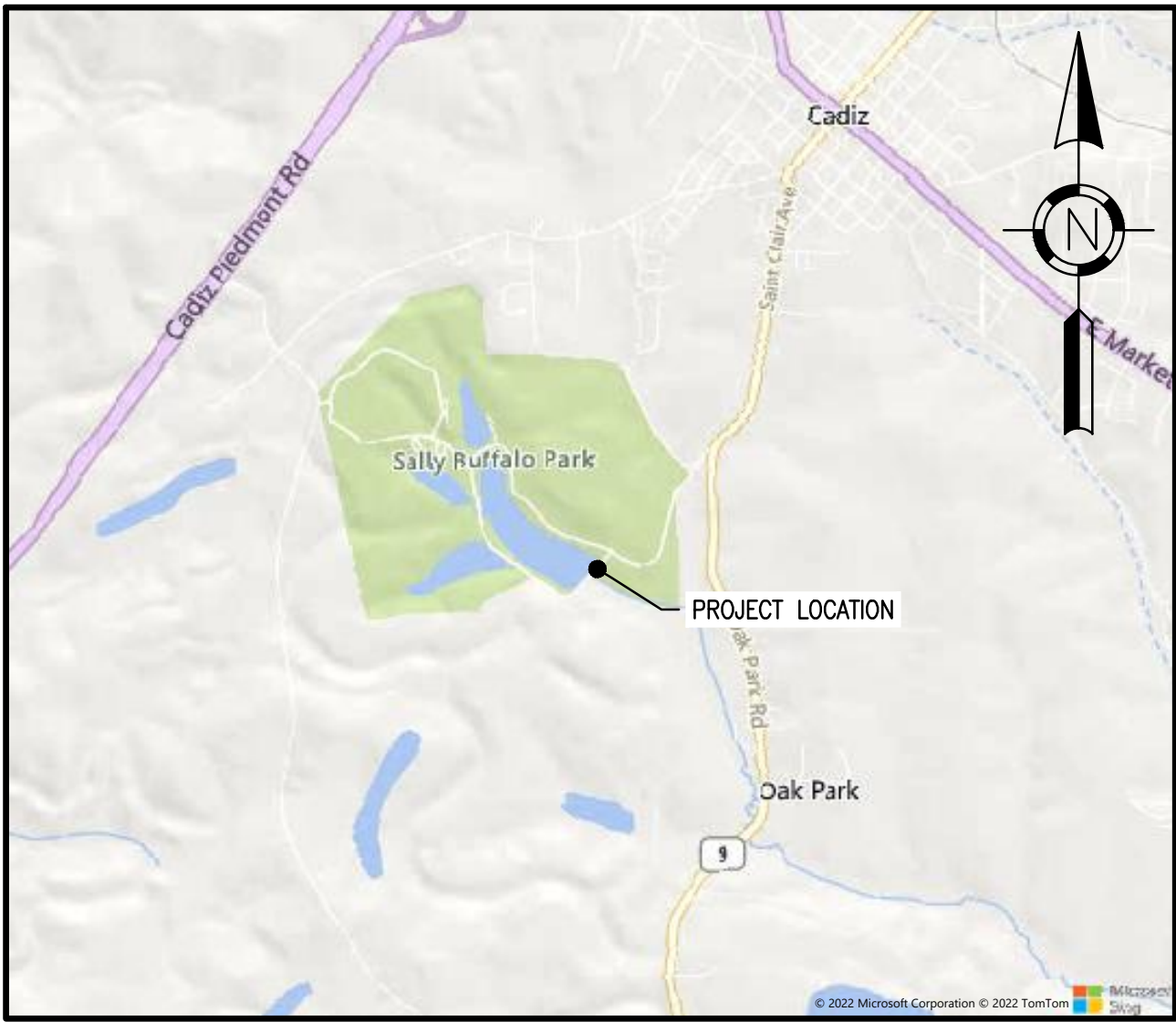


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LOCATION MAP
SCALE 1" = 2000'

SURVEYOR NOTES:
THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES AND RECORD DRAWINGS PROVIDED TO THE SURVEYOR. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES.

PERFORMED BY: VERDANTAS
DATE OF FIELD WORK: AUGUST 2020
EVERY DOCUMENT OF RECORD REVIEWED AND CONSIDERED AS A PART OF THIS SURVEY IS NOTES HEREON.

HEALTH & SAFETY NOTES:

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL ALWAYS EXERCISE PRECAUTION FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146

HORIZONTAL DATUM:
BEARING BASED ON OHIO NORTH STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83).

VERTICAL DATUM:
ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

BENCHMARKS:
AS PER THE TOPOGRAPHIC SURVEY PREPARED BY VERDANTAS THE CONTRACTOR AND/OR HIS SURVEYOR SHALL BE RESPONSIBLE TO CROSS CHECK ALL CONTROL FOR DISTURBANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

PROJECT LOCATION
NAD 83 (2011)
LATITUDE: 41.258631°
LONGITUDE: -81.007396°

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	219480.1450	2385367.2330	1115.17	CONTROL POINT

PRE-CONSTRUCTION NOTICE

THESE PLANS HAVE BEEN PREPARED USING THE MOST ACCURATE INFORMATION AND DATA AVAILABLE AT THE TIME OF PREPARATION. FIELD CONDITIONS MAY BE ENCOUNTERED DURING CONSTRUCTION WHICH VARY FROM THOSE DEPICTED HEREIN. MODIFICATIONS TO THE DESIGN AS SHOWN MAY BE REQUIRED BASED ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. IN ANY EVENT, THE ENGINEERING OBJECTIVES OF THE DESIGN SHALL BE MET. IF FIELD CONDITIONS ARE ENCOUNTERED PRIOR TO CONSTRUCTION OR DURING CONSTRUCTION THAT DIFFER SIGNIFICANTLY FROM THE CONDITIONS SHOWN ON THE PLANS, THE CONTRACTOR MUST STOP WORK AND NOTIFY THE OWNER AND ENGINEER IMMEDIATELY.

