

4.0 SWPPP REVIEW AND AMMENDMENTS

4.1 Review

This SWPPP must be retained on-site at the construction site or, if the site is inactive or does not have an on-site location to store the plan, a notice must be posted describing the location of the SWPPP. This SWPPP must be made readily available at the time of an on-site inspection.

4.2 Amendments

This SWPPP will be revised or updated when the following occurs:

- 1. Change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants and that has not been previously addressed in this SWPPP.
- 2. Results of inspections or investigations indicating this SWPPP is proving ineffective in eliminating or significantly minimizing pollutants in discharges authorized under the general permit.
- 3. To identify any new contractor and/or subcontractor that will implement a measure of the SWPPP.

All other permittees implementing portions of the SWPPP that will be impacted by a change to the SWPPP will be notified of the change in a timely fashion.

The revisions to the SWPPP will be documented on the "SWPPP Revision Documentation Form" found in the front of this document. The authorized representative with regulatory authority (corporate officer or proprietor) to approve the SWPPP shall sign the modified plan certifying that the SWPPP revision information is true and accurate.

5.0 SITE OR PROJECT DESCRIPTION

5.1 Description of Construction Activity & Environmental Impacts

Developer: <u>Cerrone Associates, Inc.</u>

Builder: TBD

SiteLocation: US Route 50 and Dutch Ridge Road CR 47/4

Site/Project Description and Mitigation of Potential Environmental Impacts: CONTRACT #1 - Dutch Ridge Water Line Replacement: Replacement of approximately 980 LF of 8", 18,090 LF of 6",60 LF of 4", and 150 LF of 2" water line, 34 gate valve and boxes, 6 fire hydrants, 277' highway boring, 2,135' of horizontal directional drills, 96 service reconnect, 21 cut and cap existing main, and 17 tie in to existing mains; and other work required to provide a complete operating water system.

Install erosion control facilities and devices, strip topsoil, commence excavation, install bedding (if necessary), install pipe, backfill, restore surface with top soil, lime, fertilizer, seed, and mulch. Surface restoration must be done within 4 days of commencing excavation. Maintain erosion control measures until vegetative cover is established. Open trench to be sufficient in advance of pipe laying to expose any obstructions that might alter alignment or grade, but not more than can be backfilled at the end of the work day, or 200 feet, whichever is less. No trench will be left open overnight.

5.2 Construction Activity with Potential Pollutants and Sources

The following lists the construction activities or materials that have the potential to contribute pollutants, including sediment, to storm water runoff.

Construction Activity and/or Material	Potential Pollutant
Land clearing	 Sediment – Total Suspended Solids (TSS), turbidity, oil and grease, Total Petroleum Hydrocarbons (TPH)
Excavation	 Sediment – TSS, turbidity, oil and grease, TPH
Filling	 Sediment – TSS, turbidity, oil and grease, TPH

Paving	 Sediment – TSS, turbidity, oil and grease, TPH, pH
 Install foundations, retaining walls, etc 	 Sediment – TSS, turbidity, oil and grease, TPH, pH
Grading	 Sediment – TSS, turbidity, oil and grease, TPH
Utilities	 Sediment – TSS, turbidity, oil and grease, TPH
•	•
•	•

5.3 Major Activities Schedule

The following schedule sheet is an intended schedule or sequence of major activities that will disturb the soil for major portions of the site. Details are provided as an attachment in Appendix C.

Schedule Sheet for Soil Disturbing Activities

Estimate Construction Start Date: November 2024

Estimate Construction End Date: <u>September 2025</u>

Activity	Estimated Time	Actual Time
Install BMPs		
Land clearing		
Grading		
Excavation		
Filling		
Utilities		
Install foundations, retaining walls, etc		
Paving		
Revegetation		
BMP Removal		

5.4 Property Acreage

The total area of the property is \underline{NA} acres. The total anticipated area of soils to be disturbed is $\underline{2.52}$ acres.

5.5 Construction Activity Acreage

The total number of acres of construction activities, material storage areas, stockpiles, and borrows areas are listed below:

Activity or Material	Acres
Construction Activities (resulting in land disturbance)	2.52
Off-site Material Storage Areas	
Overburden and Stockpiles of Dirt	
Borrow Areas	

5.6 Soil Data

Soil data for each lot is listed on a "Soil Data Sheet". This information includes pre-construction and post-construction runoff coefficient as well as a description of the soil type.

Soil Data Sheet

Pre-construction runoff coefficient: <u>.25</u>
Post-construction runoff coefficient:25
Runoff Coefficient: High: 70-100% impervious (example: asphalt, buildings, paved surfaces) Medium: 40-70% impervious (example: packed soils) Low: 0-40% impervious (example: grassy areas)
Description of soil: soil name(s), soil mapping unit, erodability, settleability, depth, texture and soil structure:

5.7 General Location Map and Site Map

The general location map found in Appendix A shows the location of the site. A detailed site map is also attached.

5.8 Erosion and Sediment Control Site Map

Site maps shall contain a North arrow with sites oriented to the North, with a minimum of five-foot topographical contours. The maps shall include:

- Nearest receiving streams, springs, surface waters to the site;
- Limits of all areas to be disturbed (LOD);
- Existing roads including public roads from which access to the site will be constructed;
- Access roads:
- Drainage patterns during and after construction with the outlet markers depicting the storm water discharge points; No change to drainage patterns
- Slopes prior to constructions and anticipated conditions after grading activities; No change in slopes
- Location of topsoil stockpiles; No stockpile anticipated put back as backfill during construction.
- Waste areas of 1 acre or greater within or contiguous to the construction site; No waste areas anticipated
- Borrow sites of 1 acre or greater within or contiguous to the construction site; No borrow sites anticipated
- Locations and identification of sediment control structures;
- Total acreage and location of impervious areas after construction is complete;
- Location of rain gauge provided by the applicant
 - Or a statement the applicant will obtain the precipitation event information from a National Oceanic Atmospheric Administration (NOAA) weather station that is representative of the location and provide the Station ID Number. ID GHCND:USW00013867
- Post-development storm water management structures required by local governments
- Final storm water conveyances, including all ditches and pipe systems;
- Property boundaries and easements; and
- A legend, complete with any other information necessary to describe the project in detail.

5.9 Industrial Discharges

This project <u>does/does not</u> (circle one) involve discharges associated with industrial activities other than commercial construction activities.

For construction occurring on an industrial site, reference existing multisector SWPPP, if applicable. There <u>are/are not</u> (circle one) dedicated concrete or asphalt plants associated with this project.

There will be no discharge of process wastewater from concrete or asphalt plants. Water from equipment and vehicle washing, wheel washing, concrete and bituminous washout, and washout from paints, oils, and other construction materials is production waste water and cannot be disposed of on site or discharged without an individual NPDES permit. It must be contained and removed for processing and proper disposal.

5.10 Receiving Waters

The fire	st named water body th	at receives stormwater discharges	from the
site is	Little Kanawha River	(See Appendix A: General Site	Location
Map)			

The Designated Uses for this water body are:	

5.11 WVDEP Construction General Permit, WV0115924

A copy of the WVDEP Construction General Permit, WV0115924 is included in Appendix B.

5.12 Threatened and/or Endangered Species

To be eligible for coverage under the construction stormwater permit,
facilities must provide documentation on whether a listed endangered or
threatened species, or critical habitat, are found with the proximity of the
project. The facility used The Endangered Species Guidance provided in
the Notice of Intent to help determine the status of the site. The species
that must be considered in the Parish where this site is located are:

A visual inspection of the area indicated (Check One):

- □ No endangered or threatened species and/or critical habitat located within the proximity of the facility.
- ☐ The following species and/or critical habitat and findings were noted:

See attached Comment Letters in Appendix A

NOTE: Include documentation regarding authorization under the Endangered Species Act (ESA), comprehensive site assessments, and/or BMP's that are protective of listed endangered and threatened species and/or critical habitat, where applicable.

5.13 Historical Determination

The adverse effects on historic properties must be considered before a facility can be covered by the construction general permit. The National Register of Historic Places web site was reviewed and revealed the following (Check One):

- None of the listed sites are located in the vicinity of the facility, or listed sites will not be affected by the facility.
- ☐ The following sites are located in the vicinity of the facility (West Virginia State Historic Preservation written agreement included in Appendix A.)

See attached SHPO Comment Letter in Appendix A

NOTE: Include written agreement with the West Virginia State Historic Preservation Officer (SHPO) that outlines all measures to be undertaken to mitigate or prevent adverse effects to the historic property, where applicable.

5.14 Total Maximum Daily Loading (TMDL)

The WVDEP (Check One)

- Currently, there is no TMDL established for the receiving stream that would regulate potential pollutants from the construction site.
 - ☐ Tier 2 receiving waters enhanced BMP's chosen for this site and discussed in this SWPPP are expected to ensure that storm water discharges are protective of water quality standards.

6.0 EROSION AND SEDIMENT CONTROLS

This section includes descriptions of control measures that will be implemented to control pollutants in the storm water discharges. The control measures shall, at a minimum, be designed to effectively minimize

the discharge of pollutants by design, installation, and maintenance, in order to meet effluent limitations required by 40 CFR 450.21. These limitations were incorporated into the reissued WV0115924, effective February 10, 2019.

6.1 Short and Long-Term Goals/Criteria

- Retain sediment on-site to the extent practicable with consideration for local topography, soil type, and rainfall.
- Select, install, and maintain control measures according to the manufacturer or designer's specifications.
- Remove sediment accumulations if sediment escapes the site at a frequency to minimize further negative effects and, whenever feasible, prior to the next storm event.
- Remove sediment from sediment traps and sedimentation ponds no later than the time that the wet storage design capacity has been reduced by 50%.
- Remove sediment from silt fences, silt socks, and straw wattles before reaching 50% of BMP height (above ground).
- Address off-site material storage areas in erosion and sediment control efforts (overburden and dirt stockpiles, borrow areas).

6.2 Best Practicable Technology (BPT)

The chosen controls shall include designs that are effective at minimizing pollutants, and should be installed and maintained to:

- Control storm water volume and velocity in ways that minimize soil erosion.
- Control storm water runoff during peak flow and total storm runoff volume to minimize channel and stream bank erosion and scour around discharge points.
- Minimize exposed soils generated during construction.
- Preserve topsoil where feasible.
- Minimize disturbance of steep slopes on site.
- Minimize sediment discharge with erosion and sediment controls that are designed and installed to address:
 - o Duration, amount, frequency and intensity of precipitation,
 - Nature of resulting runoff,
 - Soil characteristics: range of particle sizes present.
- Use natural buffers around waters of the state and direct runoff to these areas, where feasible.
 - Discharges to Outstanding Natural Resource Waters and impaired streams must have a 100-foot buffer zone,

- Explain alternative practices where site constraints limit buffer zones.
- Minimize soil compaction unless dictated by site development
- Utilize outlet structures that withdraw water from the surface of settling basins or impoundments.

6.3 Site-Specific Erosion and Sediment Controls

The erosion and sediment control methods used are listed in the "Erosion and Sediment Control Plan". The plan for each lot, where applicable, is found in the "Individual Lot Information" section of the appendix. The sediment controls should address all of the requirements in Sections 6.1 and 6.2 of this SWPPP.

7.0 STABILIZATION PRACTICES

The site stabilization practices described in this SWPPP include temporary and permanent stabilization measures that ensure that disturbed portions of the site are stabilized, and that existing vegetation is preserved when possible. Final stabilization measures may include but are not limited to permanent protection such as pavement, compacted gravel, permeable pavements/pavers, buildings, stable waterways (riprap, concrete, grass or pipe), a healthy, vigorous stand of grass or natural vegetation that uniformly covers at least 70 percent of the ground, stable outlet channels with velocity dissipation that directs site runoff to a natural watercourse, and any other approved structure or material.

7.1 Deadline to Initiate Stabilization Measures

The types of activities that constitute the initiation of stabilization include, but are not limited to:

- Prepping soil for vegetative or non-vegetative stabilization
- Applying mulch or other non-vegetative product
- Seeding or planting
- Starting stabilization practices on a porting of the area to be stabilized
- Finalizing arrangements to have stabilization product fully installed.

Except as noted below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 4 days after the construction activity in that portion of the site has permanently ceased or 4 days for sites required to use enhanced BMP's.

- Where the initiation of stabilization measures by the 4th day, as applicable after construction activity temporarily or permanently ceases is precluded by natural causes, stabilization measures shall be initiated as soon as conditions allow.
- Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (i.e., the total time period that construction activity is temporarily halted is less than 14 days) then stabilization measures do not have to be initiated on that portion of the site by the fourth day after construction activities have temporarily ceased.
- Areas where the seed has failed to germinate adequately (uniform perennial vegetative cover with a density of 70%) within 30 days after seeding and mulching must be reseeded immediately, or as soon as weather conditions allow.

7.2 Deadline to Complete Installation of Stabilization Measures

As soon as practicable, but no later than 4 days after initiation of soil stabilization measures, the site will have completed:

- Vegetative Stabilization initial seeding or planting, and/or
- Non-Vegetative installation or application of stabilization measures.

With extenuating circumstances like frozen conditions, stabilization measures will be completed as soon as practicable. Routine inspections will be continued until final stabilization requirements are met.

7.3 Other Deadlines

Where the site is affected by circumstances beyond the control of the Stormwater Permittee, and vegetative stabilization measures are proposed, the following deadlines apply:

- Immediately initiate, and within 4 days complete installation of temporary non-vegetative measures to prevent erosion.
- As soon as conditions allow, the activities required to plant and initially establish vegetation will proceed.

The circumstances that led to the inability to complete the deadlines outlined in sections 7.1 and 7.2 of this SWPPP will be documented, with the outline of a schedule for initiating and completing stabilization.

7.4 Stabilization Records

The stabilization practices implemented will be recorded on the "Stabilization Practice Schedule" found in the appendix. If construction activities temporarily or permanently cease, then it will be noted in the Stabilization Practice Schedule.

Stabilization Practice Schedule

Stabilization Practices	Location	Time Frame*

^{*} Time Frame: Includes dates of major grading activities, dates when construction activities temporarily or permanently ceases on a portion of the site, date when stabilization measures are initiated.

8.0 STRUCTURAL CONTROLS

8.1 Structural Control Requirements

Sediment traps and sediment basins may be used to control solids in storm water runoff for drainage locations serving less than ten (10) acres. Sediment basins must utilize outlet structures that release water from the surface, unless infeasible.

At a minimum, super silt fence, belted reinforced silt fence, standard silt fences, 18" silt socks, or equivalent sediment controls are required for all down slope boundaries (and for those side slope boundaries deemed appropriate as dictated by individual site conditions) of the construction.

8.2 Site Structural Controls

The structural controls used on each lot are listed on the Structural Controls Sheet included in the Site Information Section of the appendix. These controls are used to divert flows away from exposed soils, to limit the contact of runoff with disturbed areas, or to lessen the off-site transport of eroded soils.

Structural Control Sheet

Structural Control Selected	Rational

9.0 STORM WATER MANAGEMENT

If any permanent storm water controls (e.g. detention ponds, catch basin filter inserts, etc.) or velocity dissipation devices are installed during the construction process to control pollutants in storm water discharges and will remain in place after the completion of construction operations will be noted on the Structural Control Sheet found in the Site Information section of the appendix.

10.0 OTHER CONTROLS

10.1 Other Control Requirements

To minimize off-site tracking of sediments and generation of dust, typical controls may include stabilized construction entrances, shoveling and sweeping, watering for dust control, etc.

All construction and waste materials that pose a potential pollutant source to the storm water runoff from the construction site will be stored in such a manner so as to prevent or minimize storm water contact.

To demonstrate that all applicable state and local regulations governing waste disposal, sanitary sewer or septic systems are being obeyed, the following practices are in place:

- The site will have the typical waste lumber, insulation, sheetrock, roofing, used paint supplies, etc. commonly found on a construction site. Either a roll off dumpster or wire fence containment will be provided for storing trash and rubbish until it can be properly disposed of. The dumpster or fence containment will be covered when not in use to prevent storm water from coming into contact with the trash and rubbish.
- Any concrete or asphalt plants associated with the project will be permitted and operated under their appropriate stormwater pollution prevention control plans.
- Any controls required for endangered or threatened species or their habitat, and/or those required by the State Historic Preservation Officer (SHPO) will be installed properly and maintained accordingly.

10.2 Other Controls at the Site:

If any other controls will be used, it will be described on the Other Control Sheet found in the Site Information in the appendix. For complex sites with more comprehensive controls, details are included in Appendix C.

Other Controls Sheet

Controls	Rationale
Dust -	Water as needed
Off-site Tracking -	Shoveling or sweeping as needed
Sewage -	Port-a-toilets for workers; POTW for residence
Construction Litter and Trash -	Covered dumpster to minimize waste materials contact with storm water

11.0 APPROVED LOCAL PLAN

The local requirements for an Erosion and Sediment Control Plan may or may not be met by the information contained in this SWPPP. Additional information may be requested to fully comply with these local requirements.

12.0 MAINTENANCE

All erosion and sediment control measures and other protective measures identified in this SWPPP must be maintained in effective operating condition. If through inspections the permittee determines that BMPs are not operating effectively, maintenance must be performed within 24 hours for active construction sites and before the next anticipated storm event to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, run-over, removed, or otherwise rendered ineffective must be replaced or

corrected immediately upon discovery.

13. 0 INSPECTIONS OF CONTROLS

The permittee shall ensure site inspections are conducted by a Qualified Person in accordance with this section. The purpose of the inspections is to ensure compliance with the approved plan, and when the approved plan is not effective at protecting water quality, the inspection is to document that plan improvements are needed.

The person(s) inspecting the site may be a staff person or a third party hired to conduct such inspections as long as they meet the definition of a Qualified Person.

The site must be inspected as listed below, unless the site discharges to sensitive waters or the site qualifies for a reduction in the inspection frequency.

- At least once every four (4) calendar days and
- Within 24 hours of the occurrence of a precipitation event of 0.25 inches or greater, or the occurrence of runoff from snowmelt sufficient to cause a discharge.

An increase in inspection frequency is required for sites discharging to all waters except Tier 1.

For any portion of the site that discharges to a water that is classified as Tier 2 or Tier 3, or listed on the 303(d) list, inspections must be conducted in accordance with the following inspection frequencies:

- Once every four (4) calendar days, and
- Within 24 hours of the occurrence of a precipitation event of 0.25 inches or greater, or the occurrence of runoff from snowmelt sufficient to cause a discharge.

Reductions in inspection frequency may occur in accordance with the following:

Stabilized areas:

The permittee may reduce the frequency of inspections to twice per month, no more than 14 calendar days apart, in any area of the site where final stabilization has been completed. If construction activity resumes in this portion of the site at a later date, the inspection frequency immediately increases to that required previous to the reduced frequency. The beginning and ending dates of this period must be recorded in the inspection report.

Exceptions:

For "linear projects", where disturbed portions have undergone final stabilization at the same time active construction continues elsewhere, the permittee may reduce the frequency of inspections to twice per month no more than 14 calendar days apart, in any area of the site where the final stabilization has been completed. Inspect once more within 24 hours of the occurrence of a precipitation event of 0.25 inches or greater. If there are no issues or evidence of stabilization problems, further inspections may be suspended. If "wash-out" of stabilization materials and/or sediment is observed, following re-stabilization, the reduced inspection frequency is suspended. Inspections must continue until final stabilization is visually confirmed following a precipitation event of 0.25 inches or greater.

Frozen conditions:

If the permittee suspends construction activities due to frozen conditions, inspections on the site may be temporarily suspended until thawing conditions begin to occur if:

- Runoff is unlikely due to continuous frozen conditions that are likely
 to continue at the site for at least three (3) months based on historic
 seasonal averages. If unexpected weather conditions (such as
 above freezing temperatures or rain events) make discharges likely,
 the permittee must immediately resume the regular inspection
 frequency as applicable;
- Land disturbances have been suspended and all disturbed areas of the site have been stabilized.

If still conducting construction activities during frozen conditions, the permittee may reduce the inspection frequency to once per month if:

- Runoff is unlikely due to continuous frozen conditions that are likely
 to continue at the site for at least three (3) months based on historic
 seasonal averages. If unexpected weather conditions (such as
 above freezing temperatures or rain events) make discharges likely,
 the permittee must immediately resume the regular inspection
 frequency; and
- Except for areas undergoing construction activities, disturbed areas
 of the site have been stabilized, the beginning and ending dates of
 this period must be documented in the inspection report.

14.0 CONTRACTORS AND SUBCONTRACTORS RESPONSIBILITY

Each control measure implemented on site is identified along with the person responsible for implementing that measure in the Erosion and Sediment Control Plan found in the "Site Information" section of the appendix.

A list of contractors and subcontractors and the control measures their operations impact is listed in the "Site Information" section of the appendix. If the contractor is unknown at this time, this requirement may be waived.

All contractors and subcontractors working at the site are informed of the terms and conditions of the SWPPP and their obligation to follow the plan. In doing so, they agree not to perform their operations counter to the plan without first contacting the Permittee in order that the necessary adjustments to the SWPPP plan can be made to assure that pollutants are not discharged from the site in the storm water runoff.

15.0 UTILITY COMPANIES

Each control measure relating to the installation of utility service, is listed in the "Erosion and Sediment Control Plan" found in the "Site Information" section in the appendix.

16.0 EMERGENCY NOTIFICATION

In the event of an unauthorized discharge that causes an emergency condition, the operator shall notify the hotline (WVDEP24-hour Elkview Emergency Response Unit) by telephone at 1-(304) 558-5938 or 1-(800) 642-3074 and the National Response Center at 1-(800)-424-8802 no later than one hour after learning of the discharge. Notification will be made regardless of the amount of the discharge. A written notification shall be provided within five (5) calendar days after the telephone notification, in accordance with the general permit requirements. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time, and if, the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

17. EMPLOYEE TRAINING

Describe an employee training program for all on-site personnel directly involved with construction activities at all levels of responsibility that reiterates the components and goal of the SWPPP.

- Training should address topics such as spill and leak response and internal reporting, good housekeeping, and routine inspection and maintenance.
- Training shall be on a quarterly basis while construction activities are occurring.
- A list of attendees and topics covered at each training session shall be documented and maintained in the SWPPP.

APPENDIX A

General Location Map

and

Site Map



United States Department of the Interior



FISH AND WILDLIFE SERVICE

West Virginia Ecological Services Field Office 6263 Appalachian Highway Davis, WV 26260-8061 Phone: (304) 866-3858 Fax: (304) 866-3852

In Reply Refer To: June 22, 2023

Project code: 2023-0096273

Project Name: Claywood Park PSD CL20-41W

Federal Nexus: yes

Federal Action Agency (if applicable): Natural Resources Conservation Service

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for

'Claywood Park PSD CL20-41W'

Dear William Wallace:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on June 22, 2023, for "Claywood Park PSD CL20-41W" (here forward, Project). This project has been assigned Project Code 2023-0096273 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. *Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.*

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical

habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Clubshell (<i>Pleurobema clava</i>)	Endangered	No effect
Fanshell (Cyprogenia stegaria)	Endangered	No effect
Indiana Bat (<i>Myotis sodalis</i>)	Endangered	No effect
Longsolid (Fusconaia subrotunda)	Threatened	No effect
Pink Mucket (pearlymussel) (<i>Lampsilis abrupta</i>)	Endangered	No effect
Round Hickorynut (Obovaria subrotunda)	Threatened	No effect
Sheepnose Mussel (<i>Plethobasus cyphyus</i>)	Endangered	No effect
Snuffbox Mussel (<i>Epioblasma triquetra</i>)	Endangered	No effect

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly Danaus plexippus Candidate
- Northern Long-eared Bat Myotis septentrionalis Endangered
- Tricolored Bat Perimyotis subflavus Proposed Endangered

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the West Virginia Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Claywood Park PSD CL20-41W

2. Description

The following description was provided for the project 'Claywood Park PSD CL20-41W':

Water Line Rehabilitation Project

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@39.230206499999994,-81.48418427049825,14z



QUALIFICATION INTERVIEW

- As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?
 Yes
- 2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

- 4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

 No
- 5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

No

- 8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)? *No*
- 9. Will the proposed project involve the use of herbicide where listed species are present? *No*
- 10. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

11. Does any component of the project associated with this action include structures that may pose a collision risk to **birds** (e.g., land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.). *No*

12. Does any component of the project associated with this action include structures that may pose a collision risk to **bats** (e.g., land-based wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.). *No*

13. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

14. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

- 15. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present?

 No
- 16. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

No

17. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

18. Will the proposed project involve the removal of excess sediment or debris, dredging or instream gravel mining where listed species may be present?

No

19. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

20. Will the proposed project involve perennial stream loss, in a stream of tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

- 21. Will the proposed project involve blasting where listed species may be present? *No*
- 22. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

No

23. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream. *No*

24. Will earth moving activities result in sediment being introduced to streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

25. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

No

No

26. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

27. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

28. [Semantic] Is the project located on a Group 4 stream: the Ohio River downstream of Hannibal Locks and Dam, Little Kanawha River (slack-water section adjoining the Ohio River), and/or the Kanawha River downstream of Kanawha Falls?

Automatically answered

No

29. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

30. [Semantic] Does the project intersect the Indiana bat AOI?

Automatically answered

Yes

31. Have you determined that your proposed action will have no effect on the Indiana bat? Remember to consider the effects of any activities that would not occur but for the proposed action.

If you think that the Indiana bat may be affected by your project or if you would like assistance in deciding, answer "No" below and continue through the key. If you have determined that the Indiana bat does not occur in your project's action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a "no effect" determination for the Indiana bat *Yes*

32. [Semantic] Does the project intersect the Indiana bat critical habitat?

Automatically answered

No

33. Are federally listed freshwater mussels known or assumed to be present in the action area? If unsure, contact the appropriate Ecological Services Field Office for additional information or answer "NO" and continue through the key.

No

34. Did a qualified surveyor conduct a survey within the action area with the appropriate level of search effort according to local survey guidance?

No

35. [Hidden Semantic] Does the project area intersect the AOI of Sheepnose?

Automatically answered

Yes

36. [Hidden Semantic] Does the project area intersect the AOI of Clubshell?

Automatically answered

Yes

37. [Hidden Semantic] Does the project area intersect the AOI of Fanshell?

Automatically answered

Yes

38. [Hidden Semantic] Does the project area intersect the AOI of Snuffbox?

Automatically answered

Yes

39. [Hidden Semantic] Does the project area intersect the AOI of the Pink Mucket?

Automatically answered

Yes

40. [Hidden Semantic] Does the project area intersect the AOI of Round Hickorynut?

Automatically answered

Yes

41. [Hidden Semantic] Does the project area intersect the AOI of Longsolid?

Automatically answered

Yes

42. [Semantic] Does the project intersect the candy darter critical habitat?

Automatically answered

No

43. [Semantic] Does the project intersect the diamond darter critical habitat?

Automatically answered

No

44. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

Automatically answered

No

45. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered

No

46. Do you have any other documents that you want to include with this submission? *No*

1

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove? *0*

IPaC Record Locator: 174-128064639

2. Approximately how many total acres of disturbance are within the disturbance/construction limits of the proposed project?

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

This project replaces existing water line following Dutch Ridge Road. It also includes
Directional Drills underneath US route 50 in two locations and one along Meadville Road.
The replacement line will be installed within current DOH ROW

IPAC USER CONTACT INFORMATION

Agency: Cerrone Associates, Inc.

Name: William Wallace Address: 97 14th Street City: Wheeling

State: WV Zip: 26003

Email wwallace@cerrone1.com

Phone: 7402137815

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Natural Resources Conservation Service





Randall Reid-Smith, Curator

Phone 304.558.0220 • www.wvculture.org Fax 304.558.2779 • TDD 304.558.3562

EEO/AA Employer

July 18, 2023

William Wallace
Project Manager
Cerrone Associates
97 14th St.
Wheeling, WV 26003
Via email: wwallace@cerrone1.com

Claywood Park PSD - Water System Improvement and Extensions (Phase II)

Cerrone Project # CL20-41W

FR#: 23-0755-WD

Dear Mr. Wallace:

RE:

We have reviewed the information that was submitted in support of the above-referenced project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the submitted information, the Claywood Park Public Service District proposes to undertake a water system improvements project near Red Hill, Wood County, West Virginia. Work for the project includes the installation of approximately 1,500 linear feet of 6-inch waterline and 3 directional drills. The replacement line will run from Dutch Ridge Road (County Route 47/4) to Loomis Ridge Road (CR 20).

Archaeological Resources:

A search of our records indicates that no previously recorded archaeological resources are located within the proposed project area. Available information suggests that a vast majority of the proposed ground disturbing activities will be confined to previously disturbed areas and/or existing rights-of-way. Therefore, it is unlikely that significant archaeological resources will be encountered during the proposed project activities. In our opinion, no archaeological historic properties will be affected by the proposed water system improvements and extensions project. No further consultation is necessary regarding archaeological resources. However, if cultural materials are encountered during construction, cease all work within the area of discovery and contact this office immediately.

Architectural Resources:

We have reviewed the submitted information and determined that the proposed project will affect no architectural properties eligible for or included in the National Register of Historic Places. The building in the area of potential effects for this project does not show features that indicate eligibility for inclusion in the National Register of Historic Places. No further consultation is necessary regarding architectural resources; however, we ask that you contact our office if your project should change.

