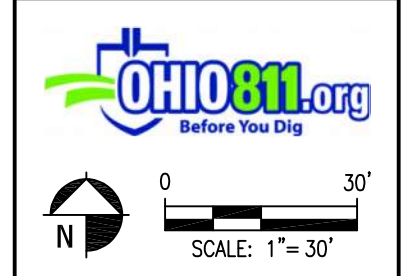


ROCKAWAY CIVIL
 Rockaway Civil LLC
 10191 Sperry Road Kirtland Ohio 44094
 440 655 8182 www.rockawaycivil.com



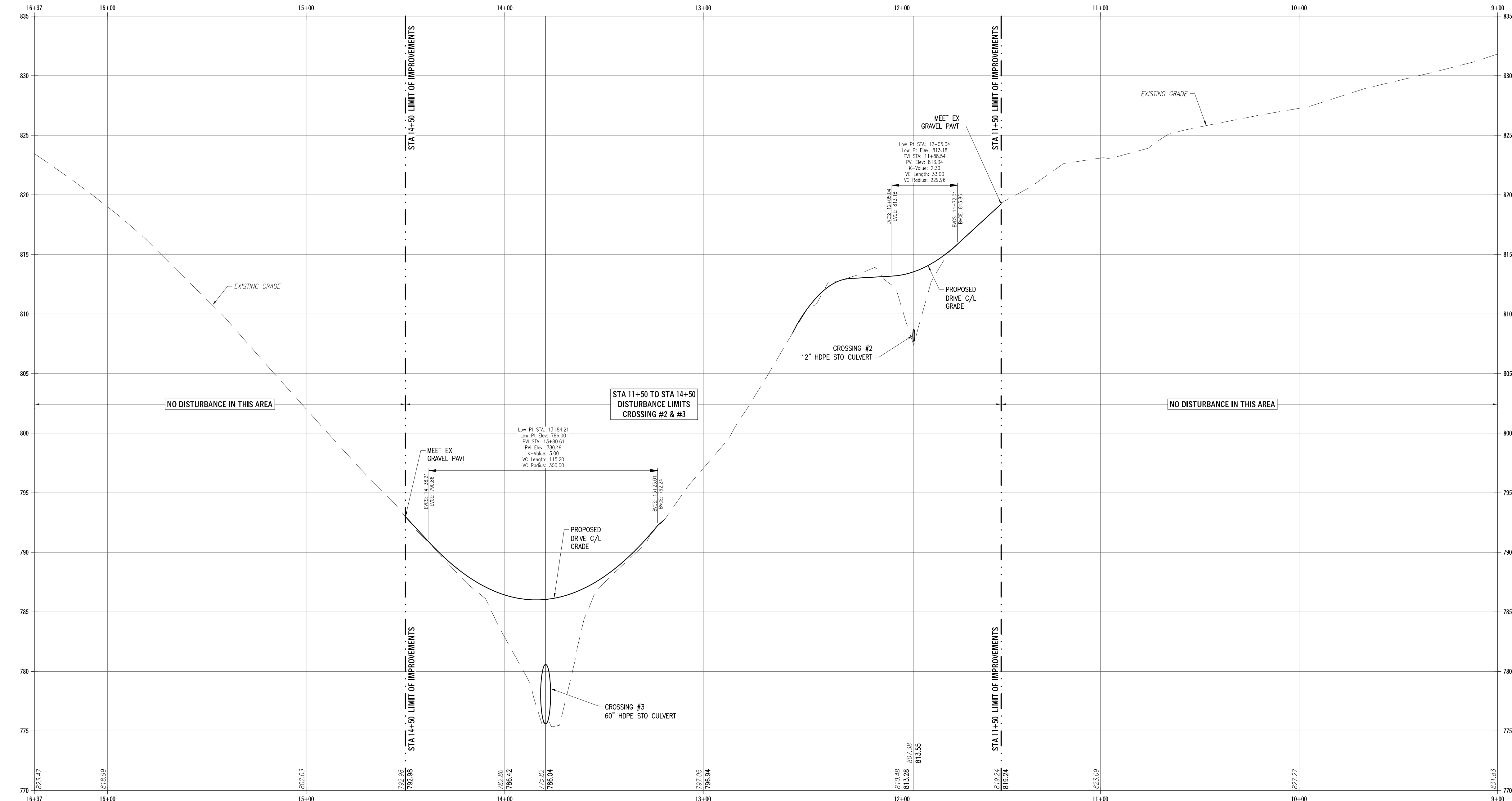
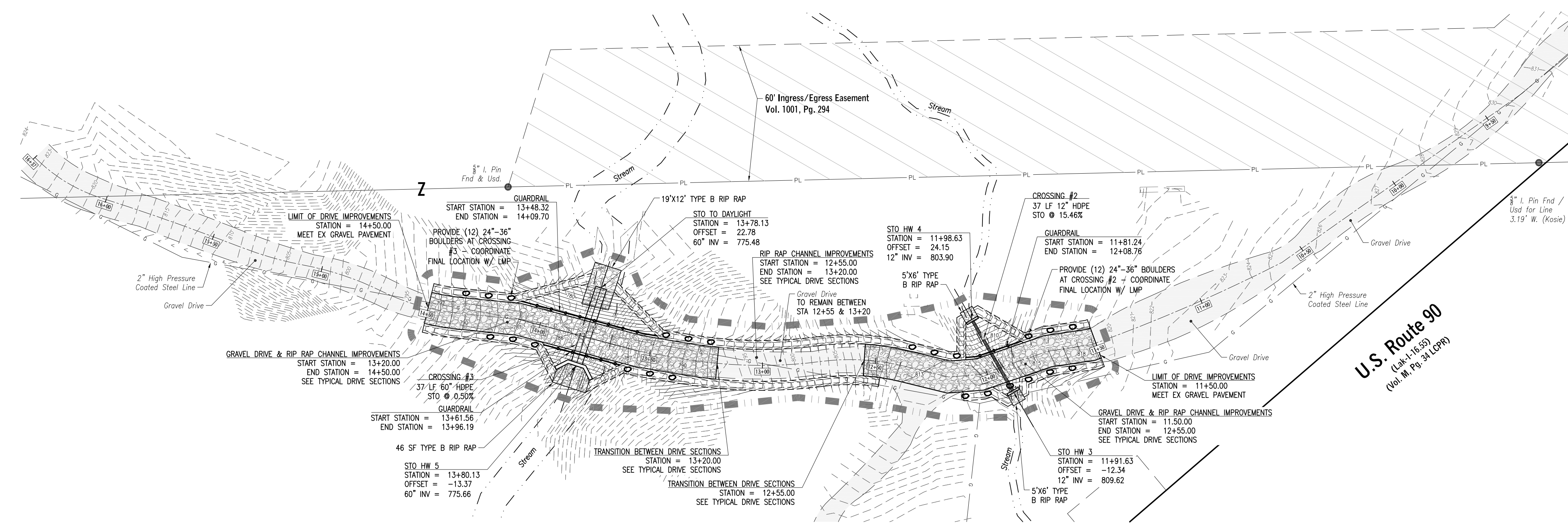
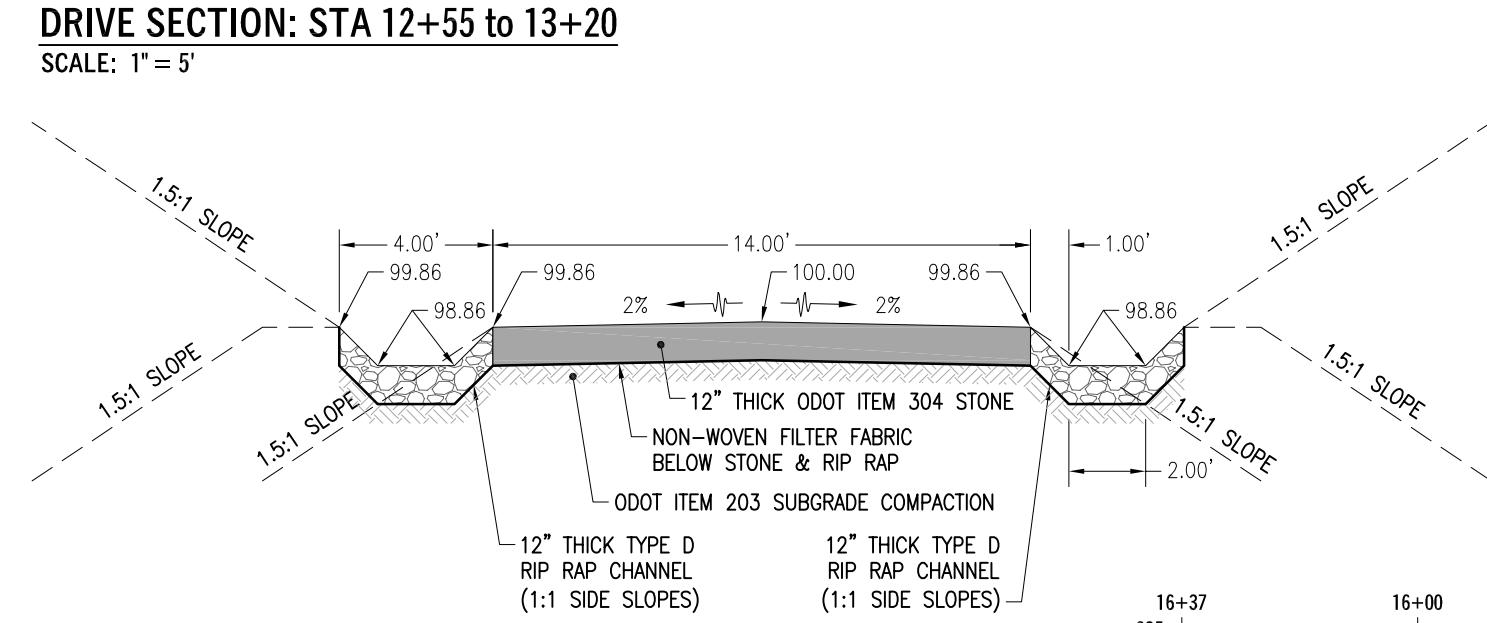
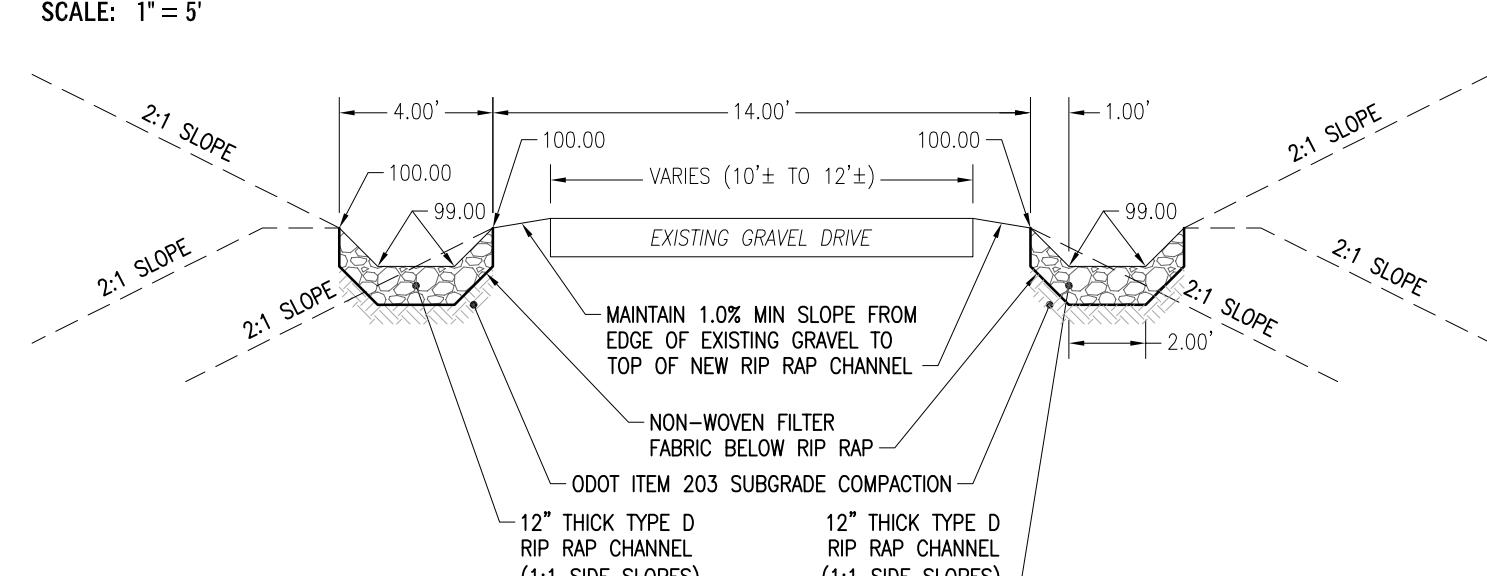
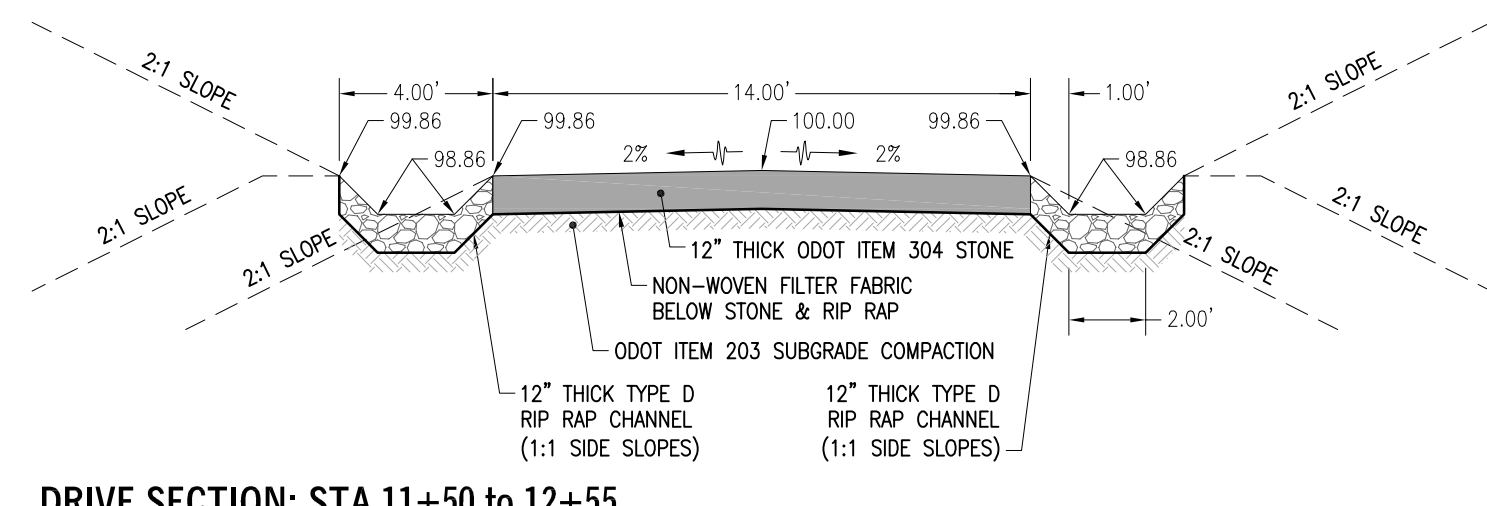
HEMLOCK RIDGE SERVICE DRIVE IMPROVEMENTS
 5800 VROOMAN ROAD
 LEROY TOWNSHIP, OH 44077

