



POLLUTANT REDUCTION PLAN (PRP) / TMDL PLAN FINAL REPORT

Before completing this report please review the instructions, which are located within the Annual MS4 Status Report Instructions (3800-FM-BCW0491)

PRP / TMDL PLAN SUMMARY

Permittee Name: Borough of West Mayfield Permit No.: PAG136260

☒ PRP ☐ TMDL Plan ☐ Combined PRP / TMDL Plan

Plan Approval Date: 8/24/2018 Required Completion Date: 8/31/2023

Joint Plan? ☐ Yes ☒ No *If Yes, identify all participating permittees as an attachment to this report*

Surface Waters Addressed by Plan: Walnut Bottom Run

Permittee's Planning Area (acres): _____ Total Planning Area (Joint Plans): _____ acres

Pollutant Load Reduction Calculation Methodology:

☒ Simplified Method ☐ Mapshed ☐ ModelMyWatershed ☐ Other:

	TSS	TN	TP
Baseline Pollutant Load – Planning Area	115883 lbs/yr	0 lbs/yr	0 lbs/yr
Pollutant Load Reduction Requirement (%)	10 %	0 %	0 %
Pollutant Load Reduction Requirement (lbs/yr)	11588 lbs/yr	0 lbs/yr	0 lbs/yr
WLA Reduction Requirement (TMDL Plan only)	lbs/yr	0 lbs/yr	0 lbs/yr

BMP IMPLEMENTATION

BMP Type	No. of BMPs	Pollutant Load Reductions Achieved (Credit)		
		TSS	TN	TP
Structural BMPs	1	11968 lbs/yr	0 lbs/yr	0 lbs/yr
Non-Structural BMPs		lbs/yr	lbs/yr	lbs/yr
Total	1	11968 lbs/yr	0 lbs/yr	0 lbs/yr

Pollutant Load Reductions are documented on the following attachments:

☐ Attachment A – Infiltration BMPs No.: _____

☐ Attachment B – BMP Retrofits No.: _____

☒ Attachment C – Stream and/or Floodplain Restoration No.: 1

☐ Attachment D – Street Sweeping or Storm Drain Solids Removal No.: _____

☐ Attachment E – Riparian Buffers No.: _____

☐ Attachment F – Tree Planting No.: _____

☐ Attachment G – Non-structural (Annual Practice) BMPs No.: _____

☐ BMP(s) have been implemented for which there are no attachments (*attach calculations*)

COMPLIANCE DETERMINATION

Were the pollutant load reduction requirements of the permit met? ☒ Yes ☐ No

If the pollutant load reduction requirements of the permit were **not met**, report the required load reductions remaining in lbs/yr and as a percentage of the total required load reduction.

	TSS	TN	TP
Load Reduction Remaining	0 lbs/yr	0 lbs/yr	0 lbs/yr
Percent of Required Load Reduction Remaining	0 %	0 %	0 %

If the pollutant load reduction requirements of the permit were not met, attach an explanation and provide a schedule for completing implementation of the PRP or TMDL Plan, including interim milestones.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Kevin Farkas

Responsible Official Name


Signature

Council President

Official Title

September 28, 2026

Date Signed

ATTACHMENT C – STREAM RESTORATION

GENERAL INFORMATION

Permittee Name:	Borough of West Mayfield	Permit No.:	PAG136260
BMP Name:	Streambank Restoration	Latitude:	40°46'31.4"N
Surface Waters:	Walnut Bottom Run	Longitude:	80°20'04.3"W
Municipality:	Beaver Falls	County:	Beaver
☒ Construction of the BMP is Complete.		Date Construction Completed:	5/9/2024

☒ Photographs, Drawings, and O&M Plan are attached*. Inspection/Monitoring Frequency: Inspect once a month and after major storms for the first 5 years after construction

Permits or Approvals Obtained: GP-3, GP-6

Party Responsible for Long-Term O&M: ☒ Permittee ☐ Other: _____

Joint BMP? ☐ Yes ☒ No *If Yes, attach a list of other permittees sharing credit for the BMP*

STREAM RESTORATION TYPE

Stream Restoration – Default Rate: _____ Expert Panel Report Protocols (Select all that apply):

☒ Simplified Method (44.88 lbs/ft/yr) ☐ Protocol 1: Prevented Sediment

☐ Mapshed/Model My Watershed (115 lbs/ft/yr) ☐ Protocol 2: Instream and Riparian Nutrient Processing

☐ Protocol 3: Floodplain Reconnection

Does the restoration meet all the minimum qualifying conditions for stream restoration? ☒ Yes ☐ No

TSS LOAD REDUCTION – DEFAULT RATE

Total restoration length (center line of stream) (ft): 484

Restoration length stabilized using hard armoring (if applicable) (ft): 0

Restoration length armored by "Creditable w/Limits" practices (if applicable) (ft): 212

Percent of total restoration length armored by "Creditable w/Limits" practices (%): 44

Creditable restoration length (ft): 272

TSS Credit: Creditable restoration length (272 ft) x Default Rate (44 lbs/ft/yr) = 11968 lbs/yr TSS

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

POLLUTANT LOAD REDUCTIONS – EXPERT PANEL PROTOCOLS

Total restoration length (ft): _____ Floodplain area created (if applicable) (ac): _____

Protocol 1 Pollutant Load Reduction:	TSS:	_____ lbs/yr	TN:	_____ lbs/yr	TP:	_____ lbs/yr
Protocol 2 Pollutant Load Reduction:	TSS:	_____ lbs/yr	TN:	_____ lbs/yr	TP:	_____ lbs/yr
Protocol 3 Pollutant Load Reduction:	TSS:	_____ lbs/yr	TN:	_____ lbs/yr	TP:	_____ lbs/yr

Permittee Credit for Joint BMPs (if applicable): _____ % or _____ lbs/yr TSS Credit

*** See Annual MS4 Status Report Instructions (3800-FM-BCW0491) for additional required attachments.**

ATTACHMENT C

**PRECONSTRUCTION AND POSTCONSTRUCTION BLOCKHOUSE RUN
STREAMBANK RESTORATION PHOTOS**

PRECONSTRUCTION (02/10/2023):













POST-CONSTRUCTION (05/03/2024):



















ONE-YEAR POST-CONSTRUCTION (07/31/2025):





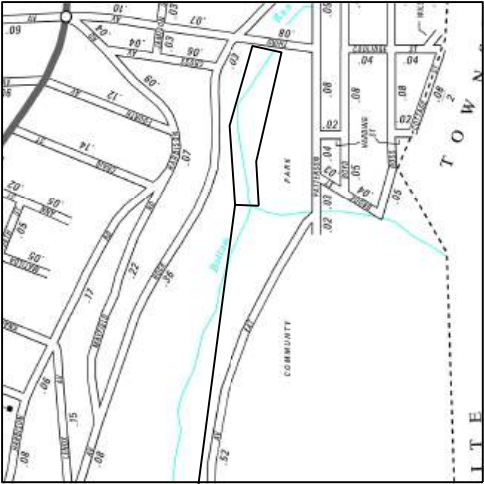


WEST MAYFIELD MS4

WALNUT BOTTOM RUN STREAMBANK RESTORATION JANUARY, 2024



DRAWING INDEX	
SHEET	TITLE
1 OF 16	COVER SHEET
2 OF 16	EXISTING CONDITIONS PLAN SHEET
3 OF 16	CONSTRUCTION PLAN
4-5 OF 16	E&S NOTES
6-7 OF 16	E&S DETAILS
8-16 OF 16	CROSS SECTIONS



APPROVAL: _____
COUNCIL PRESIDENT, WEST MAYFIELD BOROUGH

ATTEST: _____
MANAGER, WEST MAYFIELD BOROUGH



CALL BEFORE YOU DIG !
PENNSYLVANIA LAW REQUIRES NOT LESS THAN 10 NOR MORE THAN 90 BUSINESS DAYS NOTICE BEFORE FINAL DESIGN APPROVAL, AND REQUIRES NOT LESS THAN 3 NOR MORE THAN 10 BUSINESS DAYS NOTICE BEFORE EARTH DISTURBANCE DURING THE CONSTRUCTION PHASE.
1 - 800 - 242 - 1776
PENNSYLVANIA ONE CALL SYSTEM, INC

PROJECT # 23016

FIELD BOOK # ##

DRAWN: KJT/JWL

CHECKED: DAS

DATE: JANUARY 2024

SCALE: AS NOTED

SHEET NUMBER
1 OF 16

COVER SHEET

PREPARED FOR
BOROUGH OF WEST MAYFIELD
4609 WEST 8TH AVENUE
BEAVER FALLS, PA 15010
WEST MAYFIELD BOROUGH
ST. LUKE IN
BEAVER COUNTY, PENNSYLVANIA

PREPARED BY:



WIDMER
ENGINEERING
INC.

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

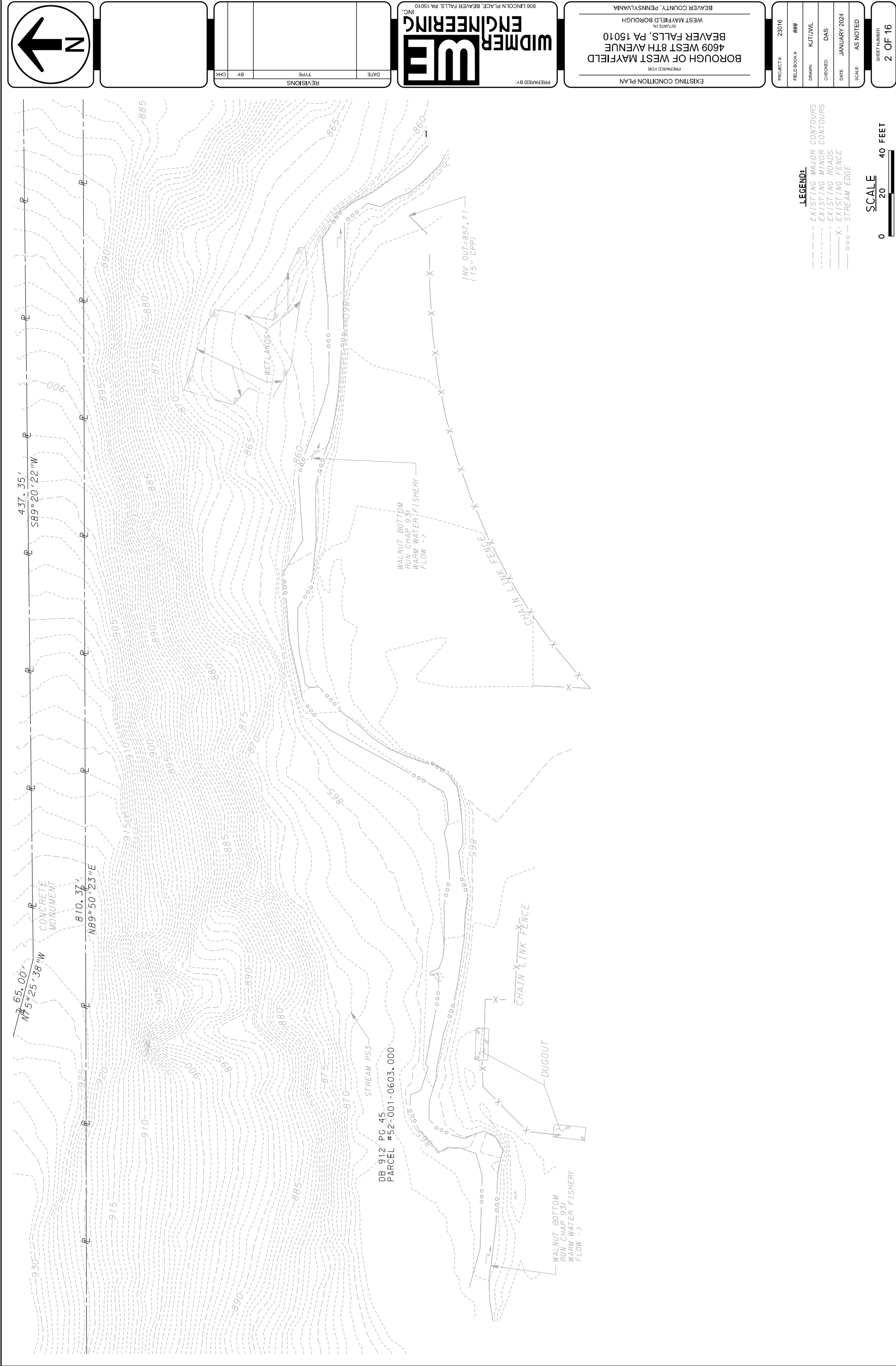
REVISIONS

DATE

BY

CHK

TYPE



LEGEND:

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING ROADS
- X- EXISTING FENCE
- ooo - STREAM EDGE

SCALE
0 20 40 FEET
1" = 20'

SHEET NUMBER

2 OF 16

SCALE: AS NOTED

DATE: JANUARY 2024

CHECKED: DAS

DRAWN: KJT/JWL

FIELD BOOK #:

##

PROJECT #:

23016

BEAVER COUNTY, PENNSYLVANIA

BOROUGH OF WEST MAYFIELD
4609 WEST 8TH AVENUE
BEAVER FALLS, PA 15010

PREPARED FOR

PREPARED BY:

WIDMER ENGINEERING
INC.