July 18, 2023 Mr. Wallace FR 23-0755-WD Page 2

We appreciate the opportunity to be of service. If you have questions regarding our comments or the Section 106 process, please contact Carolyn M. Kender, Archaeologist, or Stephen L. Gifford, Structural Historian, at (304) 558-0240.

Sincerely,

Susan M. Pierce

Deputy State Historic Preservation Officer

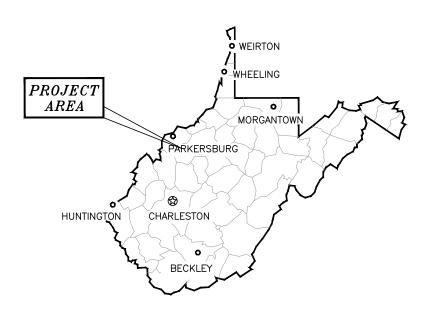
SMP/SLG/CMK

CLAYWOOD PARK PSD

WOOD COUNTY, WEST VIRGINIA

MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

CONTRACT #1: DUTCH RIDGE WATER LINE REPLACEMENT



CONSTRUCTION DRAWINGS

UPDATED 3-01-2023



APPROVED OCC

DATE 08/01/23

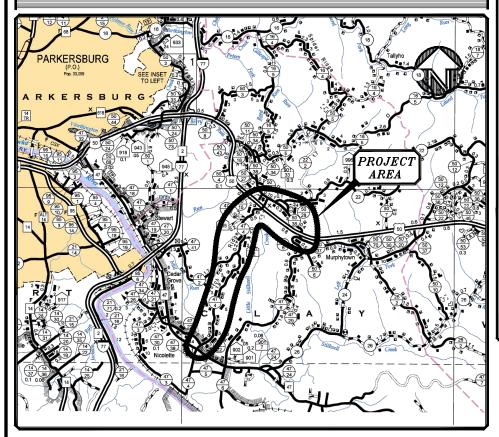
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CLAYWOOD PARK PSD

MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

PROJECT AREA MAP



DRAWING LEGEND

EXISTING LEGEND		NEW LEGEND	
— OE — UE — OT — UT — OC — UC — STEAM —	HIGH PRESSURE GAS OVERHEAD ELECTRIC UNDERGROUND ELECTRIC OVERHEAD TELEPHONE UNDERGROUND TELEPHONE OVERHEAD CABLE UNDERGROUND CABLE	—————————————————————————————————————	WATER SEWER STORM DRAIN GATE VALVE PRESSURE REDUCING VALVE (PRV) FLUSH OUT AIR RELEASE (LOCATE AT HIGH POINT) FIRE HYDRANT W/WATCH VALVE OPEN CUT W/CASING ROAD BORING W/CASING LIMIT OF DISTURBANCE SERVED CUSTOMER EXISTING CUSTOMER TO BE RECONNECTED
•	BURIED CABLE MARKER SEPTIC TANK UTILITY POLE UTILITY POLE W/LIGHT UTILITY POLE W/ANCHOR WIRE MAIL BOX GAS MARKER / GAS METER WATER MARKER / WATER METER GAS VENT PIPE TELEPHONE PEDESTAL PROPERTY PIN GAS VALVE GATE POST ELECTRIC POST OFFSETS TAKEN FROM CENTER LINE INTS ORIGINATE AT END OF LEADER	H T B S BUS #-##-## FGL CMP RCP CPP PVC DIP CIP	HOUSE TRAILER BARN SHED BUSINESS CUSTOMER NUMBER EASEMENT DESIGNATION FIBERGLASS CORRUGATED METAL PIPE REINFORCED CONCRETE PIPE CORRUGATED PLASTIC PIPE POLYVINYL CHLORIDE PIPE DUCTILE IRON PIPE CAST IRON PIPE

LIST OF DRAWINGS

DWG. NO.	TITLE
_	COVER SHEET
1-A	TITLE SHEET
1-B	GENERAL NOTES & PRESSURE TESTING
1-C	INDEX MAP
1-EBM	ESTIMATED BILL OF MATERIALS
1-CS	CONSTRUCTION SEQUENCE
1-01	LINES 1 & 2 ~ CR 47/4 (DUTCH RIDGE RD.)
1-01ESMT	LINES 1 & 2 ~ CR 47/4 (DUTCH RIDGE RD.)(EASEMENT DESIGNATION)
1-02	LINES 2 & 3 ~ CR 47/4 (DUTCH RIDGE RD.)
1-03	LINES 3 & 4 ~ CR 47/4 (DUTCH RIDGE RD.)
1-04	LINES 4 & 5 ~ CR 47/4 (DUTCH RIDGE RD.)
1-05	LINES 5 & 6 ~ CR 47/4 (DUTCH RIDGE RD.)
1-05ESMT	LINES 5 & 6 ~ CR 47/4 (DUTCH RIDGE RD.)(EASEMENT DESIGNATION)
1-06	LINES 6 & 7 ~ CR 47/4 (DUTCH RIDGE RD.) CR 50/38 (RED HILL RD.) LINES 6 & 7 ~ CR 47/4 (DUTCH RIDGE RD.) CR 50/38 (RED HILL RD.)(EASEMENT DESIGNATION)
1-06ESMT 1-07	LINE 8 ~ US 50
PRV1-01	PRESSURE REDUCING VALVE PIT
DD4 04	PAUTE EA GROCCINA AT RUTOU RIPOE PR
PD1-01 PD1-02	ROUTE 50 CROSSING AT DUTCH RIDGE RD. ~ PLAN & PROFILE ROUTE 50 CROSSING NEAR MEADVILLE RD. ~ PLAN & PROFILE
PD1-02	PROJECT DETAILS
PD1-04	PROJECT DETAILS
PD1-05	PROJECT DETAILS
PD1-06	PROJECT DETAILS
PD1-07	- REMOVED FROM SET -
on	CTANDADD DETAILS
SD1-01	STANDARD DETAILS
SD1-02	STANDARD DETAILS
SD1-03 SD1-04	STANDARD DETAILS STANDARD DETAILS
301-04	STANDARD DETAILS

No.	DATE	DESCRIPTION	BY
	04-2023	DRAWING CREATED	RRB
2	12-2023	LPD ATED DRAWING LIST AFTER REMOVING MEADVILLE AREA LINE REPLACEMENT	RLR
3	2-2024	UPDATED DRAWING LIST AFTER REINSTATING MEADVILLE AREA RT. 50 CROSSING	WJW
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CONSULTING ENGINEERS ● WATER & WASTEWATER SYSTEMS 97-14TH STREET, WHEELING, WV 26003-2497	RECORD
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DJECT TITLE	CLAYWOOD PARK PSD		
	WOOD COUNTY, WEST VIRGINIA		
MISCELLANEOUS	WATER SYSTEM IMPROVEMENTS	_	Р
AWING TITLE			

NONE PHASE II CL20-41W

TITLE SHEET

1-A

G

SITE RESTORATION

- CUT OR SCORE CONTINUALLY ALONG A STRAIGHT LINE ALL PAVED AREAS OVER THE LINE OF THE TRENCH WHICH ARE TO BE
- MAINTAIN ALL TEMPORARY SURFACE REPAIRS UNTIL PERMANENT SURFACE RESTORATION IS COMPLETED.
- RESTORE CONTOURS OF DISTURBED AREAS WITH STEEP SLOPES THAT ARE SUBJECT TO EROSION. STABILIZE, RESEED, AND COVER WITH SPECIFIED MATERIAL.
- PROMPTLY RESTORE ALL SURFACES AS SOON AS EXCAVATION AND TESTING WORK IS COMPLETE.

ESTIMATED QUANTITIES

- QUANTITIES INDICATED ON THE BID PROPOSAL ARE ESTIMATES. COMPUTATIONS OF QUANTITIES THAT ARE THE BASIS FOR PAYMENTS WILL BE MADE BY THE ENGINEER BASED ON THE DAILY FIELD RECORDS REPORTING THE ACTUAL UNITS INSTALLED.
- THE ABSENCE FROM THE BID PROPOSAL OF BID ITEMS SPECIFICALLY DESCRIBED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS SHALL BE INTERPRETED AS MEANING THAT THE COST OF SUCH WORK SHALL BE INCLUDED IN THE PRICES BID FOR RELATED ITEMS, PIPE, ETC., FOR WHICH PAY ITEMS AND QUANTITIES HAVE BEEN ESTABLISHED.

TRAFFIC CONTROL

- THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE "WEST VIRGINIA TRAFFIC CONTROL MANUAL" FOR STREET & HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS.
- STATE ROADWAYS SHALL NOT BE CLOSED DURING THIS PROJECT.
- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
- MAINTAIN ACCESS TO PRIVATE PROPERTY WHEN AT ALL POSSIBLE.
- TO ENSURE SAFETY OF TRAVELING PUBLIC KEEP ALL PAVEMENTS FREE OF EXCAVATED MATERIAL AND DITCHES OPEN TO FLOW.

EASEMENTS

- ALL WORK OF THIS PROJECT SHALL BE PERFORMED WITHIN DESIGNATED WORK AREAS.
- CONSTRUCTION AND PERMANENT EASEMENTS HAVE BEEN OBTAINED WHERE WORK OF THE PROJECT IS ON PRIVATE PROPERTY.
- EASEMENT CENTERLINES ARE THE PIPE LOCATIONS AS SHOWN ON THE CONSTRUCTION DRAWINGS, OR REVISED PIPE LOCATIONS AS INDICATED BY ENGINEER'S FIELD STAKEOUT.
- UNLESS NOTED OTHERWISE CONSTRUCTION EASEMENT WIDTH IS GENERALLY 30 FEET (15 FEET EITHER SIDE OF THE PIPE). PERMANENT EASEMENT WIDTH IS 15 FEET (7 1/2 FEET EITHER SIDE
- PROTECT AND PRESERVE IN AN APPROVED MANNER ALL TREES AND SHRUBBERY UNLESS DESIGNATED FOR REMOVAL.
- PROTECT AND PRESERVE ALL MONUMENTS, PROPERTY PINS, STAKES, ETC., OR BEAR THE COST TO RESET LOST OR DESTROYED MARKERS BY A REGISTERED OR LICENSED LAND SURVEYOR.

THIS DRAWING REPRESENTS THE DESIGN AND ENGINEERING EFFORTS

ENVIRONMENTAL CONCERNS

- RESTRICT EXCAVATION AND GRADING WORK TO PERIODS WITH DRY
- LIMIT AREAS OF EXPOSED SOIL TO IMMEDIATE WORK SITES.
- SWEEP ROADWAYS IN CONSTRUCTION AREA ON A DAILY BASIS.
- PROVIDE TEMPORARY EROSION CONTROL MEASURES AS NECESSARY TO PREVENT OR CONTAIN EROSION AND SEDIMENTATION. PROTECT STOCKPILES OR ERODABLE MATERIALS.
- CONTROL FLOWS FROM DEWATERING ACTIVITIES TO REMOVE SILT PRIOR TO RELEASE.
- PROVIDE SILT BARRIERS IN FRONT OF STORM DRAINS AND ALONG PRIVATE PROPERTY TO PREVENT SILT RUNOFF WHEN EXCAVATIONS HAVE COMMENCED

EXISTING UTILITIES

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS THE EXISTENCE OF WHICH WAS NOT KNOWN OR REVEALED TO US WHEN THESE DOCUMENTS WERE PREPARED.
- EXISTING UTILITIES SHALL CONTINUE WITH UNINTERRUPTED SERVICE DURING ENTIRE CONSTRUCTION PERIOD. PROTECT ACTIVE UTILITY SERVICES UNCOVERED BY EXCAVATION.
- UNIDENTIFIED PRIVATE UTILITIES EXIST THROUGHOUT THE PROJECT. CONTACT PROPERTY OWNERS TO LOCATE AND PROVIDE TIME TO MARK
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES DISTURBED BY CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE IN ACCORDANCE WITH UTILITY OWNER'S STANDARDS.
- BEFORE STARTING EXCAVATION, ESTABLISH THE LOCATION AND EXTENT OF UNDERGROUND UTILITIES OCCURRING IN THE WORK AREA. CALL BEFORE YOU DIG UNDERGROUND--MISS UTILITY OF WEST VIRGINIA 811.
- THE RISK OF LOCATING AND PROTECTING ALL UTILITIES RESTS WITH THE CONTRACTOR AND APPROPRIATE ALLOWANCE SHALL BE MADE WHEN BIDDING THE WORK TO REFLECT THIS FACTOR.
- 7. THE FOLLOWING ARE THE UTILITY OWNERS IN THE PROJECT AREA:

WATER/SEWER

CLAYWOOD PARK P.S.D. P.O. BOX 127 PARKERSBURG, WV 26102 (304) 422-6042



MISCELLANEOUS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD. REPORT DISCREPANCIES TO THE ENGINEER FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. DO NOT SCALE DRAWINGS.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE LAW AND THE RULES OF THE WEST VIRGINIA STATE FIRE MARSHAL
- ALL MATERIALS SHALL BE NEW AND CONFORM WITH THE STANDARDS OF THE UNDERWRITER'S LABORATORIES, INC. IN EVERY CASE FOR THE PARTICULAR.
- THE WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BOARD OF FIRE UNDERWRITER'S PUBLIC SERVICE COMPANY.
- PROVIDE SUITABLE BLOCKING IN STUD WALLS FOR ALL WALL MOUNTED OBJECTS.
- 6. WATER LINES GO AROUND CULVERTS UNLESS OTHERWISE STATED.
- THE CONSTRUCTION PLANS AND SPECIFICATIONS DEFINE A MINIMUM QUALITY OF MATERIALS AND EQUIPMENT TO BE INCORPORATED INTO THIS PROJECT. GENERALLY, THIS MEANS THAT ALL BRASS GOODS, DUCTILE IRON FITTINGS AND METAL CASTINGS ARE TO BE FROM REPUTABLE MANUFACTURERS AND MADE IN THE USA. ENGINEER OR OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL MATERIAL AND EQUIPMENT FROM FOREIGN MANUFACTURERS DEEMED TO BE OF INFERIOR QUALITY.

W V D O H ROW WORK

- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE WYDOH UTILITY ACCOMMODATION MANUEL.
- ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES WILL BE INSTALLED. SEEDING AND MULCHING OF ALL DISTURBED AREAS WILL BE DONE AT THE END OF EACH WEEK.
- CONTRACTOR TO COORDINATE PLACEMENT LOCATION OF ALL VALVES, FIRE HYDRANTS, MANHOLES, FACILITY APPURTENANCES, ETC., WITH ON SITE ENGINEER / OWNER AND WVDOH REPRESENTATIVES.

PIPE PRESSURE TESTING

PIPE CLASS_	TEST_PRESSURE_
DUCTILE IRON	1.5 TIMES THE WORKING PRESSURE (150psi)
CLASS 200 (DR 14) CLASS 150 (DR 18) CLASS 315 (SDR13.5) CLASS 250 (SDR 17) CLASS 200 (SDR 21)	325PSI 250PSI 315PSI 250PSI 200PSI

	MAXIMUM	MAXIMUM
SIZE	TESTING LENGTH	ALLOWABLE LEAKAGE
12"	3,000ft	0.95gph/1000ft
10"	4.000ft	0.79gph/1000ft
8"	6,000ft	0.63gph/1000ft
6"	10,000ft	0.47gph/1000ft
4"	10,000ft	0.32gph/1000ft
3 "	10,000ft	0.24gph/1000ft
2"	10,000ft	0.16gph/1000ft

- MAXIMUM LENGTH OF TEST SHALL BE AS LISTED ABOVE
- ALL BRANCH LINES TO BE TESTED SEPARATELY FROM MAIN LINE
- PIPES OF DIFFERENT SIZES TO BE TESTED SEPARATELY - PIPES OF DIFFERENT CLASSES TO BE TESTED SEPARATELY
- MINIMUM LENGTH OF TEST SHALL BE BETWEEN VALVES

CLAYWOOD PARK PSD WOOD COUNTY, WEST VIRGINIA MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

ROJECT NO CL20-41W RAWING NO.

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CERRONE ASSOCIATES, INC. CONSULTING ENGINEERS • WATER & WASTEWATER SYSTEMS
97-14TH STREET, WHEELING, WV 26003-2497

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ROJECT TITLE

GENERAL NOTES

1-B

NONE

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DESCRIPTION

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INDEX MAP

1-C

ESTIMAT	ED BILL OF MATERIALS	OWN	NER:	CLAYWO	OOD P/	ARK PUE	3LIC SE	RVICE D	ISTRIC	Γ	CONTRACT#: 1	1	_					
DATE:	29-Sep-23	PROJ		CL20-41W					Miscellaneous Water System Improvements - Phase II									
Item	LINE#		1	2	3	4	5	6	7	8	9							
#	DRAWING#	Units	01	01, 02	02, 03	03, 04	04, 05	05, 06	06	07	07						TOTAL	
420	Tall DVG CL 200 (CDD24/DVGC)									F00							500	I I E
	8" PVC CL200 (SRD21/PVCO) 8" Yelomine CL200 (SDR21)	LF LF		+		 		$\overline{}$	320	500 160							500 480	
	6" PVC CL200 (SRD21/PVCO)	LF	1500	3080	2580	2240	2980	1500	3000	40	700						17,620	
	6" Yelomine CL200 (SDR21)	LF	1500	3000	2360	100	2960	170	200		700				-		470	
	4" PVC CL200 (SRD21)	LF	10	+		100	10		30						-		60	
A54	2" PVC CL200 (SRD21)	LF	10	++	10	30	40		10		. + + +				+		150	
A34	2 FVC CL200 (SRD21)	LF		+	10	30	40	00	10								150	
B06	6" Gate Valve & Box	EA	1	1	1	2	3	2	8	3	5						26	EA
	4" Gate Valve & Box	EA		1			1	1		·	,						3	
	2" Gate Valve & Box	EA		 	1	1	1	1			,						5	
	Valve Markers	EA	2	1	2	2	4	2		3	2						23	
				 														H
101	Ductile Iron Fittings	LB															2,750	LB
need 190	, and the second																	
J01	Fire Hydrant Assembly	EA	1	1	1	1	1		1				1				6	EA
J04	2" Flushout Assembly	EA							1	1	1						3	_
	Air Release Assembly	EA	1		1		1			1							4	
	Pressure Reducing Valve (Pit)	EA				1											1	
K01	Horizontal Directional Drill Casing for 6" pipe	LF				80	,	150	180								410	LF
K02	Horizontal Directional Drill Casing for 8" pipe	LF							300								300	LF
K03	6" Horizontal Directional Drilling	LF	75)	250	300		100	300		400						1,425	
		LF					,										0	LF
L06	8" Highway Boring	LF					<u> </u>			140	,						140	
	6" Highway Boring	LF		30					50								80	
L11	2" Highway Boring	LF					27	30									57	LF
N04	10" PVC Casing	LF	190	40	100	40	80	120	20								590	LF
				\perp														
	Type I Asphalt (Wearing Course)	SY						\longrightarrow	21								21	
	Asphalt Replacement (non DOH)	LF		29	41												140	
	Aggregate Replacement	LF	32		30												459	
	Berm Replacement	LF	1277		1726	1560			1877								11,449	
006	Miscellaneous Concrete	CY	6	5 2		0.7	2.5		1								27	
	Riprap Restoration	TN		++	5	27	42	2									76	TN
	Anchor Walls	EA LF		++				\longrightarrow		6	150						450	EA LF
	Aggregate Overlay	LF	100	1050	750	1000	700	\vdash	000	460	550						5,410	LF
	Seeding Water main Testing & Disinfection	LF	100 1585		750 2840				800 3560		1100				-		20,405	
Olu	Water main resulty & Distribution	LF	1000	3000	2040	2070	3030	1040	3360	700	1100		+ +			+ +	20,405	LF
P02	1" Service Tap & Corp Stop	EA		+				\vdash	1		1		+ + -				2	EA
P03	3/4" Service Tap & Corp Stop	EA	11	19	14	16	16	13	4		2				+	+ +		EA
	1" PE Service Pipe (Boring)	LF	11	13	14	10	10	13	50		30		+ + -		+		80	LF
P06	3/4" PE Service Pipe (Boring)	LF	100	390	180	330	270	30							+		1 400	LF
	1" PE Service Pipe (Trench)	LF	100	330	, 50	000	210	30	50		130				+			LF
	3/4" PE Service Pipe (Trench)	LF	110	190	140	310	160	130	50		20		1		+		1,110	
	= 5551		1,10			3.3		100					1				1,110	H
S01	Test Pit Excavation	EA		+													100	EA
	Service Reconnects	EA	11	19	14	16	16	13	4		3							EA
	Audio-Video Color Taping	LS																LS
				1									1					
S07	Cut & Cap Existing Main	EA	1	1	1	1	2	2	7	5	1						21	EA
	Tie in to Existing Main	EA	1	1	1	1	2				2						17	EA
				+ +		$\overline{}$	$\overline{}$	$\overline{}$	101							 		-
	Mobilization	LS			ì		' i								ļ		1	LS

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NO.	DATE	REVISION	BY	l

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CLAYWOOD PARK PSD WOOD COUNTY, WEST VIRGINIA MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

NONE PROJECT NO. CL20-41W

RAWING NO.

1-EBM

ESTIMATED BILL OF MATERIALS

CONSTRUCTION SEQUENCE DUTCH RIDGE LINES

- 1. COMPLETE INSTALLATION OF ALL MAIN LINE ALONG DUTCH RIDGE ROAD (CR 47/4) & RED HILL ROAD (CR 50/38), LINES 1 THROUGH 7. COMPLETE TIE-IN TO EXISTING 6" WATER LINE ON DRAWING 1-06, SHOWN ON DETAIL 6-4 ON DRAWING PD1-05.
- 2. ONCE MAIN LINE IS INSTALLED AND TIE-IN 6-6 IS COMPLETED. PRESSURE TEST AND DISINFECT ALL MAIN LINE.
- 3. ONCE PRESSURE TESTING AND DISINFECTION IS COMPLETED CUSTOMER RECONNECTS CAN BEGIN. EXISTING CUSTOMER LINES TO BE ABANDONED ARE TO BE CAPPED BY METHODS APPROVED BY THE ENGINEER AND OWNER.
- 4. MAIN LINE TIE-INS CAN ALSO BEGIN. STARTING ON THE ROUTE 47 END OF THE MAIN LINE. STARTING WITH THE TIE-IN/CUT & CAP ON DRAWING 1-01, SHOWN ON DETAIL 1-1 ON DRAWING
- 5. MAIN LINE TIE-INS CAN NOW CONTINUE IN THE ORDER AS SHOWN ON THE DRAWINGS. (FOR EXAMPLE DETAIL 1-2, DETAIL 2-1, ETC.) BEFORE A TIE-IN CAN BE DONE CONTRACTOR IS TO ASSURE ALL CUSTOMER RECONNECT BETWEEN THE PLANNED TIE-IN AND THE PREVIOUS TIE-IN HAVE BEEN COMPLETED.
- 6. ONCE ALL MAIN LINE TIE-INS HAVE BEEN COMPLETED, AND ALL CUSTOMER RECONNECTS HAVE BEEN COMPLETED THE CUT & CAP OF THE EXISTING 4" WATER LINE ON DRAWING 1-06, SHOWN ON DETAIL 6-6 ON DRAWING PD1-06 CAN BE COMPLETED.
- 7. FINALLY THE CUT & CAP. CARRIER PIPE REMOVAL. AND GROUT FILL OF THE CASING FOR THE ABANDONED ROUTE 50 CROSSING CAN TAKE PLACE.

CONSTRUCTION SEQUENCE MEADVILLE AREA DRAWING 1-07

- 1. COMPLETE INSTALLATION OF ALL OF LINE 8. COMPLETE TIE-IN TO EXISTING 6" PVC WATER LINE SHOWN ON DETAIL 7-1, ON DRAWING PD1-06.
- 2. PRESSURE TEST & DISINFECT ALL OF LINE 8.
- 3. ONCE PRESSURE TESTING AND DISINFECTION IS COMPLETED, COMPLETE TIE-IN TO EXISTING 6" WATER LINE SHOWN ON DETAIL 7-2, ON DRAWING PD1-06. COMPLETE TIE-IN TO THE EXISTING 4" OR 6" AC WATER LINE SHOWN ON DETAIL 7-1, ON DRAWING PD1-06.
- 4. INSTALL ALL OF LINE 9. COMPLETE TIE-IN TO EXISTING 6" WATER LINE SHOWN ON DETAIL 7-3, ON DRAWING PD1-07.
- 5. PRESSURE TEST & DISINFECT ALL OF LINE 9.
- 6. ONCE PRESSURE TESTING AND DISINFECTION IS COMPLETED CUSTOMER RECONNECTS CAN BEGIN. EXISTING CUSTOMER LINES TO BE ABANDONED ARE TO BE CAPPED BY METHODS APPROVED BY THE ENGINEER AND OWNER.
- 7. COMPLETE TIE-IN TO EXISTING 6" WATER LINE SHOWN ON DETAIL 7-4, ON DRAWING PD1-07. ALONG WITH THE CUT & CAP OF THE EXISTING LINE SHOWN ON DETAIL 7-4.
- 8. ONCE ALL CUSTOMER RECONNECTS ARE COMPLETED. COMPLETE THE CUT & CAP SHOWN ON DETAIL 7-2, ON DRAWING PD1-06.
- 9. COMPLETE THE CUT & CAP SHOWN ON DETAIL 7-1, ON DRAWING PD1-06.
- 10. FINALLY THE CUT & CAP, CARRIER PIPE REMOVAL, AND GROUT FILL OF THE CASING FOR THE ABANDONED ROUTE 50 CROSSING CAN TAKE PLACE.