Project Name	

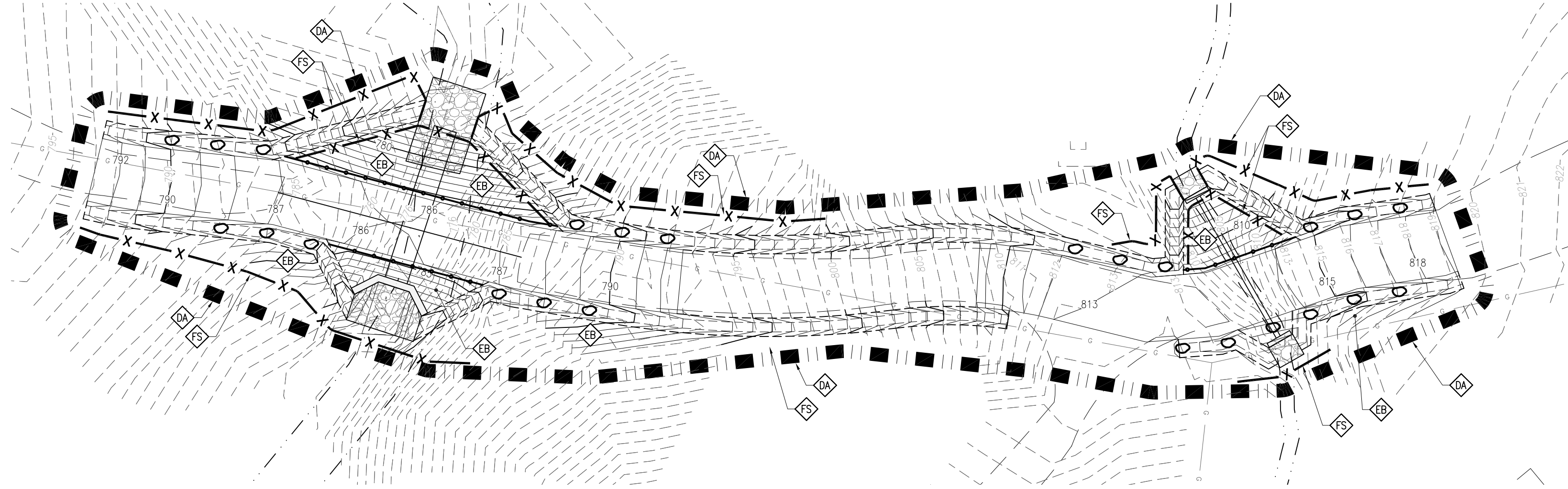
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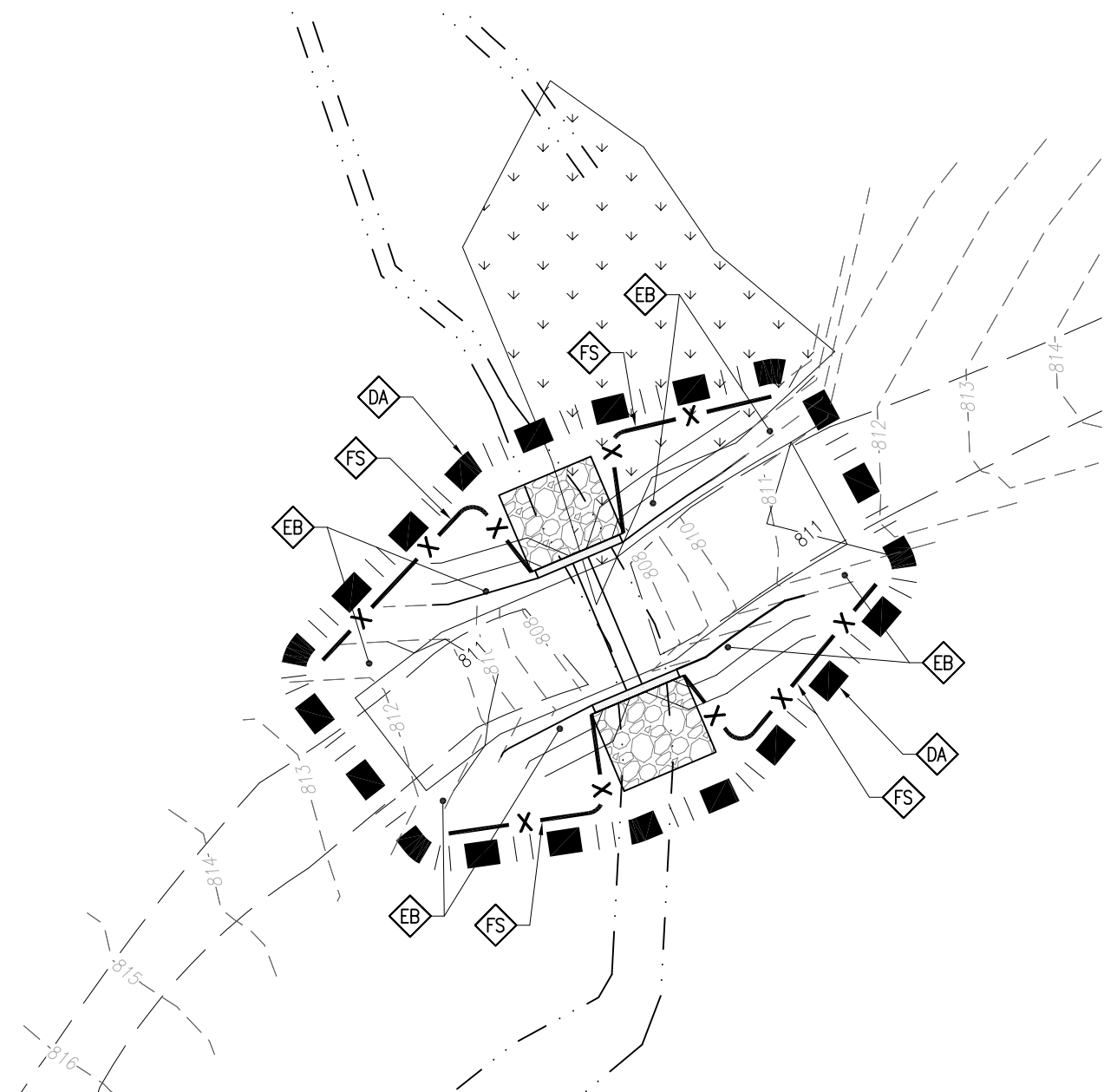
PLAN & PROFILE 9+00 to 16+37
Sheet Name
C101
Sheet #
RC Project # 24-021