CONSTRUCTION DRAWINGS FOR:

SALLY BUFFALO LAKE DAM NO.1

CLASS 1 DAM - ODNR FILE NO. 0210-007

VILLAGE OF CADIZ, HARRISON COUNTY, OHIO



SITE MAP
SCALE 1" = 200'

SHEET TITLE	SHEET NO.
TITLE SHEET	C1.0
GENERAL NOTES	C2.0
EXISTING SITE PLAN	C3.0
LAYOUT & STAKING PLAN	C4.0
DEMOLITION PLAN	C5.0
PROPOSED SITE PLAN	C6.0
PROPOSED EMERGENCY SPILLWAY PLAN AND PROFILE	C6.1
PRINCIPAL SPILLWAY PLAN AND PROFILE	C6.2
TYPICAL DETAILS	C7.0
TYPICAL DETAILS	C7.1
EROSION & SEDIMENT CONTROL NOTES AND DETAILS	C8.0
TURF REINFORCEMENT MAT DETAILS	C8.1

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF THE REPLACEMENT OF THE SALLY BUFFALO PARK LAKE DAM PRINCIPAL SPILLWAY OUTLET PIPE, REMOVING THE EXISTING EMERGENCY SPILLWAY PIPE, INSTALLATION OF A NEW PRINCIPAL SPILLWAY, LAKE DRAIN, INBOARD SLOPE PROTECTION AND EXCAVATING A NEW EMERGENCY SPILLWAY CHANNEL.

Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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Mark	Description	Date
	FOR CONSTRUCTION	09/14/26

Project No.:	VCZ005
Plot Date:	09/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

TITLE SHEET

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GENERAL NOTES

1. THE 2019 EDITION OF THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS, INCLUDING ALL SUPPLEMENTS THERETO, AS WELL AS THESE PROJECT SPECIFIC SPECIFICATIONS, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE PART OF THIS PLAN UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE STANDARDS AND REGULATIONS. IF THERE SHOULD ARISE ANY CONFLICT BETWEEN ANY NOTES AND/OR DETAILS ON THE APPROVED DRAWINGS OR SPECIFICATIONS FOR THE PROJECT, THIS NOTE WILL SUPERCEDE AND GOVERN UNLESS THERE IS A WRITTEN SIGNED DOCUMENT FROM THE ENGINEER STATING OTHERWISE.
2. THE CONTRACTOR SHALL PROVIDE THE QUALITY CONTROL MEASURES NECESSARY TO ENSURE THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THESE DRAWINGS, AND TO THE SATISFACTION OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION STAKING AND VERIFICATION SURVEYING.
3. THE CONTRACTOR SHALL CONTROL STORMWATER ON THE SITE IN ACCORDANCE WITH THE CONTRACTORS PREPARED SWPPP AND BEST MANAGEMENT PRACTICES DESIGNED TO MINIMIZE EROSION AND TRANSPORTATION OF SEDIMENT--LADEN WATER OFF THE SITE AND IN ACCORDANCE WITH PROVISIONS OF THE GENERAL CONSTRUCTION STORMWATER REQUIREMENTS FOR THE PROJECT.
4. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL ADJACENT ROADS, LANDS AND STREAMS AS DESCRIBED BY THE CURRENT APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS AND AS CONTAINED IN THESE PLANS.
5. THE CONTRACTOR SHALL CONTINUALLY CONTROL ALL GROUNDWATER AND/OR SURFACE WATER AS NECESSARY TO PERFORM THE CONSTRUCTION ACTIVITIES. THIS WORK INCLUDES CONSTRUCTING THE NECESSARY TEMPORARY DRAINAGE CHANNELS AND DIVERSIONS, AND FURNISHING, INSTALLING AND OPERATING ALL NECESSARY PUMPS, PIPING AND OTHER APPROPRIATE MEASURES NEEDED TO MAINTAIN THE SITE AND FACILITATE CONSTRUCTION ACTIVITIES.
6. ALL WORK SHALL BE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. SURPLUS OR UNSUITABLE MATERIALS SHALL BE PLACED ON-SITE AT LOCATIONS APPROVED BY THE OWNER.
7. FINAL GRADE SHALL CONSIST OF A MINIMUM OF 4 INCHES OF TOPSOIL ON ALL VEGETATIVE AREAS.
8. DUST CONTROL, ODOT ITEM 616, SHALL BE USED THROUGHOUT THE LIMITS OF THE PROJECT, INCLUDING AREAS OF CULVERT INSTALLATION, TRAFFIC MAINTENANCE AND OTHER AREAS OF THE CONTRACTOR'S OPERATIONS WHERE DUST NUISANCE ORIGINATES.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTE INTO DUMPSTER OR DRUMS FOR PROPER DISPOSAL OFF SITE. ALL CONTAINERS MUST BE COVERED AND LEAK PROOF.
10. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, CONSTRUCTION & DEMOLITION, SANITARY, TOXIC, ETC.) GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES/REGULATIONS. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND ANY OTHER SUCH TOXIC OR HAZARDOUS MATERIALS OR WASTES.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY LOCAL PERMITS AND SCHEDULING OF ALL INSPECTIONS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF ALL TRENCHES WITHIN THE WORK LIMITS FOR A PERIOD OF (1) YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE OWNER. ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.
13. THE CONTRACTOR SHALL CONFINE ACTIVITIES TO THE SITE, EXISTING RIGHT--OF--WAYS, TEMPORARY EASEMENTS AND PERMANENT EASEMENTS, AND SHALL NOT ENTER UPON OTHER PROPERTIES WITHOUT WRITTEN PERMISSION OF THE OWNER.
14. EXISTING RIGHT--OF--WAYS, TEMPORARY EASEMENTS, AND PERMANENT EASEMENTS SHALL BE FIELD LOCATED BY THE CONTRACTOR TO ENSURE THEIR CORRECTNESS.
15. ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER, APPLICABLE REVIEW AGENCIES, AND THE ENGINEER.
16. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SITE SECURITY DURING THE PROJECT, INCLUDING WHATEVER IS NECESSARY TO ENSURE PROTECTION OF THE EQUIPMENT, MATERIALS, AND WORK.
17. NON--RUBBER Tired VEHICLES SHALL NOT BE MOVED ON PAVED SURFACES.
18. IT IS CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL THE DRAWINGS AND SPECIFICATIONS PRIOR TO BEGINNING OF THE WORK AND INFORM THE OWNER IMMEDIATELY OF ANY DISCREPANCIES/ERRORS THAT ARE FOUND.
19. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, PROCEDURES, AND TECHNIQUES.
20. IT IS NOT INTENDED THAT THESE DRAWINGS SHOW EVERY DETAIL THAT MAY BE REQUIRED FOR THE COMPLETION OF THIS PROJECT. COST OF OTHER WORK SHALL BE INCIDENTAL TO THE PROJECT.
21. AN APPROVED SET OF CONSTRUCTION PLANS SHALL BE MAINTAINED IN A READILY AVAILABLE LOCATION AT THE SITE THROUGHOUT DURATION OF THE PROJECT.