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CLAYWOOD PARK PSD WOOD COUNTY, WEST VIRGINIA MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

CONSTRUCTION SEQUENCE

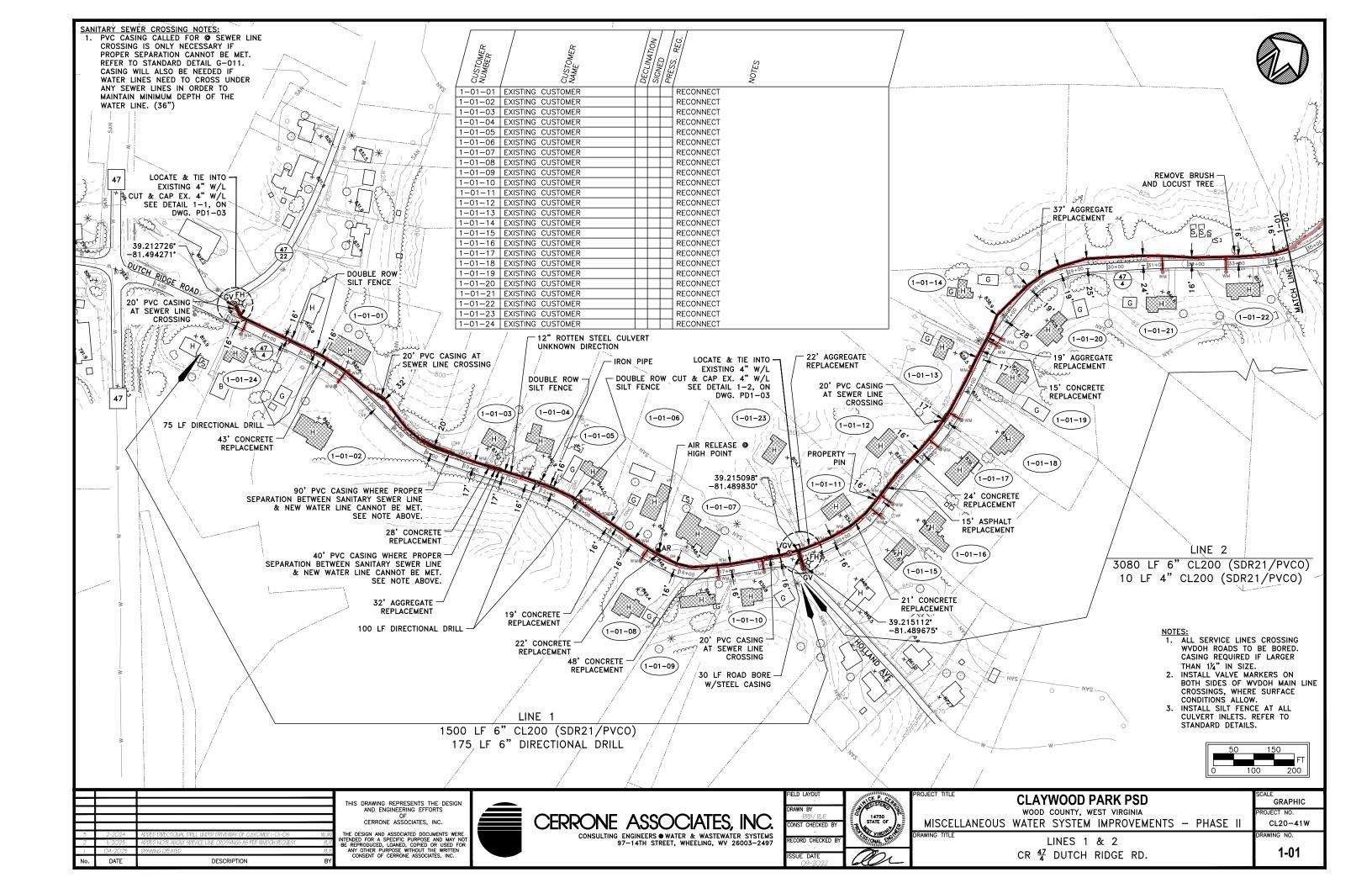
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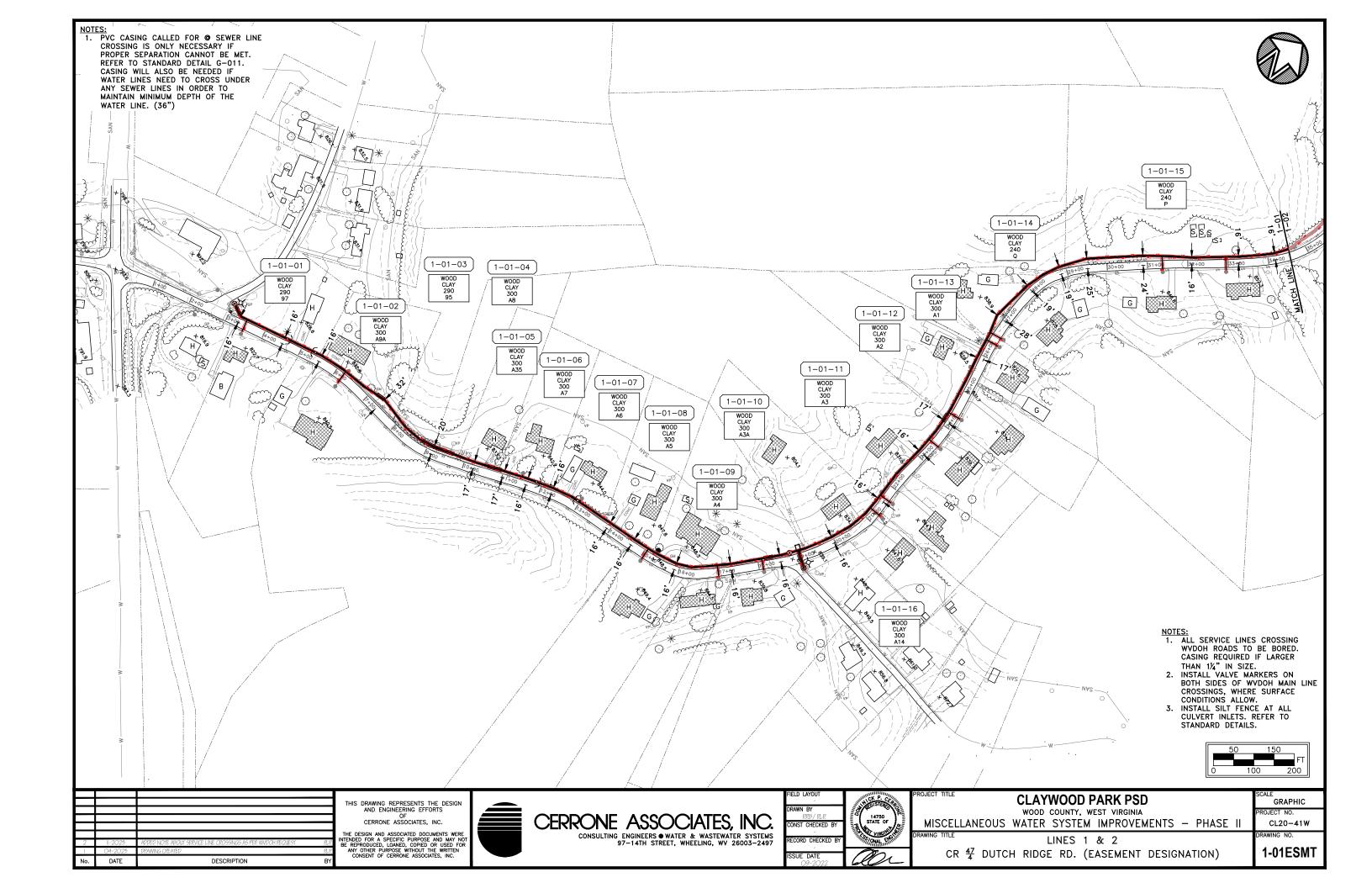
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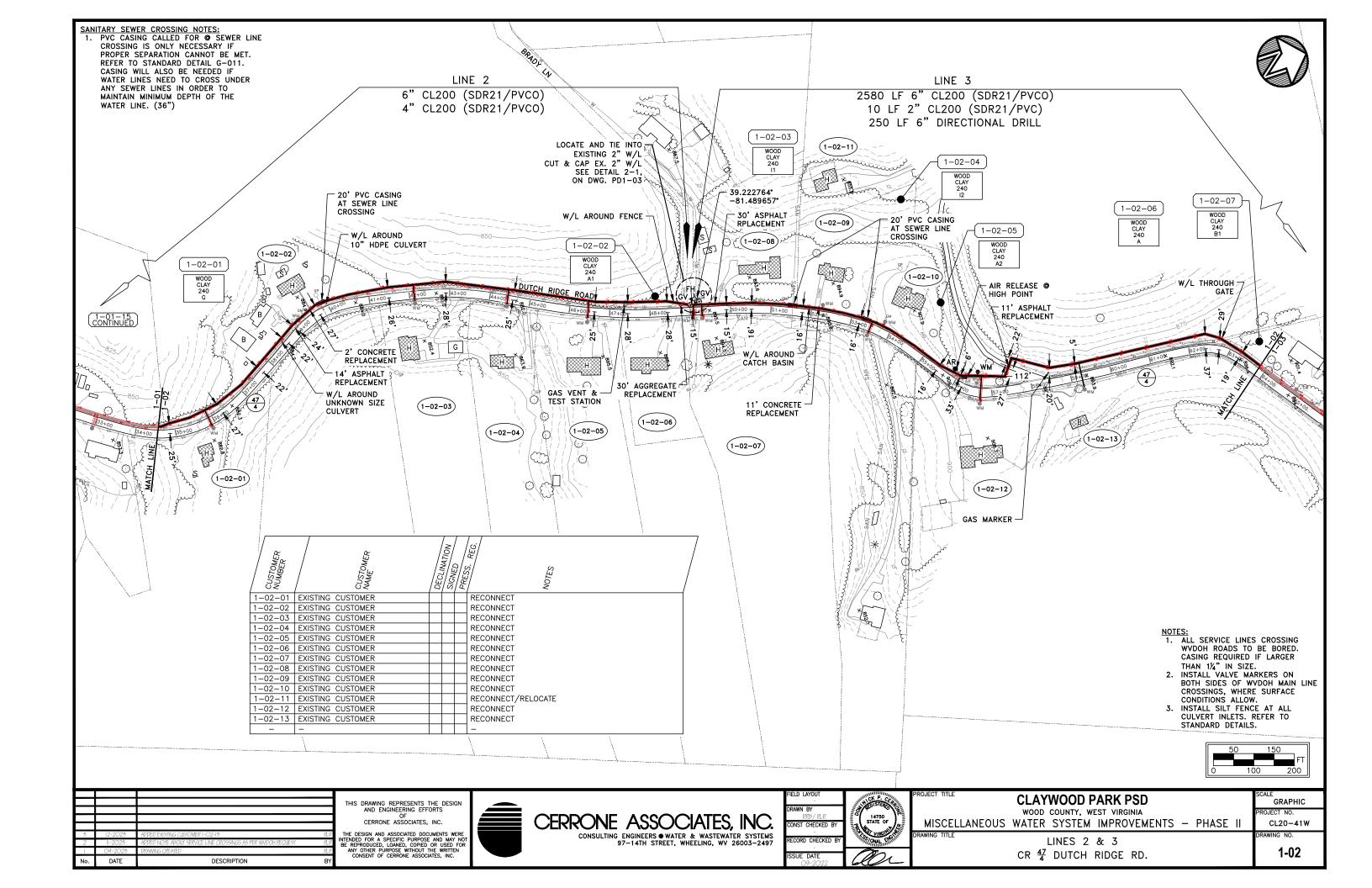
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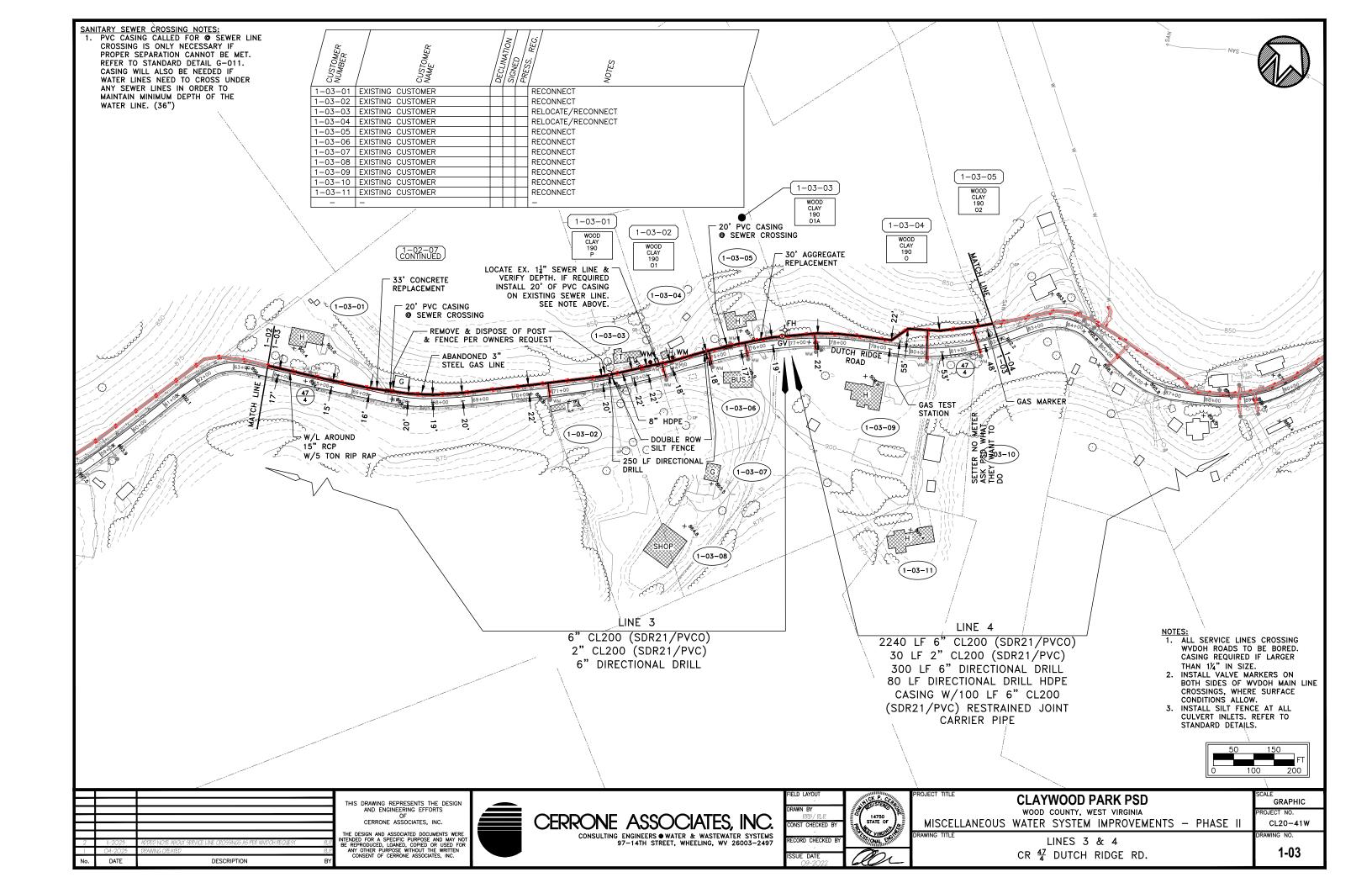
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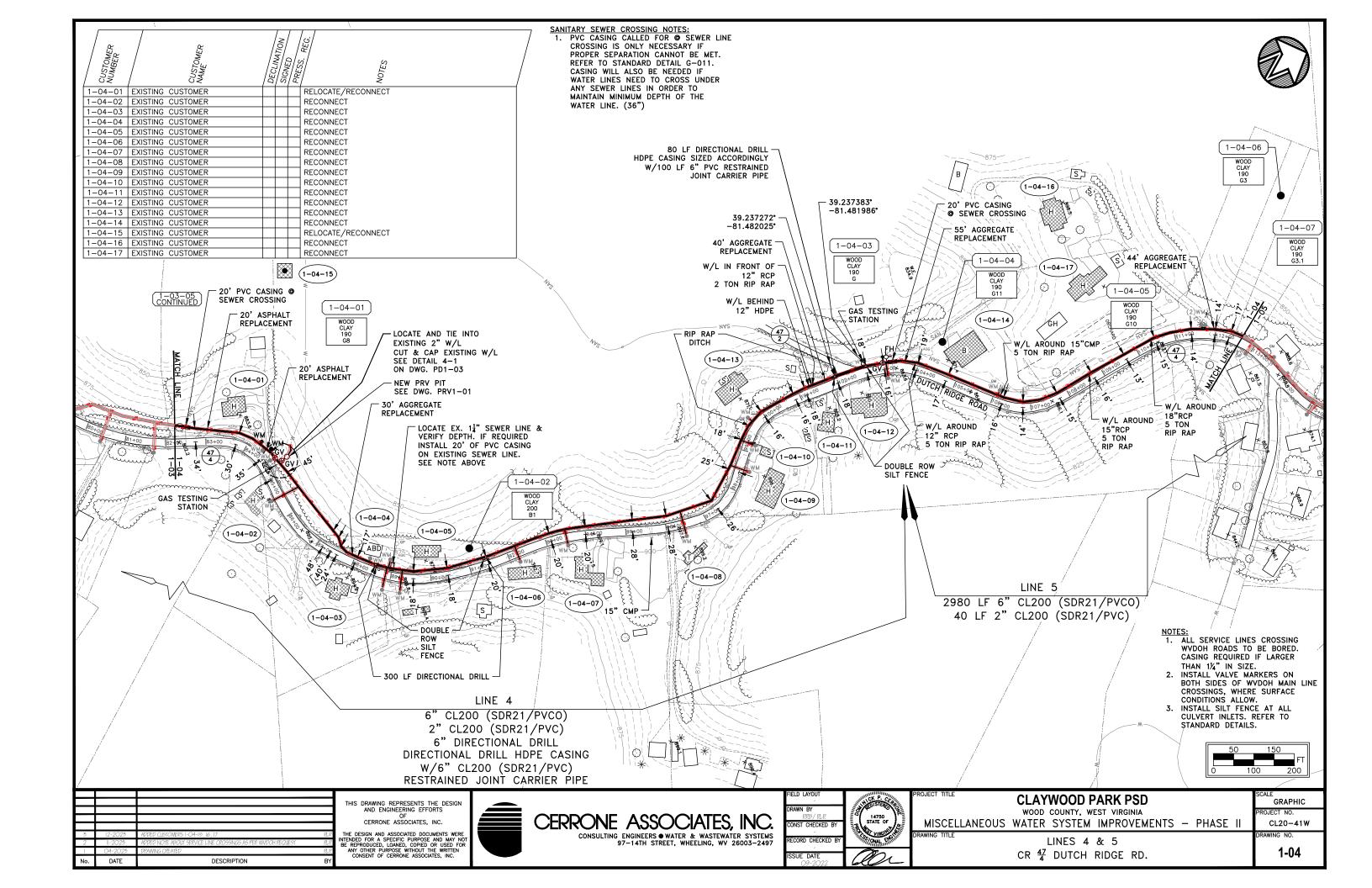
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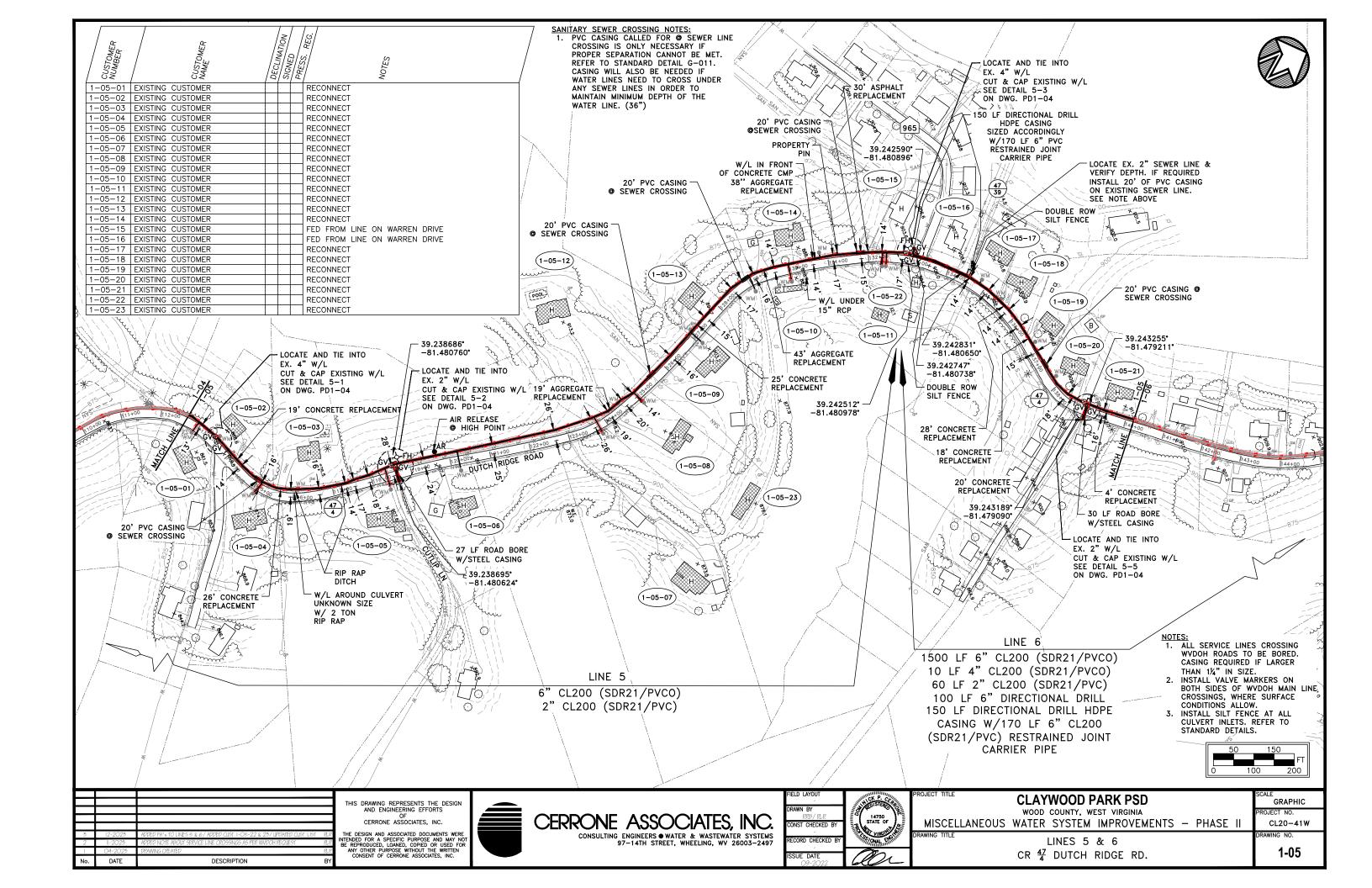