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

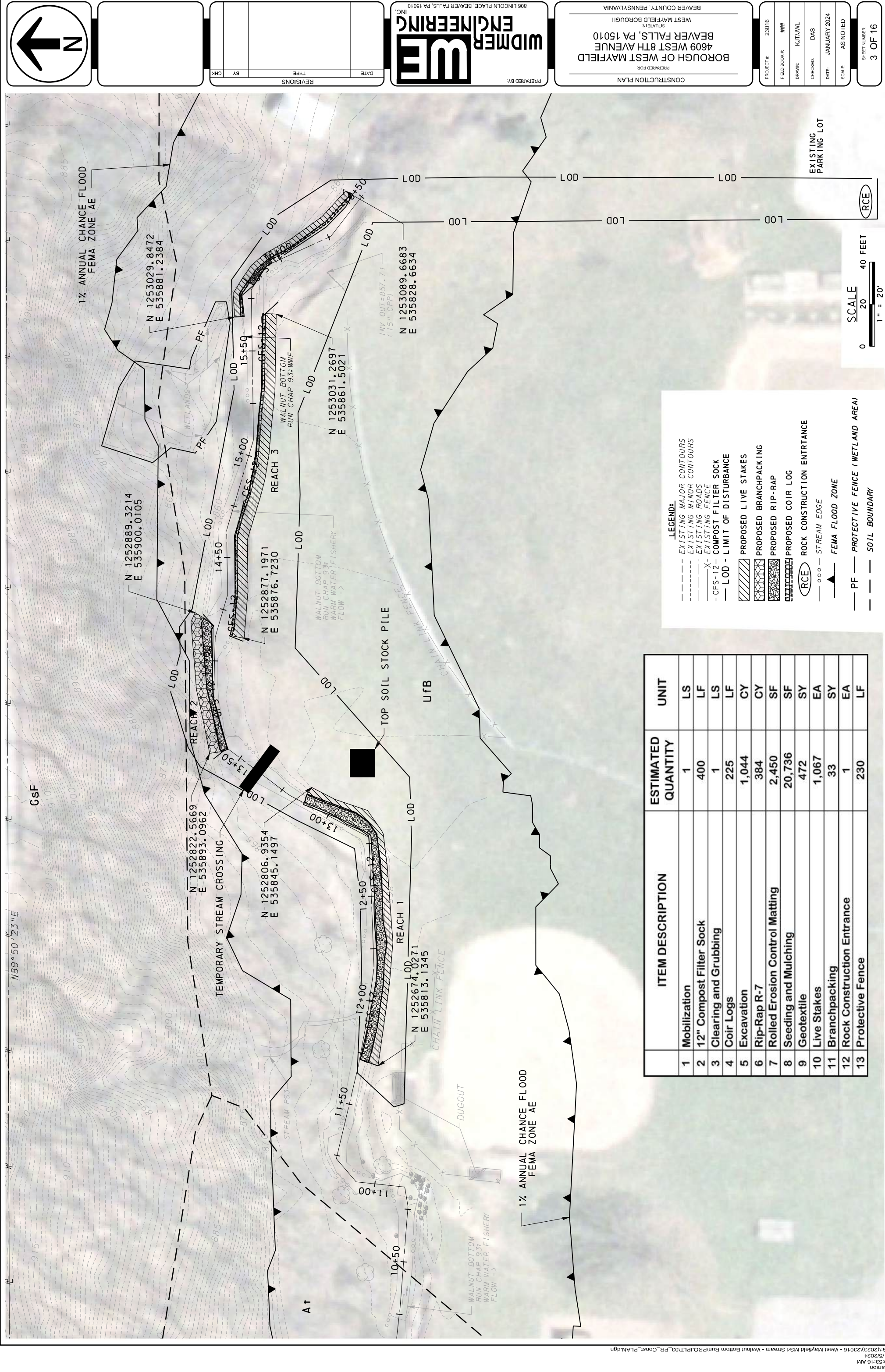
DATE

REVISIONS

BY

CHK





PROJECT # 23016

FIELD BOOK # ##

DRAWN: KJT/JWL

CHECKED: DAS

DATE: JANUARY 2024

SCALE: AS NOTED

SHEET NUMBER 3 OF 16

BOROUGH OF WEST MAYFIELD
4609 WEST 8TH AVENUE
BEAVER FALLS, PA 15010
PREPARED FOR
CONSTRUCTION PLAN

BEAVER COUNTY, PENNSYLVANIA
WEST MAYFIELD BOROUGH
STUART IN.
PREPARED BY:

WIDMER ENGINEERING INC.

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

DATE

TYPE

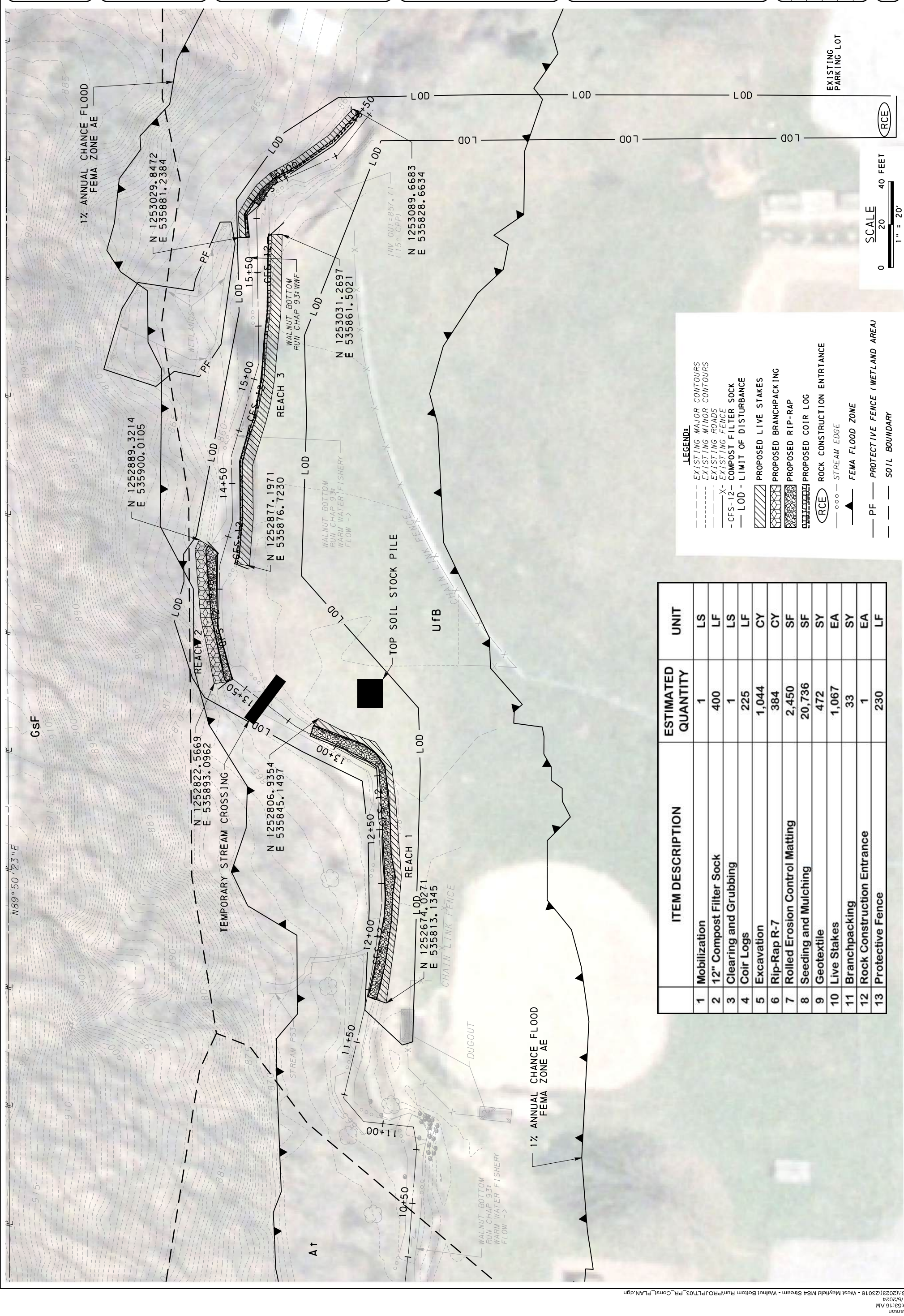
BY

CHK

REVISIONS

N

↑



STANDARD EROSION AND SEDIMENTATION CONTROL PLAN NOTES

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE BEAVER COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE BEAVER COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE BEAVER COUNTY CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE BEAVER COUNTY CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
13. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
14. VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM ANY AREA OTHER THAN THOSE DESIGNATED ON THE PLAN DRAWINGS.
15. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RETENING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
16. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
17. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
18. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
19. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, 6 TO 12 INCHES ON COMPACTED SOILS. PRIOR TO PLACEMENT OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE

CLEAN FILL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE: FILL MATERIALS AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE STILL QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL".

ANY PERSON PLACING CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.

ENVIRONMENTAL DUE DILIGENCE

THE CONTRACTOR MUST PERFORM ENVIRONMENTAL DUE DILIGENCE TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL". FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT, WHICHEVER IS APPLICABLE. THESE REGULATIONS ARE AVAILABLE ON-LINE AT WWW.PACODE.COM.

MAINTENANCE SCHEDULE

BMP	INSPECTION FREQUENCY	DEADLINE FOR REPAIRS	PERSON RESPONSIBLE FOR REPAIRS & MAINTENANCE
COMPOST FILTER SOCK	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
ROLLED EROSION CONTROL PRODUCTS	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
VEGETATED AREAS	WEEKLY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
TEMPORARY STREAM CROSSING	DAILY OR AFTER RUNOFF EVENT	IMMEDIATELY AFTER INSPECTION	CONTRACTOR
ROCK CONSTRUCTION ENTRANCE	DAILY	THE END OF EACH WORKING DAY	CONTRACTOR
PROTECTIVE FENCE	DAILY	IMMEDIATELY AFTER INSPECTION	CONTRACTOR

INSPECTIONS WILL BE LOGGED ONTO DEP FORM 3800-FM-BCW0271d (12/2019); THESE REPORTS WILL BE KEPT ONSITE AT ALL TIMES.

CLEAN FILL NOTES

IF THE SITE WILL NEED TO IMPORT OR EXPORT MATERIAL FROM THE SITE, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINATION OF CLEAN FILL WILL REST WITH THE CONTRACTOR.

CLEAN FILL

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR REUSE).

PREPARED BY:

WIDMER ENGINEERING INC.

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

EROSION AND SEDIMENT CONTROL NOTES

PREPARED FOR

BOROUGH OF WEST MAYFIELD
4609 WEST 8TH AVENUE
BEAVER FALLS, PA 15010

STUTTEIN
WEST MAYFIELD BOROUGH
BEAVER COUNTY, PENNSYLVANIA

PROJECT # 23016

FIELD BOOK # ##

DRAWN: KJT/JWL

CHECKED: DAS

DATE: JANUARY 2024

SCALE: AS NOTED

SHEET NUMBER

4 OF 16

REVISIONS

DATE	BY	TYPE
	CHK	

A MAINTENANCE PROGRAM WHICH PROVIDES FOR INSPECTION OF BMPs ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT, INCLUDING THE REPAIR OF THE BMP's TO ENSURE EFFECTIVE AND EFFICIENT OPERATION.