PROFILE 9+00 TO 16+37
 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 5'



SWP3 - CROSSING #2 & #3
SCALE: 1" = 20'



SWP3 - CROSSING #1
SCALE: 1" = 20'

SWP3-1 NOTES

OHIO EPA FACILITY PERMIT NUMBER: N/A - PROJECT WILL DISTURB LESS THAN 1.0 ACRE

SITE DESCRIPTION:

1. THIS PROJECT WILL CONSIST OF REMOVAL & REPLACEMENT OF THE EXISTING GRAVEL DRIVE & INSTALLATION OF THREE NEW STORM CULVERTS, TO PROVIDE VEHICLE ACCESSIBLE STREAM CROSSINGS.
2. THE TOTAL SITE AREA IS 224.820 ACRES AND THE EXPECTED AREA TO BE DISTURBED WITHIN THAT SITE IS 0.372 ACRES.
3. PER THE USDA SOIL SURVEY, THE SOIL TYPES FOR MOST OF THE SITE ARE:
GOF GOSPORT SILTY CLAY LOAM
LB LOBBELL SILT LOAM
PE22 PEERPOINT SILT LOAM
PSB PLATEAU SILT LOAM
TG TIOGA LOAM
LUD LUDWORTHS
LUD LUDWORTHS
4. THIS PROJECT CURRENTLY CONSISTS OF A GRAVEL DRIVEWAY THAT HAS BEEN USED TO ACCESS GAS WELLS & POWER LINES (EASEMENT TO CEI). NO OTHER PRIOR LAND USES ARE KNOWN.
5. SEE STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION SCHEDULE.
6. IMMEDIATE RECEIVING STREAM OR SURFACE WATER - THE STORM WATER THE STORM WATER DRAINS TO TRIBUTARIES OF THE GRAND RIVER.
7. THIS PROJECT IS NOT A SUBDIVIDED DEVELOPMENT.
8. THERE ARE NOT STORM WATER DISCHARGES ASSOCIATED WITH DEDICATED ASPHALT OR DEDICATED CONCRETE PLANTS ASSOCIATED WITH THIS SITE.
9. SEE COVER SHEET FOR ADDITIONAL PROJECT INFORMATION.

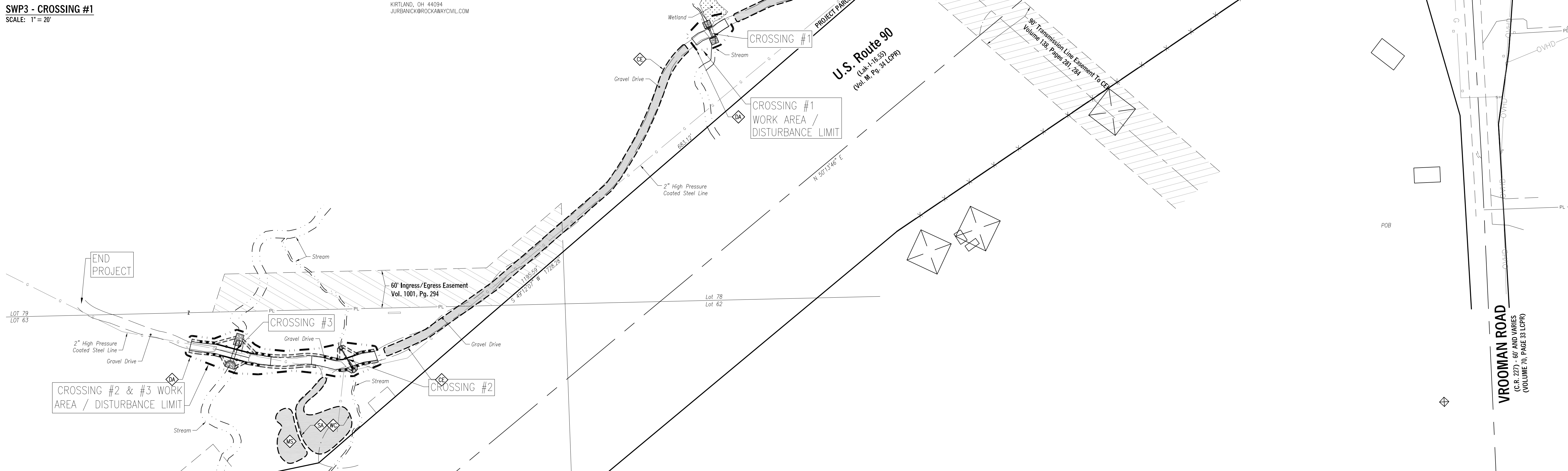
CONTACT INFORMATION:

10. THE OPERATOR RESPONSIBLE FOR IMPLEMENTATION OF STORM WATER POLLUTION PREVENTION PLAN:
NOT KNOWN AT THIS TIME
11. THE CERTIFIED PROFESSIONAL WHO PREPARED THE COMPREHENSIVE STORM WATER MANAGEMENT PLAN AND IS AUTHORIZED TO AMEND SAID PLAN.
JOHN URBANICK - ROCKAWAY CIVIL
10191 SPERRY ROAD
KIRTLAND, OH 44094
JURBANICK@ROCKAWAYCIVIL.COM