DRAINAGE NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOWERING OF THE WATER LEVEL OF THE LAKE DURING THE PROPOSED ACTIVITIES. THE CONTRACTOR SHALL DEVELOP A DE-WATERING PLAN PRIOR TO THE COMMENCEMENT OF PUMPING ACTIVITIES. THE CONTRACTOR SHALL SUBMIT THE DEWATERING PLAN TO THE ENGINEER AND ODNR -- DIVISION OF WATER RESOURCES FOR REVIEW AND APPROVAL A MINIMUM OF 30 DAYS PRIOR TO PROPOSED DEWATERING ACTIVITIES.
2. SHOULD WATER BE ENCOUNTERED, THE CONTRACTOR SHALL FURNISH AND OPERATE SUITABLE PUMPING EQUIPMENT OF SUCH CAPACITY ADEQUATE TO DEWATER THE TRENCH. THE TRENCH SHALL BE SUFFICIENTLY DEWATERED SO THAT THE PLACEMENT OF BEDDING AND LAYING AND JOINING OF THE PIPE IS MADE IN A TRENCH FREE OF STANDING WATER. THE CONTRACTOR SHALL CONVEY ALL TRENCH WATER TO A NATURAL DRAINAGE CHANNEL OR STORM SEWER WITHOUT CAUSING ANY PROPERTY DAMAGE AND USING PROPER EROSION AND SEDIMENT CONTROL MEASURES.
3. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND PROPER SOIL EROSION CONTROL MEASURES FOR PROTECTION OF ALL ADJACENT ROADS AND LANDS, PER THESE PLANS.
4. THE CONTRACTOR SHALL CONTROL STORMWATER ON THE SITE AND MINIMIZE EROSION AND TRANSPORTATION OF SEDIMENT--LADEN WATER OFF THE SITE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES DESIGN DETAILS AND SPECIFICATIONS OUTLINED IN THE CURRENT VERSION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) "RAINWATER AND LAND DEVELOPMENT MANUAL."
5. THE CONTRACTOR SHALL CONTINUALLY CONTROL ALL GROUNDWATER AND/OR SURFACE WATER AS NECESSARY TO PERFORM THE CONSTRUCTION ACTIVITIES. THIS WORK INCLUDES CONSTRUCTING THE NECESSARY TEMPORARY DRAINAGE CHANNELS AND DIVERSIONS, AND FURNISHING, INSTALLING AND OPERATING ALL NECESSARY PUMPS, PIPING AND OTHER APPROPRIATE MEASURES NEEDED TO MAINTAIN THE SITE.
6. ALL PUMP DISCHARGES, NOT INTO AN APPROVED BMP, SHALL BE PROTECTED BY SILT BAGS.

SURVEY NOTES

1. THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS BEFORE EXCAVATING AT OR NEAR SAID IRON PINS OR MONUMENTS. IF ANY PINS OR MONUMENTS ARE DESTROYED OR DAMAGED BY THE CONTRACTOR, THEY SHALL BE ACCURATELY REPLACED BY A REGISTERED SURVEYOR IN THE STATE OF OHIO AT THE COMPLETION OF THE PROJECT, AT CONTRACTOR'S COST.
2. HORIZONTAL AND VERTICAL CONTROL SHALL BE ESTABLISHED BY THE CONTRACTOR FOR THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SURVEYS TO COMPLETE THE PROJECT INCLUDING REESTABLISHMENT OF CONTROL POINTS, PROJECT LAYOUT, AND STAKING.
3. THE CONTRACTOR SHALL SUPPLY THE RESOURCES NECESSARY TO LAY OUT AND VERIFY THE LOCATION, ALIGNMENT, ELEVATION, AND GRADE OF THE WORK AS SHOWN, OR DESCRIBED, IN THE DRAWINGS.
4. ALL WORK SHALL BE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. SURPLUS OR UNSUITABLE MATERIALS SHALL BE PLACED ON-SITE AT LOCATIONS APPROVED BY THE OWNER AND ENGINEER.

STANDARD REFERENCE DRAWINGS

ODOT STANDARD CONSTRUCTION DRAWINGS CMS 2019 EDITION

SUBGRADE PREPARATION NOTES

1. CLEARING AND GRUBBING SHALL BE COMPLETED, AS NEEDED, WITHIN THE WORK LIMITS IN ACCORDANCE WITH ODOT ITEM 201 (CLEARING AND GRUBBING).
2. WORK THAT CONSISTS OF PREPARING SUITABLE SUBGRADE MATERIAL BY DRYING, COMPACTING, PROOF ROLLING, AND GRADING SHALL BE PERFORMED IN ACCORDANCE WITH ODOT ITEM 204 (SUBGRADE COMPACTION AND PROOF ROLLING). THE AREA SHALL BE INSPECTED TO IDENTIFY ANY SOFT, WEAK, LOOSE, OR EXCESSIVELY WET SUBGRADE CONDITIONS. ANY OBSERVED UNSTABLE AREAS SHOULD BE UNDERCUT AND REPLACED WITH SUITABLE FILL AS DIRECTED BY THE OWNER'S ENGINEER. ALTERNATIVELY, UNSTABLE AREAS MAY BE STABILIZED IN ACCORDANCE WITH THE METHODS OUTLINED IN ODOT GEOTECHNICAL BULLETIN GB1 PLAN SUBGRADES.
3. ALL VEGETATION AND TOPSOIL SHALL BE REMOVED FROM AREAS WHERE FILL OR STRUCTURES WILL BE PLACED. THE MATERIAL SHALL BE STOCKPILED IN LOCATION(S) DESIGNATED BY THE OWNER.
4. STOCKPILED MATERIALS SHALL BE SPREAD IN HORIZONTAL LOOSE LIFTS NOT EXCEEDING ONE FOOT. THE EXTERIOR STOCKPILE SLOPES SHALL NOT BE STEEPER THAN 3H:1V, UNLESS APPROVED BY THE OWNER. THE CONTRACTOR SHALL SEED AND MULCH THE EXTERIOR SLOPES OF THE STOCKPILES ONCE FINAL GRADES ARE ACHIEVED, OR AS REQUIRED BY THE OWNER. NECESSARY MEASURES SHALL BE TAKEN TO MAINTAIN THE STABILIZED STOCKPILED MATERIAL.
5. THE FOLLOWING WORK SHALL BE COMPLETED IN ACCORDANCE WITH ODOT ITEM 203 (ROADWAY AND EMBANKMENT), UNLESS OTHERWISE NOTED: (1) WORK THAT CONSISTS OF PREPARING AREAS UPON WHICH EMBANKMENTS ARE TO BE PLACED; (2) FURNISHING AND INCORPORATING ALL WATER REQUIRED FOR COMPACTING EMBANKMENT; AND (3) DISPOSING OF UNSUITABLE AND SURPLUS MATERIAL.
6. A GEOTECHNICAL FIELD EXPLORATION WAS COMPLETED ON JUNE 6, 2022. TWO SOIL BORINGS WERE DRILLED WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS. DESCRIPTIONS OF MATERIALS ENCOUNTERED IN THE BORINGS CAN BE FOUND IN THE BORING LOGS PREPARED BY GPD.