A. MAINTENANCE PROGRAM
GENERAL

WATER FROM ALL DISTURBED AREAS SHALL BE DIRECTED AND FILTERED THROUGH THE PROPOSED COMPOST FILTER SOCK, ROCK FILTERS, OR OTHER SEDIMENT CONTROL DEVICES PRIOR TO ITS DISCHARGE OFF-SITE. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR ON A WEEKLY OR DAILY BASIS AND AFTER EACH RUNOFF EVENT AS SPECIFIED IN THE MAINTENANCE PROGRAM SCHEDULE. MAINTENANCE REPAIRS TO SEDIMENT CONTROL DEVICES SHALL BE COMPLETED IMMEDIATELY OR WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION. ALL SEDIMENT REMOVED FROM THE EROSION CONTROL MEASURES SHALL BE DISPOSED OF EITHER AT THE TOPSOIL STOCKPILE TO BE LATER MIXED WITH THE TOPSOIL OR OFFSITE AT AN APPROVED EROSION AND SEDIMENT POLLUTION CONTROL SITE.

ROCK CONSTRUCTION ENTRANCE AND TEMPORARY ACCESS ROADS

THE CONTRACTOR SHALL INSPECT ROCK CONSTRUCTION ENTRANCE AT THE END OF EACH WORK DAY. THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

PROTECTIVE FENCING

THE CONTRACTOR SHALL INSPECT THE PROTECTION FENCING DAILY AND MAKE REPAIRS IMMEDIATELY

COMPOST FILTER SOCK

THE CONTRACTOR SHALL INSPECT ALL COMPOST FILTER SOCK ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. DAMAGED FILTER SOCK WILL BE REPAIRED OR REPLACED IMMEDIATELY. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT FROM COMPOST FILTER SOCK WHERE ACCUMULATIONS REACH ONE-HALF (1/2) OF THE ABOVE GROUND HEIGHT OF THE SOCK OR DEEPER. AFTER SEDIMENT IS REMOVED, REPAIR AND/OR REPLACE THE COMPOST FILTER SOCK AS NEEDED. ANY SECTION OF COMPOST FILTER SOCK THAT HAS BEEN UNDERCUT OR OVERTOPPED MUST BE REPLACED WITHIN TWENTY-FOUR (24) HOURS OF INSPECTION. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING THE COMPOST FILTER SOCK DUE TO WEATHERING. ALL SEDIMENT REMOVED SHALL BE USED ON CONSTRUCTION SITE OR DISPOSED OF AS CONSTRUCTION WASTE IN THE MANNER DESCRIBED IN THESE PLANS.

NOTE: COMPOST FILTER SOCK IS SHOWN ON THE PLAN BY SPECIFIC INSTALLATION LOCATIONS. THE CONTRACTOR SHALL RELOCATE THE COMPOST FILTER SOCK WHEREVER THE LOCATION OF THE COMPOST FILTER SOCK IS NEEDED DUE TO EXCAVATION, UTILITY INSTALLATION, ETC. THROUGHOUT THE CONSTRUCTION, THE CONTRACTOR(S) SHALL RELOCATE THE COMPOST FILTER SOCK TO APPROPRIATE LOCATIONS TO ENSURE THAT SEDIMENT LADEN SURFACE RUNOFF WILL BE CAPTURED AT ALL TIMES.

VEGETATED AREAS

THE CONTRACTOR SHALL INSPECT VEGETATED AND MULCHED AREAS WEEKLY AND AFTER EACH RUNOFF EVENT. ANY AREA NOT USED (NOR SCHEDULED FOR USE) WITHIN 4 DAYS OF DISTURBANCE SHALL BE MULCHED OR SEEDED WITH TEMPORARY GRASS MIXTURE PER PENNDOT 408 REQUIREMENTS. ALL WORK AREAS COMPLETED SHALL HAVE PERMANENT VEGETATION ESTABLISHED AS SOON AS POSSIBLE. WHERE SEDIMENT HAS ACCUMULATED, IT SHALL BE REMOVED PRIOR TO PLACEMENT OF VEGETATION. IF THE SEEDED OR MULCHED AREAS HAVE BECOME DAMAGED BY EROSION OR ADDITIONAL CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROMPTLY REPAIR THE AFFECTED AREA BY REGARDING, LIMING, FERTILIZING, SEEDING, AND MULCHING AS ORIGINALLY SPECIFIED. VEGETATED AREAS THAT HAVE NOT ESTABLISHED A UNIFORM 70% PERENNIAL VEGETATIVE COVER AT THE END OF ONE GROWING SEASON SHALL BE RESEDED, LIMED, FERTILIZED, AND MULCHED AS ORIGINALLY SPECIFIED. ALL SEDIMENT REMOVED SHALL BE USED ON CONSTRUCTION SITE OR DISPOSED OF AS CONSTRUCTION WASTE IN THE MANNER DESCRIBED IN THESE PLANS.

LITTER / CONSTRUCTION DEBRIS

THE CONTRACTOR SHALL INSPECT THE SITE AND AREAS SURROUNDING THE SITE FOR LITTER AND CONSTRUCTION DEBRIS ON A WEEKLY BASIS. ALL LITTER AND CONSTRUCTION DEBRIS SHALL BE COLLECTED BY THE CONTRACTOR AND PLACED INTO PROPER WASTE RECEPTACLES (MUNICIPAL WASTE, RECYCLABLES, OTHERS AS NEEDED) SUCH THAT THE WASTE IS DISPOSED OF IN A PROPER, LEGAL MANNER, OFF-SITE AT AN APPROPRIATE WASTE FACILITY.

SEEDING

VEGETATED AND MULCHED AREAS WILL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. ANY AREA NOT USED (NOR SCHEDULED FOR USE) WITHIN 4 DAYS OF DISTURBANCE SHALL BE MULCHED OR SEEDED WITH TEMPORARY GRASS MIXTURE PER PENNDOT 408 REQUIREMENTS. ALL WORK AREAS COMPLETED SHALL HAVE PERMANENT VEGETATION ESTABLISHED AS SOON AS POSSIBLE. WHERE SEDIMENT HAS ACCUMULATED, IT SHALL BE REMOVED PRIOR TO PLACEMENT OF VEGETATION. IF THE SEEDED OR MULCHED AREAS HAVE BECOME DAMAGED BY EROSION OR ADDITIONAL CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROMPTLY REPAIR THE AFFECTED AREA BY REGARDING, LIMING, FERTILIZING, SEEDING, AND MULCHING AS ORIGINALLY SPECIFIED. VEGETATED AREAS THAT HAVE NOT ESTABLISHED A UNIFORM 70% PERENNIAL VEGETATIVE COVER AT THE END OF ONE GROWING SEASON SHALL BE RESEDED, LIMED, FERTILIZED, AND MULCHED AS ORIGINALLY SPECIFIED.

SILT FENCE AND COMPOST FILTER SOCK

THE CONTRACTOR SHALL INSPECT ALL SILT FENCE AND COMPOST FILTER SOCK ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL REMOVE ALL SEDIMENT FROM SILT FENCE OR COMPOST FILTER SOCK WHERE ACCUMULATIONS REACH ONE-HALF (1/2) OF THE ABOVE GROUND HEIGHT OF THE FENCE/ SOCK OR DEEPER. CLEAN FENCE BY TAPPING THE DRY FABRIC FROM THE DOWNSTREAM SIDE. AFTER SEDIMENT IS REMOVED, REPAIR AND/OR REPLACE THE SILT FENCE OR COMPOST FILTER SOCK AS NEEDED. ANY SECTION OF SILT FENCE OR COMPOST FILTER SOCK THAT HAS BEEN UNDERCUT OR OVERTOPPED MUST BE REPLACED IMMEDIATELY OR WITHIN ONE (1) WORKING DAY WITH A ROCK FILTER OUTLET AS DETAILED IN PENNDOT RC-70M. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING THE SILT BARRIER FENCE DUE TO WEATHERING.

NOTE: SILT FENCE AND COMPOST FILTER SOCK ARE SHOWN ON THE PLAN BY SPECIFIC INSTALLATION LOCATIONS. THE CONTRACTOR SHALL RELOCATE THE SILT FENCE OR COMPOST FILTER SOCK WHEREVER THE LOCATION OF THE SILT FENCE OR COMPOST FILTER SOCK IS NEEDED DUE TO EXCAVATION, UTILITY INSTALLATION, ETC. THROUGHOUT THE CONSTRUCTION, THE CONTRACTOR(S) SHALL RELOCATE THE SILT FENCE OR COMPOST FILTER SOCK TO APPROPRIATE LOCATIONS TO ENSURE THAT SEDIMENT LADEN SURFACE RUNOFF WILL BE CAPTURED AT ALL TIMES.

DUST CONTROL

THE CONTRACTOR SHALL IMPLEMENT A PLAN FOR DUST CONTROL ON THE SITE AREA. WINDBREAKS, WATERING OF HAUL ROADS, STREETSWEEPING PAVED AREAS, MULCHING OF DISTURBED AREAS, AND ENVIRONMENTALLY SAFE CHEMICAL TREATMENTS ARE SOME TECHNIQUES THE CONTRACTOR MAY IMPLEMENT. AS NEEDED, ALL AREAS REQUIRING DUST CONTROL SHALL BE TREATED BY THE CONTRACTOR TO ENSURE THAT DUST DOES NOT ADVERSELY IMPACT THE SITE AND SURROUNDING AREA.

ROCK FILTER AND ROCK FILTER OUTLET

THE ROCK FILTERS AND ROCK FILTER OUTLETS WILL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL CLEAN, REPAIR, OR REPLACE ALL ROCK FILTERS AND ROCK FILTER OUTLETS FOUND TO BE IN UNSATISFACTORY CONDITION WITHIN 24 HOURS OF THE INSPECTION. ACCUMULATED SEDIMENT WILL BE REMOVED WHEN IT REACHES ONE HALF THE HEIGHT OF THE ROCK FILTER OR ROCK FILTER OUTLET.

TEMPORARY STREAM CROSSING

THE TEMPORARY STREAM CROSSING WILL BE INSPECTED DAILY AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL CLEAN, REPAIR, OR REPLACE THE DAMAGED CROSSING WITHIN 24 HOURS OF THE INSPECTION. SEDIMENT DEPOSITS ON THE CROSSING OR APPROACHING WILL BE REMOVED WITHIN 24 HOURS OF THE INSPECTION.

ROLLED EROSION CONTROL PRODUCTS

THE EROSION CONTROL MULCH BLANKET AND HIGH VELOCITY EROSION CONTROL MULCH BLANKET WILL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. THE CONTRACTOR SHALL REPAIR, OR REPLACE ALL MULCH BLANKET FOUND TO BE IN UNSATISFACTORY CONDITION WITHIN 24 HOURS OF THE INSPECTION.

B. PERMANENT MAINTENANCE OPERATIONS

UPON COMPLETION OF THE PROJECT, THE MAINTENANCE OF ALL PERMANENT EROSION AND SEDIMENTATION CONTROLS WILL BECOME PART OF THE BEAVER COUNTY PUBLIC WORKS REGULAR MAINTENANCE PROGRAM. THIS WILL INCLUDE PERIODIC INSPECTIONS OF FACILITIES AND ALL REQUIRED REPAIRS.

C. SPECIFICATIONS

THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS PUBLICATION 408/2016, CURRENT EDITION, ARE APPLICABLE TO THIS PROJECT.

D. RECYCLING

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ 271.1 AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, DUMPED, OR DISCHARGED AT THE SITE.