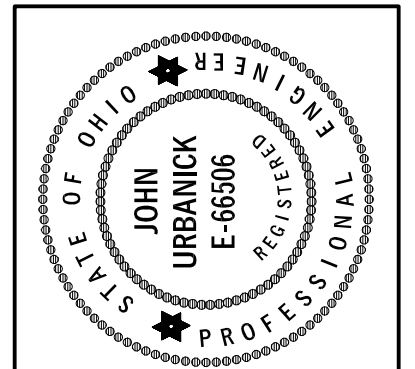
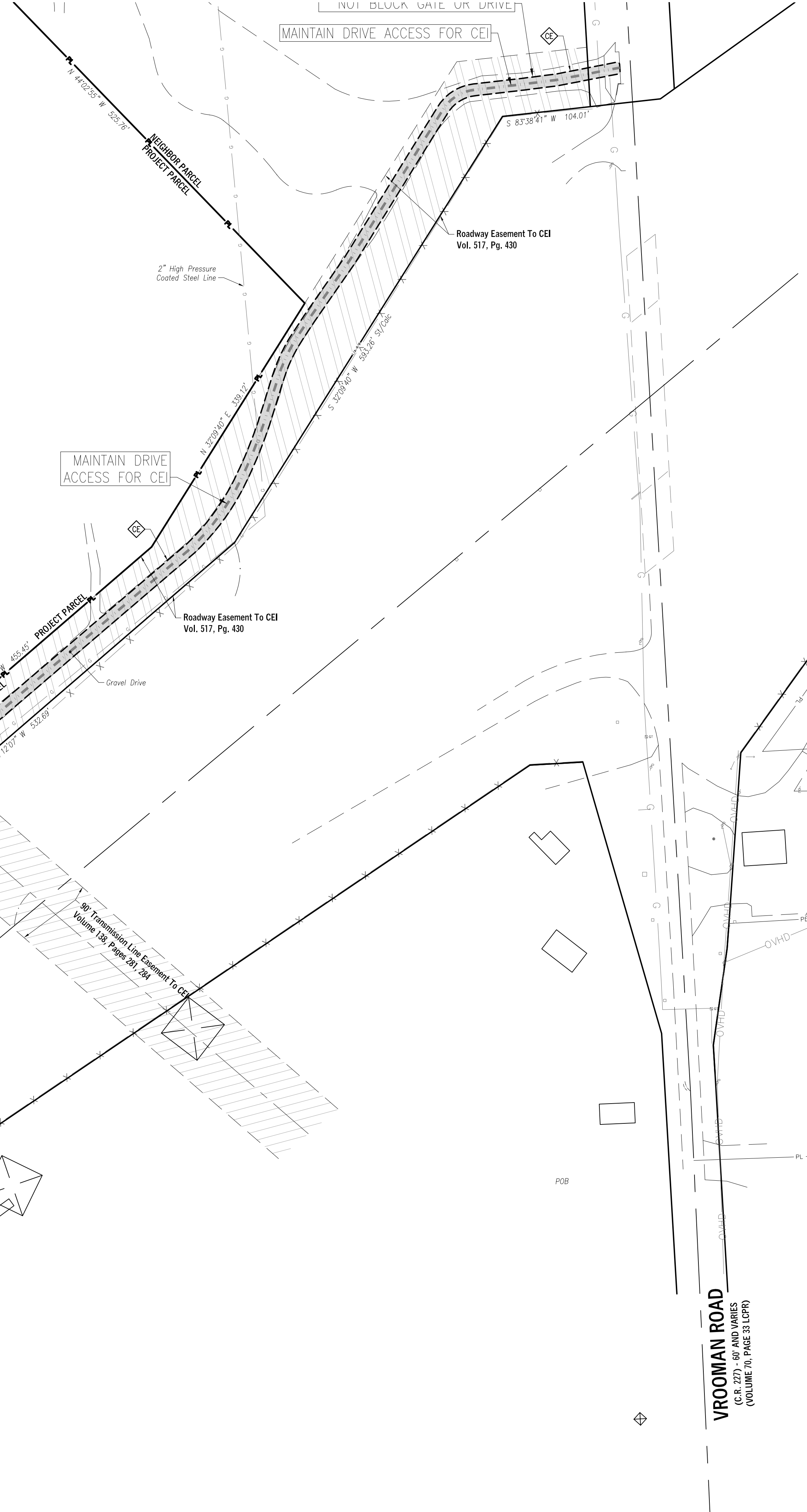
12. THE SITE OWNER:
SETH OLDHAM - LAKE METROPARKS
11211 SPEAR ROAD
CONCORD TOWNSHIP, OH 44077
SOLDHAM@LAKEMETROPARKS.COM
13. SEE APPENDIX 1 - GRADING AND STABILIZATION ACTIVITIES LOG
14. SEE SWP3-1 AND SWP3-2
15. OTHER CONTROLS:
 - IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO SOIL, THE SOIL SHOULD BE DIG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL).
 - SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER, OR OTHER ABSORBENT MATERIAL & DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL.
 - HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, AND CEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING.
 - LARGE PETROLEUM SPILLS (>25 GALLONS) SHALL BE REPORTED TO THE OHIO EPA (1-800-282-9378), LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MINUTES OF THE DISCOVERY OF THE RELEASE.
19. PROJECT DATES (APPROXIMATE):
START DATE MARCH 2025
END DATE DEC. 2025

SWP3-1 KEY NOTE LEGEND

- DA = EARTH DISTURBANCE AREA
- CE = CONSTRUCTION ENTRANCE - UTILIZE THE EXISTING GRAVEL DRIVE TO ACCESS THE PROJECT AREAS
- SA = STAGING AREA - SHOWN FOR REFERENCE ONLY - COORDINATE FINAL LOCATION WITH LMP & NEIGHBORING PROPERLY OWNER, AS NECESSARY.
- WC = WASTE CONTAINER AREA - SHOWN FOR REFERENCE ONLY - COORDINATE FINAL LOCATION WITH LMP & NEIGHBORING PROPERLY OWNER, AS NECESSARY.
- CW = CONCRETE WASHOUT AREA - SHOWN FOR REFERENCE ONLY - COORDINATE FINAL LOCATION WITH LMP & NEIGHBORING PROPERLY OWNER, AS NECESSARY.
- MS = MATERIAL STOCKPILE AREA, PROVIDE FILTER SOCK AT LIMITS - SHOWN FOR REFERENCE ONLY - COORDINATE FINAL LOCATION WITH LMP & NEIGHBORING PROPERLY OWNER, AS NECESSARY.
- FS = FILTER SOCK
- EB = EROSION CONTROL BLANKETS - REQUIRED ON ALL DISTURBED SLOPES 6:1 AND STEEPER



SWP3 - OVERALL PROJECT AREA
SCALE: 1" = 80'



HEMLOCK RIDGE SERVICE DRIVE IMPROVEMENTS
5800 VROOMAN ROAD
LEROY TOWNSHIP, OH 44077

Project Name	
Sheet Revision	
1 BID	01-16-2025
Project Issue	
SWP3-1	
Sheet Name	
C200	
Sheet #	
RC Project # 24-021	

ADDITIONAL CONSTRUCTION SITE POLLUTION CONTROLS (PER ODNR RAINWATER & LAND DEVELOPMENT MANUAL)

DESCRIPTION
ALTHOUGH SEDIMENT IS THE PRIMARY POLLUTANT OF CONCERN RESULTING FROM CONSTRUCTION ACTIVITY, OTHER POLLUTANTS NEED TO BE CONSIDERED AS WELL. THESE INCLUDE PETROCHEMICALS, FUEL, OIL AND ASPHALT, AND CONSTRUCTION CHEMICALS AND MATERIALS: PAINTS, SOLVENTS, FERTILIZER, SOIL ADDITIVES, CONCRETE WASH WATER, ETC. ALSO INCLUDED ARE SOLID WASTES AND CONSTRUCTION DEBRIS. KEEPING THESE SUBSTANCES FROM POLLUTING RUNOFF CAN BE ACCOMPLISHED TO A LARGE EXTENT THROUGH GOOD HOUSEKEEPING AND FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS FOR THEIR USE AND DISPOSAL.

CONDITION WHERE PRACTICE APPLIES
WASTES GENERATED BY CONSTRUCTION ACTIVITIES (I.E. CONSTRUCTION MATERIALS SUCH AS PAINTS, SOLVENTS, FUELS, CONCRETE, WOOD, ETC.) MUST BE DISPOSED OF IN ACCORDANCE WITH OGC 3734 AND OGC 3714. HAZARDOUS AND TOXIC SUBSTANCES ARE USED ON VIRTUALLY ALL CONSTRUCTION-SITES. GOOD MANAGEMENT OF THESE SUBSTANCES IS ALWAYS NEEDED.

PLANNING CONSIDERATIONS
GOOD EROSION AND SEDIMENT CONTROL WILL PREVENT SOME POLLUTANTS IN ADDITION TO SEDIMENT FROM LEAVING THE SITE. HOWEVER, POLLUTANTS CARRIED IN SOLUTION OR AS SURFACE FILMS ON RUNOFF WATER WILL BE CARRIED THROUGH MOST EROSION AND SEDIMENT CONTROL PRACTICES. THESE POLLUTANTS BECOME NEARLY IMPOSSIBLE TO CONTROL ONCE CARRIED OFFSITE IN RUNOFF. ADDING TO THE PROBLEM IS THE FACT THAT CONSTRUCTION WASTES, MANY CONTAINING TOXIC CHEMICALS, ARE ROUTINELY BURIED ON-SITE, DUMPED ON THE GROUND, FLOURED DOWN A STORM DRAIN, OR DISPOSED OF WITH CONSTRUCTION DEBRIS. SO WHILE TYPICAL EROSION AND SEDIMENT-CONTROL PRACTICES ARE IMPORTANT FOR CONTROLLING OTHER POLLUTANTS, ADDITIONAL PREVENTATIVE MEASURES ARE NEEDED.

REDUCING POLLUTANTS OTHER THAN SEDIMENTS DEPENDS HEAVILY ON CONSTRUCTION PERSONNEL AND HOW THEY CARRY OUT THEIR OPERATIONS. TO HELP FACILITATE THIS, PLANS SHOULD CONTAIN STANDARD NOTES CLEARLY STATING REQUIREMENTS TO CONTRACTORS. IT ALSO MAY BE APPROPRIATE TO INCLUDE REQUIREMENTS FOR SPECIFIC PROVISIONS FOR HAZARDOUS MATERIALS STORAGE, HANDLING AND DISPOSAL.