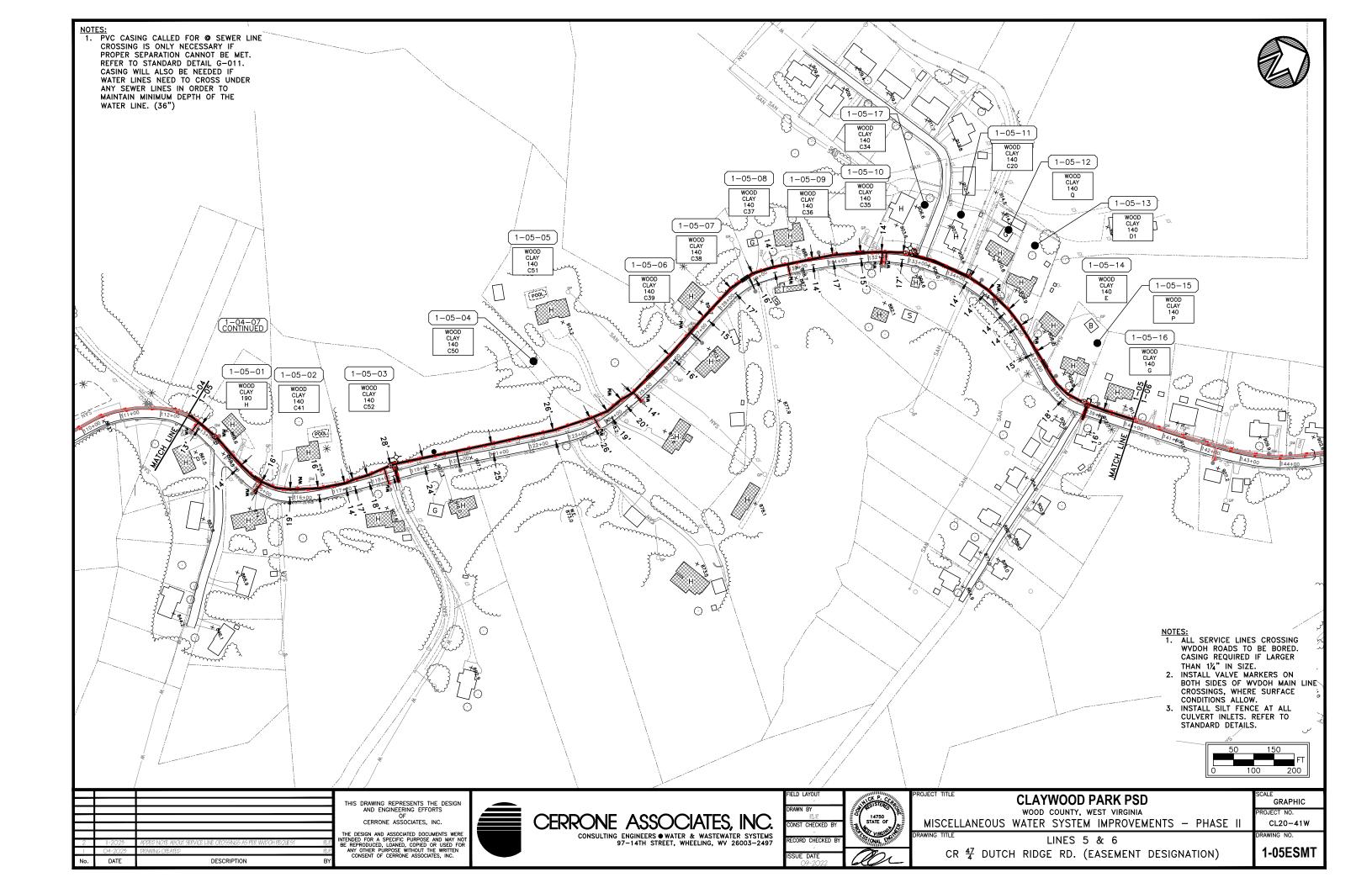


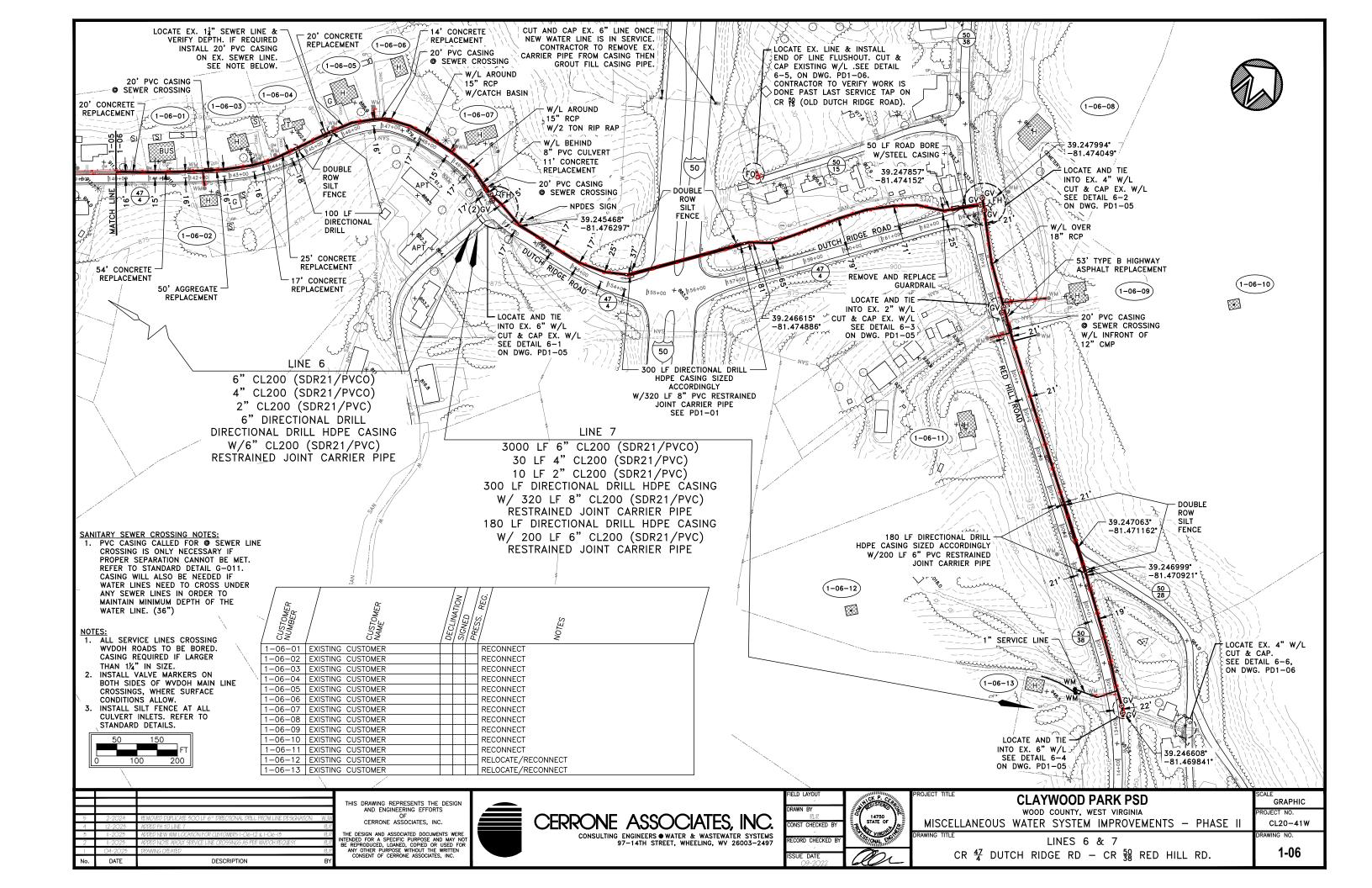


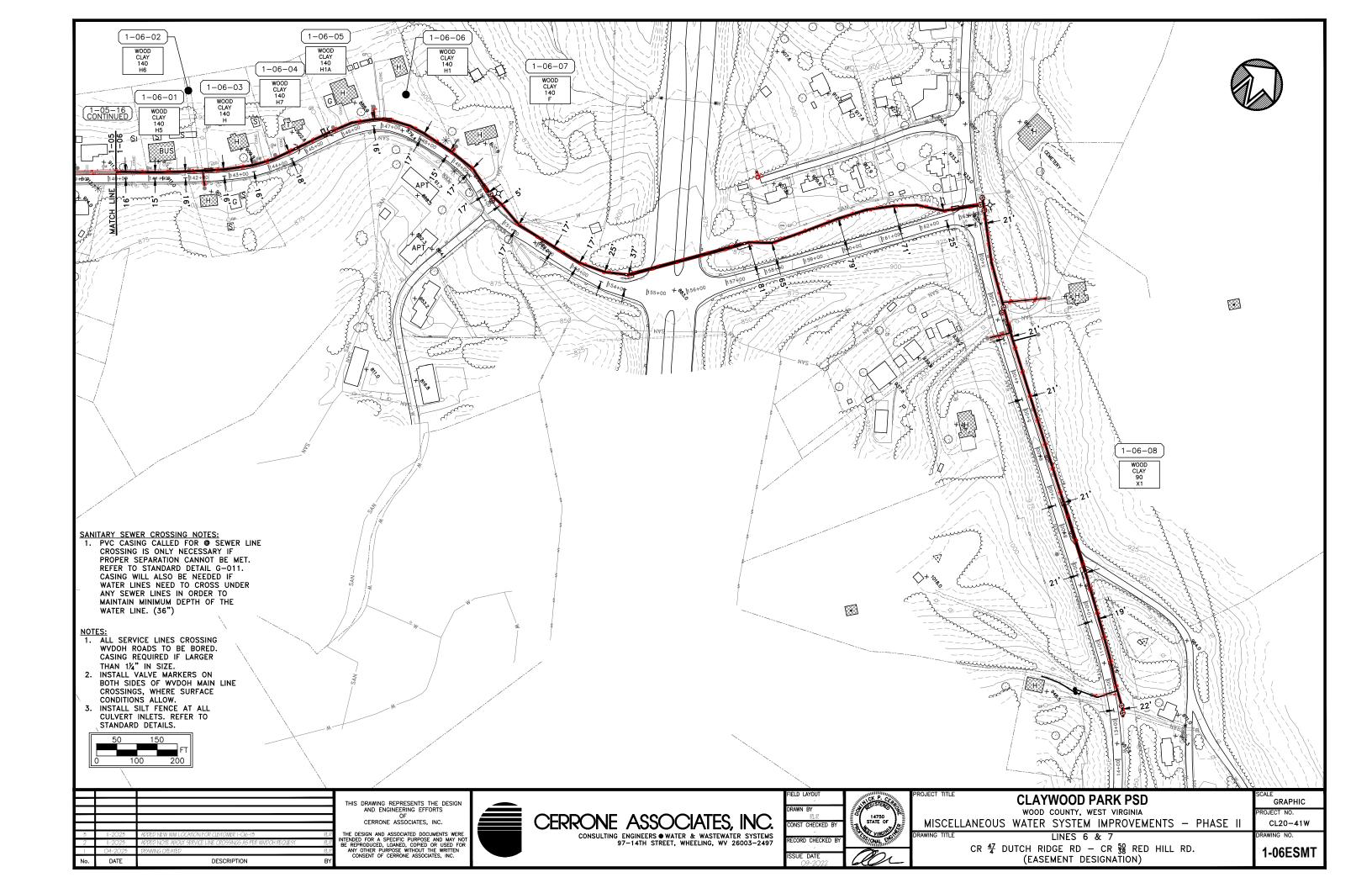


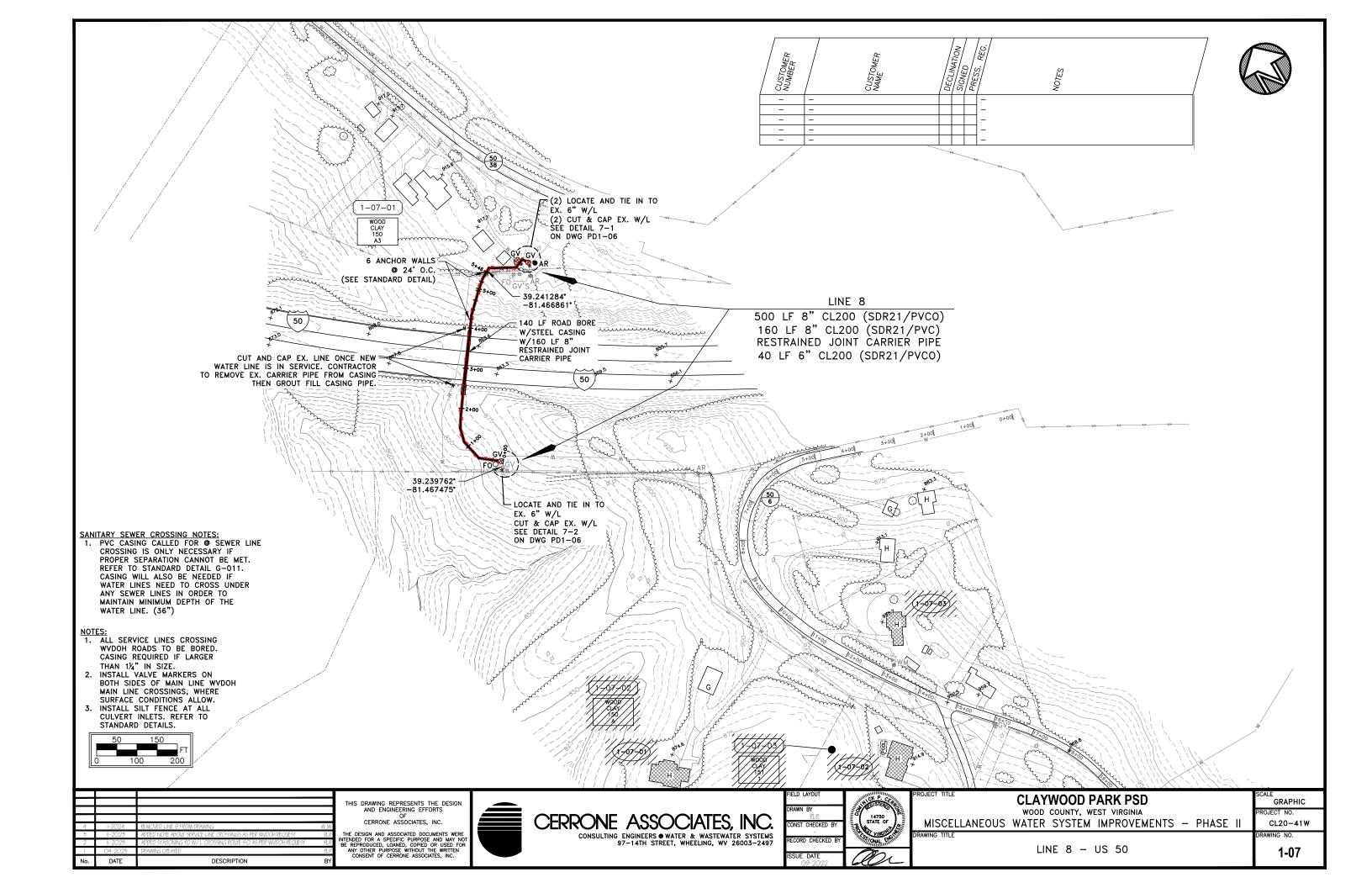


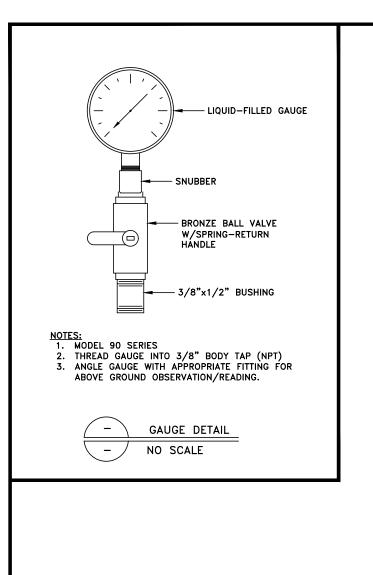


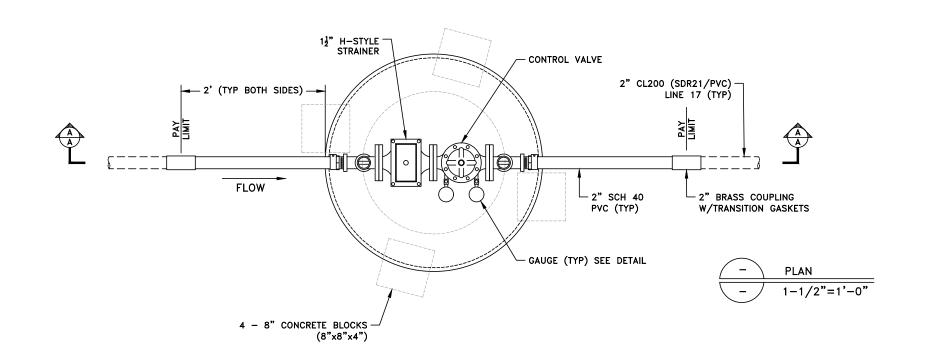


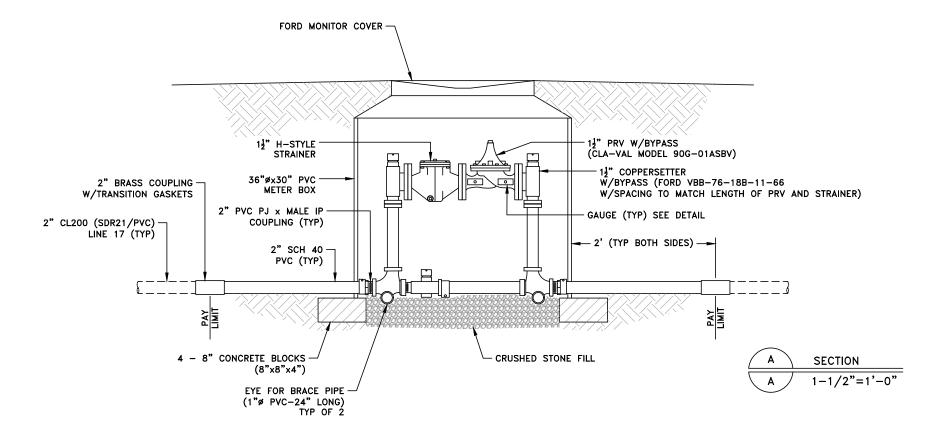






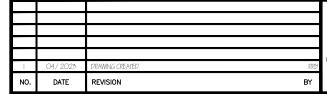






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LOCATION TYPE MODEL SIZE INLET PRESSURE INLET GAUGE (PSI) RANGE (PSI)		HGL	-	
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DRAWING



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CONSULTING ENGINEERS • WATER & WASTEWATER SYSTEMS 97-14TH STREET, WHEELING, WV 26003-2497

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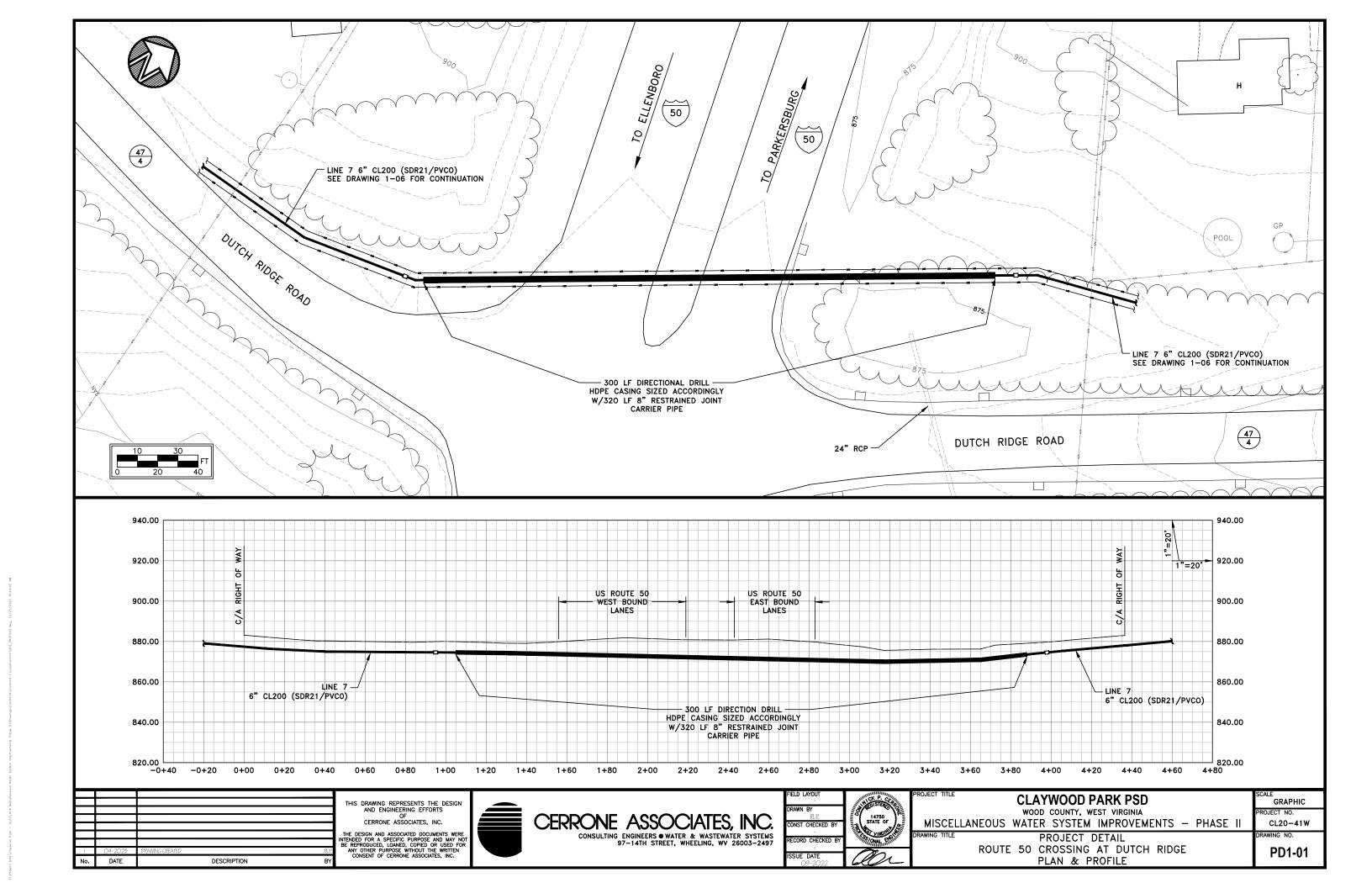
CLAYWOOD PARK PSD WOOD COUNTY, WEST VIRGINIA MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

PRESSURE REDUCING VALVE PIT

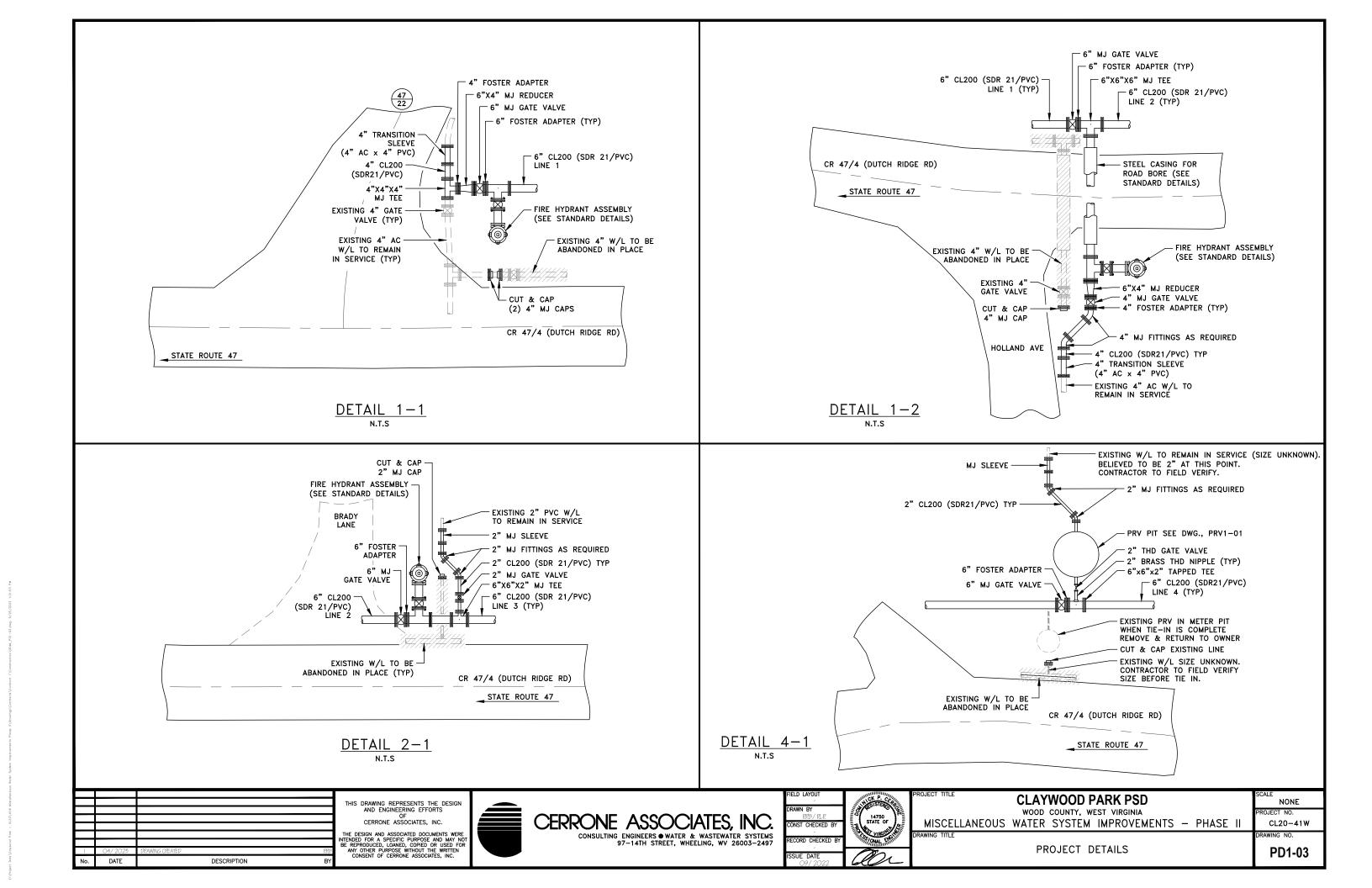
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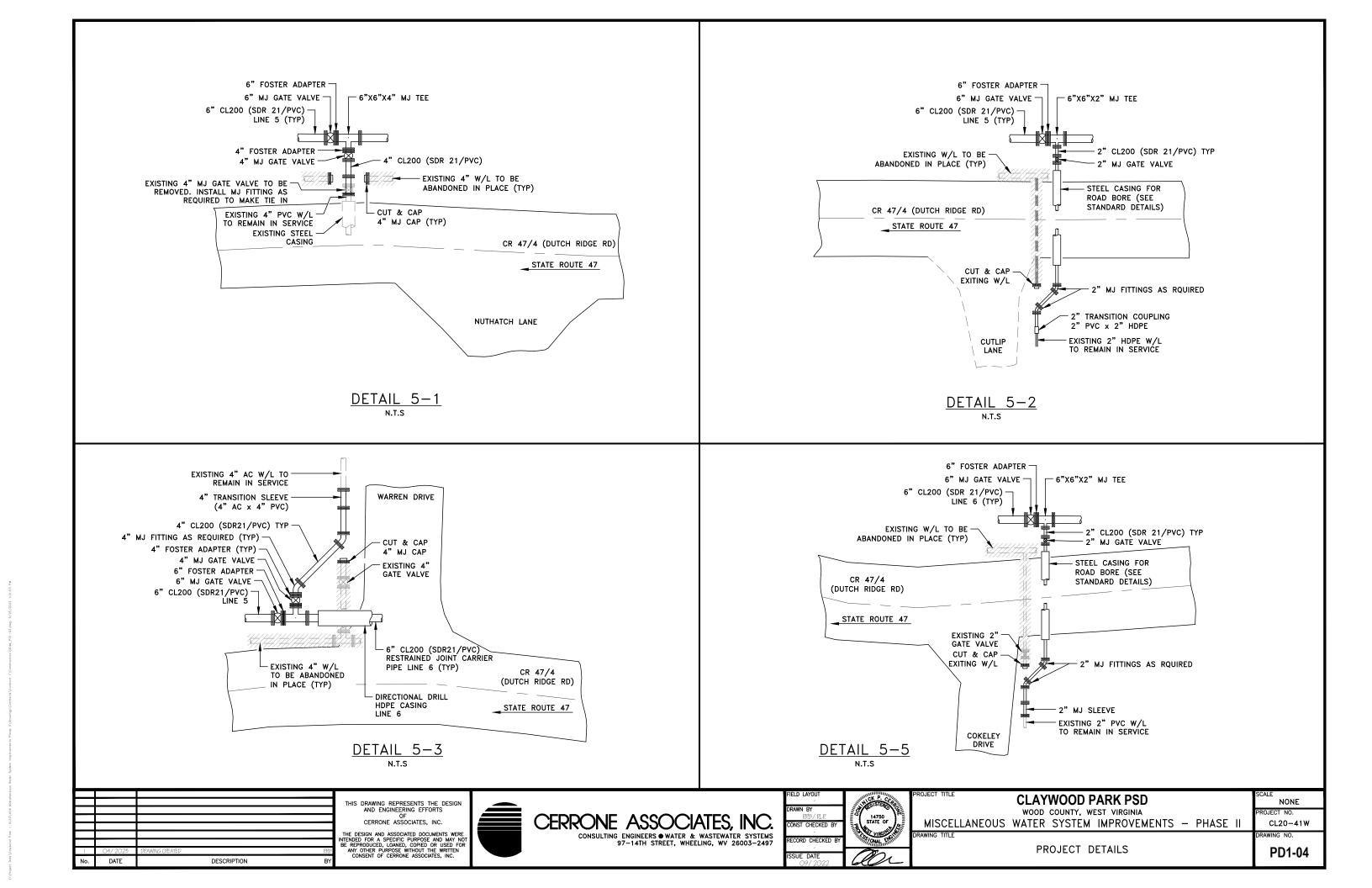
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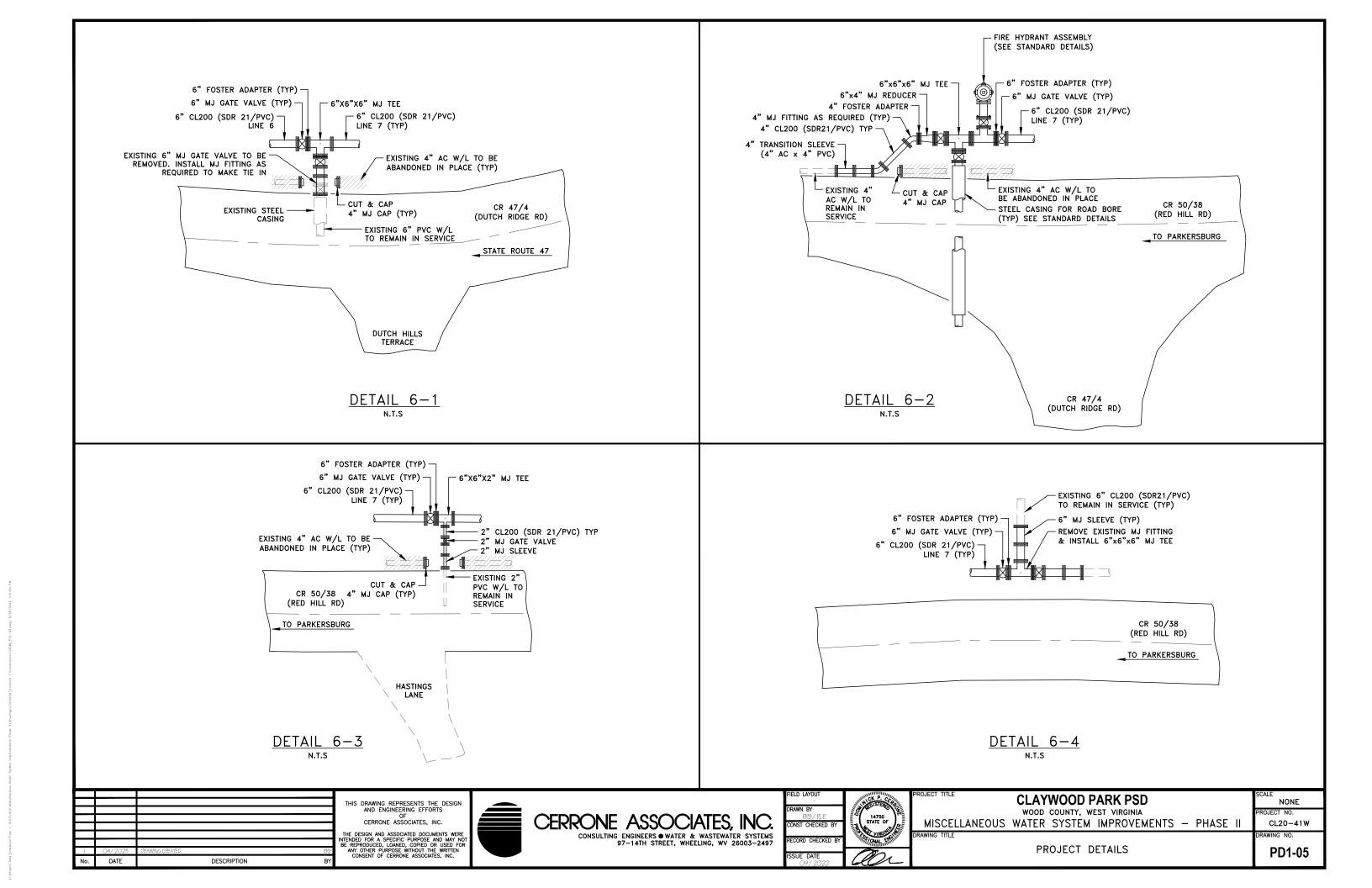
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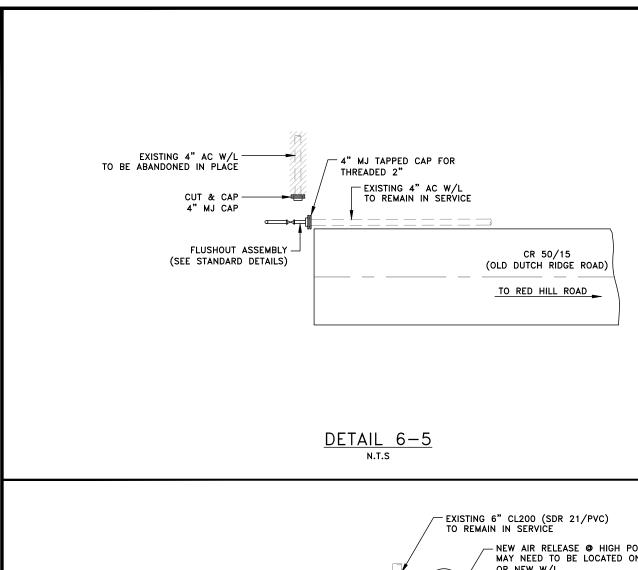


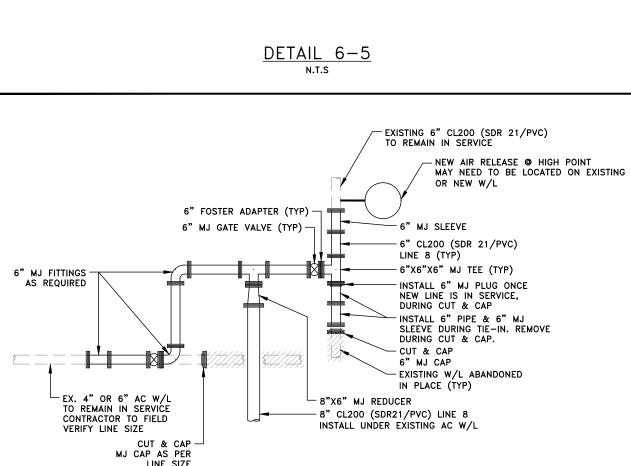
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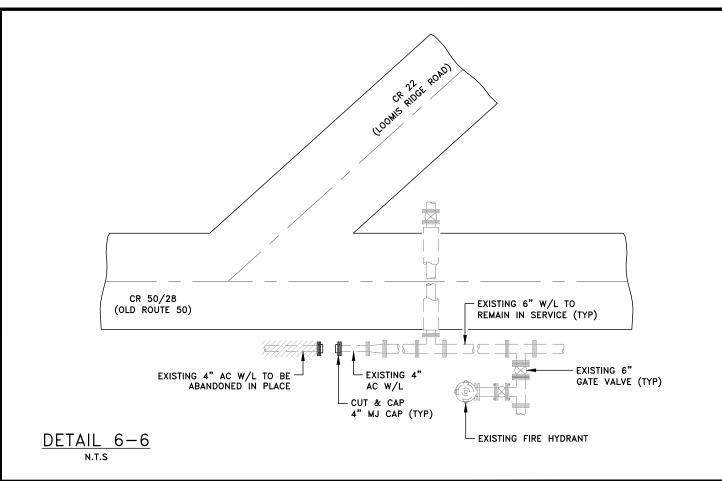


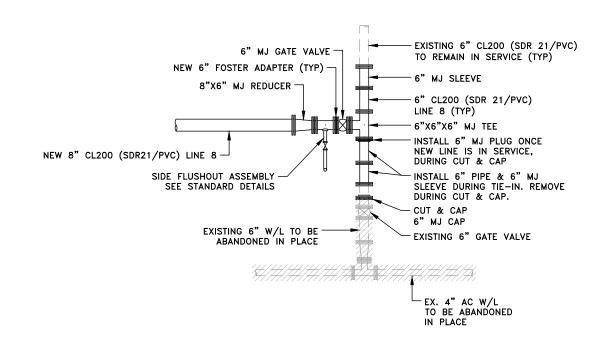






LINE SIZE DETAIL 7-1





DETAIL 7-2

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FIELD LAYOUT	CK P. CENTRAL
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CLAYWOOD PARK PSD WOOD COUNTY, WEST VIRGINIA MISCELLANEOUS WATER SYSTEM IMPROVEMENTS - PHASE II