PROJECT CONSTRUCTION SEQUENCE

1. PLACE PROTECTIVE FENCE AROUND WETLAND AREA IDENTIFIED ON THE PLAN SHEETS. PLASTIC FENCING SHALL BE USED.
2. STAKE THE PROPOSED LIMITS OF DISTURBANCE. CLEAR AND GRUB AND STOCKPILE TOPSOIL IN THE VICINITY OF IMMINENT WORK.
3. INSTALL COMPOST FILTER SOCK (CFS) AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS AND IN ACCORDANCE WITH THE DETAILS. INSTALL THIS BMP AND CONFIRM THAT IT IS FUNCTIONING PRIOR TO COMMENCING ANY EARTHMOVING ACTIVITIES.
4. CLEAR AND GRUB, STOCKPILE TOPSOIL AND COMPLETE EMBANKMENT AS SHOWN ON THE PLAN DRAWINGS AND IN ACCORDANCE WITH THE DETAILS.
5. INSTALL THE PROPOSED FIBER ROLLS AND RIP RAP STREAMBANK PROTECTION AS SHOWN ON THE STRUCTURE DRAWINGS AND IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS.
6. PERFORM FINAL GRADING AND COVER WITH TOPSOIL, SEED AND EROSION CONTROL MULCH BLANKET (ECMB) AS SHOWN ON THE PLAN DRAWINGS AND IN ACCORDANCE WITH THE DETAILS. USE ECMB ON ALL SLOPES 2:1 AND ON ALL DISTURBED AREAS WITHIN 50-FEET OF THE STREAM.
7. MAINTAIN APPROPRIATE BMPs WHERE APPLICABLE. DISPOSE OF EXCESS EXCAVATED MATERIAL OFFSITE AT A DUMP SITE APPROVED BY THE BEAVER COUNTY CONSERVATION DISTRICT.
8. PROVIDE FINAL SEEDING AND STABILIZATION OF ALL REMAINING AREAS WITHIN CONSTRUCTION LIMITS. VEGETATED AREAS SHALL BE CONSIDERED STABILIZED UPON ACHIEVING A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OVER THE ENTIRE DISTURBED AREA. UPON COMPLETION OF STABILIZATION AND APPROVAL FROM THE ENGINEER AND THE BEAVER COUNTY CONSERVATION DISTRICT, ALL TEMPORARY BMPs STILL IN PLACE SHALL BE REMOVED AND DISPOSED OF PROPERLY AND THOSE AREAS STABILIZED.

EROSION AND SEDIMENT CONTROL NOTES

PREPARED FOR

BOROUGH OF WEST MAYFIELD
4609 WEST 8TH AVENUE
BEAVER FALLS, PA 15010

STATION IN
WEST MAYFIELD BOROUGH

BEAVER COUNTY, PENNSYLVANIA

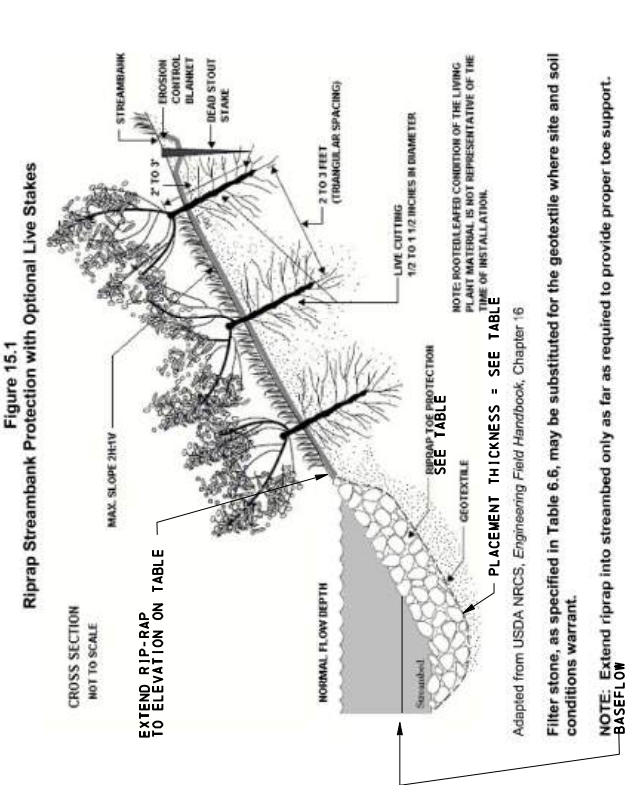
PROJECT #:	23016
FIELD BOOK #:	###
DRAWN:	KJT/JWL
CHECKED:	DAS
DATE:	JANUARY 2024
SCALE:	AS NOTED

SHEET NUMBER
5 OF 16

PREPARED BY:

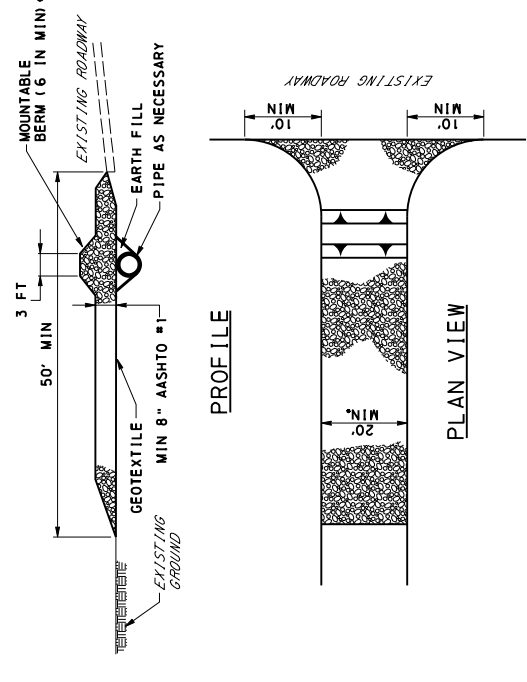
WIDMER ENGINEERING INC.
806 LINCOLN PLACE, BEAVER FALLS, PA 15010

DATE	
TYPE	
REVISIONS	
BY	CHK
CHK	



REACH NUMBER	BASEFLOW DEPTH	RIP-RAP ELEVATION	RIP-RAP SIZE	PLACEMENT THICKNESS
1	863' +/- 1'	864' +/- 1'	R-7	45"
2	861'	862'	R-7	45"
3	860' +/- 1'	N/A-COIR LOG	N/A	N/A
4	858'	859'	R-7	45"

- NOTES:
- * REACHES 1 AND 3 HAVE A THREE FOOT DROP ACROSS THEIR RUNS: THE BASEFLOW DEPTH DETAILS THE AVERAGE DEPTH AND THE DEVIATION FOR THE REACH.
 - **RIP-RAP ELEVATIONS ARE EXTENDED ONE FOOT ABOVE THE BASEFLOW ELEVATIONS



- NOTES:
- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
 - RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
 - MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
 - MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED AT THE ENTRANCE TO THE CONSTRUCTION SITE. ROADWAYS SHALL BE REMOVED AND REPAIRED TO THE CONSTRUCTION SITE IMMEDIATELY IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY. EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

- LIVE STAKES
- LIVE STAKES ARE WOODY VEGETATIVE CUTTINGS, TYPICALLY WILLOW, DOGWOOD, OR OTHERSPECIES TOLERANT OF OCCASIONAL FLOODING, THAT ARE CAPABLE OF ROOTING WHEN INSERTED INTO THE GROUND. WHEN PROPERLY PREPARE, HANDLED, AND PLACED, THE STAKES WILL ROOT, GROW, AND FORM A STABILIZING ROOT MAT. THIS MAT REINFORCES THE SOIL BY BINDING SOIL PARTICLES, EXTRACTING EXCESS MOISTURE, AND PROVIDING A PORTECTIVE COVER.

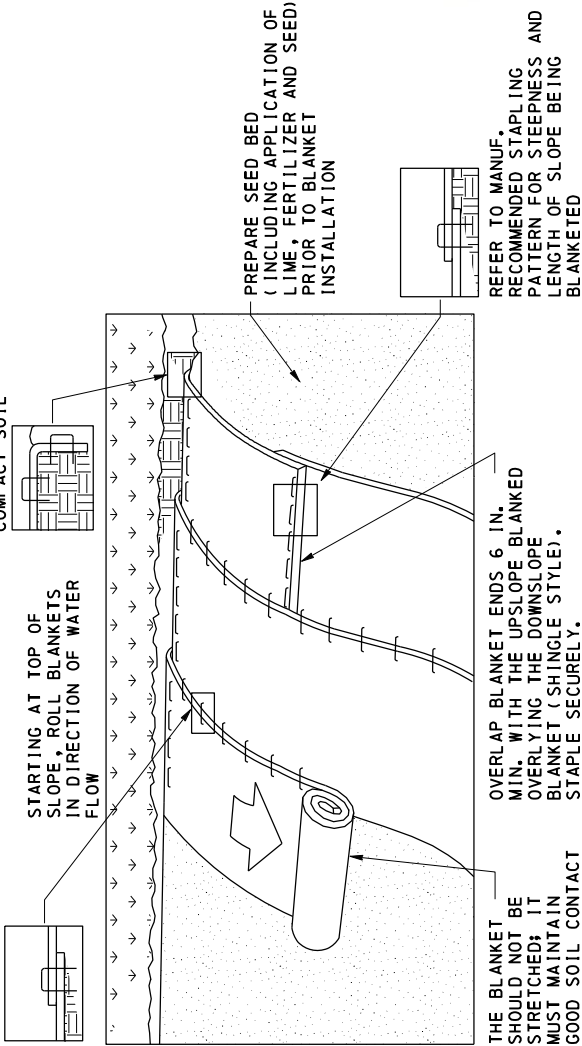
STAKES SHOULD BE FRESHLY CUT, HEALTHY, STRAIGHT, AND AT LEAST 1 YEAR OLD WITH SIDE BRANCHES REMOVED AND BARK INTACT. CUTTINGS SHOULD BE 1/4" TO 1 1/2" IN DIAMETER AND 2 TO 3 FEET LONG. BASES SHOULD BE CUT CLEANLY AT AN ANGLE TO FACILITATE INSERTION INTO THE SOIL. TOPS SHOULD BE SQUARE TO AID IN TAMPING.

APPLICATIONS

1. LIVE STAKES SHOULD BE INSTALLED DURING DORMANT PERIOD.
2. THEY CAN BE USED TO PEG DOWN SOME EROSION CONTROL BLANKETS.
3. NATURAL COLONIZATION BY SURROUNDING PLANT COMMUNITIES CAN BE ENHANCED BY THE INSTALLATION OF LIVE STAKES.
4. INTERVENING AREAS BETWEENOTHER BIOENGINEERING TECHNIQUES CAN BE STABILIZED WITH LIVE STAKES.
5. LIVE STAKES ENHANCE NATURAL HABITAT

INSTALLATION GUIDELINES

1. GRADE SLOPES TO 2H: 1V, OR FLATTER FOR LESS COHESIVE SOILS OR PRESENCE OF SAND LENSES. INSTALL SUITABLE TOE PROTECTION, SUCH AS PROPERLY SIZED RIPRAP, BELOW THE STREAM-FORMING FLOW ELEVATION (2-YEAR STORM = Q2, OFTEN MARKED BY A LACK OF VEGETATION).
2. ERODIBLE SLOPES SHOULD BE BLANKETED PRIOR TO INSERTING CUTTINGS
3. KEEP CUTTINGS FRESH AND MOIST AFTER THEY HAVE BEEN CUT INTO APPROPRIATE LENGHTS. CUTTINGS SHOULD BE INSTALLED THE SAME DAY THAT THEY ARE PREPARE. IF THIS IS NOT POSSIBLE, IT IS RECOMMENDED THAT THEY BE SOAKED 24 HOURS PRIOR TO INSTALLATION
4. TAMP CUTTINGS INTO THE GROUND AT 90 DEGREES TO SLOPE DOWNSTREAM. APPROXIMATELY 2/3 OF THE CUTTING SHOULD BE INSERTED INTO THE GROUND. 2 TO 5 BUD SACS SHOULD REMAIN ABOVE GROUND. BUDS SHOULD BE ORIENTED UP, AND SOIL SHOULD BE FIRMLY PACKED AROUND THE STAKE.
5. CARE SHOULD BE TAKEN TO AVOID SPLITTING THE STAKES DURING INSTALLATION. SPLIT TAKES SHOULD BE REPLACED. IF THERE IS DIFFICULTY IN TAMPING THE STAKES, AN IRON BAR CAN BE USED TO MAKE A PILOT HOLE.
6. STAKES SHOULD BE PLACED 2 TO 3 FEET APART USING TRIANGULAR SPAACING. BLANKET EDGESTAPLED AND OVERLAPPED IN ANCHOR TRENCH, STAPLE, BACKFILL AND COMPACT SOIL (4 IN MIN.)