REQUIREMENTS
1. EDUCATE CONSTRUCTION PERSONNEL, INCLUDING SUBCONTRACTORS WHO MAY USE OR HANDLE HAZARDOUS OR TOXIC MATERIALS, MAKING THEM AWARE OF THE FOLLOWING GENERAL GUIDELINES:

DISPOSAL AND HANDLING OF HAZARDOUS AND OTHER CONSTRUCTION WASTE

- DO:
- PREVENT SPILLS
 - USE PRODUCTS UP
 - FOLLOW LABEL DIRECTIONS FOR DISPOSAL
 - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
 - RECYCLE WASTES WHENEVER POSSIBLE

- DO NOT:
- DUMP POUR INTO WATERWAYS, STORM DRAINS OR ONTO THE GROUND
 - DUMP POUR DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
 - DUMP BURY CHEMICALS OR CONTAINERS
 - DUMP BURN CHEMICALS OR CONTAINERS
 - DUMP MIX CHEMICALS TOGETHER

- WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED FOR THE PROPER COLLECTION OF ALL WASTE MATERIAL, INCLUDING CONSTRUCTION DEBRIS, SANITARY PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ON-SITE. CONTAINERS SHALL BE COVERED AND NOT LEAKING. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL. CONSTRUCTION DEMOLITION AND DEBRIS (CD&D) WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH OGC 3714 AT AN APPROVED OHIO EPA COAD LANDFILL. CD&D WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH OGC 3714 AT AN APPROVED OHIO EPA COAD LANDFILL. CD&D WASTE IS DEFINED AS ALL MATERIALS ATTACHED TO A STRUCTURE, WHICH IS BEING DEMOLISHED FOR MATERIALS CONTAINING ASBESTOS SEE ITEM 12).
- NO CONSTRUCTION RELATED WASTE MATERIALS ARE TO BE BURIED ON-SITE. BY EXCEPTION, CLEAN FILL (BRICKS, HARDENED CONCRETE, SOIL) MAY BE UTILIZED IN A WAY THAT DOES NOT ENCRUST UPON NATURAL WETLANDS, STREAMS OR THEIR FLOODPLAINS. FILLING OF STREAM SIDE AREAS IS FILL MAY NOT RESULT IN THE CONTAMINATION OF WATERS OF THE STATE, UNLESS PROHIBITED BY LOCAL ORDINANCE OR ZONING.
- CONSTRUCTION AND DEMOLITION DEBRIS (CD&D) DISPOSAL. CD&D WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH OGC 3714 AT AN APPROVED OHIO EPA COAD LANDFILL. CD&D WASTE IS DEFINED AS ALL MATERIALS ATTACHED TO A STRUCTURE, WHICH IS BEING DEMOLISHED FOR MATERIALS CONTAINING ASBESTOS SEE ITEM 12).
- HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
- EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS. IN AN AREA DESIGNATED FOR THAT PURPOSE, THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL FUEL OIL STORAGE TANKS. THESE AREAS MUST BE INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HRS. OF A 0.5 INCH OR GREATER RAIN EVENT TO ENSURE THERE ARE NO EXPOSED MATERIALS WHICH WOULD CONTAMINATE STORM WATER. SITE OPERATORS MUST BE AWARE THAT SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) REQUIREMENTS MAY APPLY. AN SPCC PLAN IS REQUIRED FOR SITES WITH ONE SINGLE ABOVEGROUND TANK OF 660 GALLONS OR MORE, ACCUMULATIVE ABOVEGROUND STORAGE OF 1330 GALLONS OR MORE, OR 42,000 GALLONS OF UNDERGROUND STORAGE. SOILS THAT HAVE BECOME CONTAMINATED MUST BE DISPOSED OF ACCORDANCE WITH ITEM 8 (CONTAMINATED SOILS).
- CONCRETE WASH WATER/WASH OUTS. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED ON THE LOT AWAY FROM ANY WATER CONVEYANCES.
- CONTAMINATED SOILS. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED INTO THE SOIL, THE SOIL SHOULD BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY AND/OR OTHER APPROVED PETROLEUM CONTAMINATED SOIL REMEDIATION FACILITY (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). PLEASE BE AWARE THAT STORM WATER RUNOFF ASSOCIATED WITH CONTAMINATED SOILS ARE NOT AUTHORIZED UNDER OHIO EPA'S GENERAL STORM WATER PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITIES. IN THE EVENT THERE ARE LARGE EXTENSIVE AREAS OF CONTAMINATED SOILS ADDITIONAL MEASURES ABOVE AND BEYOND THE CONDITIONS OF OHIO EPA'S GENERAL CONSTRUCTION STORM WATER PERMIT WILL BE REQUIRED. DEPENDING ON THE EXTENT OF CONTAMINATION, ADDITIONAL TREATMENT AND/OR COLLECTION AND DISPOSAL MAY BE REQUIRED. ALL STORM WATER DISCHARGES ASSOCIATED WITH THE CONTAMINATED SOILS MUST BE AUTHORIZED UNDER AN ALTERNATE NPDES (NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT.
- SPILL REPORTING REQUIREMENTS: SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR OTHER ABSORBENT MATERIAL AND DISPOSED OF WITH THE TRASH AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL, GREASES, AND GEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING PROCEDURES REPORTED TO OHIO EPA (1-800-282-9378). SPILLS OF 25 GALLONS OR MORE OF PETROLEUM PRODUCTS SHALL BE REPORTED TO OHIO EPA (1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE WITHIN 30 MIN. OF THE DISCOVERY OF THE RELEASE. ALL SPILLS, WHICH RESULT IN CONTACT WITH WATERS OF THE STATE MUST BE REPORTED TO OHIO EPA'S HOTLINE.
- OPEN BURNING. NO MATERIALS MAY BE BURNED WHICH CONTAIN RUBBER, GREASE, ASPHALT, OR PETROLEUM PRODUCTS SUCH AS TIRES, CARS, AUTO PARTS, PLASTICS OR PLASTIC COATED WIRE. (SEE OAC 3745-19) OPEN BURNING IS NOT ALLOWED IN RESTRICTED AREAS. RESTRICTED AREAS ARE DEFINED AS: 1) WITHIN CORPORATION LIMITS, 2) WITHIN 1000 FEET OUTSIDE A MUNICIPAL CORPORATION HAVING A POPULATION OF 1000 TO 10,000; AND 3) A ONE MILE ZONE OUTSIDE OF A CORPORATION OF 10,000 OR MORE. OUTSIDE A RESTRICTED AREA, NO OPEN BURNING CAN TAKE PLACE WITHIN A 1000 FEET OF AN INHABITED BUILDING LOCATED OFF THE PROPERTY WHERE THE FIRE IS SET. OPEN BURNING IS PERMISSIBLE IN A RESTRICTED AREA FOR THE FOLLOWING ACTIVITIES: HEATING, TAIL WELDING AND ACETYLENE TORCHES, SMOKE POTS AND SIMILAR OCCUPATIONAL NEEDS, AND HEATING FOR WARMTH OR OUTDOOR BARBECUES. OUTSIDE OF RESTRICTED AREAS, OPEN BURNING IS PERMISSIBLE FOR LANDSCAPE WASTES (PLANT MATERIAL), LAND-CLEARING WASTES (PLANT MATERIAL, WITH PRIOR WRITTEN PERMISSION FROM OHIO EPA), AND AGRICULTURAL WASTES (MATERIAL GENERATED BY CROP, HORTICULTURAL, OR LIVESTOCK PRODUCTION PRACTICES. THIS INCLUDES FENCE POSTS AND SCRAP LUMBER, BUT NOT BUILDINGS).

STORM WATER POLLUTION PREVENTION PLAN IMPLEMENTATION SCHEDULE:

ITEMS LISTED IN THIS IMPLEMENTATION SCHEDULE ARE TO BE ADDRESSED CHRONOLOGICALLY IN THE ORDER THEY ARE LISTED. THIS IMPLEMENTATION SCHEDULE IS TO BE USED AS A GENERAL GUIDE FOR STORM WATER POLLUTION PREVENTION ITEMS. AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF ANY STORM EVENT GREATER THAN 0.5 INCH PER 24 HOUR PERIOD. EROSION AND SEDIMENT CONTROLS THAT ARE FOUND TO BE IN NEED OF REPAIR DURING THE INSPECTION ARE TO BE REPAIRED WITHIN 3 DAYS OF THE INSPECTION.