COMPACTED SOIL FILL NOTES

1. ALL SOIL TESTING WILL BE THE RESPONSIBILITY OF THE OWNER'S ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COOPERATING WITH THE OWNER'S ENGINEER DURING ALL TESTING ACTIVITIES. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AND LABOR TO ASSIST THE OWNER'S ENGINEER IN SAMPLING, IF REQUESTED, AND PROVIDE ACCESS TO ALL AREAS REQUIRING TESTING.
2. CONTROLLED FILL (I.E. COMPACTED SOIL FILL) SHALL BE PLACED AND COMPACTED TO THE ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL MAINTAIN UNIFORM GRADIENTS BETWEEN ADJACENT SPOT ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. THE TOP OF THE CONTROLLED FILL SHALL BE GRADED TO WITHIN + 0.10 FEET OF THE ELEVATIONS AND WITHIN +0.5 FEET OF THE LINES SHOWN ON THE CONSTRUCTION DRAWINGS.
3. THE SOILS FOR CONTROLLED FILL SHALL MEET ALL OF THE FOLLOWING REQUIREMENTS: (1) BE CLASSIFIED ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) AS CL, CL--ML, SC, GC OR AS OTHERWISE APPROVED BY THE OWNER'S ENGINEER; AND (2) BE FREE OF ALL DELETERIOUS MATERIALS (E.G. LARGE OR SHARP ROCKS, LIMBS, ROOTS, TRASH, ETC.), UNLESS OTHERWISE APPROVED BY THE OWNER'S ENGINEER.
4. WATER USED TO ADJUST THE MOISTURE CONTENT OF CONTROLLED FILL, IF REQUIRED, SHALL MEET THE STANDARDS FOR UNCONTAMINATED SURFACE WATER AT THE TIME OF APPLICATION.
5. THE CONTRACTOR SHALL PLACE CONTROLLED FILL IN LIFTS. EACH LIFT SHALL HAVE A MAXIMUM THICKNESS OF 8 INCHES (LOOSE MEASURE), WITH THE CLOD SIZE NOT EXCEEDING 4 INCHES. ROCKS SHALL BE NO GREATER THAN 4 INCHES (OR HALF THE LOOSE LIFT THICKNESS). A 4 INCH--LOOSE LIFT THICKNESS IS REQUIRED IN ANY TRENCHES PASSING THROUGH THE DAM AND ANYWHERE THAT HAND COMPACTION EQUIPMENT IS TO BE USED.
6. THE CONTRACTOR SHALL NOT PLACE FROZEN SOIL FILL OR PLACE SOIL FILL ON FROZEN GROUND. ADDITIONALLY ALL CONTROLLED EMBANKMENT FILL WITHIN THE DAM FOOTPRINT SHALL BE COMPLETED PRIOR TO DECEMBER 1ST.
7. CONTROLLED FILL SHALL NOT BE PLACED DURING PERIODS OF PRECIPITATION OR OTHER PERIODS OF UNFAVORABLE WEATHER CONDITIONS THAT ARE IDENTIFIED BY THE OWNER'S ENGINEER.
8. COMPACTION OF CONTROLLED FILL LIFTS SHALL BE PERFORMED WITH A SHEEPSFOOT COMPACTOR APPROVED BY THE OWNER'S ENGINEER. THE SOIL SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY BETWEEN ZERO PERCENT BELOW AND THREE PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D698). THE OWNER'S ENGINEER SHALL PERFORM IN--PLACE MOISTURE AND DENSITY TESTING (ASTM D6938) ON EACH SOIL LIFT TO VERIFY THAT THE SOIL MEETS THE ABOVE COMPACTION SPECIFICATIONS IN GENERAL ACCORDANCE WITH THE FREQUENCY OF ONE TEST PER 500 CUBIC YARDS WITH A MINIMUM OF ONE TEST PER LIFT.
9. AREAS THAT ARE INACCESSIBLE TO DRIVEN COMPACTION EQUIPMENT SHALL BE COMPACTED USING HAND--OPERATED EQUIPMENT (E.G., WALK--BEHIND ROLLER) THAT IS CAPABLE OF ACHIEVING THE REQUIRED DEGREE OF COMPACTION.
10. IF DEEMED NECESSARY BY THE OWNER'S ENGINEER, THE CONTRACTOR SHALL DISC BETWEEN EACH COMPACTED LIFT TO ENSURE ADEQUATE BONDING BETWEEN THE LIFTS. THIS MAY NOT BE NECESSARY IF ADEQUATE INDENTATIONS ARE PROVIDED BY THE SHEEPSFOOT COMPACTOR, AS DETERMINED BY THE OWNER'S ENGINEER.
11. THE CONTRACTOR SHALL SUPPLY A SURVEYOR TO PLACE GRADE STAKES FOR CONSTRUCTION CONTROL, AS NEEDED, AND SHALL VERIFY THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
12. THE CONTRACTOR SHALL USE ANY MEANS NECESSARY TO PROTECT ALL MATERIALS AND ALL PARTIALLY COMPLETED AND COMPLETED WORK. IN THE EVENT OF DAMAGE, THE AREA SHALL BE REPAIRED AT THE CONTRACTOR'S COST TO MEET PROJECT SPECIFICATIONS.
13. CONTROLLED FILL SHALL BE SEALED, ROLLED, AND MADE SMOOTH AND FREE FROM RUTS OR INDENTATIONS AT THE END OF EVERY WORKING DAY WHEN PRECIPITATION IS FORECASTED AND/OR AT THE COMPLETION OF THE COMPACTION OPERATIONS IN THAT AREA. ANY LIFTS THAT ARE SMOOTH ROLLED SHALL BE SCARIFIED WITH A DISC PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS OF CONTROLLED FILL.