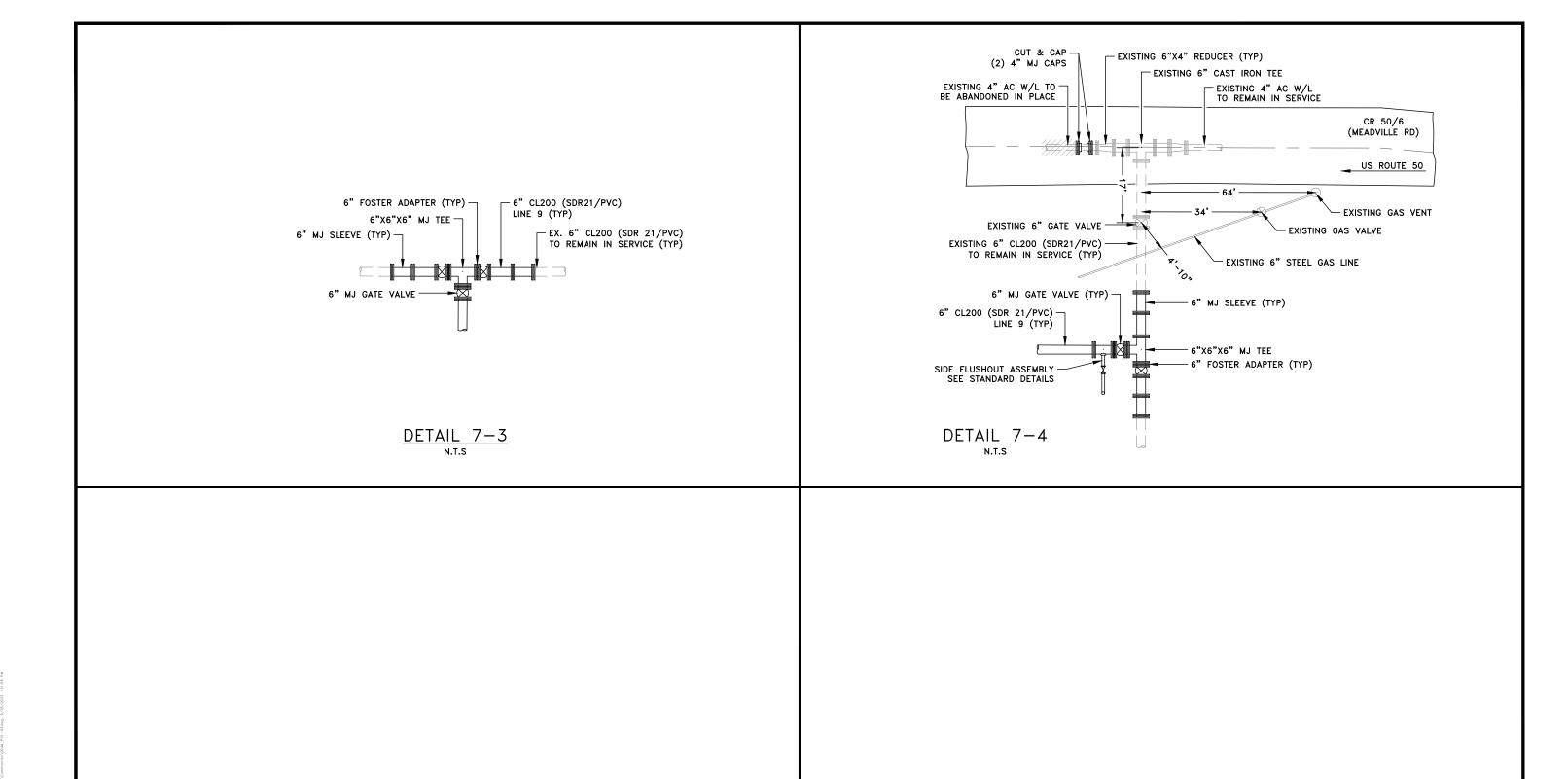
CL20-41W

PROJECT DETAILS

PD1-06

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FIELD LAYOUT	HILLIAM CK P. CENTRAL
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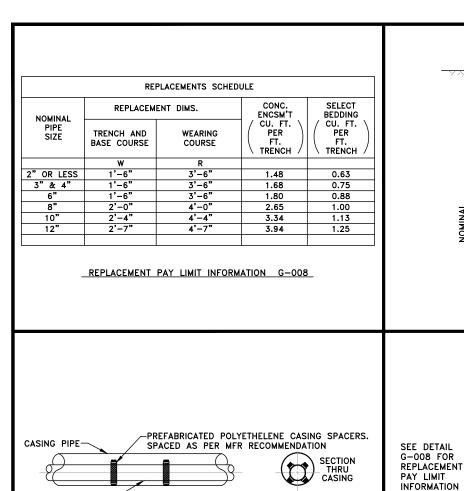
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MISCELLANEOUS	WATER

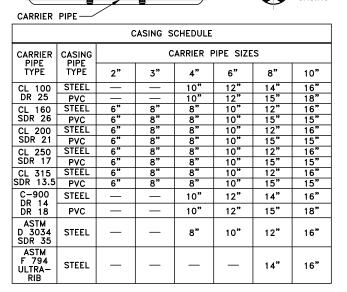
WOOD PARK PSD COUNTY, WEST VIRGINIA SYSTEM IMPROVEMENTS - PHASE II RAWING TITLE

NONE ROJECT NO. CL20-41W

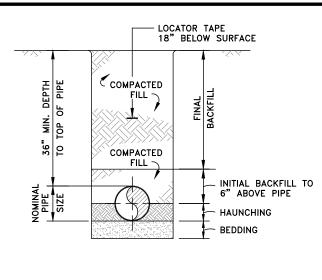
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PD1-07





CASING G-012A



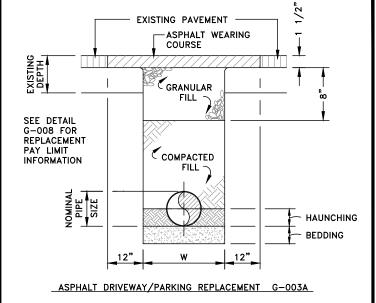
TYPICAL TRENCH SECTION G-001

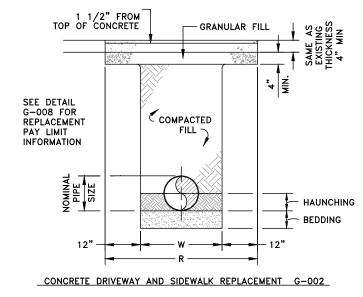
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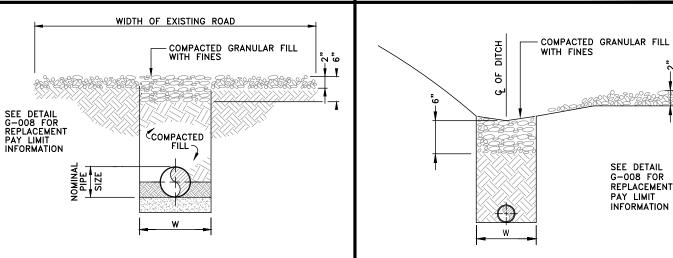
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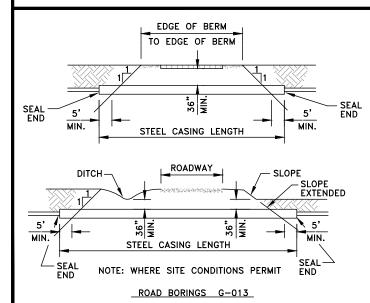
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COMPACTED GRANULAR FILL

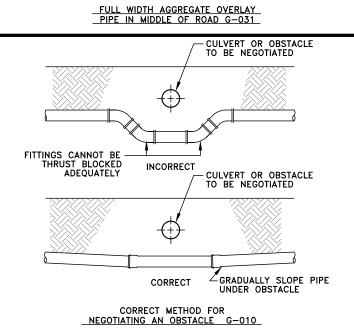


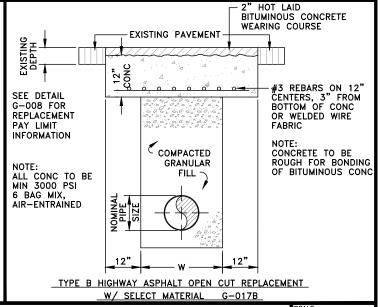






AGGREGATE DRIVEWAY & PARKING AREA REPLACEMENT G-026





FULL WIDTH AGGREGATE OVERLAY

PIPE IN EDGE OF ROAD G-032

No.	DATE	DESCRIPTION	BY
	04-2025	DRAWING CREATED	883

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CLAYWOOD PARK PSD			
	WOOD COUNTY, WEST VIRGINIA		
MISCELLANEOUS	WATER SYSTEM IMPROVEMENTS	_	PH

HASE II

STANDARD DETAILS

SD1-01

ROJECT NO

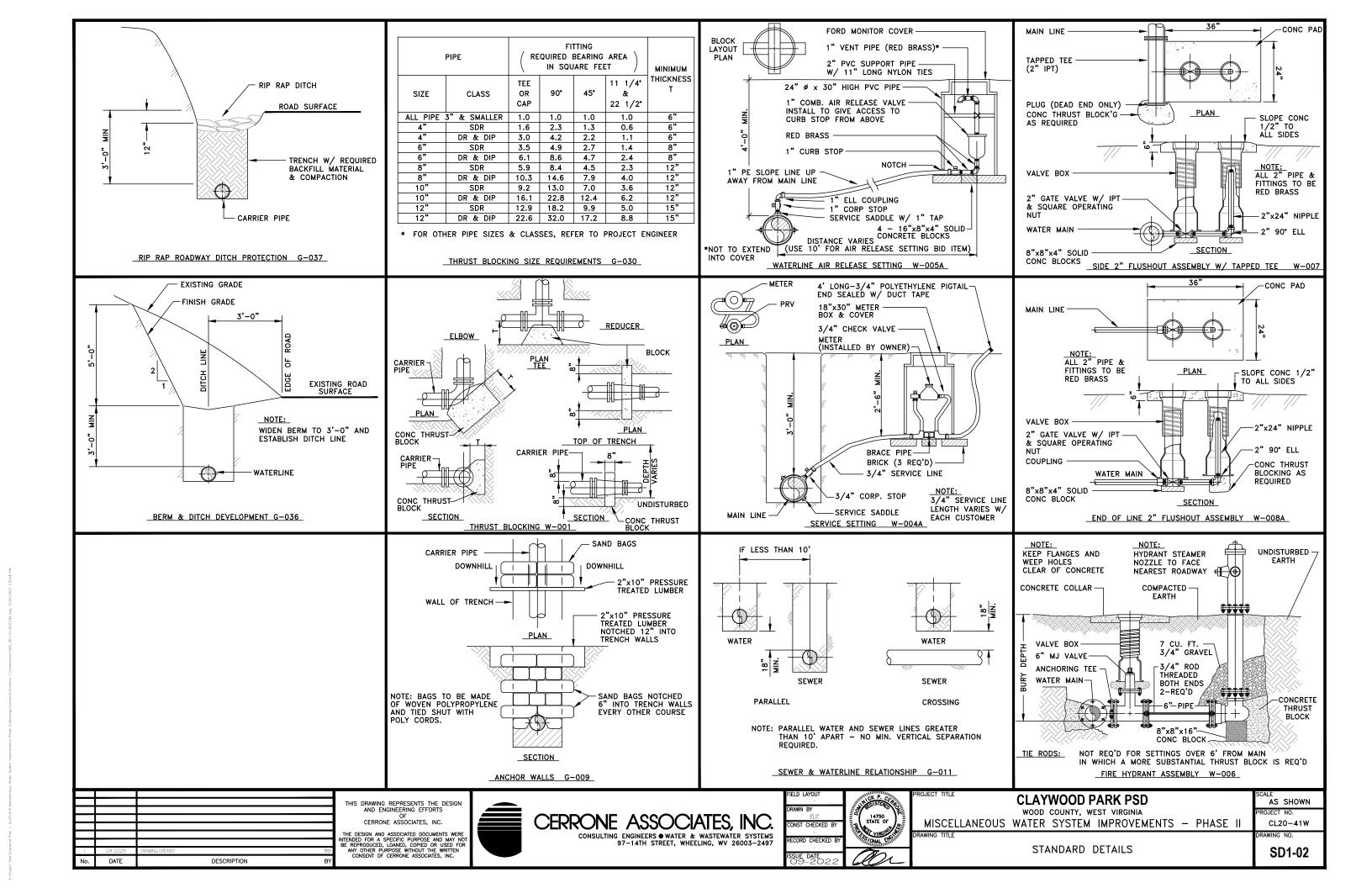
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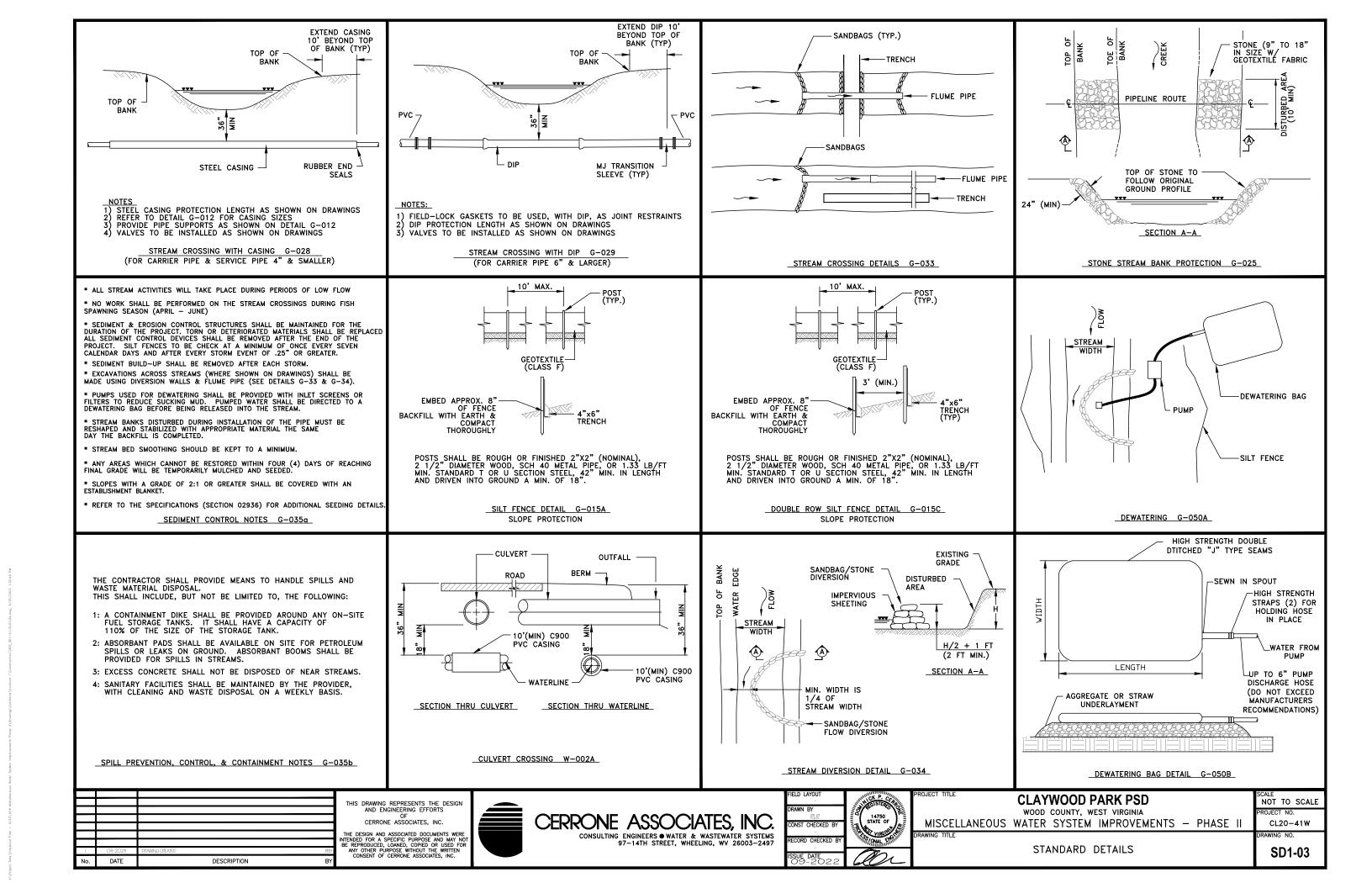
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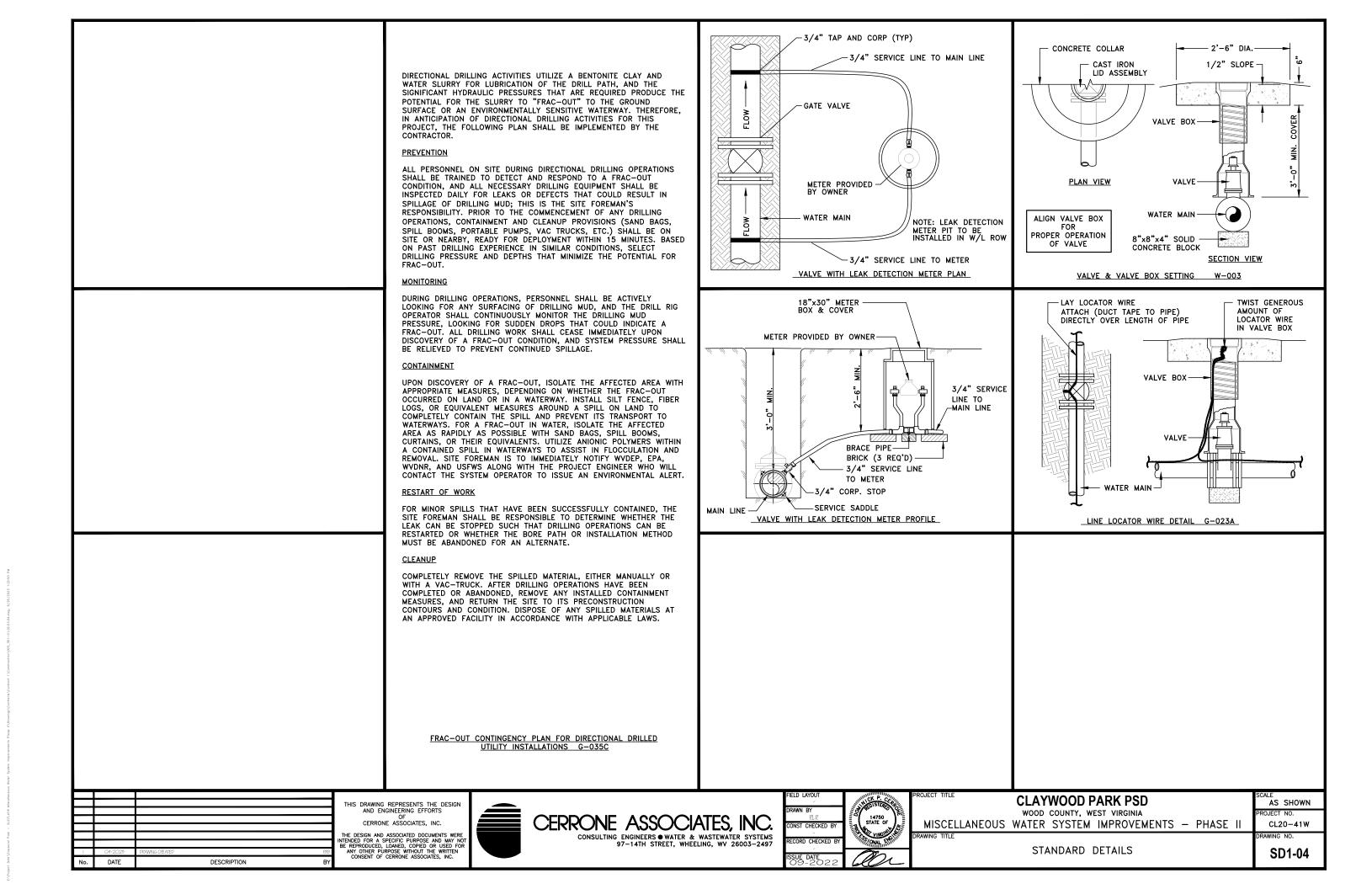
SEE DETAIL G-008 FOR REPLACEMENT

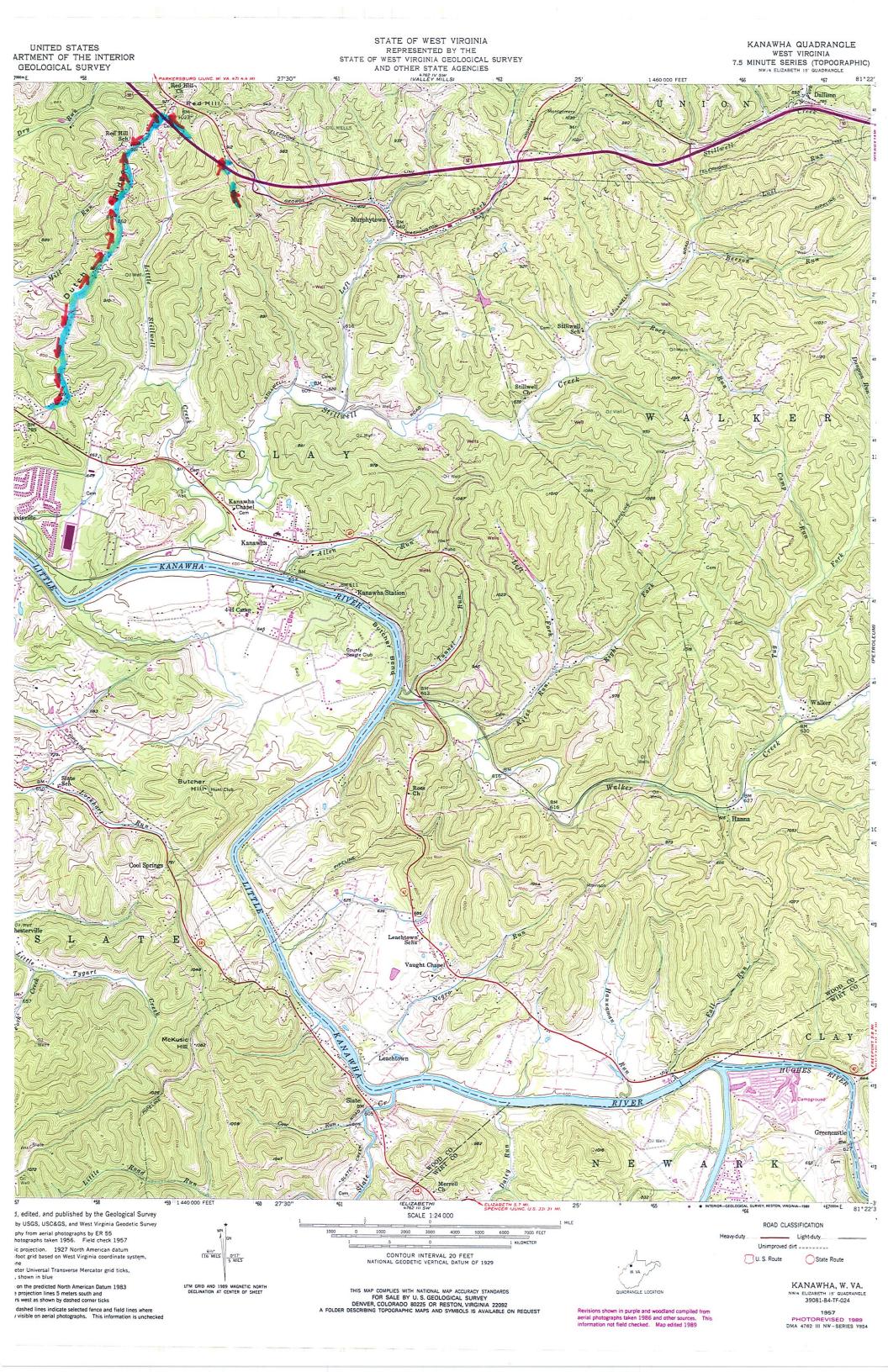
PAY LIMIT

INFORMATION









APPENDIX B

WVDEP Construction General Permit <u>WV0115924</u>



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER AND WASTE MANAGEMENT 601 57th STREET SE CHARLESTON, WV 25304-2345

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT

Permit No. WV0115924

Issue Date: January 10, 2019

Effective Date: February 9, 2019 Expiration Date: February 9, 2024

Subject:

Stormwater Associated with

Construction Activities

To Whom It May Concern:

This is to certify that any establishment with discharges composed entirely of stormwater associated with construction activities disturbing one acre or greater of land area which may be regulated under the terms and conditions of this general permit, has satisfied the registration requirements, and which has not been required by the Director of the Division of Water and Waste Management to apply for an individual permit, is hereby eligible to allow stormwater discharges into the surface waters of the State under this General WV/NPDES Water Pollution Control Permit. Authorization to discharge under this permit must be provided by the Director.

Construction activities are land disturbing operations such as clearing, grubbing, grading, filling and excavation operations during site development for residential, commercial or industrial purposes. The following are not eligible for coverage under this NPDES General Permit:

- 1. Operations that result in the disturbance of less than one acre of total land area, which are not part of a larger common plan of development or sale.
- 2. Stormwater discharges associated with land disturbing activities that may reasonably be expected to be causing or contributing to a violation of a water quality standard as determined by the Director.

- 3. Land disturbance activities already governed by other Department of Environmental Protection NPDES permits. This includes Division of Mining and Reclamation permits for coal mining and non-metallic quarries.
- 4. Landfills, except in the preparation of a new landfill and/or clay borrow areas.
- 5. Other activities exempt from NPDES permitting requirements as set forth in 40 C.F.R. 122.3 and 47 C.S.R. 10-3.2.b.4 (NPDES Program).
- 6. Land disturbing activities related to oil and gas activities as required by the Energy Policy Act of 2005. These activities include but are not limited to construction of drilling sites, waste management pits, and access roads, as well as construction of the transportation and treatment infrastructure such as pipelines, natural gas treatment plants, natural gas pipeline compressor stations, and crude oil pumping stations.
- 7. Construction activities that result in a discharge of a reportable quantity release or that contribute pollutants (other than non-contaminated sediments) to a violation of a water quality standard are still subject to permit coverage.

This General WV/NPDES Water Pollution Control Permit is to allow stormwater discharges into the surface waters of the State while protecting water quality and is subject to the following terms and conditions:

The information submitted on and with the application form will hereby be made terms and conditions of the General Permit with like effect as if all such information were set forth herein, and other pertinent conditions set forth in Parts I, II, III, and IV and appendices A, B, and C.

Site Registration Applications approved from February 9, 2018 through February 9, 2019 must file the Notice of Termination for completed projects where all disturbed lands have been permanently stabilized, or, a signed certification of agreement to abide by the terms and conditions of this reissued General Permit within 90 days of the effective date. Additional application fees do not apply to the certification; however, annual fees still apply. Where any incomplete projects have disturbed lands that have not been permanently stabilized, status maps are required with the certification. The map may be in PDF format and is not required to conform to the specifications of II.H.1.a. The status map shall show disturbed areas and the Limits of Disturbance (LOD), which is the area approved under the registration for land disturbance. Projects that have not disturbed any lands are not required to provide the status map. Additionally, the certification will contain an updated timeline for major activities as required by Part II.H.1.

Existing registrations under the Notice of Intent approved from February 9, 2018 through February 9, 2019 shall submit the Notice of Termination if all disturbed lands are permanently stabilized. If construction is not complete and all disturbed lands are not permanently stabilized, such projects may retain permit coverage through the expiration date of this General Permit by submittal of the certification described above within 90 days of the effective date of this reissued General Permit.

Projects discharging to Waters of the State with an approved sediment-related Total Maximum Daily Load (TMDL) with registrations that were approved for one year only with approval dates from February 9, 2018 through February 9, 2019 that have not completed construction and stabilized disturbed areas at the effective date of this permit are required to submit the above described certification. Such projects shall agree to implement Enhanced best management practices (BMP's). Submittal of the certification will remove the 1-year time constraint and the registration will be valid until the expiration of this reissued General Permit unless site stabilization and termination of the registration occur first. Projects required to submit Discharge Monitoring Reports under the 2012 permit with approval dates from February 9, 2018 through February 9, 2019 must submit the above described certification agreeing to implement Enhanced BMPs within 90 days of the effective date of this General Permit, which has eliminated monitoring.

All projects approved under the 2012 permit's Site Registration Application or Notice of Intent with an approval date prior to February 9, 2018 must submit the Notice of Termination if all disturbed areas are permanently stabilized. All other projects that have not been stabilized shall submit an application for continuing coverage within 90 days of the effective date of this General Permit.

Compliance with other laws and statutes

Nothing in this General Permit shall be construed as relieving the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

Continuation of this general permit

If this general permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with 47 C.S.R. 10 and remain in force and effect. If you were authorized to discharge under this general permit prior to the expiration date, any discharges authorized under this permit will automatically remain covered by this general permit until the earliest of:

- Your authorization for coverage under a reissued general permit or a replacement of this general permit following your timely and appropriate submittal of a complete application requesting authorization to discharge under the new general permit and compliance with the requirements of the new permit; or
- Your submittal of notification of termination that the facility has ceased operations;
 or
- Issuance or denial of an individual permit for the facility's discharge; or
- A formal permit decision by DWWM not to reissue this general permit, at which time DWWM will identify a reasonable time period of covered dischargers to seek coverage under an alternative general permit or individual permit. Coverage under this permit will cease at the end of this time period.