- CONTRACTOR IS TO REVIEW THIS PLAN PRIOR TO INITIATING ANY WORK ON SITE. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REVIEWING AND OBTAINING AN NPDES PERMIT FROM THE OHIO EPA PRIOR TO INITIALIZATION OF WORK ON THE SITE.
- CONSTRUCTION ACCESS DRIVE SHALL BE LIMITED AS SHOWN ON THE PLANS. ALL VEHICLES ENTERING THE SITE DURING CONSTRUCTION ARE TO USE THIS DRIVE FOR INGRESS AND EGRESS. THIS IS THE ONLY POINT OF INGRESS AND EGRESS TO BE USED DURING THE ENTIRE CONSTRUCTION PROCESS IN ORDER TO REDUCE CONSTRUCTION MATERIALS FROM BEING MOVED ONTO PUBLIC ROADWAYS. THE DRIVE IS TO BE INSPECTED FOR INTEGRITY AT THE END OF EACH DAY. REPAIRS ARE TO BE MADE AND THE DRIVE SHALL BE CLEANED AS NECESSARY.
- THE LIMITS OF DISTURBANCE / CLEARING SHALL BE STAKED OUT PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- THE STAGING AREA IS TO BE INSTALLED AT THE LOCATION DEPICED ON THIS SWPPP. ALL VEHICLES THAT ARE NOT IN USE OR ARE TO REMAIN OVERNIGHT ARE TO BE KEPT IN THE STAGING AREA AND SHALL NOT BE IDLE IN ANY OTHER AREAS ON SITE.
- INSTALL THE CONCRETE WASHOUT PIT AND BRING WASTE CONTAINERS TO THE SITE IMMEDIATELY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT WASTE CONTROL PROCEDURES ARE BEING FOLLOWED TO PREVENT POLLUTION INTO THE STORM WATER SYSTEM DURING CONSTRUCTION.
- CONTRACTOR IS TO INSTALL ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO THE START OF DEMOLITION. EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED WITHIN 7 DAYS OF GRUBBING. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, FILTER SOCKS, SILT FENCE, DANDY BAGS AND INLET PROTECTION. SILT FENCE LOCATIONS ARE TO BE SET A MAXIMUM OF 6' FROM EACH OTHER AND THE ENDS OF THE GEOTEXTILE FABRIC OF THE SILT FENCE ARE TO BE SLOPED TOWARD THE UP-SLOPE OF THE AREA IT IS SERVING TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE. SILT FENCE IS TO BE INSPECTED AT THE BEGINNING OF EACH DAY AND REPAIRS ARE TO BE MADE IMMEDIATELY. REPAIRS MAY INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: TEARS IN THE GEOTEXTILE FABRIC, COLLAPSED POSTS FROM TOO MUCH RUNOFF OF SILT / SOIL, MISDIRECTION OF SEDIMENT DUE TO IMPROPER INSTALLATION OF EROSION, WINDLUMPS, ETC.
- THE CONTRACTOR MUST INSTALL EROSION CONTROLS AND SEDIMENT CONTROLS INCLUDING, BUT NOT LIMITED TO, FILTER SOCKS, SILT FENCE, DIVERSION BERMS, SEDIMENT TRAPS) AS MORE AREAS BECOME DISTURBED THROUGHOUT CONSTRUCTION. THIS SHALL BE DONE PRIOR TO DISTURBING PREVIOUSLY UNDISTURBED LANDS.
- ALL TRENCH AND GROUND WATER COLLECTED IS TO BE PUMPED INTO THE SEDIMENT TRAP TO BE TREATED FOR WATER QUALITY AND DEWATERING DURING CONSTRUCTION.
- THE SOIL IS TO BE STRIPPED OF ITS TOP ORGANIC LAYER AS NECESSARY ONLY AFTER ALL SEDIMENT AND EROSION CONTROLS HAVE BEEN INSTALLED AND INSPECTED FOR PROPER OPERATION.
- CLEARING OF THE SITE AND STRIPPING OF EXISTING SOIL WILL BE PERFORMED IN A MANNER THAT DOES NOT DISTURB NEIGHBORING LAND OR PUBLIC ROADWAYS FROM THEIR NORMAL CONDITION. DURING AND AT THE END OF EACH DAY OF TOPSOIL STRIPPING, THE DISTURBED SOIL IS TO BE TREATED WITH ODEPA RECOMMENDED DUST SUPPRESSANTS SO THAT DUST DOES NOT ACCUMULATE NOR HAVE THE ABILITY TO SPREAD ONTO NEIGHBORING PROPERTIES, PUBLIC ROADWAYS, OR INTO STORM SEWER STRUCTURES DURING NORMAL WORKING HOURS.
- ALL EXCAVATED UTILITY TRENCHES MUST BE STABILIZED AT THE END OF EACH DAY WITH GRAVEL BACKFILL FROM THE BOTTOM OF THE TRENCH TO THE SURFACE TO PREVENT EROSION OF THE TRENCH OVERNIGHT.
- ALL SPIRE AND WASTE CONSTRUCTION MATERIALS ARE TO BE DISPOSED OF IN WASTE CONTAINERS, WHICH ARE TO BE EMPTIED PRIOR TO REACHING THEIR MAXIMUM CAPACITY. SPARE CONSTRUCTION MATERIALS MAY ALSO BE TRANSPORTED OFFSITE TO AN APPROPRIATE LOCATION DETERMINED BY THE CONTRACTOR (I.E. THE CONTRACTOR'S STORAGE WAREHOUSE), OTHERWISE MATERIALS ARE TO BE DISPOSED OF AT AN OFFSITE CONSTRUCTION AND DEBRIS DEMOLITION LANDFILL AS PER OGC 3714.
- WHEN TOXIC MATERIALS (I.E. FUEL) ARE USED TO CLEAN THE MACHINERY, THE CLEANING MUST TAKE PLACE ON THE STAGING AREA. THE STAGING AREA MUST BE BARRICADED/BERMED AS TO NOT ALLOW RUNOFF FROM THE STAGING AREA ONTO PERMEABLE AREAS. THE TOXIC RUNOFF FROM CLEANING OF MACHINERY IS TO BE COLLECTED VIA VACUUM AND PLACED INTO BARRELS WHICH ARE TO BE DISPOSED OF OFF-SITE AT A CONSTRUCTION AND DEBRIS DEMOLITION LANDFILL AS PER OGC 3714.

SWP3 INSPECTIONS

- TEMPORARY EMPS ARE TO BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT OF 0.5 INCHES WITHIN A 24 HOUR PERIOD.
- AN INSPECTION WAIVER REQUEST IS TO BE SUBMITTED TO THE DEPA TO REDUCE THE AMOUNT OF MONTHLY INSPECTION IF THE SITE IS TO BE DORMANT FOR AN EXTENDED PERIOD OF TIME.
- INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED INSPECTION PERSONNEL. INSPECTION RECORDS ARE TO BE KEPT FOR A MINIMUM 3 YEARS AFTER THE TERMINATION OF CONSTRUCTION ACTIVITIES.
- AN INSPECTION CHECKLIST WILL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION.
- NON-SEDIMENT EMPS ARE TO BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS ARE TO BE REPAIRED AND CLEANOUT WITHIN 10 DAYS OF INSPECTION. EMPS THAT ARE NOT MEETING THE INTENDED FUNCTION OR HAVE NOT BEEN INSTALLED ARE TO BE REINSTALLED/INSTALLED WITHIN 10 DAYS OF INSPECTION.

APPENDIX G – SWPPP AMENDMENT LOG

SWPPP CONTACT:

AMENDMENT NUMBER	DESCRIPTION OF THE AMENDMENT	DATE OF AMENDMENT	AMENDMENT PREPARED BY

APPENDIX I – GRADING AND STABILIZATION ACTIVITIES LOG

SWPPP CONTACT:

DATE GRADING ACTIVITY INITIATED	DESCRIPTION OF GRADING ACTIVITY	DATE GRADING ACTIVITY CEASED (INDICATE TEMPORARY OR PERMANENT)	DATE STABILIZATION MEASURED INITIATED	DESCRIPTION OF STABILIZATION MEASURE AND LOCATION

TEMPORARY SEEDING SPECIFICATIONS

SEEDING DATE	SPECIES	LB/1,000 FT ²	LB/ACRE
MARCH 1 TO AUGUST15	OATS	3	128 (4 BUSHEL)
	TALL FESCUE	1	40
	ANNUAL KYRUGRASS	1	40
	PERENNIAL RYRUGRASS	1	40
	ANNUAL RYRUGRASS	1	40
AUGUST 16 TO NOVEMBER 1	ANNUAL RYRUGRASS	1.25	55
	PERENNIAL RYRUGRASS	3.25	142
	CREeping RED FESCUE	0.40	17
	KENTUCKY BLUEGRASS	0.40	17
	OATS	3	128 (4 BUSHEL)
NOVEMBER 1 TO FEBRUARY 29	TALL FESCUE	1	40
	ANNUAL RYRUGRASS	1	40
	PERENNIAL RYRUGRASS	1	40
	ANNUAL RYRUGRASS	1	40
	WHEAT	3	120 (2 BUSHEL)
AUGUST 16 TO NOVEMBER 1	TALL FESCUE	1	40
	ANNUAL RYRUGRASS	1	40
	PERENNIAL RYRUGRASS	1	40
	ANNUAL RYRUGRASS	1	40
	WHEAT	3	120 (2 BUSHEL)
NOVEMBER 1 TO FEBRUARY 29	TALL FESCUE	1	40
	ANNUAL RYRUGRASS	1	40
	PERENNIAL RYRUGRASS	1	40
	ANNUAL RYRUGRASS	1	40
	WHEAT	3	120 (2 BUSHEL)

USE MULCH ONLY, SODDING PRACTICES, OR DORMANT SEEDING.

NOTE: OTHER APPROVED SEED SPECIES MAY BE APPROVED.

ADDITIONAL TEMPORARY STABILIZATION NOTES:

- TEMPORARY SEEDING IS REQUIRED FOR ANY AREAS THAT WILL REMAIN IDLE OVER THE WINTER PRIOR TO THE ONSET OF WINTER WEATHER.
- TEMPORARY SEEDING IS REQUIRED WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE FOR AN AREA WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE THAT WILL REMAIN IDLE FOR 14 DAYS OR MORE.
- TEMPORARY SEEDING IS REQUIRED ON ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES THAT WILL BE DORMANT FOR MORE THAN 14 DAYS, BUT LESS THAN ONE YEAR AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.

TEMPORARY SEEDING SPECIFICATIONS

PERMANENT SEEDING SPECIFICATIONS

SEED MIX	SEEDING RATE		NOTES
	LB/ACRE	LB/1,000 FT ²	
GENERAL USE			
CREeping RED FESCUE	20-40	0.50-1.00	FOR CLOSE MOWING AND FOR WATERWAYS WITH <2.0 FT/SEC VELOCITY
DOMESTIC RYRUGRASS	10-20	0.25-0.50	
KENTUCKY BLUEGRASS	20-40	0.50-1.00	
TALL FESCUE	40-50	1.00-1.25	
TURF-TYPE (DWARF) FESCUE	90	2.25	
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40-50	1.00-1.25	
CROWN VETCH	10-20	0.25-0.50	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	0.50-0.75	
FLAT PEA	20-25	0.50-0.75	DO NOT SEED LATER THAN AUGUST
TALL FESCUE	20-30	0.50-0.75	
ROAD DITCHES AND SWALES			
TALL FESCUE	40-50	1.00-1.25	
TURF-TYPE (DWARF) FESCUE	90	2.25	
KENTUCKY BLUEGRASS	5	0.10	
LAWNS			
KENTUCKY BLUEGRASS	100-120	2.00	
PERENNIAL RYRUGRASS	-	2.00	
KENTUCKY BLUEGRASS	100-120	2.00	FOR SHADED AREAS
CREeping RED FESCUE	-	1.50	

NOTE: FOLLOWING SOIL TEST RECOMMENDATIONS IS PREFERRED TO FERTILIZER RATES SHOWN ABOVE

ADDITIONAL PERMANENT SEEDING REQUIREMENTS:

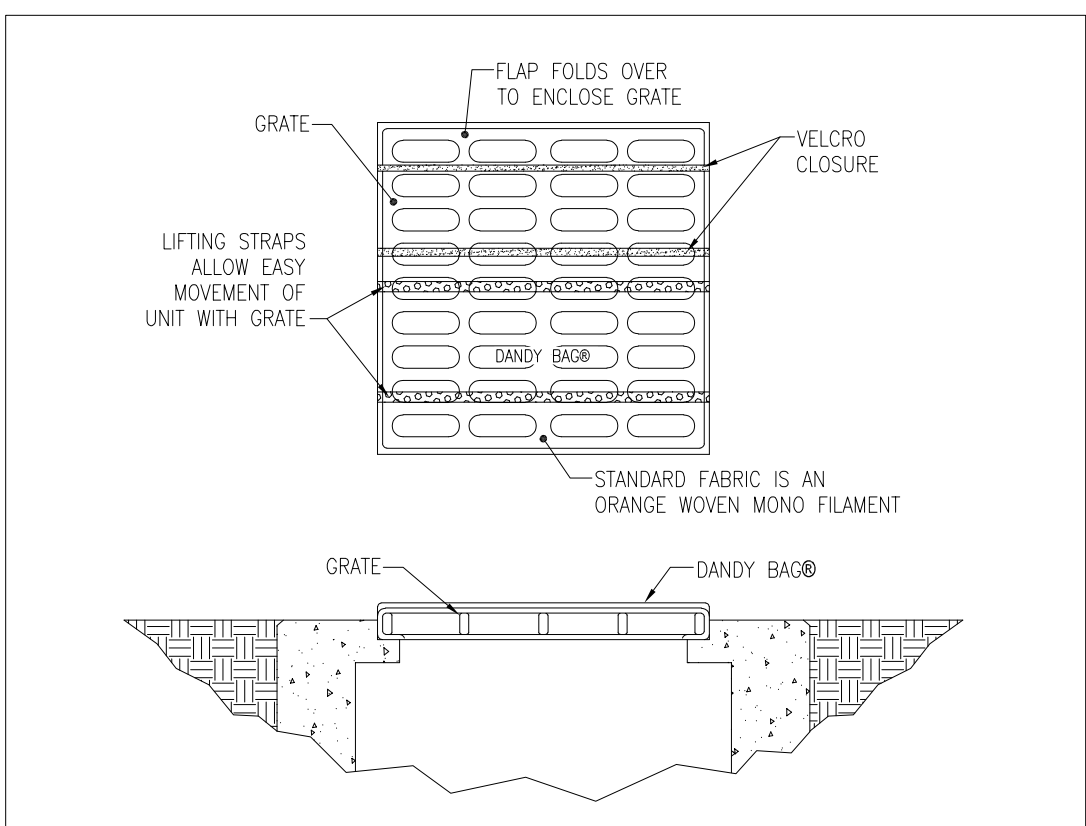
- PERMANENT SEEDING IS REQUIRED FOR ANY DISTURBED AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
- PERMANENT SEEDING IS REQUIRED FOR ANY AREA WITHIN 50 FEET OF A SURFACE WATER BODY OF THE STATE AND AT FINAL GRADE WITHIN 2 DAYS OF REACHING FINAL GRADE.
- PERMANENT SEEDING IS REQUIRED FOR ANY AREA AT FINAL GRADE WITHIN 7 DAYS OF REACHING FINAL GRADE.

PERMANENT SEEDING SPECIFICATIONS

SPECIFICATIONS FOR CONSTRUCTION ENTRANCE (NOT TO SCALE)

- STONE SIZE--000 #2(1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT. WHEN THE CONSTRUCTION ENTRANCE IS PROPOSED IN AN EXISTING PAVED AREA, THE EXISTING PAVEMENT MAY BE UTILIZED IN LIEUF OF STONE.
- LENGTH--THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION: APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS).
- THICKNESS--THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- WIDTH--THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE--A GEOTEXTILE SHALL BE LAYED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG RIGID-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURT STRENGTH	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	E05<0.6 MM
PERMITTIVITY	1X10-3 CM./SEC.
- TIMING--THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- CULVERT--A PIPE OR CULVERT DISCONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR--A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE--TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADS, OR AN SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELED UPON TO REMOVE MUD FROM VEHICLE TIRES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
- REMOVAL--THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.



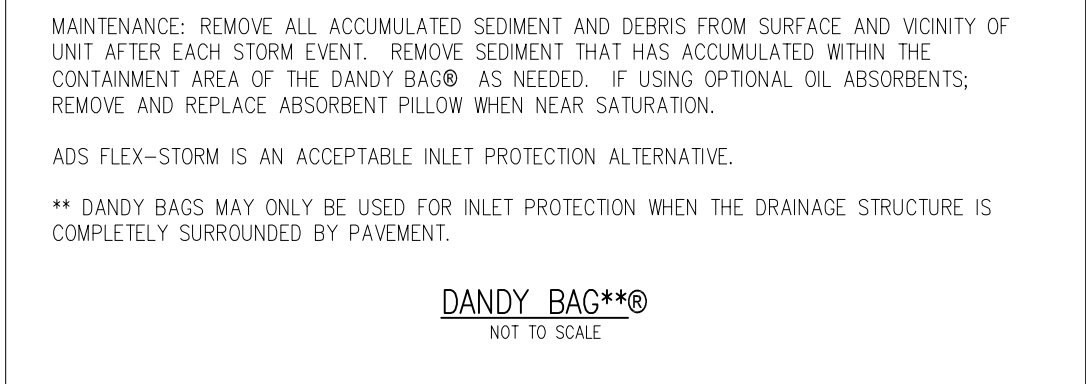
INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: THE EMPTY DANDY BAG® SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT FILLING IN POUCH ON THE BOTTOM (DOWN-SIDE) OF THE UNIT. ATTACH ABSORBENT FILLING TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INTO TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

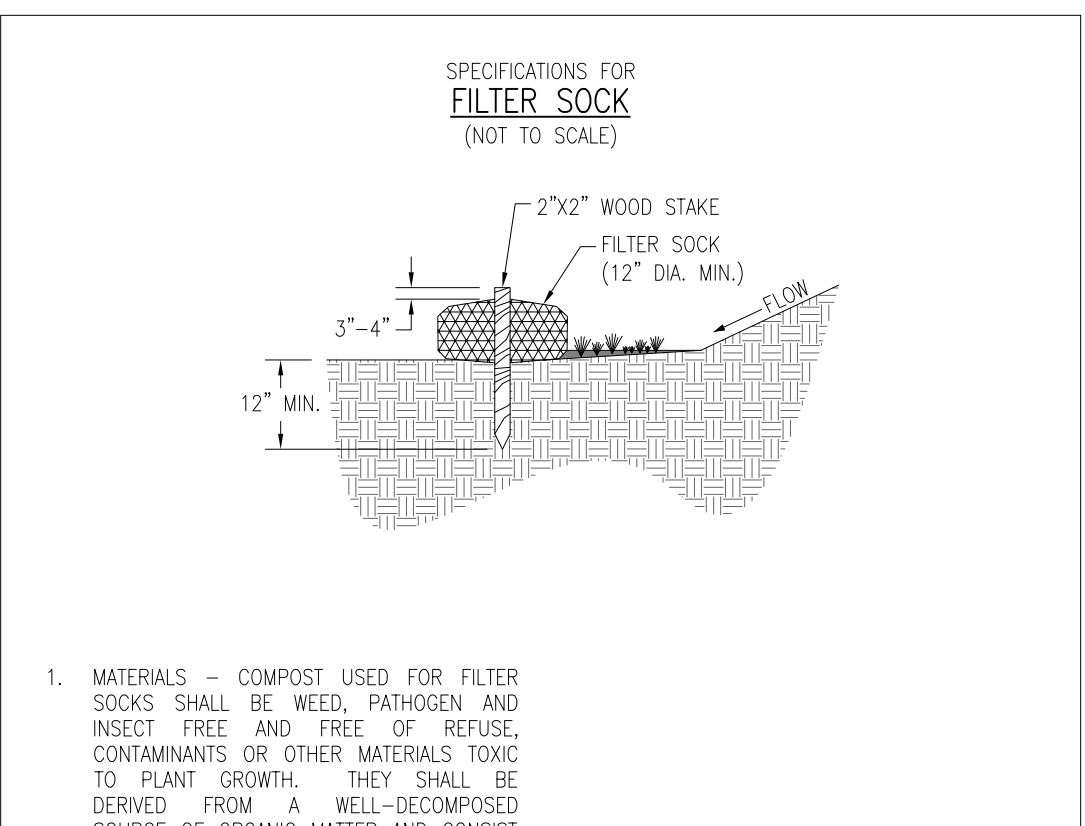
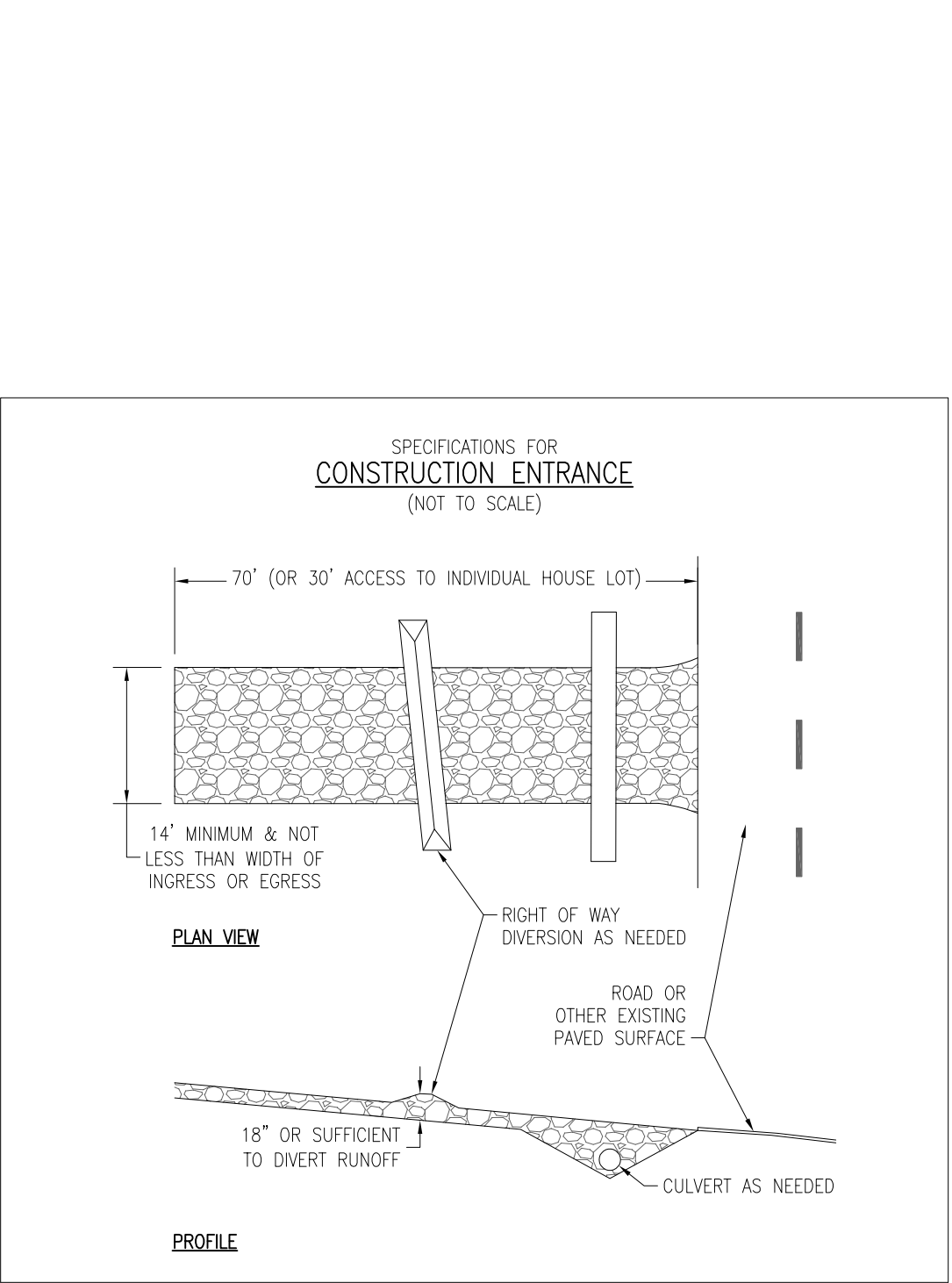
MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG® AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT FILLING WHEN NEEDED SATURATION.