TRAFFIC CONTROL NOTES

1. PORTIONS OF THIS PROJECT ARE TO TAKE PLACE ON PRIVATE PROPERTY. TRAFFIC ON PUBLIC ROADWAYS SHALL BE MAINTAINED IN ACCORDANCE WITH THE PLANS. ANY WORK OR STAGING OF VEHICLES, MATERIAL OR EQUIPMENT THAT COULD HAVE AN IMPACT ON TRAFFIC MUST BE APPROVED, IN ADVANCE, BY THE OWNER.
2. THE TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON STATE, COUNTY, TOWNSHIP, OR CITY STREETS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR.

UTILITY NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE RELATED ITEMS.
2. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO811 (TELEPHONE NUMBER 800--362--2764 OR 811), AND TO THE OWNER OF THE UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
3. THE LOCATION OF UTILITIES AND STRUCTURES ARE SHOWN FROM DATA PROVIDED BY THE SURVEYOR (BASED ON DATA AVAILABLE AT THE TIME OF SURVEY) AND ARE NOT NECESSARILY COMPLETE OR CORRECT. THE NOTIFICATION OF AFFECTED UTILITY OWNERS IN ADVANCE OF CONSTRUCTION AND THE EXACT LOCATION AND PROTECTION OF UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF SAME AND FOR ANY RESULTING CONTINGENT DAMAGE OR COSTS. THE COUNTY, OWNER, AND/OR ENGINEER ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS.
4. THE COST OF SECURING ANY POWER POLES AS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

SEQUENCE OF CONSTRUCTION

1. CLOSE PARK ROAD.
2. INSTALL REQUIRED EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE SWPPP AND THESE PLANS.
3. INSTALL THE PRINCIPAL SPILLWAY PIPE.
 - 3.1. LOWER THE POOL TO PROTECT SPILLWAY PIPE WORK AREA.
 - 3.2. REMOVE EXISTING SPILLWAY PIPES AND SLIP--LINED LAKE DRAIN.
 - 3.3. INSTALL SPILLWAY PIPE, LAKE DRAIN AND RISER STRUCTURE.
4. CONSTRUCT NEW EMERGENCY SPILLWAY, REMOVE A PORTION OF EXISTING PARK ROAD AND WALKING TRAIL.
 - 4.1. REMOVE TOPSOIL AND CLEAR AND GRUB AS NEEDED.
 - 4.2. EXCAVATE PROPOSED SPILLWAY
 - 4.3. CONSTRUCT WATER DIVERSION BERM AND ASSOCIATED DRAINAGE STRUCTURES.
5. TEMPORARILY STABILIZE SITE FOR WINTER SHUT DOWN.
6. COMPLETE EMERGENCY SPILLWAY, RESPREAD TOPSOIL, INSTALL TRM AND ESTABLISH VEGETATION
7. INSTALL INBOARD SLOPE PROTECTION.
8. REPLACE ASPHALT WALK WAY AND CONSTRUCT TURNAROUND AND INSTALL TRAFFIC CONTROL SIGNS.
9. RESPREAD REMAINING TOPSOIL
10. APPLY PERMANENT SEEDING OR STABILIZATION MEASURES IN ACCORDANCE WITH THIS PLAN.

- NOTE:
- FILL PORTION OF THE EMERGENCY SPILLWAY SHALL BE COMPLETED PRIOR TO DECEMBER 1ST.
 - EXCAVATION WITHIN 1FT OF FINAL GRADE SHALL BE COMPLETED BY DECEMBER 15TH.
 - THE INSTALLATION OF THE PRINCIPAL SPILLWAY SHALL BE COMPLETED BY DECEMBER 15TH.
 - THE SITE SHALL BE TEMPORARILY STABILIZED BY DECEMBER 18TH

CLEARING AND GRUBBING

1. WHEN TREE CUTTING SHALL BE COMPLETED WITHIN THE LIMITS OF CLEARING SHOWN ON THE PLANS.
2. REMOVE TREE STUMPS TO A DEPTH OF 2.5 FEET BELOW THE SUBGRADE AND SIDE SLOPE ELEVATIONS. TREES, SHRUB AND PLANTS SHALL BE REMOVED WITHIN THE LIMITS OF CLEARING. TREES, STUMPS & BRUSH MAY BE SHREDDED, BURNED IN A CONTROLLED MANNER, USED ONSITE OR TAKEN TO AN APPROVED LANDFILL FOR DISPOSAL.
3. STUMPS OUTSIDE OF THE CUT AND FILL AREA, BUT WITHIN THE LIMIT OF DISTURBANCE, MAY REMAIN.



Verdantas
156 Woodrow Avenue
Suite 3
St. Clairsville, OH 43960
Phone: (740) 217-7685
Fax: (614) 360-0063
www.verdantas.com

Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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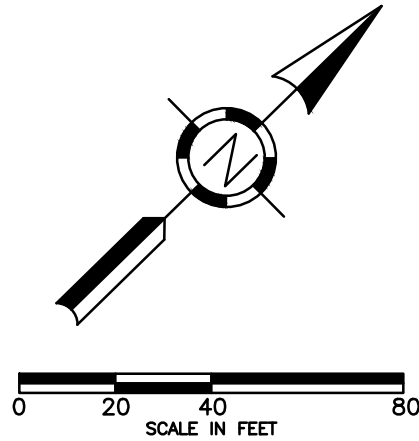
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Mark	Description	Date
	FOR CONSTRUCTION	09/14/26

Project No.:	VCZ005
Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

GENERAL NOTES

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LEGEND

- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING CULVERT PIPE
- EXISTING WATERS EDGE
- EXISTING DITCH
- EXISTING TREE LINE
- EXISTING FENCE

EXISTING EDGE OF PAVEMENT

EXISTING EDGE OF ASPHALT WALKING PATH

NOTES:

1. EXISTING CONTOURS AND LOCATIONS OF EXISTING FEATURES SHOWN WERE OBTAINED BY FIELD SURVEYS CONDUCTED BY VERDANTAS LLC (FORMERLY HULL & ASSOCIATES, LLC) IN AUGUST 2020.
2. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE SURVEY OR THE ACCURACY OF THE EXISTING INFORMATION SHOWN.
3. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING SITE CONDITIONS AND FEATURES.
4. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES AND SHALL REPLACE AND PROTECT WITHIN THE LIMITS OF EXCAVATION. SEE NOTES ON SHEET C2.0.