NOTES:

- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
- PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.
- BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

BRANCHPACKING

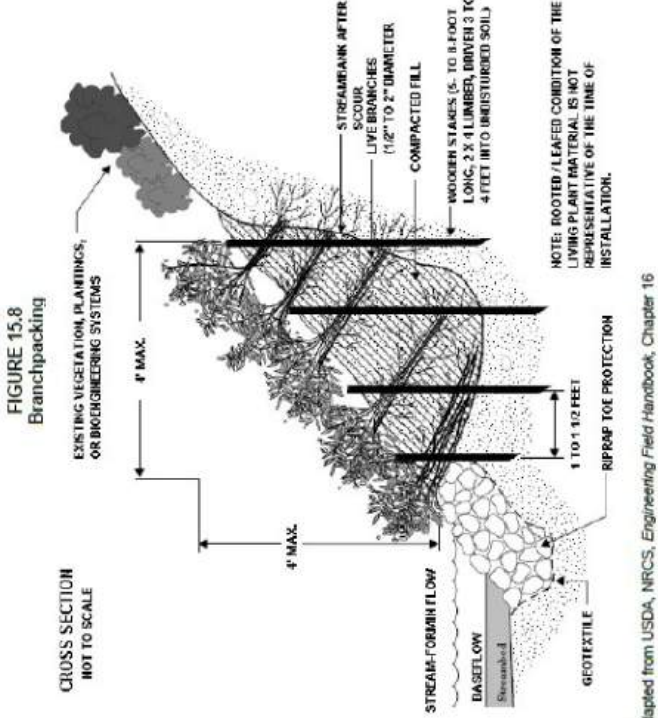
BRANCHPACKING CONSISTS OF ALTERNATING LAYERS OF LIVE BRANCHES AND COMPACTED BACFILL. IT PROVIDES A FILTER BARRIER THAT PREVENTS EROSION FROM BANKFULL AND OVERBANK FLOWS.

BRANCHPACKING RAPIDLY ESTABLISHED A VEGETATED STREAMBANK AND ENHANCES COLONIZATION BY NATIVE VEGETATION.

THE LIVE BRANCHES SHOULD RANGE FROM 1/2" TO 2" IN DIAMETER AND BE LONG ENOUGH TO REACH FROM THE UNDISTURBED SOIL AT THE BACK OF THE TRENCH AND EXTEND SLIGHTLY FROMTHE REBUILT STREAMBANK.

INSTALLATION GUIDELINES

1. DIVERT ANY CONCENTRATED UPSLOPE RUNOFF AWAY FROM THE REPAIR AREA.
2. PREPARE THE CUTTINGS IMMEDIATELY PRIOR TO INSTALLATION.
3. INSTALL SUITABLE TOE PROTECTION, SUCH AS RIP-RAP OR FIVER LOG, BELOW THE STREAM-FORMING ELEVATION (2-YR STORM ELEVATION, Q2).
4. BEGINNING AT THE LOWEST POINT ABOVE THE Q2 ELEVATION, DRIVE WOODEN STAKES VERTICALLY 3-TO-4 FT INTO THE GROUND. STAKES SHHOULD BE SPACED 1 TO 1 AND 1/2 FT APART AS SHOWN BELOW.
5. PLACE INITIAL LAYER OF BRANCHES 4" TO 6" THICK IN THE BOTTOM OF THE HOLE, BETWEEN THE VERTICAL STAKES AND PERPENDICULAR TO THE SLOPE FACE. BASAL ENDS OF THE BRANCHES SHOULD TOUCH THE UNDISTURBED SOIL AT THE BACK OF THE HOLE
6. COVER EACH LAYER OF BRACHES WITH A LAYER OF COMPACTED SOIL TO ENSURE SOIL CONTACT WITH THE BRANCHES.
7. SUBSEQUENT LAYERS OF BRANCHES SHOULD BE INSTALLED WITH BASAL ENDS LOWER THAN THE GROWING TIPS.
8. THE FINAL LAYER SHOULD CONFORM TO THE EXISTING SLOPE.



DATE	REVISIONS
BY	
CHK	

TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS

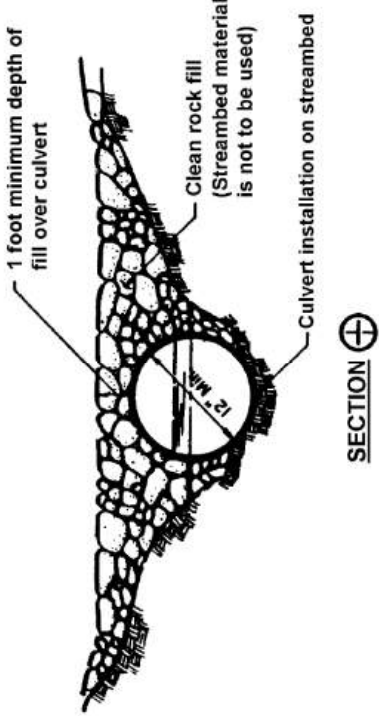
(TEMPORARY)			
SPECIES *1 FORMULA E (ANNUAL RYEGRASS)			
¾ PURE LIVE SEED:	98	LB. /ACRE	¾
APPLICATION RATE:	49	(X - X - X)	
FERTILIZER TYPE:	10-20-20	LB. /ACRE	
FERTILIZER APPL. RATE:	678	LB. /ACRE	
LIMING RATE:	3872		
MULCH TYPE:	HAY OR STRAW		
MULCHING RATE:	3	T/ACRE	

(PERMANENT)			
SPECIES *1 FORMULA D (TALL FESCUE/CREEPING RED FESCUE)			
¾ PURE LIVE SEED:	98	LB. /ACRE	¾
APPLICATION RATE:	242	(X - X - X)	
FERTILIZER TYPE:	10-20-20	LB. /ACRE	
FERTILIZER APPL. RATE:	678	LB. /ACRE	
LIMING RATE:	3872	LB. /ACRE	
MULCH TYPE:	HAY OR STRAW		
MULCHING RATE:	2.9	T/ACRE	
ANCHOR MATERIAL:	WOOD - CELLULOSE		
ANCHORING METHOD:	MECHANICAL BLOWER		
RATE OF ANCHOR MATERIAL APPL:	775	LB/ACRE	

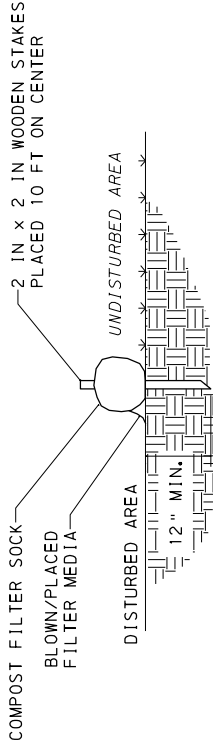
SEEDING SEASON DATES: MARCH 15 TO JUNE 1; AUGUST 1 TO OCTOBER 15			
(PERMANENT STEEP SLOPE) (>3:1)			
SPECIES *1 FORMULA L (HARD FESCUE/TALL FESCUE/ANNUAL RYEGRASS)			
¾ PURE LIVE SEED:	98	LB. /ACRE	¾
APPLICATION RATE:	233	(X - X - X)	
FERTILIZER TYPE:	10-20-20	LB. /ACRE	
FERTILIZER APPL. RATE:	678	LB. /ACRE	
LIMING RATE:	3872	LB. /ACRE	
MULCH TYPE:	HAY OR STRAW		
MULCHING RATE:	2.9	T/ACRE	
ANCHORING MATERIAL:	WOOD-CELLULOSE		
ANCHORING METHOD:	MECHANICAL BLOWER		
RATE OF ANCHOR MATERIAL APPL:	775	LB/ACRE	
SEEDING SEASON DATES:	MARCH 15 TO JUNE 1; AUGUST 1 TO OCTOBER 15		

* IF MORE THAN ONE SPECIES IS USED , INDICATE APPLICATION RATE FOR EACH SPECIES.

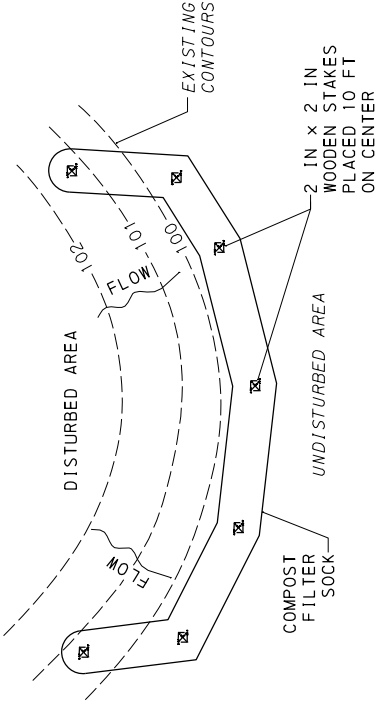
STANDARD CONSTRUCTION DETAIL # 3-13
Temporary Stream Crossing



PA DEP



SECTION



PLAN VIEW

NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.
COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK , STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

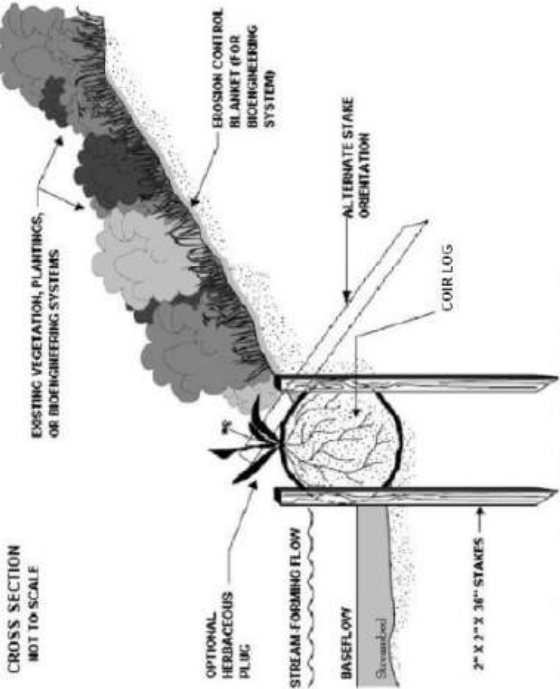
STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK

NOT TO SCALE

NOTES

1. THE PROVIDED DETAILS ARE A GENERAL GUIDE FOR COFFERDAM CONSTRUCTION. PROVIDE A DETAILED COFFERDAM DESIGN (CONCRETE BARRIERS, SANDBAGS OR ALTERNATIVE SYSTEM) FOR REVIEW BY DEP OR BEAVER COUNTY CONSERVATION DISTRICT.
2. USE THESE GENERAL DETAILS AND PROVIDE ALL NECESSARY SUPPORTS AND/OR BRACING NEEDED TO PREVENT TOPPLING OR DAMAGE DURING HIGHWATER EVENTS.
3. ALTERNATIVE COFFERDAM SYSTEMS ARE ALLOWED.
4. CONTRACTOR SHALL MAINTAIN THE TEMPORARY COFFERDAM AND REPAIR OR REPLACE FAILED OR DETERIORATED INSTALLATIONS AS NECESSARY.
5. REPAIR AND/OR REPLACEMENT OF THE COFFERDAMS IS THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO MUNICIPALITY.
6. WORK AREA TO BE KEPT WATER TIGHT AND ANY WATER THAT IS FOUND IN WORK AREA MUST BE PUMPED TO A FILTER BAG AND PROPERLY FILTERED PRIOR TO DISCHARGE.

FIGURE 15.10
Fiber Rolls



Adapted from USDA, NRCS, *Engineering Field Handbook*, Chapter 16

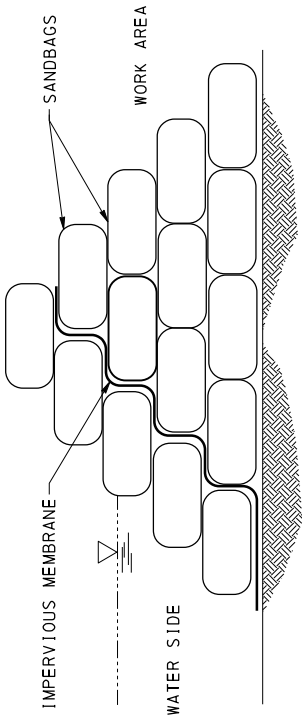
For more information about these and other bioengineering techniques, Chapter 16 of the USDA, NRCS *Engineering Handbook* is recommended.