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PART I. INTRODUCTION

I.A. TERMS OF PERMIT

Discharges from sites covered under this General Permit shall not cause or contribute to a violation of 47 C.S.R. 2 (Requirements Governing Water Quality Standards) or 47 C.S.R. 12, (Requirements Governing Groundwater Standards) of the West Virginia Legislative Rules pursuant to Chapter 22, Article 11 and Article 12. Discharges that are not in compliance with these standards are not authorized.

I.B. COMPLIANCE REQUIREMENT

Compliance with this General Permit, the approved Stormwater Pollution Prevention Plan and the Groundwater Protection Plan is required upon the beginning of the construction project.

I.C. WATER QUALITY

Subject to 47 WV C.S.R. 10.3.4.a and 47 C.S.R. 2.4, the discharges covered by this permit are to be of such quality so as not to cause a violation of applicable water quality standards. The permittee must protect the water quality and the existing uses and designations of receiving waters by implementing BMPs. Enhanced BMPs must be used for projects discharging to any waters other than Tier 1 or where standard BMPs are found to be inadequate to protect water quality based on inspections by a Qualified Person, or representatives of the Director of DWWM or the Environmental Protection Agency.

Receiving waters for the exclusive purpose required by the paragraph above and in accordance with 47 C.S.R. 2.4 shall be protected from degradation as explained below:

Tier 1 Protection- Maintains and protects existing uses of a water body and the water quality conditions necessary to support such uses. A waterbody that is listed as impaired on the state's 303(d) list is considered a Tier 1 water as it pertains to the specific pollutant listed.

Tier 2 Protection- Maintains and protects "high quality" waters - water bodies where the level of water quality exceeds levels necessary to support recreation and wildlife and the propagation and maintenance of fish and other aquatic life. Tier 2 is the default assignment for a waterbody not listed as impaired on the state's 303(d) list.

Tier 3 Protection- Maintains and protects water quality in outstanding national resource waters.

Protection of Trout Streams - Waters which sustain year-round trout populations. Excluded are those waters which receive annual stockings of trout, but which do not support year-round trout populations. Waters which meet the definition of 47 C. S.R. 2-2.19 (Requirements Governing Water Quality Standards).

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Impaired Streams — Sediment-related impaired waters are those that do not meet applicable water quality standards and are listed on the state's 303(d) list.

Sediment-Related Pollutant of Concern Total Maximum Daily Loads (TMDL) - A TMDL establishes the maximum amount of a pollutant allowed in a waterbody and serves as the starting point or planning tool for restoring water quality.

<u>I.C.1.</u> This permit does not authorize new sources or new discharges of constituents of concern to impaired waters unless consistent with the approved sediment-related TMDL and applicable state law (WV 47CSR10 and WV Code 22-11).

Enhanced BMPs shall be used on projects discharging to all waters of the state except for those classified as Tier 1 streams (other than 303(d) listed). For discharges to sediment-related TMDL waters, the permittee shall use enhanced BMPs as defined in Appendix C of this General Permit.

The Director reserves the right to require Enhanced BMPs for any stormwater discharges associated with land disturbing activities authorized by this permit, upon a finding that water quality impacts have been observed and that standard BMPs cannot adequately protect water quality. However, this finding is not required for discharges already subject to Enhanced BMPs.

I.D. REQUIRED REPORTING

I.D.1. Reporting Spill and Accidental Discharges

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 47 C.S.R. 11-2. (Special Rules) of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11.

I.D.2. Immediate Reporting

The permittee shall report any noncompliance which may endanger human health or the environment immediately after becoming aware of the circumstances by using the Department's designated spill alert telephone number ((800) 642-3074) or by calling the Director or his representative. A written submission shall be provided within five calendar days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time, and if, the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

I.D.3. Reportable Quantities

This permit does not relieve the permittee of the reporting requirements of 40 C.F.R. Part 117 and 40 C.F.R. Part 302. The discharge of hazardous substances in the stormwater discharge(s) from a project is not authorized by this General Permit, and in no case, shall the discharge(s) contain a hazardous substance.

I.E. DIRECTOR'S AUTHORITY TO REQUIRE OTHER PERMITS

In accordance with WV 47CSR10 §13.6.b.2.A, the Director may require any person authorized by this permit to apply for and obtain either an individual NPDES permit or an alternative NPDES General Permit. Any interested person may petition the Director to take action under this paragraph. The Director may require any owner or operator authorized by this permit to apply for an individual NPDES permit only if the owner or operator has been notified in writing that such a permit application is required.

I.F. ALLOWABLE DISCHARGES

All discharges authorized by this permit shall be composed entirely of stormwater.

I.G. PROHIBITED DISCHARGES

The following discharges are not authorized by this permit.

- Sediment laden stormwater that has not gone through an appropriate best management control;
- Directing pavement wash-waters directly into any surface water, storm drain inlet, or stormwater conveyance, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control:
- Wastewater from washout of concrete unless managed by an appropriate control;
- Wastewater from washout and cleanout of stucco, paint, bituminous asphalt, form release oils, curing compounds and other construction materials;
- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and soaps, solvents, or detergents used in vehicle and equipment washing, or external building washdown.
- Toxic or hazardous substances from a spill or other release.

This permit does not authorize the conveyance, diversion, channeling, directing or otherwise allowing the discharge of stormwater into a sinkhole without an Underground Injection Control Permit.

PART II. PRE-CONSTRUCTION REQUIREMENTS

PRIOR TO CONSTRUCTION, the following are required:

- A complete application, prepared by a Qualified Person, for authorization to discharge stormwater from construction related land disturbance shall include:
 - O Installation of a sign at the entrance to the project or posting of a notice in a public place in close proximity to the construction site as indication the application has been submitted;
 - O Timely corrections or submission of additional information to provide clarity about the proposed construction project, as requested by the Director;
 - O Cooperation with the public notice process, when appropriate, by making prompt payment to the local newspaper that will publish the Class I legal advertisement, effectively notifying the public that the application is pending;
 - Making timely changes to the application, as necessary, based on public input; and

After receiving Director's approval and before beginning construction activities:

- Install sediment and erosion controls;
- Qualified Person inspects the newly installed sediment and erosion controls.
 - o Impounding structures not built as approved shall be inspected and documented as meeting the trapping capacities and efficiencies of the structures approved in the registration.

II.A. APPLICATIONS

II.A.1. Application Requirements

Submittal of the application shall be made using the online Electronic Submission System, unless otherwise approved by the Director. All documents must be signed in accordance with the signatory requirements described in Appendix A.7.

II.A.1.a. Application Fee

The application fee shall be paid in full prior to the Director reviewing the application. Fee amounts listed in and subject to changes in the NPDES Fee Schedule C.S.R. 47-26.

II.A.1.b. Public Notice Advertisement

The following applications are subject to Public Notice in a local newspaper therefore, the Notarized Statement for Billing form is required with the application:

- Land disturbance of 100 or more acres;
- Projects of 3 acres or more with a grading phase lasting one year or longer which will not meet final stabilization, as defined in Appendix C of this General Permit, by the end of the year; and
- Projects discharging to Tier 3 streams.

The Director reserves the right to require advertisement for any other application type.

II.A.1.c. Large Construction Projects

Projects disturbing 3 or more acres of land shall submit an application containing:

- Application Form, to include template for the sign
- Stormwater Pollution Prevention Plan;
- Groundwater Protection Plan;
- Pre-Construction Drainage Map
- During Construction Drainage Map showing the proposed location of all drainage structures and associated access routes;
- Post Construction Drainage Map;
- Annual Progress Map if permitted for longer than one year;
- Detailed Site Plan (Maps) showing Limits of Disturbance and Receiving Waters; and
- Design Details for:
 - O Sediment basins, road, cut and fill cross sections, and other engineered structural design calculations; and
 - Other controls to include post-development stormwater management plans required by local governments
- Applications for Large Construction Projects shall be submitted 60 days before the anticipated date construction is to begin.
 - Applications for Large Construction Projects requiring Public Notice per II.A.1.b. shall be submitted 100 days before the anticipated date construction is to begin.

II.A.1.d. Minor Construction Projects

Projects disturbing 1 to < 3 acres of land, other than single-family homes as explained in Part II.A.1.e. below, shall submit an application containing the following:

- Application form, to include template for the sign
- Stormwater Pollution Prevention Plan;
- Groundwater Protection Plan:
- Pre-Construction Drainage Map;
- During Construction Drainage Map showing the proposed location of all drainage structures and associated access routes;
- Post Construction Drainage Map;
- Annual Progress Map if permitted for longer than one year;

- Detailed Site Plan (Map) showing Limits of Disturbance and Receiving Waters
- Typical Design Details.
- Applications for Minor Construction Projects shall be submitted 30 days before the anticipated date construction is to begin.
 - Applications for Projects requiring Public Notice per II.A.1.b shall be submitted 100 days before the anticipated date construction is to begin.

II.A.1.e. Construction of Single-Family Homes: I to < 3 Acres

Projects for construction of Single-Family Homes of 1 to <3 acres including offsite borrow and waste sites, by the homeowner or homeowner's contractor are subject to this permit and shall submit:

- Application Form; and
- Agreement to use DWWM Individual House Sample Sediment and Erosion Control Plan found in the West Virginia Erosion and Sediment Control BMP Manual (BMP Manual), or other BMPs that are equally protective of water quality.
- Applications for construction of Single-Family Homes of 1 to < 3 acres shall be submitted 30 days before the anticipated date construction is to begin.

II.A.1.f. Offsite Waste and Borrow Areas

Offsite waste and borrow areas one acre or greater must be included in applications and approved before material may be removed from or accepted at the site. Such areas must be included in the application when associated with single-family homes, linear projects, or any other construction project. Offsite waste or borrow sites less than one ace in size that are not contiguous to the construction site must provide sediment and erosion controls and may be included with the application, however, there is no requirement to do so unless otherwise required by the Director.

If a waste/borrow area is not known during the initial application, the registration can still be issued. Once the location of a waste/borrow area is identified it is the responsibility of the applicant to modify their registration to include contiguous area(s) or non-contiguous areas of one acre or more. When the permittee does not have "legally ability to control" non-contiguous areas of one acre or more, the permittee may contact the DEP to inquire if the non-contiguous acre or more has been properly permitted and therefore, a site suitable for waste or borrow. The permittee may also make an inquiry of the party that does have the "legal ability to control" the non-contiguous site if it is properly permitted before accepting material from or sending material to the site.

When contaminated soils are identified, a soil handling plan shall be provided. Contaminated soil is not suitable material for borrow or fill unless approved by the Director.

II.A.2. Emergency Procedures

When conducting earth-disturbing activities in response to a public emergency e.g., natural disaster, widespread disruption in essential public services), and the related work requires immediate authorization to avoid imminent endangerment to human health, public safety, or the environment, or to reestablish essential public services, authorization to discharge is conditioned that a complete and accurate application is submitted within 30 calendar days after commencing earth-disturbing activities establishing eligibility under this permit.

Documentation to substantiate the occurrence of the public emergency must be included in the application.

II.B. POSTING SIGN OR NOTICE

Within 72 hours of filing an application, the applicant shall display a sign for the duration of the construction project near the entrance of the project or, for linear projects, at a location near an active part of the project that is accessible by the public; containing the following information:

- The applicant's name and emergency telephone number;
- Project Reference ID;
- For info on this stormwater permit Call: 800-654-5227 or DEP. Comments@wv.gov.
- Permit Number (See II.B.4.)
- <u>II.B.1.</u> The sign shall be a minimum of two feet by two feet and be at least three feet above ground level; clearly visible and legible from a public roadway or right-of-way.
- <u>II.B.2.</u> If it is not feasible to display a sign at or near the project, the applicant may post, within 72 hours of filing the application a notice containing the foregoing information at a local public building, including, but not limited to, a town hall or public library.
- <u>II.B.3.</u> The application shall provide the location where the sign or notice is to be posted.
- <u>II.B.4.</u> Within 7 business days of assignment of the permit registration number, the applicant shall affix such number to the sign or to the posted notice.

II.C. INCOMPLETE OR INCORRECT APPLICATIONS

As the application is evaluated by the Director, notice may be sent to the applicant during the review period that the plan does not meet one or more of the specific minimum requirements of this permit. After such notification, the applicant shall have 30 days to resubmit the application.

<u>II.C.1.</u> An applicant needing additional time to respond to requests for changes or additional information must request an extension prior to the end of the 30 days, or:

- The Director may terminate the application, after making a reasonable attempt at, and being unsuccessful in, contacting the applicant to provide notice of the pending termination
 - O The Director may cause a pending termination message to be sent from his official mailbox which has an email address of DEPNPDESEP@wv.gov to the applicant's email address as listed on the registration application.
 - O It is the responsibility of the applicant to keep the Director informed of accurate contact information, and in lieu of a successful notice from his official mailbox, the Director may attempt to contact the applicant by phone to provide notice of the pending termination.
- Upon successful contact with the applicant, the Director has the option of terminating or extending the due date for resubmission of the application.

II.D. PUBLIC NOTICING OF APPLICATIONS

The Applicant shall cooperate with the public notice of applications required by Part II.A.1.b:

- Making payment for a Class I Legal Advertisement concerning the application to the local newspaper with the largest readership in the vicinity of the proposed project.
- Obtaining from the newspaper, and submitting to the Director, an affidavit of the publication of the Class I Legal Advertisement.

II.E. AUTHORIZATION TO DISCHARGE

The applicant is prohibited from disturbing land prior to obtaining approval from the Director for activities covered by this permit. The Director shall send an approval or denial of the application via his official mailbox, <u>DEPNPDESEP@wv.gov</u> and,

- The Director has no further obligation to attempt to verify the applicant received the approval or denial, as
- It is the responsibility of the applicant to keep the Director informed of up-to-date and accurate contact information.

The Applicant shall maintain a copy of the approval from the Director onsite and make it available to DWWM Personnel or the public upon request.

II.F. INSTALLATION OF EROSION AND SEDIMENT CONTROLS

After receiving approval from the Director and before beginning construction activities, the permittee shall install erosion and sediment control BMPs in accordance with the approved registration. BMPs shall be in place and functional prior to land disturbance. For registrations proposed to be completed in multiple phases, the BMPs for each phase must be constructed and functional prior to land disturbance beginning in that phase. Erosion

and sediment control BMPs shall be implemented in accordance with standard procedures set forth in the BMP Manual, however, other BMPs may be used if equally protective of water quality.

II.G. QUALIFIED PERSON TO INSPECT EROSION AND SEDIMENT CONTROLS

The permittee shall ensure that all newly installed erosion and sediment control BMPs are inspected by a Qualified Person. Any defective controls identified during the inspection must be repaired and/or installed correctly within 24 hours and corrections verified upon re-inspection by the Qualified Person.

Construction activities may begin after the Qualified Person inspects and finds that all erosion and sediment control BMPs are installed properly in the areas where earth disturbing activities are planned to commence.

Sediment control BMPs shall be constructed in accordance with the approved registration (Part II A.1.c. and A.1.d.). All basins and traps not constructed in accordance with the approved registration shall be inspected and documented by a Qualified Person as affording the same trapping capacity and efficiency as the approved structures. Thereafter, routine inspections of the structures by a Qualified Person shall be conducted in accordance with III.B. until structure removal. All documentation of inspections shall be kept on site during construction on a form, prescribed by the Director for the length of the construction project.

II.H. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) COMPONENTS

SWPPPs shall be prepared in accordance with good engineering practices and retained per II.H.5. The plan shall identify potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges associated with construction activity. The plan shall describe and ensure the implementation of practices that are to be used to reduce the pollutants in stormwater discharges associated with construction activity and to assure compliance with the terms and conditions of this permit. The SWPPP shall be prepared by a Qualified Person.

II.H.1. Nature of the Activity

The SWPPP shall contain a description of the nature of the construction activity, including a proposed timetable for major activities such as: cut and fill plans, proposed road construction or upgrades, grading plans, and a narrative of the pollution prevention techniques proposed to be implemented before, during and after construction. A schedule for major grading activities and stabilization measures to be initiated shall be included in the description

II.H.1.a. Maps

Site maps shall contain a North arrow with sites oriented to the North, with a minimum of five-foot topographical contours. The maps shall include:

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- Nearest receiving streams, springs, surface waters to the site;
- Limits of all areas to be disturbed (LOD);
- Existing roads including public roads from which access to the site will be constructed;
- Access roads;
- Drainage patterns during and after construction with the outlet markers depicting the stormwater discharge points;
- Slopes prior to construction and anticipated conditions after grading activities;
- Location of topsoil stockpiles;
- Waste areas of 1 acre or greater within or contiguous to the construction site;
- Borrow sites of 1 acre or greater within or contiguous to the construction site;
- Locations and identification of sediment control structures;
- Total acreage and location of impervious areas after construction is complete;
- Location of rain gauge provided by the applicant or a statement the applicant will obtain the precipitation event information from a National Oceanic Atmospheric Administration (NOAA) weather station that is representative of the location and provide the Station ID Number;
- Post-development stormwater management structures required by local governments;
- Final stormwater conveyances, including all ditches and pipe systems;
- Property boundaries and easements; and
- A legend, complete with any other information necessary to describe the project in detail.

The project shall be illustrated in an ArcGIS Shapefile (.shp) or in an AutoCAD Drawing (.dwg).

<u>II.H.l.b.</u> The map shall be accompanied by a description of an estimate of the total area of the site, the part of the site that is expected to undergo excavation or grading, and the total amount of excavation by cut and fill as well as an explanation of where excavated material will be moved from, and to, on the site.

Cross sections that accurately depict the surface configuration at any project area proposing a fill with a contributing drainage area of one acre or more shall be included with the mapping information. A description of measures to be taken to reduce the potential for subgrade saturation and ensure stability of fill areas shall be submitted. The cross-section shall be developed from sufficient slope measurements to adequately represent the existing land configuration of the proposed project area. Fill slope lines, original ground line, proposed keyway cut or rock toe key, drainage provisions and/or alternates shall also be identified.

<u>II.H.1.c.</u> For each Large Construction Project an evaluation point shall be selected. The preconstruction peak discharge from a 1-year, 24-hour storm in cubic feet per second and the post-development peak discharge from a 1-year, 24-hour storm in cubic feet per second shall be calculated at the evaluation point.

If post-construction peak discharge is 10% (or more) greater than the pre-construction peak discharges of 5 cubic foot per second or more for the 1-year, 24-hour storm, at the evaluation point, post-construction stormwater management BMPs must be implemented to

reduce potential erosion at the discharge point location. Calculations and justification must be submitted if post-construction stormwater management features are deemed unnecessary. The evaluation point will be the location for discharge, therefore, controls must be put in place to prevent erosion from stormwater released from the construction site.

The design procedures shall follow professionally accepted engineering and hydrologic methodologies.

<u>II.H.1.d.</u> Each road or access road shall be classified as either permanent or temporary and categorized as Construction Activity — New or Improved; Incidental Construction Activity; or Maintenance Only.

- Temporary roads shall be reclaimed as soon as practical after they are no longer needed for operations.
- New or Improved roads shall be designed with the complete specifications along the entire road.
- Incidental Construction Activity necessary to address tills and gullies and other drainage issues, shall be designed with the complete specifications on that specific segment.
- Maintenance only means to be graveled only.

The SWPPP shall contain plans and specifications for each road or access road requiting construction activities within the LOD area. The plans and specifications shall include a map, stationed baseline, appropriate profile and cross sections, gradients, flow patterns, surfacing materials, cuts, fill, embankments, drainage ditches, culverts/water bars, and erosion and sediment structures.

Each road or access road shall be designed with the following specifications:

- Stone access entrance and exit drives.
- Parking areas to reduce the tracking of sediment onto public or private roads.
- All unpaved roads on the site shall be graveled or have other durable surface unless the application contains a statement that the affected landowner disagrees with this requirement. The applicant shall provide the land use, such as agriculture and shall describe the BMPs chosen to effectively control sediment and erosion. Unpaved roads shall be stabilized in accordance with II.H.1 .d.1 . the road bed shall be seeded and mulched.
- The maximum pitch grade shall not exceed 15%.
- The surface shall pitch toward the ditch line at a minimum slope of 2% to 4%. A road located in an area that doesn't have hillside runoff may be crowned with a minimum slope of 2% to 4% from the center line.
- A ditch shall be provided on the inside of any road having hillside runoff, with ditch relief culverts and/or water bars spaced according to grade and installed wherever necessary to insure proper drainage of runoff water beneath or through the access road.

- Ditch lines shall be capable of passing the peak discharge of a 10-year, 24-hour precipitation event.
- Ditch relief culverts shall be capable of passing the peak discharge of a 2-year, 24-hour precipitation event and placed at a spacing using the formula: 4001% grade + 75' = culvert spacing.
- Sediment control shall be provided at the inlet by sumps, rock checks, or equal structure and the slope at the outlet end shall be protected with an apron of rock riprap, a water energy dissipater, or other similar structure.
- Alternative design criteria for access road drainage may used, but only when approved by the Director.

<u>II.H.1.d.1.</u> A road not to be retained as a permanent road shall be reclaimed as soon as practical after it is no longer needed for operations. The reclamation shall include:

- Removing and disposing of road surfacing materials that are incompatible with prior land use and revegetation requirements; and
- Reshaping cut and fill slopes as necessary to be compatible with the land use and complement the natural drainage pattern of the surrounding terrain.
- Prior to abandonment of access roads, efforts shall be made to prevent erosion by the use of culverts, water bars, or earth berms. Water bars or earth berms shall be installed according to the following formula for spacing: 400/% grade + 75' = water bar or earth berm spacing.
- Upon abandonment, the road bed shall be scarified or ripped and all areas associated with access roads shall be immediately seeded and mulched.

<u>II.H.1.d.2.</u> The application for registration shall identify existing All-Terrain Vehicle (ATV) trails to be retained by the landowner upon termination of the permit registration. ATV trails that are not shown with the original application may be identified through a minor modification to the registration. ATV trails shall be maintained by the applicant and stabilized upon conclusion of construction when not identified in the registration as a landowner accepted trail. Stabilization shall include the vehicle travel lanes for all trails not accepted by the landowner. During construction, the applicant shall maintain the trails and include trail areas during inspections to prevent sediment laden stormwater runoff from entering the waters of the state.

II.H.1.e. Impact Reduction

Site maps shall also include the location and type of stabilization methods for all disturbed areas. Plans shall ensure that existing vegetation is preserved where attainable. Efforts shall also be made to limit disturbance on steep slopes, minimize soil compaction, and preserve topsoil where feasible. A description of interim and final stabilization practices, including site specific implementation schedules of the practices shall be provided and may include: temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures.

<u>II.H.1.e.1.</u> The SWPPP shall contain stabilization practices to ensure that disturbed portions of the site are stabilized as rapidly as possible. Satisfactory stabilization means all disturbed areas shall be covered by permanent protection such as pavement, pervious pavement, compacted gravel, buildings, waterways (riprap, concrete, grass, or pipe), a healthy, vigorous stand of grass or native vegetation that uniformly covers more than 70% of the ground, stable outlet channels with velocity dissipation which directs site runoff to a natural watercourse, and any other structure or material approved by the Director.

<u>II.H.1.e.2.</u> Vegetative practices shall describe seedbed preparation requirements and the type and amount of soil amendments necessary to establish a healthy stand of vegetation. Soil maps shall be submitted.

For projects with unknown sources of potential borrow material or when excavation is necessary before adequate soil amendments may be determined, the Qualified Person shall, as soon as materials are located or excavated, prepare the soil amendment plan. The plan shall become a part of the records retained in accordance with Part II.H.5.

<u>II.H.2.</u> The SWPPP shall be signed in accordance with Appendix A.7. and retained onsite throughout the course of the project.

II.H.3. Potential Pollutants

The SWPPP shall include a complete list and description of potential pollutants at the project site such as products used in the operation and maintenance of vehicles and equipment as well as construction of buildings, parking lots, and other structures. The erosivity of soils must be considered when selecting erosion and sediment control BMPs.

II.H.3.a. Potential pollutants can be identified by including:

- A report showing the soil mapping units associated with the proposed area and a table with a description of each map unit, acres in the permit area, and percent of permit area;
- Identification of soils and a soil handling plan;
- A statement whether cement will be mixed onsite or delivered by truck;
- A description of the types of equipment to be used, serviced, repaired, or cleaned onsite;
- A description of the products to be used in construction of buildings and parking lots;
- A statement whether fertilizers, herbicides, and pesticides will be used on the site including a schedule of application; and
- A description of the post-development use of the site.
 - o Certain post-development discharges might require further approval for discharges from the Director, under an individual permit or other general permit.

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<u>II.H.3.b.</u> Include a description of the controls and procedures for preventing potential pollutants from entering stormwater runoff, based on II.H.3.a.

<u>II.H.3.b.1.</u> Design, select, and identify erosion and sediment control BMPs. The BMPs should be selected from the BMP Manual. Alternative BMPs may be used if determined by the Director to be equally protective of water quality.

<u>II.H.3.b.2.</u> Projects discharging to any waters other than Tier 1 require the use of enhanced BMPs, such as:

- Inspection of all erosion and sediment control BMPs within disturbed areas at least once every four calendar days and within 24 hours after any precipitation event greater than 0.25 inches per 24 hours period.
- Repairs or maintenance to BMPs shall be performed within 24 hours, however, permittees must implement alternate BMPs prior to storm events while awaiting repair of the primary enhanced BMP.
- Temporary seeding and mulching within 4 days when areas will not be re-disturbed for more than 14 days.
- Permanent seeding and mulching within 4 days of reaching final grade.
- Final stabilization within 4 days after construction has been complete.

If the time frame associated with enhanced BMP's are unobtainable due to weather conditions, a narrative justification shall be made and maintained onsite for review by the Director.

Additional filtration BMPs should be selected from the BMP Manual, however filtration BMPs from other manuals may be approved, if equally protective of water quality.

Within six months of notification from the Director of a new sediment-related TMDL approval applicable to construction activities, permittees must incorporate any implement enhanced BMPs for discharges to the receiving waters subject to the TMDL.

<u>II.H.3.b.3.</u> Hay or straw bales shall not be used as primary or secondary filtering devices; Polymers, flocculants, or other treatment chemicals may be used only in accordance with good engineering practices and specifications for use by the chemical provider/supplier. The use of cationic treatment chemicals is prohibited;

<u>II.H.3.b.4.</u> Identify a specific location and procedure for rinsing mobile mixing drums or truck drums. The procedure must name an appropriate control for the wastewater created by such rinsing and fully explain how the permittee will prevent wastewater from entering stormwater runoff;

<u>II.H.3.b.5.</u> Describe procedures to prevent spillage, leakage, and improper disposal of fuel, oil, grease, solvent, soap, and cleaning plans. The procedures must explain how these products will be handled to prevent any pollutants from entering stormwater.

<u>II.H.3.b.6.</u> Describe how washout and cleanout of stucco, paint, form release oils, curing compounds, bituminous asphalt, and other construction materials will be managed to prevent pollutants from entering stormwater runoff;

<u>II.H.3.b.7.</u> Describe an employee training program for all on-site personnel directly involved with construction activities at all levels of responsibility that reiterates the components and goal of the SWPPP.

- Training should address topics such as spill and leak response and internal reporting, good housekeeping, and routine inspection and maintenance.
- Training shall be on a quarterly basis while construction activities are occurring.
- A list of attendees and topics covered at each training session shall be documented and maintained in the SWPPP.

<u>II.H.3.b.8.</u> A natural vegetative buffer shall be provided adjacent to receiving streams or other waters on or near the project site. Vegetative buffers shall be a minimum of 50 feet, however;

- A natural vegetated buffer may not be used as a stand-alone erosion and sediment control practice but must be used in conjunction with other BMPs.
- Vegetative buffer strips are not required if:
 - o A natural vegetative buffer does not exist in pre-construction conditions, such as when the buffer has already been removed by existing developmental or agricultural activities; or
 - O The receiving water is a man-made stormwater conveyance or storage structure, such as a ditch or storm water pond; or
 - Project activities occur within waters approved under a Clean Water Act (CWA) Section 404 permit and Section 401 water quality certification; or
 - The projects located where the vegetative buffer must be encroached to construct necessary infrastructure, such as a utility line or an access road. Justification for any encroachment may be subject to approval by the Director; or
 - o Linear projects where right-of-way acquisition or area is limited.

<u>II.H.3.b.9.</u> All diversions constructed to final grade, including clean water diversions shall be stabilized prior to becoming functional. Internal construction diversions must be stabilized upon reaching final grade.

- Divert flows around exposed soils and limit runoff from exposed areas with BMPs such as:
 - O Silt fences, earthen dikes and berms, land grading, diversions, drainage swales, check dams, subsurface drains, pipe slope drains, storm drain inlet protection, rock outlet protection, reinforced soil retention systems and geotextiles, gabions and riprap, and permanent and temporary sediment traps/basins.

- Fill slopes must be protected by measures used to divert runoff away from fill slopes to conveyance measures such as pipe slope drains or stable channels.
- o BMPs should be selected from the BMP Manual, however, other BMPs may be approved if equally protective of water quality.
- If necessary, diversions will be used to direct runoff to the trapping structure.
 - o Diversions to trapping structures must be stabilized as they are brought to final grade to prevent sediment laden water from leaving the site.
 - O Diversions shall have the capacity to pass safely the peak discharge from a 10-year, 24- hour precipitation event.