ADD FLEX-STORM IS AN ACCEPTABLE INLET PROTECTION ALTERNATIVE.

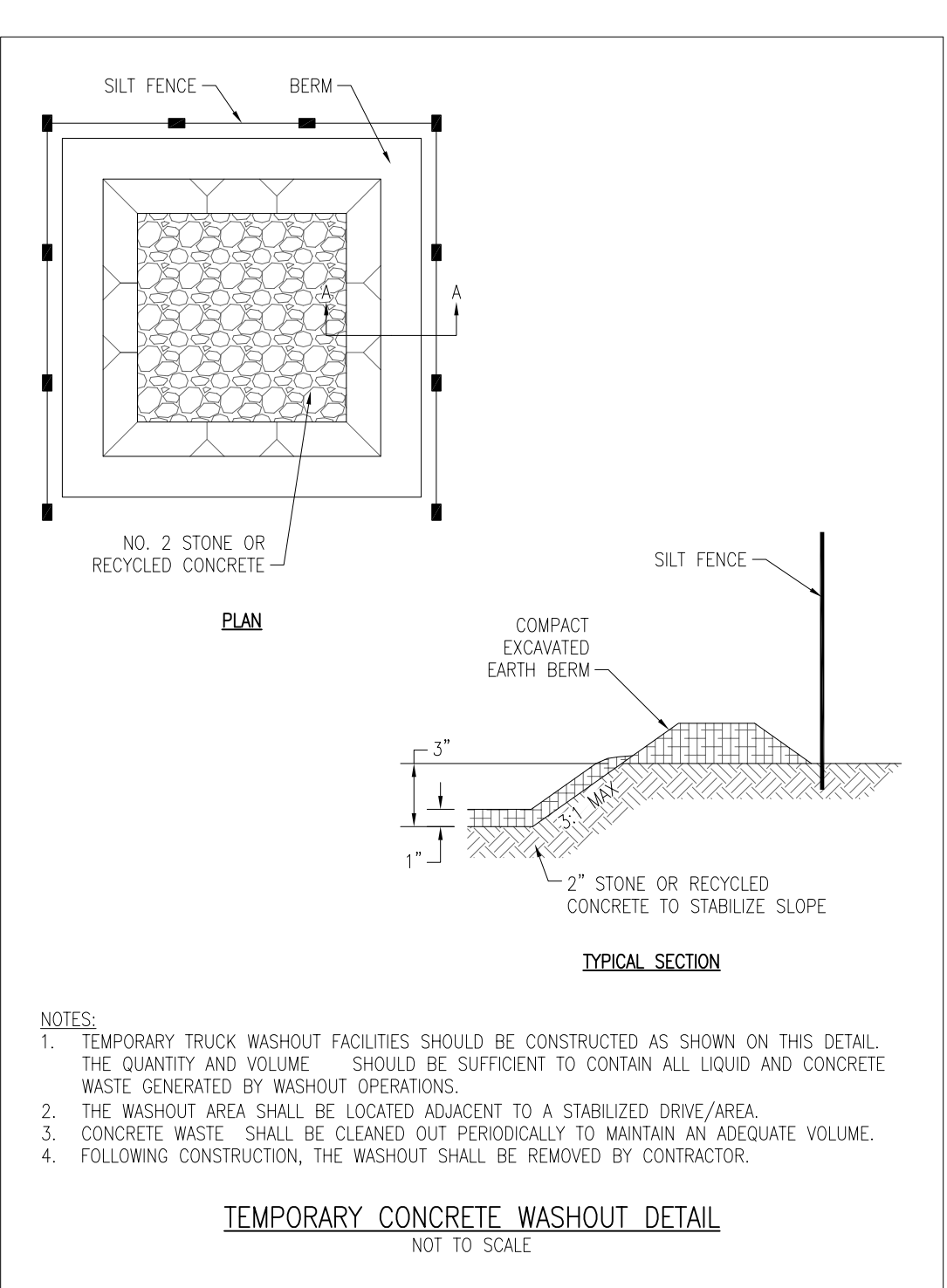
••• DANDY BAGS MAY ONLY BE USED FOR INLET PROTECTION WHEN THE DRAINAGE STRUCTURE IS COMPLETELY SURROUNDED BY PAVEMENT.



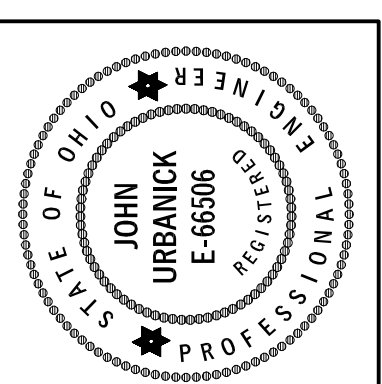
- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE INLET BECOMES FUNCTIONAL.
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH OF AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-INCH BY 4-INCH POSTS SHALL BE DRIVEN ONE (1 FT.) INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-INCH BY 4-INCH FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WILL POSE A SAFETY HAZARD TO TRAFFIC.
- WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER BELLY IMPOUND AGAINT IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- GEOTEXTILE MATERIAL SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SEIVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY. IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION.
- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE EARTH IS EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- A COMPACTED EARTH DIKE OR CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION THE TOP OF THE DIKE SHALL BE AT LEAST 6 INCHES HIGHER THAN THE TOP OF THE FRAME.
- STRUCTURES IN NEED ON INLET PROTECTION IN PAVEMENT AREAS ARE TO USE DANDY BAGS OR FILTER SOCK TYPE INLET PROTECTION.



- MATERIALS -- COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8\" TO 2\".
 - FILTER SOCKS SHALL BE 3 OR 5 MILL CONTINUOUS, TUBULAR, HDPE 3/8\" MILLED MESH NETTING MATERIAL, FILLED WITH COMPOST. THESE FILTER SOCKS SHALL MEET THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
 - MATERIALS -- COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8\" TO 2\".
 - FILTER SOCKS SHALL BE 3 OR 5 MILL CONTINUOUS, TUBULAR, HDPE 3/8\" MILLED MESH NETTING MATERIAL, FILLED WITH COMPOST. THESE FILTER SOCKS SHALL MEET THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
- INSTALLATION
- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
 - FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION OF ESTABLISHMENT OF PERMANENT VEGETATION.
 - FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
 - ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THE REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
 - WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
 - REMOVAL OF PERMANENT VEGETATION. FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.



- NOTES:
- TEMPORARY TRUCK WASHOUT FACILITIES SHOULD BE CONSTRUCTED AS SHOWN ON THIS DETAIL. THE QUANTITY AND VOLUME SHOULD BE SUFFICIENT TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - THE WASHOUT AREA SHALL BE LOCATED ADJACENT TO A STABILIZED DRIVE/AREA.
 - CONCRETE WASTE SHALL BE CLEANED OUT PERIODICALLY TO MAINTAIN AN ADEQUATE VOLUME.
 - FOLLOWING CONSTRUCTION, THE WASHOUT SHALL BE REMOVED BY CONTRACTOR.



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HEMLOCK RIDGE SERVICE DRIVE IMPROVEMENTS
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Project Name

Sheet Revision

1 BID 01-16-2025

Project Issue

SWP3-2

Sheet Name

C201

Sheet #

RC Project # 24-021