COIR LOGS/COIR LOGS ARE CYLINDRICAL STRUCTURES COMPOSED OF NATURAL MATERIALS, SUCH AS COCONUT HUSK, BOUND TOGETHER WITH TWINE.

IT IS COMMONLY MANUFACTURED IN 12" AND 18" DIAMETERS WITH LENGTHS OF 20 FT. FIBER ROLLS ARE OFTEN STAKED AT THE TOE OF SLOPE (STREAM ELEVATION, Q2 LVL) BELOW BIOENGINEERING SYSTEMS (E.G. LIVE STAKES)

INSTALLATION GUIDELINES

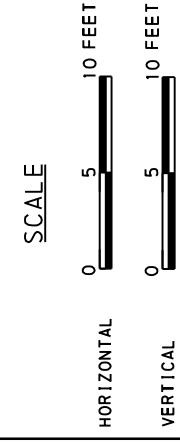
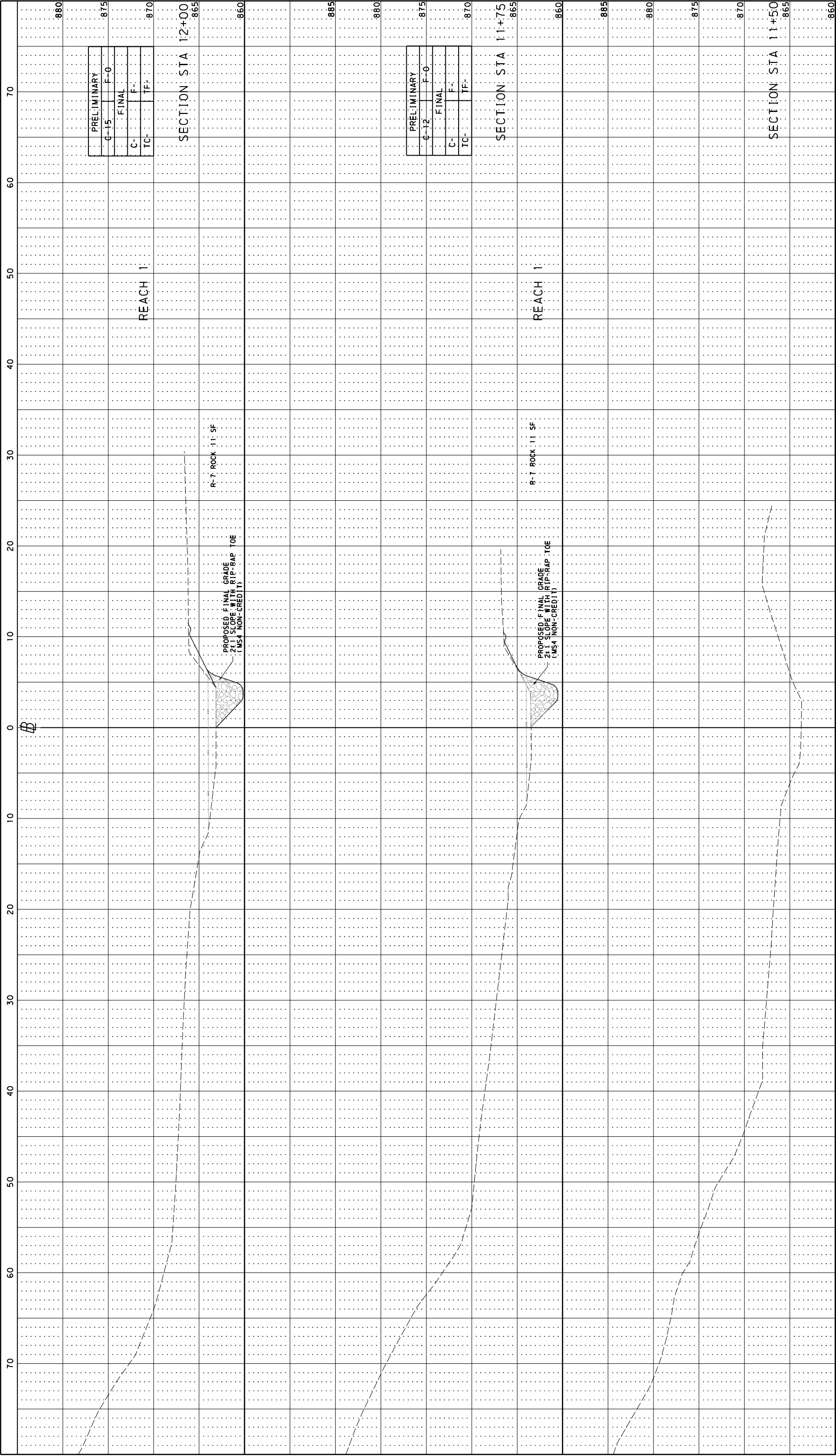
1. IT IS RECOMMENDED THAT COIR LOGS BE SATURATED PRIOR TO INSTALLATION TO MINIMIZE FLOATATION
2. EXCAVATE A SHALLOW TRENCH AT THE TOE OF SLOPE TO A DEPTH SLIGHTLY BELOW THE CHANNEL GRADE.
3. PLACE COIR LOG IN THE TRENCH.
4. DRIVE 2"x 2"x 36" STAKES BETWEEN THE BINDING AND THE FIBER AS SHOWN ABOVE. STAKES SHOULD BE PLACED ON 2'-TO-4' FOOT CENTERS, DEPENDING ON ANTICIPATED FLOW VELOCITIES. WHERE FLOATATION IS A POSSIBILITY , THE LANDWARD STAKES MAY BE DRIVEN PERPENDICULAR TO THE BANK SLOPE.
5. IN AREAS THAT EXPERIENCE ICE OR WAVE ACTION, ROLLS MAY BE SECURED WITH 16-GAGE WIRE TIED AROUND NOTCHED STAKES.
6. BACKFILL SOIL BEHIND FIBER ROLL.



2 BAG MIN HEIGHT ABOVE NORMAL BASE FLOW

TEMPORARY SANDBAG COFFERDAM

NOTE: ALTERNATIVE JERSEY BARRIER COFFERDAM MAY BE UTILIZED.



PREPARED BY:

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

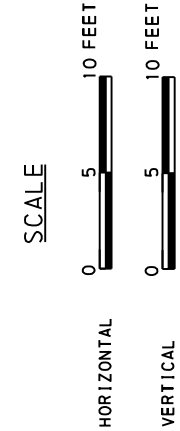
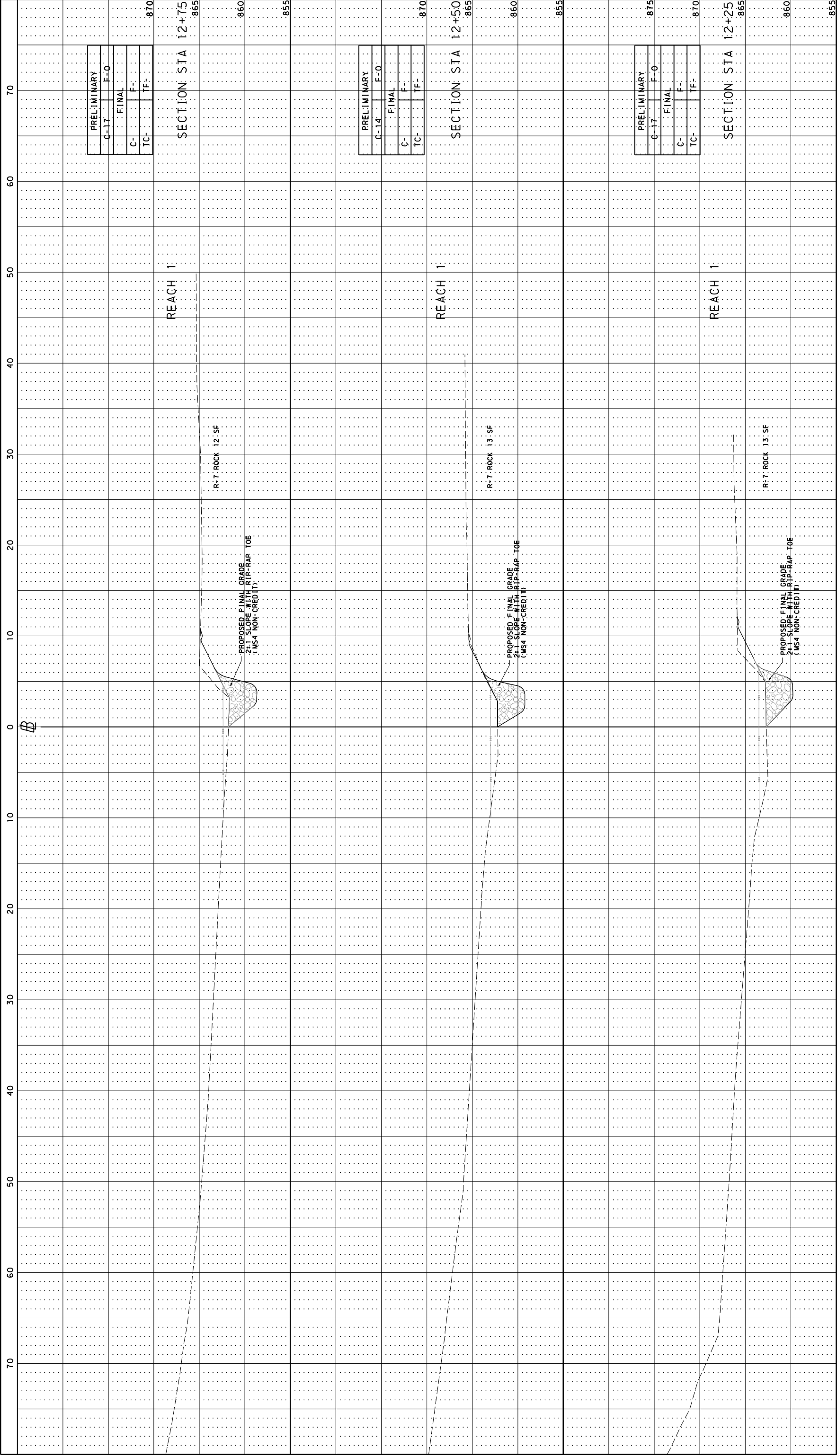
DATE	REVISIONS	
	TYPE	BY
		CHK

CROSS SECTION
PREPARED FOR

WEST MAYFIELD BOROUGH

SITUATE IN:
NEW BRIGHTON BOROUGH
BEAVER COUNTY, PENNSYLVANIA

PROJECT #:		23016
FIELD BOOK #:		
DRAWN: JWL	CHECKED: DAS	
DATE: JANUARY 2024	SCALE: AS NOTED	
DRAWING NUMBER	SHEET NUMBER	8 OF 16



PREPARED BY:

806 LINCOLN PLACE, BEAVER FALLS, PA 15010

INC.