Verdantas
156 Woodrow Avenue
Suite 3
St. Clairsville, OH 43960

Phone: (740) 217-7685
Fax: (614) 360-0203
www.verdantas.com

Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1

CLASS 1 DAM - ODNR FILE NO. 0210-007

HARRISON COUNTY, OHIO

Owner:

128 COURT STREET

CADIZ OH 43907

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Mark	Description	Date
	FOR CONSTRUCTION	09/14/26

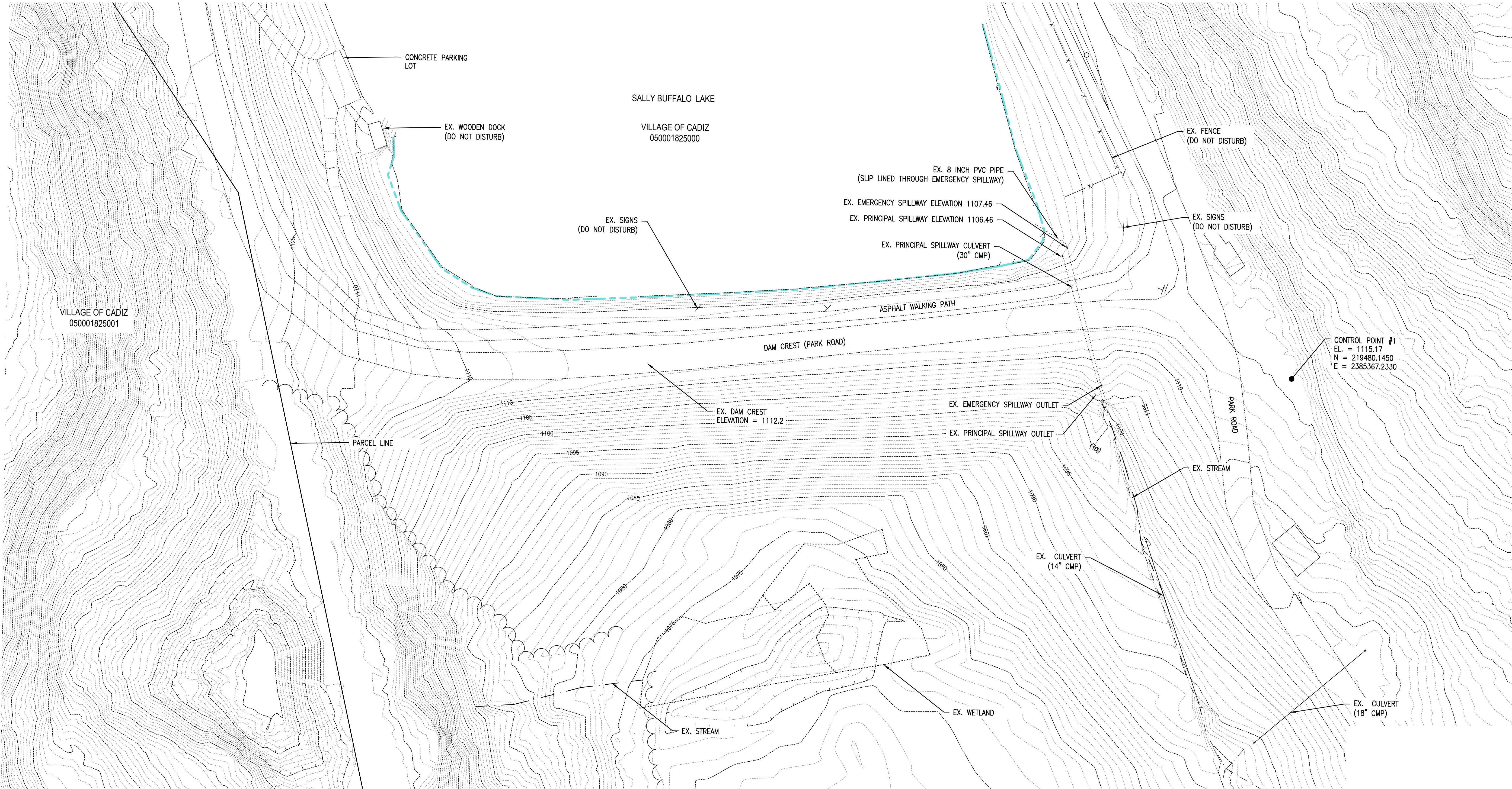
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Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

EXISTING SITE

PLAN

Sheet Number: 3 OF 12

C3.0





----- PROPOSED LIMITS OF DISTURBANCE
 _____ PROPOSED CENTERLINE ALIGNMENT



Professional Seal:



Project Title:

Owner:

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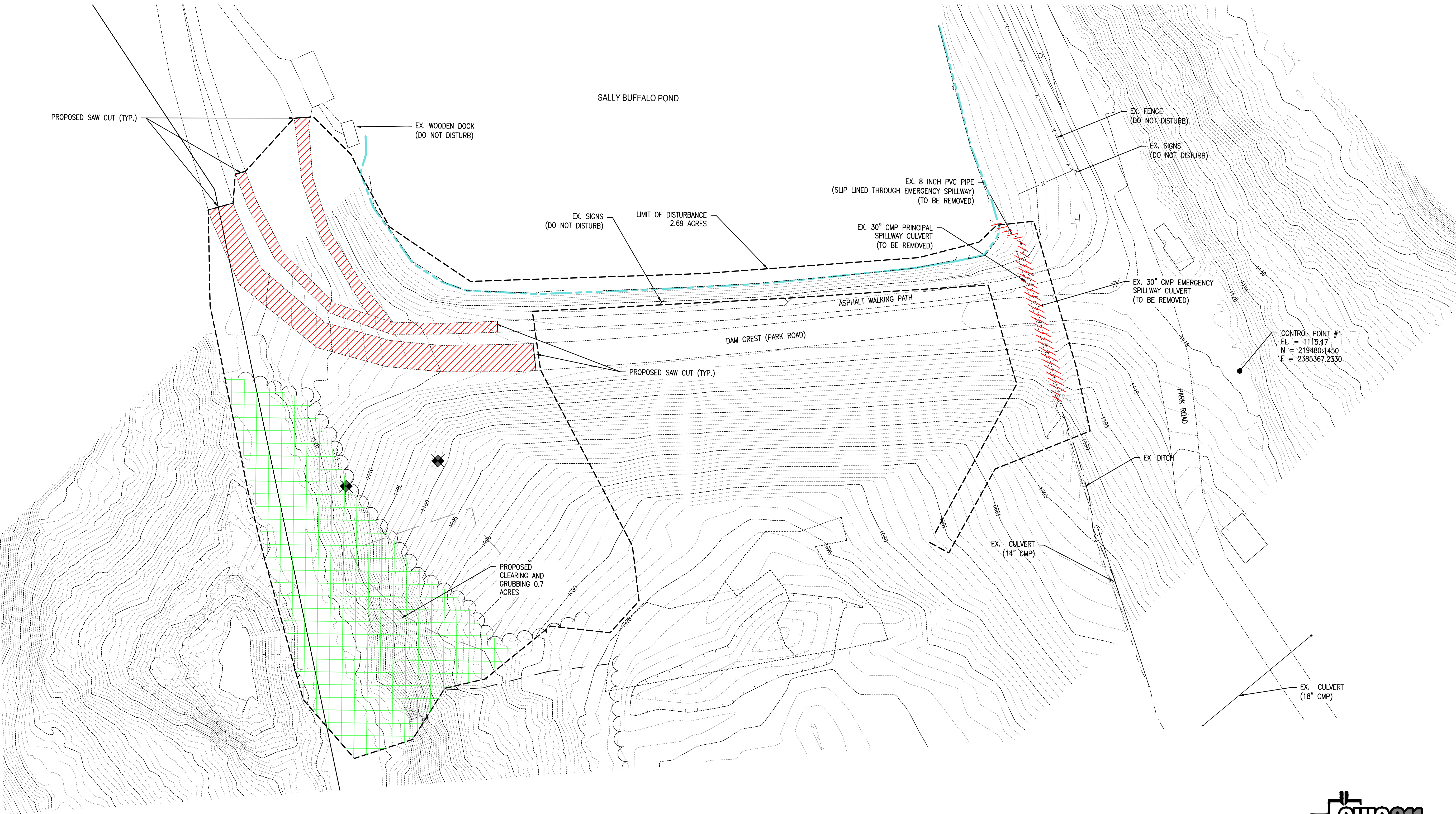
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Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

Sheet Number: 4 OF 12

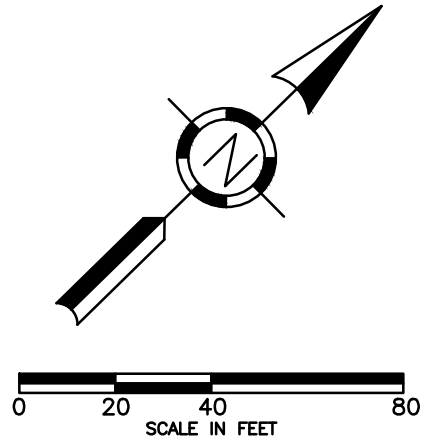
C4.0



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- LEGEND
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - EXISTING CULVERT PIPE
 - EXISTING LAKE STRUCTURE
 - EXISTING WATERS EDGE
 - EXISTING TREE LINE
 - EXISTING EDGE OF PAVEMENT
 - EXISTING ROADWAY CENTERLINE
 - EXISTING OVERHEAD POWERLINE
 - EXISTING ROAD SIGN
 - EXISTING POWERPOLE
 - PROPOSED DEMOLITION
 - PROPOSED AREA OF DEMOLITION
 - PROPOSED CLEARING AND GRUBBING



SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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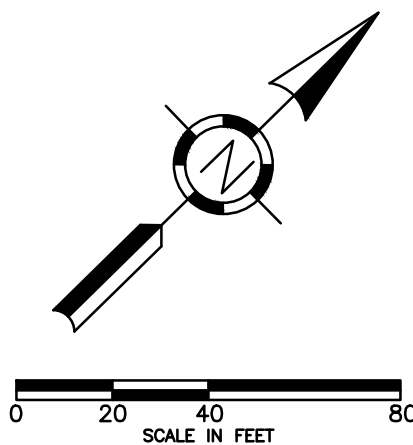
Mark	Description	Date
	FOR CONSTRUCTION	09/14/26