<u>II.H.3.b.10.</u> For locations on a site that have a drainage area of five acres or less, a sediment trap which provides a storage volume equal to 3,600 cubic feet per acre of drainage area shall be installed. Half of the volume of the trap shall be in a permanent pool and half will be dry storage. A sediment trap must be able to pass through the spillway(s) a 10-year, 24-hour precipitation event, and still maintain at least one foot of freeboard.

<u>II.H.3.b.11.</u> For drainage areas of greater than five acres, a sediment basin providing 3,600 cubic feet per drainage acre shall be installed. Half of the volume of the basin shall be in a permanent pool and half shall be dry storage. Sediment basins must be able to dewater the dry storage volume in 48 to 72 hours. However, this requirement may be waived at the discretion of the Director when skimmer devices are used. Dewatering structures must withdraw from the surface, unless infeasible. A sediment basin must be able to pass through the spillway(s) a 25-year, 24-hour precipitation event, and still maintain at least one foot of freeboard.

<u>II.H.3.b.12.</u> For locations served by a common drainage where a sediment basin providing 3,600 cubic feet of storage is not attainable or dewatering structures that withdraw from the surface are not feasible, enhanced BMPs within the project area are required in lieu of the required sized sediment basin. Justification and a narrative description of the additional measures proposed must be provided for use of any practice(s) other than sediment basins or traps.

<u>II.H.3.b.13.</u> Protection must be provided for the inlet(s) and outlet(s) of a sediment trapping structure to protect against erosion by an appropriate material such as riprap or other similar media.

II.H.4. Preventative Maintenance

The SWPPP shall include a description of procedures to maintain in good and effective condition and promptly repair or restore all grade surfaces, walls, dams and structures, vegetation, erosion and sediment control measures and to identify and address conditions that could cause breakdowns or failures resulting in discharges of sediment to surface waters including:

- Good housekeeping protocols to ensure a clean and orderly project. This includes minimizing 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 stormwater;
- All solid waste and construction/demolition material must be disposed of in accordance with the Code of West Virginia and Legislative Rule Title 33 Series 1, (Solid Waste Management Rule);
- At a frequency, sufficient to keep roads and streets clean, all public and private roads and streets adjacent to a construction site must be cleaned of debris, mud, and dirt tracked or originating from the project site;
- Provisions must be made to control fugitive dust on and originating from the construction site.;
- Spill prevention and response procedures Areas where potential spills may occur, and
 their accompanying drainage points, shall be identified clearly in the SWPPP. Also,
 where appropriate, specify material handling procedures and storage requirements.
 Procedures for cleaning up spills shall be identified in the plan and made readily
 available to the appropriate personnel. The necessary equipment to implement a cleanup
 shall be available to personnel, including spill kits.

II.H.5. Record Keeping

The permittee shall retain all records required by this permit for a period of 3 years from the date permit coverage is terminated. This includes, but is not limited to:

- Personnel training records;
- Incident reports of spills, leaks and improper dumping;
- Field modifications;
- Inspection and maintenance records;
- Corrective action reports.

All SWPPPs required under this permit are considered reports that shall be available for review to the public under Section 308(b) of the CWA and WV Code 29B-1-1. The permittee may claim any portion of a SWPPP as confidential to the extent permissible by 47 C.S.R. 10-12.7. (NPDES Program).

All GPPs are considered reports and shall be made available as required by WV Code 29B1-1.

II.I. GROUNDWATER PROTECTION PLAN (GPP)

GPPs shall be prepared in accordance with the requirements of 47 C.S.R. 58-4.11. et seq. (Groundwater Protection Regulations). GPPs shall be submitted as required by 47 C.S.R. §4.12.e.l.

The GPP shall identify all operations that may reasonably be expected to contaminate groundwater resources with an indication of the potential for soil and groundwater

contamination from those operations. In addition, the GPP shall provide a thorough and detailed description of procedures designed to protect groundwater from the identified potential contamination sources. Guidance in the completion of a GPP is available from the DWWM.

<u>II.I.1.</u> The GPP shall be a stand-alone document and shall be submitted with the registration as such, rather than as a component of the SWPPP,

II.I.2. GPP Elements

The GPP shall include the following elements:

<u>II.I.2.a.</u> A description of the operations, processes and materials present at the facility that may affect or contaminate groundwater.

<u>II.I.2.b.</u> Procedures and containment facilities to protect groundwater resources from the potential contaminates listed above. These processes and facilities shall be identified on a facility map.

<u>II.I.2.c.</u> A GPP containing a Karst Mitigation Plan shall be submitted with applications for registration under this NPDES General Permit for all areas with Karst topography.

Procedures for protecting groundwater when designing and adding new equipment and operations. Adequate design of these operations should be considered in the GPP when making changes in areas of karst, wetlands, faults, subsidence, areas determined by the Bureau for Public Health to be delineated wellhead protection areas, or other areas determined by the Director to be vulnerable based upon geologic or hydrogeologic information.

• The permittee must revise the GPP within 30 calendar days to address any newly delineated areas or other vulnerable areas upon notification by the Director or the Bureau for Public Health.

<u>III.1.2.d.</u> A summary of activities presently regulated for groundwater protection. These may include: registration of above ground and underground storage tanks, required groundwater monitoring or the construction and use of a landfill and list any other permits, required spill prevention and response plans, registrations, certifications or approvals from agencies that regulate groundwater protection measures at the facility. These may include but are not limited to:

- Stormwater
- Solid Waste Facility
- Resource Conservation and Recovery Act (Hazardous Waste Treatment, Storage and Disposal or Transporter)
- UST Underground Storage Tank
- AST Above Ground Storage Tank
- CERCLA Superfund
- WV Voluntary Remediation Brownsfields
- FIFRA Federal Insecticide, Fungicide and Rodenticide Act

- Well Head Protection Program
- Underground Injection Control
- Toxic Substances Control Act
- Best Management Plans
- Management of used oil
- II.I.2.e. All available groundwater quality data for the facility as well as well locations or other sampling points.
- <u>II.I.2.f.</u> A statement documenting that waste materials will not be used for deicing, fill, or any other use, unless that use is allowed by regulation or permit.
- <u>II.I.2.g.</u> A training component wherein the applicant states that employees with the potential to pollute groundwater will be trained in prevention procedures.
- <u>II.I.2.h.</u> Documentation of quarterly inspections of the GPP elements by facility personnel are required. Documentation of this section must include a description of groundwater protection procedures and how control structures and devices are managed. Create and attach a copy of the facility's inspection form to the GPP.
- II.I.2.i. Safety data sheets for all chemicals, or substances, used or stored on site.
- <u>II.I.3</u>. The GPP shall be signed in accordance with Appendix A.7 and a copy retained onsite.

II.J. CONSISTENCY WITH OTHER PLANS

SWPPPs may reflect requirements for Spill Prevention Control and Countermeasure plans under section 311 of the CWA or any BMPs and GPPs pursuant to 47 C.S.R. 58 (Groundwater Protection Rule) or otherwise required by an NPDES permit. Incorporate any part of such plans into the SWPPP by reference.

PART III. REQUIREMENTS DURING CONSTRUCTION

During construction, the permittee is required to:

- Follow all approved plans, follow good housekeeping protocol, respond to and report spills and leaks;
- Ensure a Qualified Person conducts inspections to verify that the approved BMPs effectively protect water quality;
- Implement additional controls as needed to protect water quality;
- Update the SWPPP/GPP with the additional controls;
- Submit modifications to the approved plans to reflect the additional controls, and
- Stabilize disturbed areas.

III.A. COMPLY WITH APPROVED REGISTRATION

<u>III.A.1.</u> The permittee shall construct the project as described in the approved registration.

<u>III.A.2.</u> The permittee shall practice good housekeeping measures to maintain a clean and orderly project. This includes minimizing 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 stormwater.

<u>III.A.2.a.</u> The permittee shall implement spill and leak prevention practices in accordance with the approved plan and respond promptly when incidents occur. The necessary equipment to implement a cleanup shall be available on-site to personnel, including spill kits.

<u>III.A.3.</u> Except as noted below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has permanently ceased or 4 days for sites required to use enhanced BMP's.

- Where the initiation of stabilization measures by the 4th day, as applicable after construction activity temporarily or permanently ceases is precluded by natural causes, such as a drought or flood, stabilization measures shall be initiated as soon as conditions allow.
- Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (i.e., the total time period that construction activity is temporarily halted is less than 14 days) then stabilization measures do not have to be initiated on that portion of the site by the seventh day after construction activities have temporarily ceased.
- Areas where the seed has failed to germinate adequately (uniform perennial vegetative cover with a density of 70%) within 30 days after seeding and mulching must be reseeded immediately, or as soon as weather conditions allow.

III.B. INSPECTIONS BY QUALIFIED PERSON

The permittee shall ensure site inspections are conducted by a Qualified Person in accordance with this section. The purpose of the inspections is to ensure compliance with the approved plan, and when the approved plan is not effective at protecting water quality, the inspection is to document that plan improvements are needed.

<u>III.B.1.</u> The person(s) inspecting the site may be a staff person or a third party hired to conduct such inspections as long as they meet the definition of a Qualified Person. <u>III.B.2.</u> The site must be inspected as listed below, unless the site discharges to sensitive waters or the site qualifies for a reduction in the inspection frequency pursuant to III.B.2.b below:

• At least once every seven (7) calendar days and

• Within 24 hours of the occurrence of a precipitation event of 0.25 inches or greater, or the occurrence of runoff from snowmelt sufficient to cause a discharge.

<u>III.B.2.a.</u> An increase in inspection frequency is required for sites discharging to all waters except Tier 1.

For any portion of the site that discharges to a water that is classified as Tier 2 or Tier 3, or listed on the 303(d) list, inspections must be conducted in accordance with the following inspection frequencies:

- Once every four (4) calendar days, and
- Within 24 hours of the occurrence of a precipitation event of 0.25 inches or greater, or the occurrence of runoff from snowmelt sufficient to cause a discharge.

III.B.2.b. Reductions in inspection frequency may occur in accordance with the following:

Stabilized areas:

The permittee may reduce the frequency of inspections to twice per month, no more than 14 calendar days apart, in any area of the site where final stabilization has been completed. If construction activity resumes in this portion of the site at a later date, the inspection frequency immediately increases to that required previous to the reduced frequency. The beginning and ending dates of this period must be recorded in the inspection report.

Exceptions:

For "linear projects", where disturbed portions have undergone final stabilization at the same time active construction continues elsewhere, the permittee may reduce the frequency of inspections to twice per month no more than 14 calendar days apart, in any area of the site where the final stabilization has been completed. Inspect once more within 24 hours of the occurrence of a precipitation event of 0.25 inches or greater. If there are no issues or evidence of stabilization problems, further inspections may be suspended. If "wash-out" of stabilization materials and/or sediment is observed, following re-stabilization, the reduced inspection frequency is suspended.

Frozen conditions:

If the permittee suspends construction activities due to frozen conditions, inspections on the site may be temporarily suspended until thawing conditions begin to occur if:

• Runoff is unlikely due to continuous frozen conditions that are likely to continue at the site for at least three (3) months based on historic seasonal averages. If unexpected weather conditions (such as above freezing temperatures or rain events) make discharges likely, the permittee must immediately resume the regular inspection frequency as applicable;

• Land disturbances have been suspended and all disturbed areas of the site have been stabilized.

If still conducting construction activities during frozen conditions, the permittee may reduce the inspection frequency to once per month if:

- Runoff is unlikely due to continuous frozen conditions that are likely to continue at the site for at least three (3) months based on historic seasonal averages. If unexpected weather conditions (such as above freezing temperatures or rain events) make discharges likely, the permittee must immediately resume the regular inspection frequency; and
- Except for areas undergoing construction activities, disturbed areas of the site have been stabilized, the beginning and ending dates of this period must be documented in the inspection report.

<u>III.B.2.c.</u> For any day of rainfall during normal business hours that measures 0.25 inches or greater, the total rainfall measure for that day must be recorded.

To determine if a precipitation event of 0.25 inches or greater has occurred on the site, the permittee must either:

- Keep a properly maintained rain gauge on-site, or
- Obtain the precipitation event information from a NOAA weather station that is representative of the location.

III.B.2.d. Areas That Must Be Inspected

During the site inspection, the following *areas* of the site must be inspected:

- All areas that have been cleared, graded, or excavated and that have not yet completed stabilization;
- All stormwater controls (including pollution prevention controls) installed and procedures initiated must be listed in the inspection record;
- Material, waste, borrow, and equipment storage and maintenance areas that are covered by this permit;
- All areas where stormwater typically flows within the site, including drainageways designed to divert, convey, and/or filter stormwater;
- All points of discharge from the site;
- All receiving waters to look for sediment laden stormwater entering the waterbody; and
- All locations where stabilization measures have been implemented.

Areas that, at the time of the inspection, are considered unsafe to inspection personnel do not have to be inspected.

III.B.2.e. Requirements for Self-inspections

During the site inspection, the Qualified Person shall:

- Check whether all stormwater controls (i.e., erosion and sediment controls and pollution prevention controls) are properly installed, appear to be operational, and are working as intended to minimize pollutant discharges;
 - O This includes the requirement to inspect for sediment that has been tracked out from the site onto paved roads, sidewalks, or other paved areas.
- Check for the presence of conditions that could lead to spills, leaks, or other accumulations of pollutants on the site;
- Identify any locations where new or modified stormwater controls are necessary to protect waters of the state or meet other requirements of this NPDES General Permit;
- Check for signs of visible erosion and sedimentation (i.e., sediment deposits) that have occurred and are attributable to the discharge at points of discharge and, if applicable, the banks of any waters of the State flowing within or immediately adjacent to the site;
- Identify any incidents of noncompliance observed;
- If a discharge is occurring during the inspection:
 - o Identify all discharge points at the site; and
 - Observe and document the visual quality of the discharge and take note of the characteristics of the stormwater discharge, including color; odor; floating, settled, or suspended solids; foam; oil sheen; and other indicators of stormwater pollutants.

III.B.2.f. Self-inspection Report

An inspection report must be completed by the inspector within 24 hours of completing any site inspection. Each inspection report must include the following:

- The inspection date;
- Names and titles of personnel making the inspection;
- A summary of inspection findings, including the observations made during the inspections, and any necessary maintenance or corrective actions;
- A record of rainfall measuring 0.25 inches or greater and the source of the measurement (the applicable rain gauge or weather station readings); and
- If it was determined unsafe to inspect a portion of the site, describe the reason it was found it to be unsafe and specify the locations to which this condition applies.

Each inspection report must be signed in accordance with Appendix A.7 of this permit.

Each inspection report must be maintained at the site or at an easily accessible location, so that it can be made available at the time of an on-site inspection or upon request by the Director.

All inspection reports must be maintained for at least three (3) years from the date that permit coverage is terminated.

• The Qualified Person must re-inspect within 48 hours to verify repairs or replacements to the defective BMPs or pollution controls noted in the previous inspection.

III.B.2.g. Requirement to Correct Deficiencies

Based on the results of the inspection, the permittee must complete any necessary maintenance and corrective action within 24 hours.

The permittee shall have 24 hours after such notification to make changes relating to sediment and erosion controls to prevent loss of sediment from an active construction site, unless additional time is provided by the Director or an authorized representative in writing.

III.C. IMPLEMENT ADDITIONAL BMPS TO PROTECT WATER QUALITY

<u>III.C.1.</u> When an inspection indicates the BMPs are ineffective at protecting waters of the state, the permittee shall immediately implement additional controls and,

- Update the SWPPP and GPP to reflect the new BMPs, and
- Either obtain approval of the additional BMPs during a site visit conducted by the Director, or
- Submit a modification application in accordance with this permit.
- Permittees who find that the approved BMPs are ineffective at protecting receiving waters and who are unable to identify or employ BMPs capable of preventing sediment laden runoff from leaving the project site shall immediately cease further land disturbance until such time that the unauthorized discharge ceases.

No sediment-laden water shall be allowed to leave the site without going through an appropriate BMP.

<u>III.C.2.</u> The permittee shall modify the SWPPP, using forms provided by DWWM, whenever there is a change in design, construction, scope of operation, or maintenance of BMPs, which has the potential to adversely impact the surface waters of the State, or if the SWPPP proves to be ineffective in achieving the general objectives of controlling pollutants in stormwater discharges associated with construction activities. Should conditions warrant, the Director may request changes to the SWPPP during a field inspection. The Director may request, review and approve or require the permittee to apply for a modification to the approved application.

The permittee shall amend the GPP whenever there is a change in design, construction, operation, or maintenance of BMPs which could reasonably be expected to have an impact on the potential contamination of groundwater.

III.D. FEES

Permittees are required to pay annual permit fees within 30 days of receiving the invoice.

<u>III.D.1.</u> It is the responsibility of the permittee to keep the Director informed of accurate, up-to-date billing addresses and electronic addresses (email addresses) so that invoices may be delivered promptly and to the correct address.

<u>III.D.2.</u> Discharging stormwater from construction sites covered by this permit while failing to pay fees is considered operating without a permit.

<u>III.D.3.</u> Permittees must pay assessed fees until such time that the Director approves the Notice of Termination required by Part IV.

PART IV. REQUIREMENTS AFTER CONSTRUCTION

After construction is complete, the permittee is required to:

- Verify all disturbed areas are stabilized and permanent stormwater conveyances and management structures are properly constructed by having a Qualified Person confirm the site is ready for the Director to conduct the final inspection.
- Confirm all records required by this permit are available for retention for 3 years after permit coverage is terminated and make available when requested by the Director,
- Verify all fees are paid in full,
- Prepare and submit the Notice of Termination (N.O.T.)
 - o The permittee has the option of including a Stabilization Certification with the N.O.T.
- Continue to maintain permit coverage until notification from the Director that coverage is terminated.

IV.A. VERIFY ALL DISTURBED AREAS ARE STABILIZED

Sediment trapping structures shall be eliminated, and the area properly reclaimed and stabilized when the contributing drainage area is stabilized, and the structures are no longer needed, unless the structure is converted into a permanent stormwater control structure. This must be accomplished before the Notice of Termination is submitted.

- All trapped sediments shall be disposed on an upland area where there is no chance of entering nearby streams.
- Breaching the embankment to dewater the structure is not permitted. Dewatering and structure removal shall not cause a violation of water quality standards.
- Dewatering may not be done by pumping from a sump, trap, or basin directly into a stream. The dewatering description shall clearly show that only clarified water is

to be discharged to waters of the state and shall include the method to be employed to ensure sediment is not pumped or otherwise discharged.

IV.B. RECORDS INSPECTIONS

In accordance with II.H.5. verify records required by this permit are assembled and ready for retention.

IV.C. PREPARE FOR TERMINATION

IV.C.1.

From the date final stabilization is achieved, the permittee has 30 days to ready the site for submittal of N.O.T and by the 30th day must submit the N.O.T. via electronic notice of termination to the Director.

<u>IV.C.1.a.</u> An inspection by a Qualified Person shall be conducted wherein all areas of the project and all off-site areas impacted by the project are inspected for compliance with this permit. The Qualified Person shall conduct a review of the available records to verify compliance with the retention requirements of this permit.

<u>IV.C.1.b.</u> The Qualified Person shall issue a report to the permittee outlining any deficiencies to be corrected. The permittee shall correct deficiencies within 24 hours and request a re-inspection by the Qualified Person. Once an inspection identifies no deficiencies, the site may be considered ready for the submittal of the N.O.T.

<u>IV.C.1.c.</u> The permittee shall review the fee payment history and pay any unpaid fees during this 30-day period.

IV.D. TERMINATION OF COVERAGE

After meeting the requirements of Part IV.C., the permittee shall apply for termination of permit coverage by submitting an N.O.T., which will serve as a request for final inspection. Upon receipt of the N.O.T., the Director shall inspect the site to determine the appropriateness of ending permit coverage.

 $\underline{\text{IV.D.1.}}$ Final stabilization inspections for 1 to < 3 acres sites shall be conducted within 30 days of receipt of the N.O.T. and for sites 3 acres and larger the fmal stabilization inspection shall be conducted within 60 days.

<u>IV.D.2.</u> The permittee has the option of submitting a certification by a registered professional engineer or professional surveyor that the site meets stabilization requirements. Should the Director not inspect within the time frames established in this section, the Stabilization Certificate shall be accepted in lieu of the final inspection by the Director's staff.

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<u>IV.D.3.</u> ATV trails accepted by the landowner and identified in the registration, do not require a healthy, vigorous stand of grass or native vegetation that uniformly covers more than 70 percent of the ground in the vehicle lanes of the trail to be considered for termination. No eroded areas of trails that are the source of sediment in stormwater runoff may be deemed stable or eligible for release. A registration modification must be approved by the Director prior to submittal of the Notice of Termination and prior to registration expiration for ATV trails not previously identified by the permittee to be turned over to the landowner.

<u>IV.D.4.</u> Permit coverage for construction activities encompassed by this permit expires upon verification of satisfactory stabilization of the site and payment of all outstanding fees. Satisfactory stabilization means ALL disturbed areas shall be covered by some permanent protection. Stabilize includes pavement, compacted gravel, permeable pavements/pavers, buildings, waterways (riprap, concrete, grass, or pipe), a healthy, vigorous stand of grass or native vegetation that uniformly covers more than 70 percent of the ground, stable outlet channels with velocity dissipation which directs site runoff to a natural watercourse, and any other approved structure or material.

The herein-described activity is to be constructed or installed and operated, used and maintained strictly in accordance with the terms and conditions of this General Permit with any plans, specifications, and information submitted with the individual application form, with any plan of maintenance and method of operation thereof submitted and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this General Permit, with any plans, specifications and information submitted, and with any plan of maintenance and method of operation thereof submitted shall constitute grounds for the revocation or suspension of this permit to any individual establishment or other person and for the invocation of all the enforcement procedures set forth in Chapter 22, Articles 11 and 12 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 of the Code of West Virginia.

BY: Marchel W. Number

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Appendix A

I. STANDARD CONDITIONS

1. Duty to Comply

- (a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act (Chapter 22, Article 11 or Article 12) and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or denial of a permit renewal application.
- (b) The permittee shall comply with all applicable standards or prohibitions established under 40 C.F.R. 503 and Title 33 Series 2 within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. When to Apply

State NPDES rules require permit applications to be filed at least 180 days prior to the commencement of the activity. The DWWM is attempting, through this general permit process, to streamline the permitting of this activity. Therefore, projects which may potentially obtain coverage under this general permit and which submit complete application forms, shall make submission in accordance with ILA. prior to the anticipated date of discharge.

3. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit by submitting a General Permit registration as detailed in permit reissuance.

4. Duty to Mitigate

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

5. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit conditions.

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6. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

7. Signatory Requirements

All application, reports, or information submitted to the Director shall be signed and certified as required in 47 C.S.R. 10.4.6. (NPDES Program). If an authorization becomes inaccurate because a different individual or position has responsibility for the overall operation of the project, a new authorization must be submitted to the Director prior to, or together with any reports, information, or applications to be signed by an authorized representative.

8. Transfers

This permit is not transferable to any person, except after written notice to and written approval by the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary. Notice must contain the new owner's name and address.

9. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittees shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

10. Other Information

The permittee shall furnish to the Director any additional, practicable, site-specific information that is determined necessary to protect water quality or has the potential to protect water quality. Where the permittee becomes aware that he/she has failed to submit any relevant facts in a facility registration application form or submitted incorrect information in a facility registration application form or in any report to the Director, he/she shall promptly submit omitted/corrected facts or information.

11. Endangered and Threatened Species and State Historic Preservation Officer

If a site discharges to a stream where a federally endangered or threatened species or its critical habitats are present, the applicant must contact the U.S. Fish and Wildlife Service to ensure that requirements of the federal Endangered Species Act, 16 U.S.C. 1531 et. seq. is met

For those projects that may impact historic preservation sites, the permittee shall coordinate the project with the State Historic Preservation Officer.

12. Inspection and Entry

The permittee shall allow the EPA, Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- a) Enter upon the permittee's premises in which any storage, treatment or activity is located, or where records must be kept under the conditions of this permit;
- **b)** Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
- c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- **d)** Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by 47CSR10, any substances or parameters at any locations.

13. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22, Article 11 of the Code of West Virginia.

Any permittee wishing to modify his coverage for a Large Construction Activity shall submit such request at least 60 days prior to the commencement of the proposed action for modification if no public notice period is required. A modification that requires a public notice period must be submitted at least 100 days prior to construction to allow for the public notice procedure.

Any permittee wishing to modify his coverage tor a Minor Construction Activity shall submit such request at least 30 days prior to the commencement of the proposed action for modification if no public notice period is required. A modification that requires a public notice period must be submitted at least 60 days prior to construction to allow for the public notice procedure.

14. 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 under Section 311 of the CWA.

15. Outlet Markers

In accordance with Title 47, Series 11, Section 9 (Special Rules) of the West Virginia Legislative Rules, an outlet marker shall be posted on the stream bank for each outlet covered by this permit

16. Water Withdrawal

If water for hydroseeding, dust control, or hydrostatic testing is to be derived from waters of the state, withdrawals shall only be made during times when stream flow is sufficient to support both aquatic life and the withdrawal. During periods of active withdrawal, the permittee and/or operator shall consult DWWM's Water Withdrawal Guidance Tool daily and document the recommendations. This documentation shall be maintained by the permittee and made available for inspection. Withdrawals shall only be taken when the tool indicates that it is safe by the statement "it should be safe to withdraw from any stream in the area". Use of the tool in itself does not guarantee protection of aquatic life and best professional judgment must still be used when making withdrawals, as the tool cannot account for all localized conditions and may not react to the withdrawal dependent on its proximity to the stream gage. The tool provides useful information on general stream flow adequacy to assist the permittee with withdrawal decisions. The tool may be found at the following link:

http://www.dep.wv.gov/WWE/wateruse/Pages/WaterWithdrawal.aspx.

17. Liabilities

17.a. Any person who violates a permit condition is subject to a civil penalty not to exceed \$25,000 per day of such violation as provided in W. Va. Code § 22-11-22. Any person who willfully or negligently violates permit conditions is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both, as provided in W. Va. Code §22-11-24.

17.b. Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both, in accordance with W. Va. Code § 22-11-24.

17.c. Nothing in 17.a. and 17.b. shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11 and State Groundwater Protection Act, Chapter 22, Article 12.

18. Reopener Clause

If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge authorized by this General Permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative General Permit in

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accordance with Section I.E. of this General Permit or the General Permit may be modified to include different limitations and/or requirements.

The conditions, standards, and limitations of this General Permit shall be reviewed at the time of reissuance for possible revisions that may lead to more or less stringent conditions, standards, and limitations.

Appendix B

I. OPERATION AND MAINTENANCE

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all activities and BMPs which are installed or used by the permittee to achieve compliance with the terms and conditions of the permit.

2. 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 to maintain compliance with the conditions of this permit.

- 3. Bypass
- 3.a. Definitions
- 3.a.1. "Bypass" means the intentional diversion of waste streams from any portion of a BMP; and
- 3.a.2. "Severe property damage" means substantial physical damage to property, damage to BMPs which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 3.b. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Appendix B 3.c. and 3.d. of this permit.
- 3.c. Notification of bypass
- 3.c.1. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the date of the bypass.
- 3.c.2. If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in E.2. of Part I of this permit.
- 3.d. Prohibition of bypass

- 3.d.1. Bypass is permitted only under the following conditions. The Director may take enforcement action against a permittee for bypass, unless;
- 3.d.l.A. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- 3.d.1.B. There were no feasible alternatives to the bypass, such as the use of auxiliary BMPs, retention of untreated sediment, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance. This condition is not satisfied if the sediment and erosion control structures were not installed in the proper sequence; and
- 3.d.1.C. The permittee submitted notices as required under Appendix B 3.c. of this permit.
- 3.d.2. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in Appendix B 3.d.1. of this permit.

4. Upset

- 4.a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with the technology-based permit effluent limits or failure of a BMP that occurs because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- 4.b. Effect of an upset. An upset constitutes an affirmative defense to an action brought for temporary noncompliance with the terms and conditions of the penult and the SWPPP if the requirements of Appendix B 4.c. are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- 4.c. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
- 4.c.1. An upset occurred, and that the permittee can identify the cause(s) of the upset.
- 4.c.2. The permitted project was at the time being properly operated.
- 4.c.3. The permittee submitted notice of the upset in accordance with Part I.D.2.; and

- 4.c.4. The permittee complied with any remedial measures required under Appendix A 4 of this permit.
- 4.d. Burden of proof. In any enforcement proceedings, the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

From time to time incidents occur on construction sites that cause materials to be removed. Soils or stormwater affected by fuel spills or other substances may require special handling and disposal. Such shall be disposed of only in a manner and at a site subject to the approval by the Director.

Sediment removed from a trapping device or from a stream, lake or river after deposition by stormwater runoff from a construction related activity shall be removed in a manner consistent with local, state and federal guidelines and placed behind sediment trapping BMPs in a manner that prevents erosion.