REVISIONS			
DATE	TYPE	BY	CHK

CROSS SECTION

PREPARED FOR

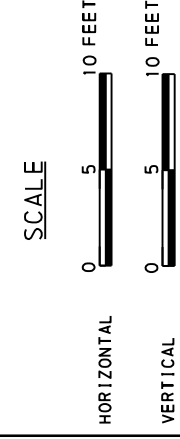
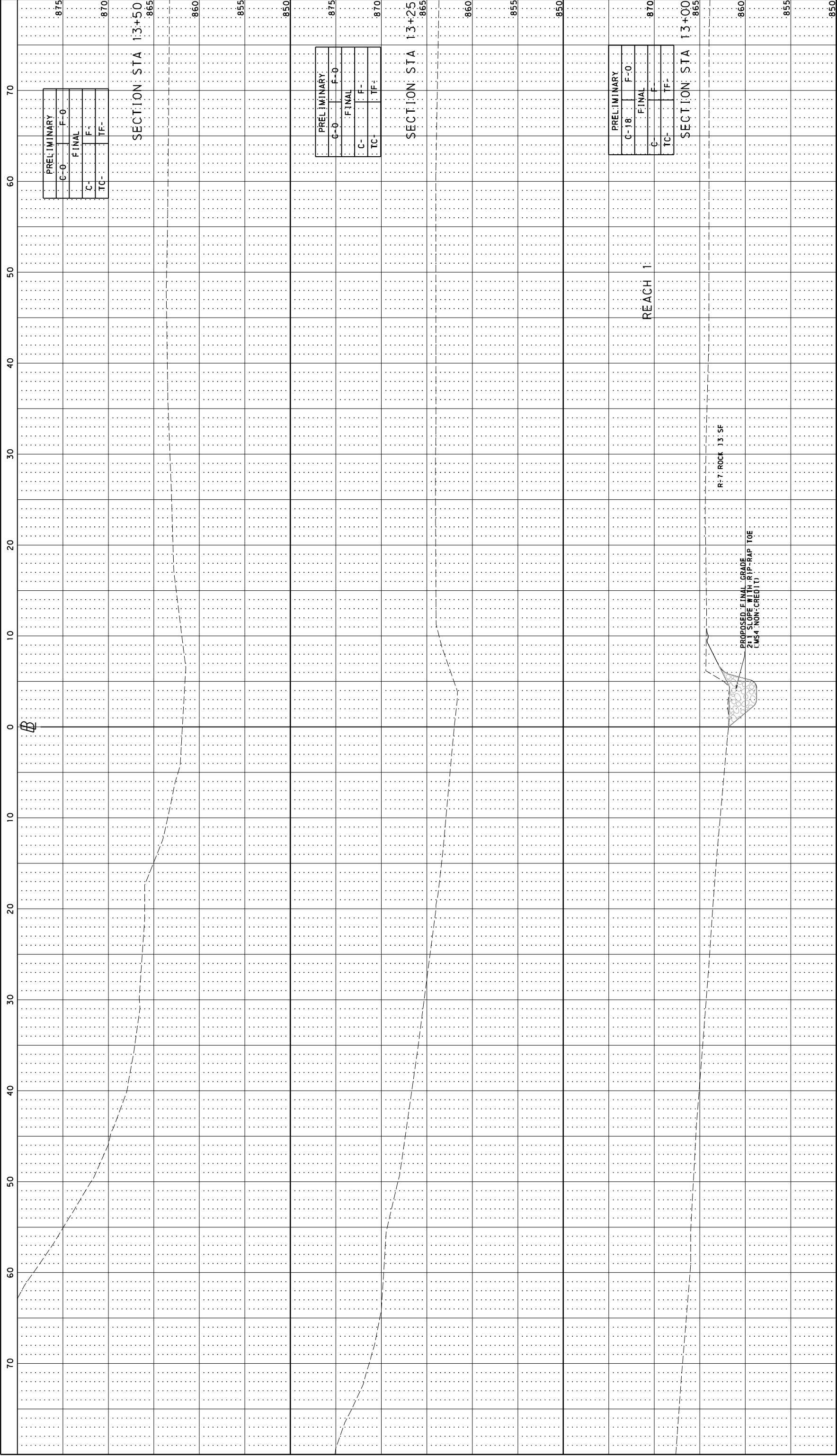
WEST MAYFIELD BOROUGH

SITUATE IN:

NEW BRIGHTON BOROUGH

BEAVER COUNTY, PENNSYLVANIA

PROJECT #:		23016
FIELD BOOK #:		
DRAWN:	JWL	CHECKED: DAS
DATE:	JANUARY 2024	
SCALE:	AS NOTED	
DRAWING NUMBER	SHEET NUMBER	9 OF 16



WIDMER ENGINEERING
806 LINCOLN PLACE BEAVER FALLS, PA 15010

PREPARED BY: _____

DATE: _____

REVISIONS TYPE _____

BY: _____

CHK: _____

CROSS SECTION
PREPARED FOR: **WEST MAYFIELD BOROUGH**

SITUATE IN:
NEW BRIGHTON BOROUGH
BEAVER COUNTY, PENNSYLVANIA

PROJECT #: 23016

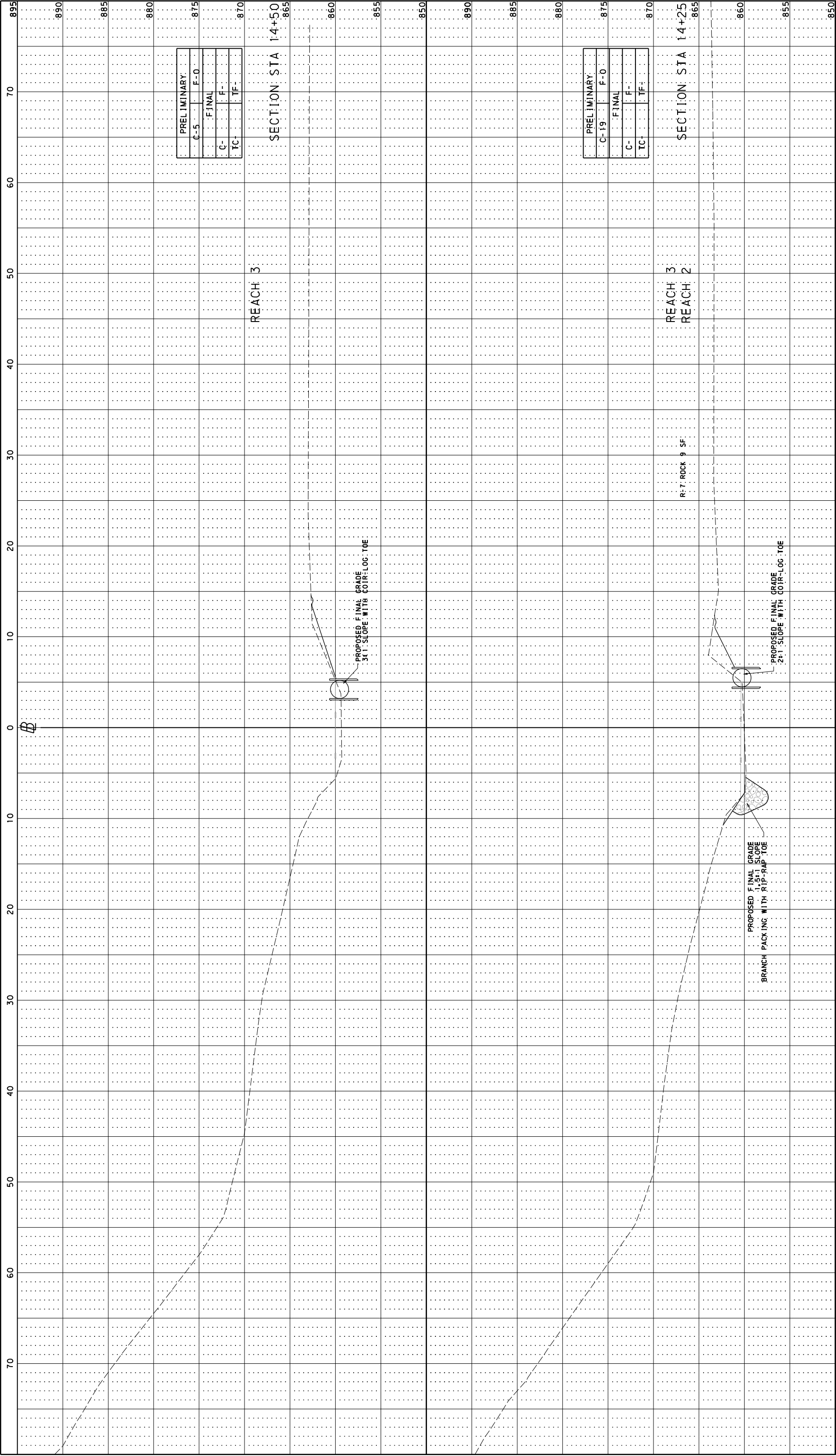
FIELD BOOK #:

DRAWN: JWL CHECKED: DAS

DATE: JANUARY 2024

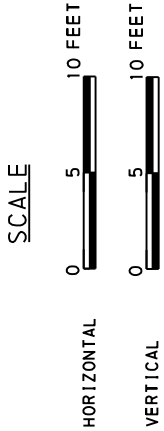
SCALE: AS NOTED

DRAWING NUMBER: SHEET NUMBER 10 OF 16



PRELIMINARY	
C-5	F-0
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-19	F-0
FINAL	
C-	F-
TC-	TF-



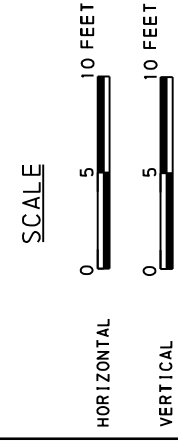
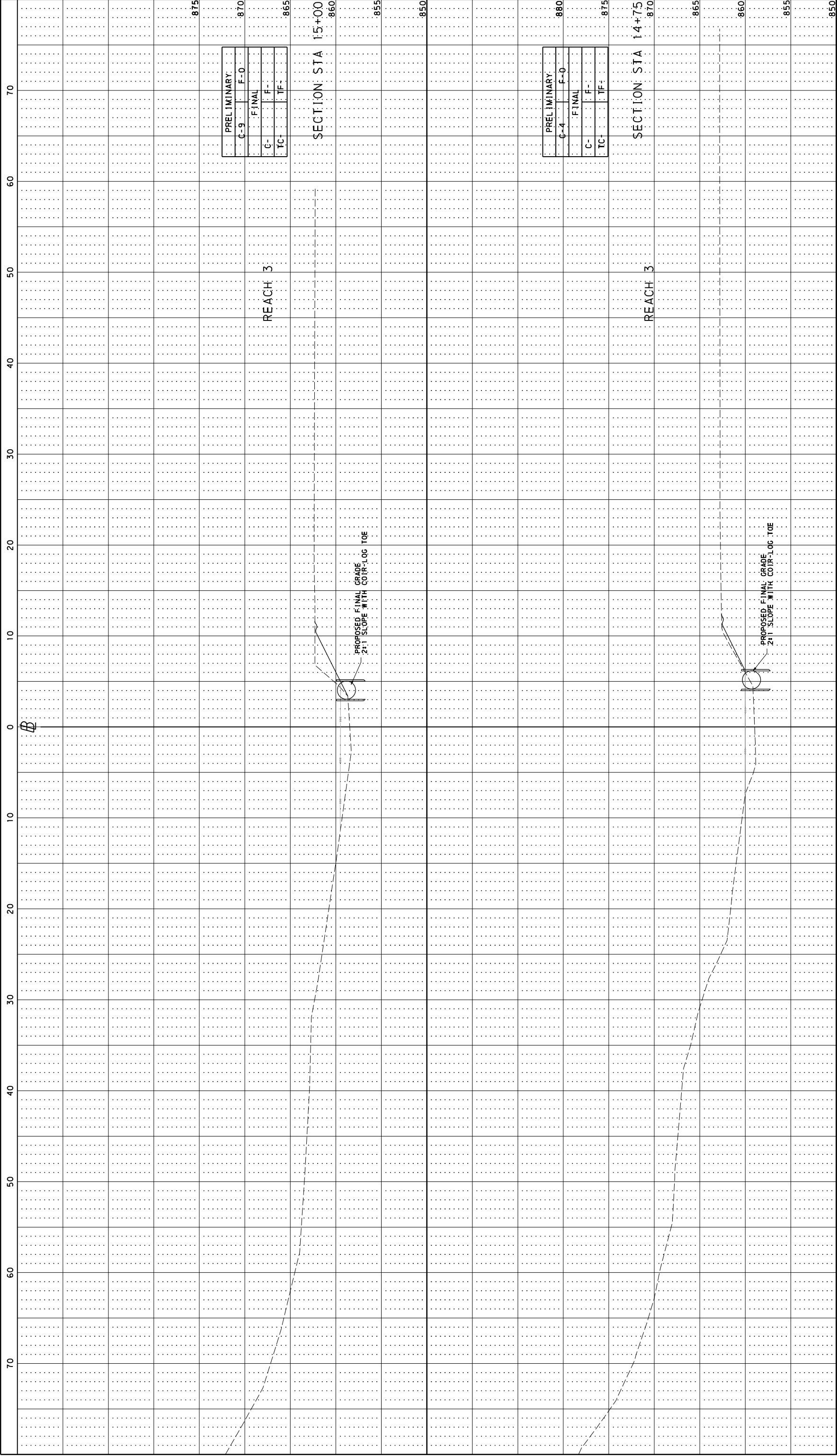
SCALE



DATE	REVISIONS	BY	CHK
	TYPE		

CROSS SECTION		PROJECT #	23016
PREPARED FOR		FIELD BOOK #	
DRAWN	JWL	CHECKED	DAS
DATE	JANUARY 2024	SCALE	AS NOTED
DRAWING NUMBER		SHEET NUMBER	12 OF 16

WEST MAYFIELD BOROUGH
SITUATE IN:
NEW BRIGHTON BOROUGH
BEAVER COUNTY, PENNSYLVANIA



WIDMER ENGINEERING INC.

808 LINCOLN PLACE BEAVER FALLS, PA 15010

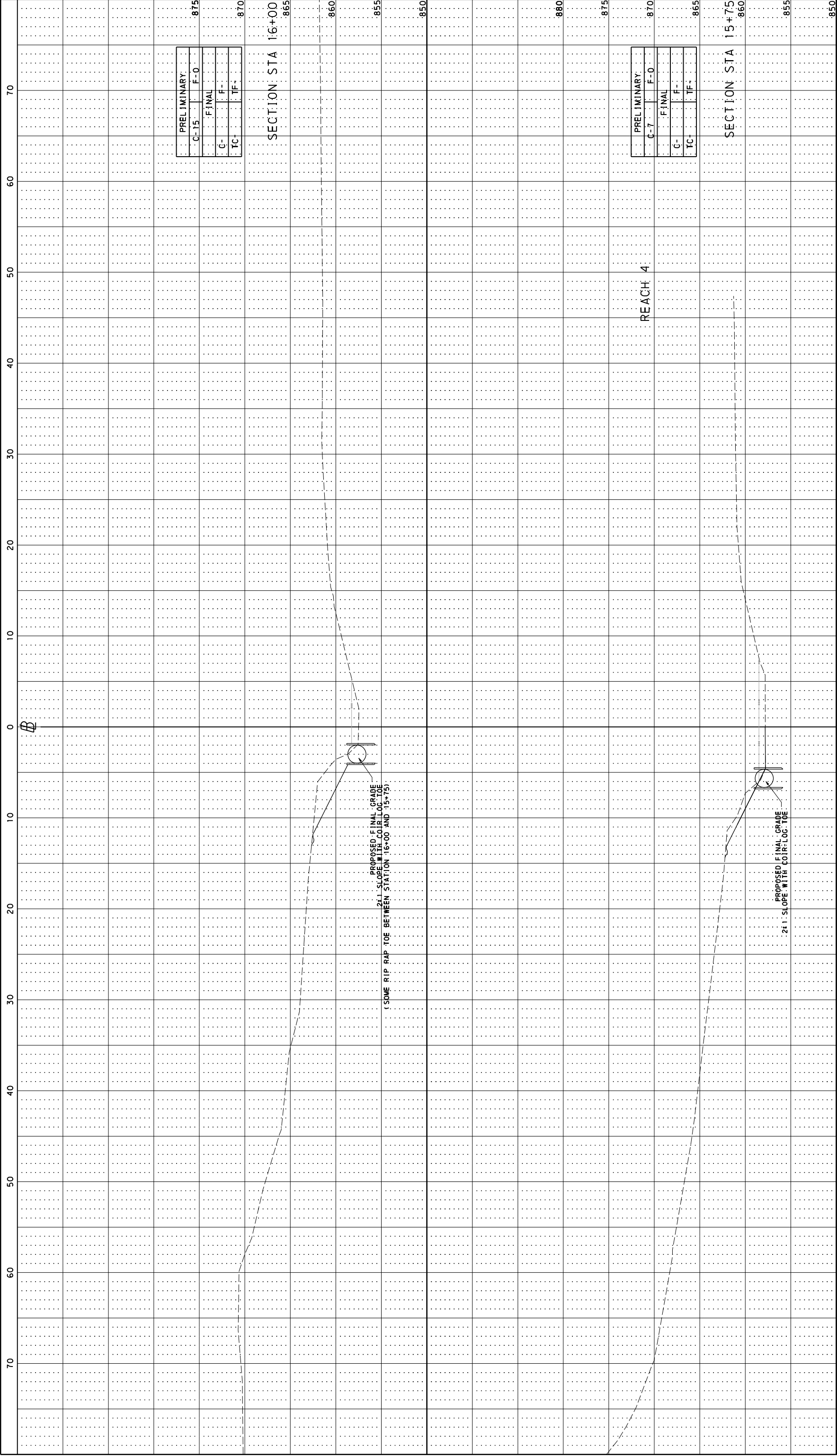
DATE	REVISIONS		BY	CHK
	TYPE			

CROSS SECTION
PREPARED FOR

WEST MAYFIELD BOROUGH

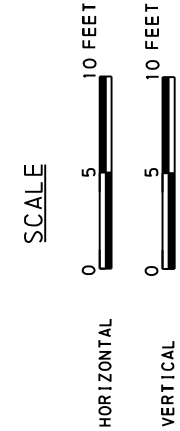
SITUATE IN:
NEW BRIGHTON BOROUGH
BEAVER COUNTY, PENNSYLVANIA

PROJECT #		23016
FIELD BOOK #		
DRAWN	JWL	CHECKED: DAS
DATE	JANUARY 2024	
SCALE	AS NOTED	
DRAWING NUMBER	SHEET NUMBER	13 OF 16



PRELIMINARY			
C-15	F-0		
FINAL			
C-	F-		
TC-	TF-		

PRELIMINARY			
C-7	F-0		
FINAL			
C-	F-		
TC-	TF-		



WIDMER ENGINEERING INC.

808 LINCOLN PLACE BEAVER FALLS, PA 15010

PREPARED BY:

DATE:

REVISIONS TYPE:

BY:

CHK:

CROSS SECTION PREPARED FOR

WEST MAYFIELD BOROUGH

SITUATE IN:

NEW BRIGHTON BOROUGH

BEAVER COUNTY, PENNSYLVANIA

PROJECT #:

23016

FIELD BOOK #:

DRAWN: JWL

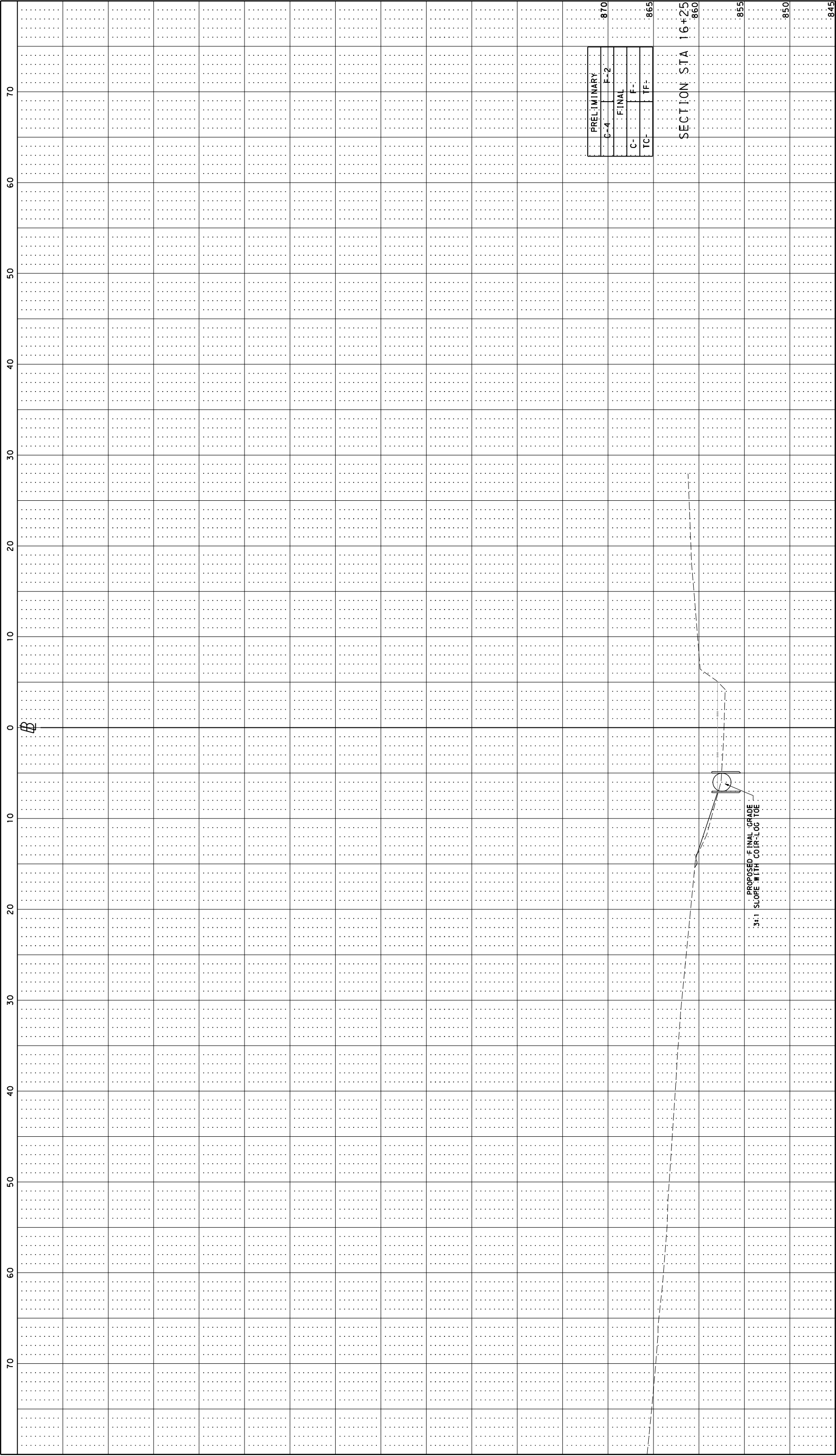
CHECKED: DAS

DATE: JANUARY 2024

SCALE: AS NOTED

DRAWING NUMBER: SHEET NUMBER

15 OF 16



PRELIMINARY				870
C-4	F-2			
FINAL				
C-	F-			
TC-	TF-			865

SECTION STA 16+25
860

PROPOSED FINAL GRADE
3:1 SLOPE WITH 10' LOG TOE

855

850

845

0

5

10 FEET

0

5

10 FEET

HORIZONTAL

VERTICAL

SCALE

PREPARED BY:

DATE

REVISIONS

TYPE

BY

CHK

WIDMER

ENGINEERING

INC.

808 LINCOLN PLACE BEAVER FALLS, PA 15010

WEST MAYFIELD BOROUGH

PREPARED FOR

SITUATE IN:

NEW BRIGHTON BOROUGH

BEAVER COUNTY, PENNSYLVANIA

PROJECT #:

23016

FIELD BOOK #:

DRAWN:

JWL

CHECKED:

DAS

DATE:

JANUARY 2024

SCALE:

AS NOTED

DRAWING NUMBER

SHEET NUMBER

16 OF 16

Section G – Identify Responsible Parties for Operation and Maintenance (O&M) of BMPs

The Operation and Maintenance (O&M) activities for each BMP are included in the table below. If the BMP is located on private land, the landowner must convey an easement to the Borough of West Mayfield to allow for access for periodic inspection and maintenance, as needed. Actual O&M activities will be listed in the Annual MS4 Status Report sent to the PADEP under the General Permit.

BMP #	Parties Responsible for O&M	O& M Activities	Frequency for O&M Activities
1	BOROUGH Public Works Directors, maintenance staff; Consultants as required	Monitor Walnut Bottom Run in restored area	Inspect once a month and after major storms for the first 5 years after construction

Borough of West Mayfield

MS4 Program

PRP Final Report Narrative and Schedule

9/25/26

Narrative

The Borough of West Mayfield's PRP was approved by DEP on 8/24/2018 which included a stream restoration at Walnut Bottom Run. Permitting and funding took longer than anticipated and the project was somewhat delayed. Bids were accepted for the job on April 4, 2024. The streambank restoration project was completed on May 9, 2024. An inspection of the site occurred roughly one year later on July 31, 2025. The work performed throughout this timeline was satisfactory.

The Borough has been implementing the streambank restoration BMP. This report contains the progress made to date in this effort. The streambank restoration project has obtained DEP permit(s) needed (GP-3, GP-8) and the Solicitor has obtained the necessary easements for the work that was completed.

Schedule to Complete Pollutant Load Reduction Requirements

The Borough's streambank restoration was completed on May 9, 2024, and the updated report is included with this submission.