Appendix C

I. Definitions:

- 1. "Access Road" means surface right-of-way for purposes of travel by land vehicles and/or equipment used in Construction activities. A road consists of the entire area within the right-of-way, including the roadbed, shoulders, parking and side areas, approaches, ditches, and other related structures. The term includes access roads constructed, used, reconstructed, improved, or maintained for use in all construction operations.
- 2."Application" is the form to be submitted to register a construction project that discharges to sensitive waters.
- **3.** "Best management practices" (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, other management practices and various structural practices such as but not limited to silt fence, sediment traps, seeding and mulching, and rip-rap used to prevent or reduce erosion and sediment runoff and the pollution of surface waters of the State. BMPs also include treatment requirements, operating procedures and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
- **4.** "Clearing" means the stage of development in which vegetation is cleared from land. Clearing includes cutting and removing vegetation with chain saws, brush axes, brush hogs and other mechanical means where no soil is disturbed.
- **5.** "Clean Water Act" (CWA) (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Public Law 92-500, as amended by Public Law 95-217, Public Law 97-117 and Public Law 95-576; 33 U.S.C. 1251 et seq.
- **6.** "Common Plan of Development" is a contiguous construction project where multiple separate and distinct construction activities may be taking place at different times on different schedules but under one plan. The "plan" is broadly defined as any announcement or piece of documentation or physical demarcation indicating construction activities may occur on a specific plot; included in this definition are most subdivisions.
- 7. "Control" is a best management practice such as erosion control or sediment control that will reduce sedimentation on a construction project.
- **8.** "Construction Activity" means land disturbance operations such as clearing, and grubbing, grading, filling, and excavating during site development for residential, commercial or industrial purposes. This includes, but is not limited to, access roads, borrow and spoil areas.

- 9. "Detailed Site Plan" is a design plan drawing of sufficient scale to depict proposed construction activity, surface drainage patterns, erosion and sediment control best management practices, limits of disturbance boundary, north arrow with drawing oriented north, and containing surface contours on minimum 5-foot contours.
- 10. "Director" means the Director of the Division of Water and Waste Management, Department of Environmental Protection, or his or her designated representative.
- 11. "Disturbed Area" is the total area of land disturbing activity that will take place during all phases of a construction project, including, but not limited to, all waste and borrow sites, utility installation, road building, mass grading, and site development.
- 12. "Diversion" means a stabilized berm or stabilized excavated channel or combination berm and channel constructed across sloping land on a predetermined grade. This includes but is not limited to protecting work areas from upslope runoff and reducing the size of the drainage going to sediment trapping structures (clean water diversion), transporting runoff across a project to minimize erosion and diverting sediment-laden water to an appropriate sediment-trapping structure.
- 13."Electronic Submission System (ESS)" refers to the online interactive application registration submittal, review and approval system authorized by the Director.
- 14."Enhanced BMPs" means activity schedules or sediment and erosion controls that are more protective of the environment than those routinely employed to quality for coverage under this permit. Use of such practices apply when disturbed areas discharge to Tier 2 and Tier 3 Waters, or to state waters for which a sediment related TMDL has been approved.
- 15."Erosion" means the displacement of solids (soil, mud, rock, and other particles) by the agents of wind, water, and ice in response to gravity.
- 16."Establishment" means an industrial establishment, mill, factory, tannery, paper and pulp mill, mine, colliery, breaker or mineral processing operation, quarry, refinery, well and each and every industry or plant or works in the operation or process of which industrial wastes, sewage or other wastes are produced.
- 17."Estimate" means to be based on a technical evaluation of the sources contributing to the discharge.
- 18. "Evaluation Point" means the point where the majority of the surface storm water leaves a permitted site.
- 19."Excavating" means to engage in digging, hollowing out, or removing, accomplished usually with heavy machinery.

- 20."Final stabilization" means long-term stability of soil and rock against slides, slips, erosion and mudflows by covering disturbed areas with permanent protection such as pavement, compacted gravel, permeable pavements/pavers, buildings, stable waterways (riprap, concrete, grass or pipe), a healthy, vigorous stand of grass or natural vegetation that uniformly covers at least 70 percent of the ground, stable outlet channels with velocity dissipation that directs site runoff to a natural watercourse, and any other approved structure or material.
- 21."Grading" means disturbing the surface of the land, including land clearing and grubbing, excavations, creating embankments, land development, road upgrade, cut and/or fill operations, and the moving, depositing, stockpiling or storing of soil, rock, or earth materials.
- 22."Groundwater" means the water occurring in the zone of saturation beneath the seasonal high-water table or any perched water zones.
- 23."Groundwater Protection Plan" (GPP) means groundwater protection practices developed and implemented in accordance with WV Legislative Rules, 47 C.S.R. 58 (Groundwater Protection Rule), submitted as part of the Application.
- 24."Grubbing" means physically removing vegetative stumps and roots from the ground and disturbing the earth, usually by heavy machinery.
- 25."Inlet Protection" means a sediment filter or an impounding area around or upstream of a storm sewer, drop inlet, or curb inlet which allows sediment to settle out prior to stormwater entering the inlet.
- 26. "Impaired Streams" means waters that do not meet applicable water quality standards and are listed on the Clean Water Act Section 303(d) list.
- 27."Large Construction Activity" mean an activity which disturbs 3 or more acres of land.
- 28. "Landowner requested trails" refers to a trail the landowner deems desirable as a post-construction accessway to portions of the released site, hereinafter called ATV (All-Terrain Vehicle) Trails.
- 29. "Limits of Disturbance" is a polygon shown on a map or site drawing depicting the boundary of the construction site to be disturbed.
- 30."Minor Construction Activity" means an activity which disturbs one to less than three acres of land and does not discharge to sensitive waters.
- 31. "National Pollutant Discharge Elimination System" (NPDES) means the national program for issuing, denying, modifying, revoking and reissuing, suspending, revoking,

monitoring and enforcing permits, and imposing and enforcing pretreatment requirements under Section 307, 318, 402, and 405 of CWA, including any approved state program.

- 32."Natural Vegetative Buffer" is an area of undisturbed vegetation that occurs spontaneously without regular maintenance or management and is adjacent to or surrounds streams or other waters.
- 33."Notice of Termination" (NOT) is the form to be submitted by the permittee to terminate coverage under the Construction General Stormwater Permit, after final stabilization has been completed. See Final Stabilization.
- 34."Point Source" is any discernible, confined and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, and container from which pollutants are or may be discharged to surface waters of the state.
- 35."Pollutant" means industrial waste, sewage or other wastes.
- 36."Pre-development" means the condition of the land, the amount and health of the ground cover and vegetation prior to development.
- 37."Qualified Person" means a person who is knowledgeable in the principles and practices of sediment and erosion controls, pollution prevention, and possesses the education and abilities to assess conditions at the proposed site that could impact stormwater quality and to assess the effectiveness of proposed stormwater controls to meet the requirements of this permit.
- 38. "Satisfactory Stabilization": means a condition where exposed soils or disturbed areas are provided temporary vegetative and/or non-vegetative protective cover to prevent erosion and sediment loss. Satisfactory stabilization may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re-disturb this area.
- 39."Sediment" means any particulate matter that can be transported by fluid flow and which eventually is deposited as a layer of solid particles on the bed or bottom of a body of water or other liquid.
- 40."Sedimentation" means the deposition by settling of a suspended material.
- 41."Sediment trap" means a temporary ponding area formed by constructing an embankment or excavation and embankment that will trap the flow of sediment-laden runoff. Sediment traps have a properly stabilized outlet/weir or riser and pipe to detain sediment laden runoff from disturbed areas of five acres or less. Outlets must be designed to extend the detention time and allow the majority of the sediment to settle out.

- 42."Sediment basin" means a temporary structure consisting of an earthen embankment, or embankment and excavated area, located in a suitable area to capture sediment-laden runoff from a construction site. A sediment basin reduces the energy of the water through extended detention (48 to 72 hours) to settle out the majority of the suspended solids and sediment and prevent sedimentation in waterways, culverts, streams and rivers. Sediment basins have both wet and dry storage space to enhance the trapping efficiency and are appropriate in drainage areas of five acres and greater.
- 43. "Sensitive waters" means Tier 2 and Tier 3 Streams, trout streams, or water bodies with an established sediment related TMDL.
- 44."Sinkhole" means a depression in the land surface formed by solution or collapse that directs surface runoff into subsurface or to an underground drainage flow.
- 45."Stormwater" means stormwater runoff, snowmelt runoff, and surface runoff and drainage.
- 46."Stormwater Pollution Prevention Plan" (SWPPP) means a site-specific, written document that, among other things: (1) identifies potential sources of stormwater pollution at the construction site; (2) describes stormwater controls to reduce or eliminate pollutants in stormwater discharges from the construction site; and (3) identifies procedures the operator will implement to comply with the terms and conditions of this general permit.
- 47. "Tier 1 Waters" means waters that maintains and protects existing uses of a water body and the water quality conditions necessary to support such uses. A waterbody that is listed as impaired on the states 303(d) list is considered a Tier 1 water as it pertains to the specific pollutant listed.
- 48. "Tier 2 Waters" means waters that maintains and protects "high quality" waters water bodies where the level of water quality exceeds levels necessary to support recreation and wildlife and the propagation and maintenance of fish and other aquatic life. Tier 2 is the default assignment for a waterbody not listed as impaired on the states 303(d) list.
- 49."Tier 3 Waters" means waters as otherwise identified in 47 C.S.R. 2-4.1.c. (Requirements Governing Water Quality Standards).
- 50."Total Maximum Daily Load (or TMDL)" is a term in the Clean Water Act that establishes the maximum amount of a pollutant allowed in a waterbody and serves as the starting point or planning tool for restoring water quality.
- 51. Trout Streams Waters which sustain year-round trout populations. Excluded are those waters which receive annual stockings of trout, but which do not support year-round trout

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populations. Waters which meet the definition of 47 C.S.R. 2-2.19 (Requirements Governing Water Quality Standards).

- 52."Water Quality Standards" are the foundation of the water quality-based control program mandated by the Clean Water Act.
- 53."1-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable recurrence interval of once in one year.
- 54."2-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable recurrence interval of once in two years.
- 55."10-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable recurrence interval of once in 10 years.
- 56. "25-year, 24-hour precipitation" means the maximum 24-hour precipitation event with a probable recurrence interval of once in 25 years.

APPENDIX C

Site Information

Content: 1. General Description Sheet

- 2. Schedule Sheet for Soil Disturbing Activities
- 3. Soil Data Sheet
- 4. Erosion and Sediment Control Site Map
- 5. Erosion and Sediment Control Plan
- 6. Design Sheets
- 7. Design Calculations
- 8. Revegetation Plan
- 9. Stabilization Practice Schedule
- 10. Structural Control Sheet
- 11. Construction Site Inspection Report

Erosion and Sedimentation Best Management Practices 18" filter sock Super silt fence Corrugated metal fencing Armored outlets Green space buffers Routine inspection of BMPs Other: Filter fabric Other: Re-seeding and fertilizing disturbed areas. Other: Double Row Silt Fence

General Description Sheet

ption of Project:	 	
	 	

CONTRACT #1 - Dutch Ridge Water Line Replacement: Replacement of approximately 980 LF of 8", 18,090 LF of 6",60 LF of 4", and 150 LF of 2" water line, 34 gate valve and boxes, 6 fire hydrants, 277' highway boring, 2,135' of horizontal directional drills, 96 service reconnect, 21 cut and cap existing main, and 17 tie in to existing mains; and other work required to provide a complete operating water system.

Schedule Sheet for Soil Disturbing Activities

Estimate Construction Start Date:	
Estimate Construction End Date:	

Activity	Estimated Time	Actual Time
Install BMPs		
Land clearing		
Grading		
Excavation		
Filling		
Utilities		
Install foundations, retaining walls, etc		
Paving		
Revegetation		
BMP Removal		

Install erosion control facilities and devices, strip and stockpile topsoil, commence excavation, install bedding (if required), install pipe, backfill, restore surface with topsoil, lime, fertilizer, seed, and mulch. Surface restoration must be done within 4 days of commencing excavations. Maintain erosion control measures until vegetative cover is established. Open trenches to be sufficient in advance of pipe laying to expose any obstructions that might alter alignment or grade, but not more than can be backfilled at the end of the work day, or 200 foot, whichever is less. No trench will be left open overnight.

Soil Data Sheet

Pre-construction runoff coefficient:				
Post-construction runoff coefficient:				
Runoff Coefficient: High: 70-100% impervious (example: asphalt, buildings, paved surfaces) Medium: 40-70% impervious (example: packed soils) Low: 0-40% impervious (example: grassy areas)				
Description of soil type:				

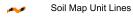


Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



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 SpotSandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

LOLIND

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: Wood and Wirt Counties, West Virginia Survey Area Data: Version 18, Sep 4, 2023

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

Date(s) aerial images were photographed: Oct 9, 2020—Oct 14, 2020

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MnB	Monongahela and Tilsit silt loams, 3 to 10 percent slopes	0.4	47.9%
MnC	Monongahela and Tilsit silt loams, 10 to 20 percent slopes	0.3	38.2%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.1	14.0%
Totals for Area of Interest	· ·	0.8	100.0%

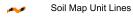


Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



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 SpotSandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

LOLIND

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

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MnB	Monongahela and Tilsit silt loams, 3 to 10 percent slopes	0.1	5.9%
MnC	Monongahela and Tilsit silt loams, 10 to 20 percent slopes	0.6	42.9%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.7	51.3%
Totals for Area of Interest		1.4	100.0%

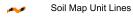


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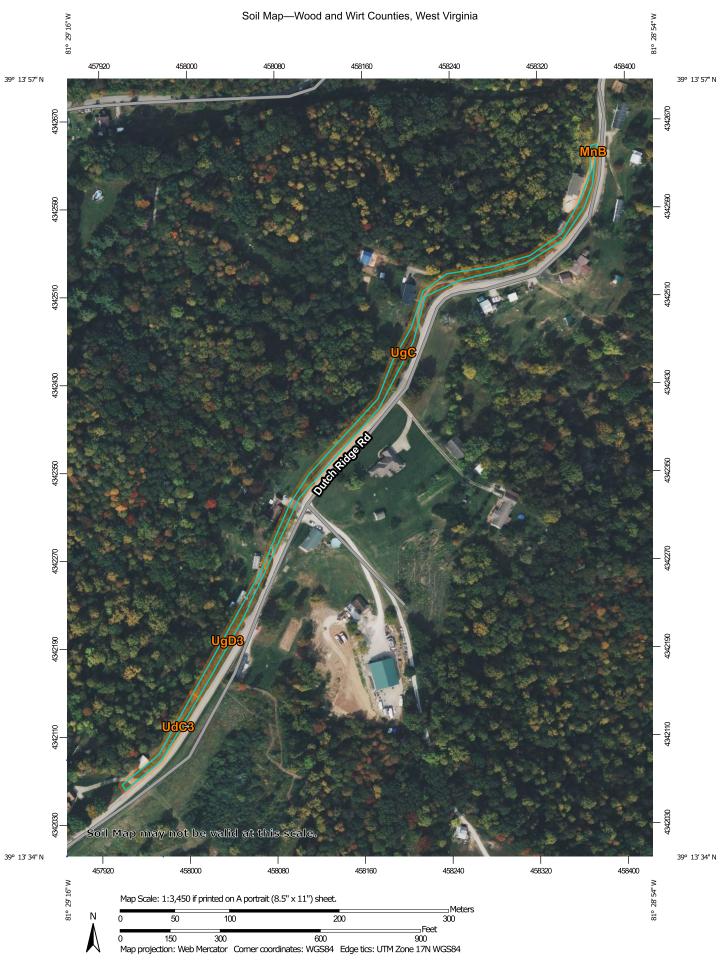
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MnC	Monongahela and Tilsit silt loams, 10 to 20 percent slopes	0.2	16.3%
UdC3	Upshur silty clay, 10 to 20 percent slopes, severely eroded	0.3	23.5%
UgC3	Upshur-Gilpin silt loams, 8 to 15 percent slopes, severely eroded	0.6	44.7%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.2	15.5%
Totals for Area of Interest	· ·	1.4	100.0%

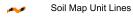


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UdC3	Upshur silty clay, 10 to 20 percent slopes, severely eroded	0.1	13.3%
UgC	Upshur-Gilpin silt loams, 8 to 15 percent slopes	0.7	67.3%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.2	17.9%
Totals for Area of Interest	,	1.1	100.0%

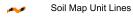


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UgC	Upshur-Gilpin silt loams, 8 to 15 percent slopes	0.2	17.6%
UgC3	Upshur-Gilpin silt loams, 8 to 15 percent slopes, severely eroded	0.4	36.0%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.3	29.5%
Totals for Area of Interest	1	1.0	100.0%

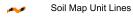


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MnC	Monongahela and Tilsit silt loams, 10 to 20 percent slopes	0.6	56.4%
UgC3	Upshur-Gilpin silt loams, 8 to 15 percent slopes, severely eroded	0.2	17.7%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.3	25.9%
Totals for Area of Interest		1.1	100.0%

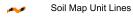


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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
Ма	Made land	0.0	2.2%	
MnC	Monongahela and Tilsit silt loams, 10 to 20 percent slopes	0.5	23.8%	
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	1.2	56.2%	
UgE3	Upshur-Gilpin silt loams, 25 to 35 percent slopes, severely eroded	0.4	17.8%	
Totals for Area of Interest		2.1	100.0%	



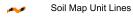
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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UgC3	Upshur-Gilpin silt loams, 8 to 15 percent slopes, severely eroded	0.2	43.7%
UgD3 Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded		0.2	56.3%
Totals for Area of Interest		0.4	100.0%



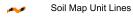
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Ма	Made land	0.1	21.8%
UgC3	Upshur-Gilpin silt loams, 8 to 15 percent slopes, severely eroded	0.0	3.4%
UgD3	Upshur-Gilpin silt loams, 15 to 25 percent slopes, severely eroded	0.2	27.9%
UgE3	Upshur-Gilpin silt loams, 25 to 35 percent slopes, severely eroded	0.3	43.6%
VaD3	Vandalia silty clay loam, 20 to 30 percent slopes, severely eroded		
Totals for Area of Interest		0.6	100.0%

Insert Erosion and Sediment Control Site Development Maps

Insert Erosion and Sediment Control Plan

SPILL PREVENTION, CONTROL & CONTAINMENT NOTES

The Contractor shall provide means to handle spills and waste material disposal. This shall include but not be limited to the following:

- 1) A containment dike shall be provided around any on-site fuel storage tanks. It shall have a capacity of 110% of the size of the storage tank.
- 2) Absorbent pads shall be available on-site for petroleum spills or leaks on ground. Absorbent booms shall be provided for spills in streams.
- 3) Excess concrete shall not be disposed of near streams. Any excess concrete will be taken off site by the concrete supplier.
- 4) Sanitary facilities shall be maintained by the provider, with cleaning and waste disposal on a weekly basis.

EROSION AND SEDIMENT CONTROL DESCRIPTION

- 1) All stream activities will take place during periods of low flow.
- 2) No work shall be performed on the stream crossings during fish spawning season (April June).
- 3) Sediment and erosion control structures shall be maintained for the duration of the project. Torn or deteriorated materials shall be replaced immediately. All erosion and sediment control devices shall be removed when the area is stabilized. All erosion and sediment control devices to be inspected, at a minimum, of once every four calendar days and within 24 hours after any storm event greater than 0.25 inches per 24 hour period.
- 4) Sediment build-up shall be removed when it reaches half of the storage volume provided by the control.
- 5) Excavations across streams shall be made using diversion walls and flume pipe. Refer to the construction drawings for details and locations.
- 6) Pumps used for dewatering shall be provided with inlet screens or filters to reduce sucking mud. Pumped water shall be directed to a dewatering bag before being released into the stream.
- 7) Stream banks disturbed during installation of the pipe must be reshaped and stabilized with appropriate material the same day the backfill is completed.
- 8) Stream bed smoothing should be kept to a minimum.
- 9) Any areas which cannot be restored to final/finished grade within four (4) days will be temporarily mulched and seeded.
- 10) Slopes with a grade of 2:1 or greater shall be covered with an establishment blanket.
- 11) Refer to the attached specifications (Section 02936) for additional seeding details.

Insert Design Sheets

Claywood Park Public Service District Miscellaneous Water System Improvements - Phase II

CL20-41W

DISTURBED AREA

CONTRACT #1 - DUTCH RIDGE WATER LINE REPLACEMENT

Item Description	Unit	Length
8" Water Line Piping	If	980
6" Water Line Piping	lf	18,090
4" Water Line Piping	lf	60
2" Water Line Piping	lf	150
Directional Drilling	lf	-710
Borings	lf	-277
Total Length		18,293
		6 ft/lf
DISTRURBED AR	EA	109,758 sq ft
Sq Ft (1) Acre		43,560
Total Acres Disturbed		2.52 acres

Insert Design Calculations

Insert Revegetation Plan

SECTION 02936

SEEDING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Seeding and fertilizing.
- B. Seed protection on slopes.
- C. Maintaining seeded areas until acceptance.

1.02 DELIVERY, STORAGE AND HANDLING

- A. Deliver grass seed in original containers showing analysis of seed mixture, percentage of pure seed, year of production, net weight, date of packaging and location of packaging. Damaged packages are not acceptable.
- B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

1.03 EXISTING CONDITIONS

A. Beginning work means acceptance of existing conditions.

PART 2 PRODUCTS

2.01 GROWING MEDIA

- A. Imported Topsoil: Natural, fertile, agricultural soil typical of locality, capable of sustaining vigorous plant growth, from well drained site free of flooding, not in frozen or muddy condition, not less than 10% organic matter. Free from subsoil, slag, clay, stones, lumps, live plants, roots, sticks, crabgrass, coughgrass, noxious weeds and foreign matter.
- B. Existing Topsoil: Natural, fertile agricultural soil capable of sustaining vigorous plant growth, not in frozen or muddy condition, containing not less than 10% organic matter. Free from subsoil, slag, clay, stones, lumps, live plants, roots, sticks, crabgrass, noxious weeds, and foreign matter.
- C. Peatmoss: Horticultural Grade Class A decomposed plant material, elastic and homogeneous. Free of decomposed colloidal residue, wood, sulphur, and iron. Peatmoss: pH

value of 5.9 to 7.0, 60% organic matter by weight, moisture content not exceeding 15% and water absorption capacity of not less than 300% by weight on over dry basis.

- D. Sand: Hard, granular natural beach sand, washed, free of impurities, chemical or organic matter.
- E. Fertilizer: 10-20-10, commercial type with 50% of the elements derived from organic sources.
- F. Lime: Used to correct pH of soil to the range of 6.0 to 6.5 pH.

2.02 SEED

- A. Seed Mixture A: 40 Percent Kentucky Blue grass, 40 per cent Creeping Red Fescue, and 20 percent Pennlawn Fescue.
- B. Seed Mixture B: 70% orchard grass, 20% Bird's foot Trefoil, and 10% White Ladino Clover. Include specific inoculation for the trefoil and clover.
- C. Seed Mixture C: Mixture to match existing growth if requested by property owner.
- D. Seed Mixture D: Temporary Seeding (areas which cannot be permanently seeded within 21 days) rye (grain), 120 lbs. per acre, or mulch, 2 to 3 tons per acre in lieu of seeding.

2.03 ACCESSORIES

- A. Mulching Material: Oat or wheat straw, reasonably free from weeds, foreign matter detrimental to plant life, and in dry condition. Hay or chopped cornstalks is not acceptable except for woodland seeding.
- B. Establishment Blanket: Uniform, open weave jute matting; erosion control mulching fabric consisting of knitted construction of yarn interwoven with strips of biodegradable paper; or organic fiber protective fiber mat consisting of half-inch layer of chopped straw, knitted into mat with thin netting of biodegradable polypropylene.

PART 3 EXECUTION

3.01 PREPARATION

- A. Grade to eliminate rough spots and low areas where ponding may occur. Maintain smooth, uniform grade.
- B. Assure positive drainage away from structures.
- C. Finish ground level firm and sufficient to prevent sinkage pockets when irrigation is applied.

3.02 SPREADING TOPSOIL

- A. Lawns: Use existing topsoil. If additional topsoil is required, imported topsoil is to be used. When suitable topsoil is not available a growing medium consisting of 50% peatmoss, 40% horticultural grade vermiculite, and 10% sand with 1 pound of 10-10-10 fertilizer per 100 cubic feet may be used.
- B. Fields and woodlands: Use existing topsoil.
- C. Seed Bed Cultivation: Spread and cultivate topsoil to depth of 6 inches over area to be seeded. Place during dry weather, and on dry unfrozen subgrade. Rake until surface is smooth.
- D. Remove from site, foreign materials collected during cultivation.
- E. Grade to eliminate rough spots and low areas where ponding may occur. Maintain smooth, uniform grade.
- F. Assure positive drainage away from structures.
- G. Finish ground level firm and sufficient to prevent sinkage pockets when irrigation is applied.

3.03 FERTILIZING

- A. Apply fertilizer, at a rate of 1,000 lbs. per acre (23 lbs. per 1,000 sq. ft.).
- B. Apply lime at a rate of 2 tons per acre (92 lbs. per 1000 sq. ft.). Apply lime after the fertilizer has been applied and before the grass seed, not at the same time.

3.04 SEEDING

A. Apply Seed Mixture A or C at a rate of 200 lbs. per acre (4-1/2 lbs. per 1,000 sq. ft.) evenly in two intersecting directions. Rake in lightly.

- B. Do not sow immediately following rain, when ground is too dry, or during windy periods.
- C. Immediately following seeding and compacting, apply mulch to a thickness of 1/8 inch. Maintain clear of shrubs and trees.

3.05 SEEDING FIELDS AND WOODLANDS

- A. Apply Seed Mixture B or C at a rate of 100 lbs. per acre (2 lb. per 1,000 sq. ft.) evenly in two intersecting directions. Rake in lightly.
- B. Do not sow immediately following rain, when ground is too dry, or during windy periods.
- C. Apply mulch at a rate of 2 tons per acre (92 lbs. per 1000 sq. ft.).

3.06 SEED PROTECTION ON SLOPES

- A. Cover seeded slopes where grade is 2:1 or greater with establishment blanket. Roll blanket down over slopes without stretching or pulling.
- B. Lay blanket smoothly on soil surface, burying top end of each section in narrow trench, 6 inches deep. Leave 12 inches overlap from top roll over bottom roll. Leave 4 inches overlap over adjacent section.
- C. Staple outside edges and overlaps at 36 inch intervals.
- D. Lightly dress slopes with topsoil to ensure close contact between blanket and soil.
- E. In ditches, unroll blanket in direction of flow. Overlap ends of strips 6 inches with upstream section on top.

3.07 MAINTENANCE

- A. Maintain surfaces and supply additional topsoil where necessary, including areas affected by erosion.
- B. Water where required to ensure uniform seed germination and to keep surface of soil damp.
- C. Apply water slowly so that surface of soil will not puddle and crust.

- D. Replant damaged grass areas showing root growth failure, deterioration, bare or thin spots, and eroded areas.
- E. Control growth of weeds in lawns. Apply herbicides in accordance with manufacturer's instructions. Remedy damage resulting from improper use of herbicides.

3.08 RESTORATION

A. Restore pavement, concrete, grassed areas, planted areas and structures damaged during execution of work of this section.

3.09 ACCEPTANCE

A. Seeded areas will be accepted at end of maintenance period when seeded areas are properly established and otherwise acceptable.

END OF SECTION

Stabilization Practice Schedule

Stabilization Practices	Location	Time Frame*

^{*} Time Frame: Includes dates of major grading activities, dates when construction activities temporarily or permanently ceases on a portion of the site, date when stabilization measures are initiated.

Structural Control Sheet

Address:	

Structural Control Selected	Rational

INSPECTION REPORT

Address:			· · · · · · · · · · · · · · · · · · ·
Date:			
Inspector/Title:			
Erosion and Se Control Mea		Satisfactory Yes/No	Comments
			ng Yes, No
			ng. Yes, No
Disturbed Area(s):	BMPs are	in place and worki	ng. Yes, No
Corre	ctive Action	1	

Summary of Findings:

Non-Compliance Issues:	
Site is in Compliance Yes	No
"I certify under penalty of law that this document a direction or supervision in accordance with a syst properly gather and evaluate the information subresons who manage the system, or those person information, the information submitted is, to the beand complete. I also certify that a storm water poconstruction and post construction controls, has been permit and that such plan complies with approved plans or permits and/or storm water management submittal of the Site Registration Application is deligibility under one or more of the requirements of Endangered Species Act requirements. To the bedischarges and discharge related activities will not for listing on the National Register of Historic Placor are otherwise eligible for coverage under the penalties for submitting false information, including knowing violations."	em designed to assure that qualified personnel mitted. Based on my inquiry of the person or ans directly responsible for gathering the est of my knowledge and belief, true, accurate, ellution prevention plan, including both been prepared for the site in accordance with the distance. Tribal and/or local sediment and erosion a plans or permits. I am aware that signature and beemed to constitute my determination of the permit Appendix A.I.11., related to the est of my knowledge, I further certify that such out have an effect on properties listed or eligible does under the National Historic Preservation Act, ermit. I am also aware that there are significant
Name and Title	Telephone Number
Signature	Date