Project No.:	VC2005
Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

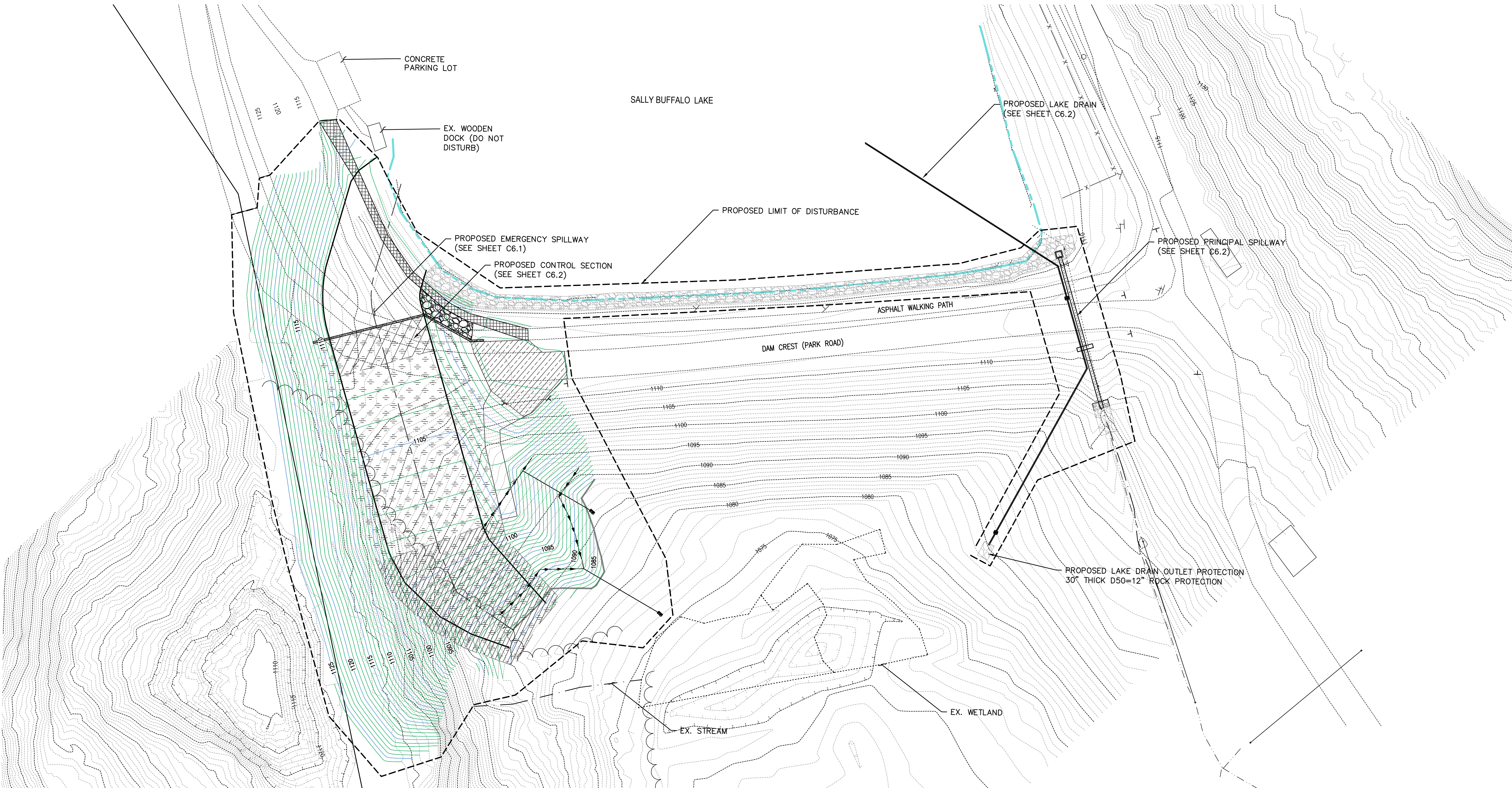
DEMOLITION PLAN



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- LEGEND**
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - PROPOSED MAJOR CONTOUR LINE
 - PROPOSED MINOR CONTOUR LINE
 - EXISTING CULVERT PIPE
 - EXISTING WATERS EDGE
 - EXISTING TREE LINE
 - EXISTING EDGE OF PAVEMENT
 - PROPOSED WALKING TRAIL REPLACEMENT
 - PROPOSED ROADWAY REPLACEMENT
 - PROPOSED TURF REINFORCEMENT
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED RIP RAP
 - PROPOSED CENTERLINE ALIGNMENT
 - PROPOSED BLANKET DRAIN
 - PROPOSED KEYWAY



**SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO**

Owner:

128 COURT STREET
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Project No.:	VC2005
Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

**PROPOSED SITE
PLAN**

9/15/2025 10:51 AM z:\project files\ca-ca\cad\civil\drawing\sheet\vcz005_sally_buffalo_lake_dam\cad\design\drawing\sheet\vcz005_proposed_gradings_plan.dwg cpadford

SEDIMENT CONTROL NOTES:

1. REFER TO THE EROSION & SEDIMENT CONTROL NOTES AND DETAILS ON SHEET C8.0.
2. NOTE THAT LOCATIONS OF PROPOSED CONTROLS SHOWN ARE FOR PLANNING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADDITIONAL CONTROLS AS NEEDED TO ELIMINATE SEDIMENT TRANSPORT TO SITE STORM SEWERS AND SURFACE WATERS.
3. DURING VALVE STEM REPAIR AND CUTTING OF OPENING IN THE EXISTING CONCRETE RISER STRUCTURE, CONTRACTOR SHALL FURNISH AND OPERATE SUITABLE PUMPING EQUIPMENT OF SUCH CAPACITY ADEQUATE TO DEWATER THE TRENCH OR WORK AREA. THIS MAY INCLUDE THE INSTALLATION OF TEMPORARY DEVICES SUCH AS COFFERDAMS TO MINIMIZE WATER INFILTRATION INTO THE WORK AREA.

NOTES:

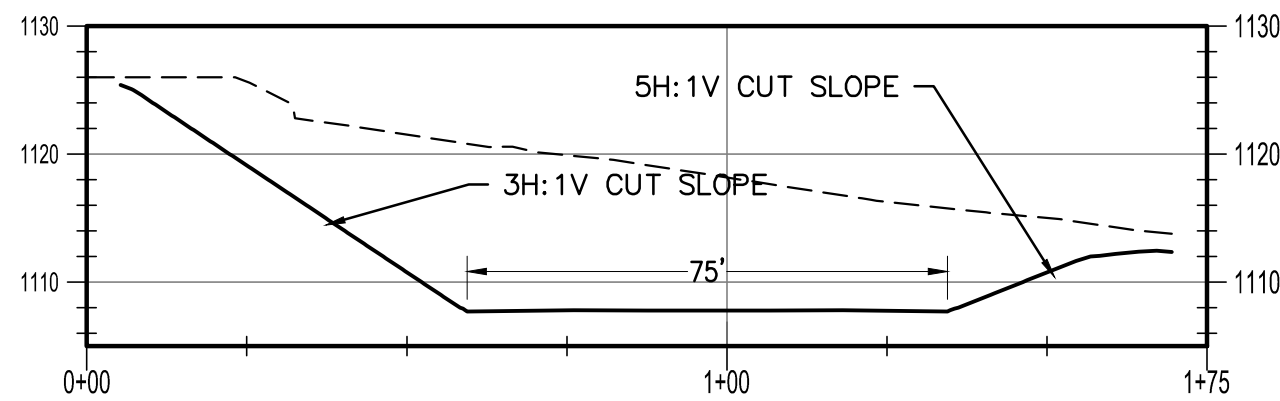
1. IF AN EXISTING DRAIN IS ENCOUNTERED DURING THE PROPOSED CONSTRUCTION, THE EXISTING DRAIN SHALL BE REPAIRED/REPLACED PER THESE PLANS OR CONNECTED TO THE PROPOSED DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER.
2. ELEVATIONS SHOWN ON DAM AND ROAD ARE EXISTING GRADE.
3. THE CONTRACTOR SHALL PROVIDE THE QUALITY CONTROL MEASURES NECESSARY TO ENSURE THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THESE DRAWINGS, AND TO THE SATISFACTION OF THE OWNER.
4. THE CONTRACTOR SHALL PERFORM TEST PITS TO A MINIMUM DEPTH OF 8 FEET IN THE LOCATION SHOWN PRIOR TO CONSTRUCTION OR WITHIN THE FIRST 5 DAYS OF MOBILIZATION.

EARTHWORK TABLE		
AREA	CUT	FILL
EMERGENCY SPILLWAY	13,830 C.Y.	3,335 C.Y.
SOIL EXPORTED OFF SITE	0 C.Y.	10,495 C.Y.
TOPSOIL	1,692 C.Y.	917 C.Y.

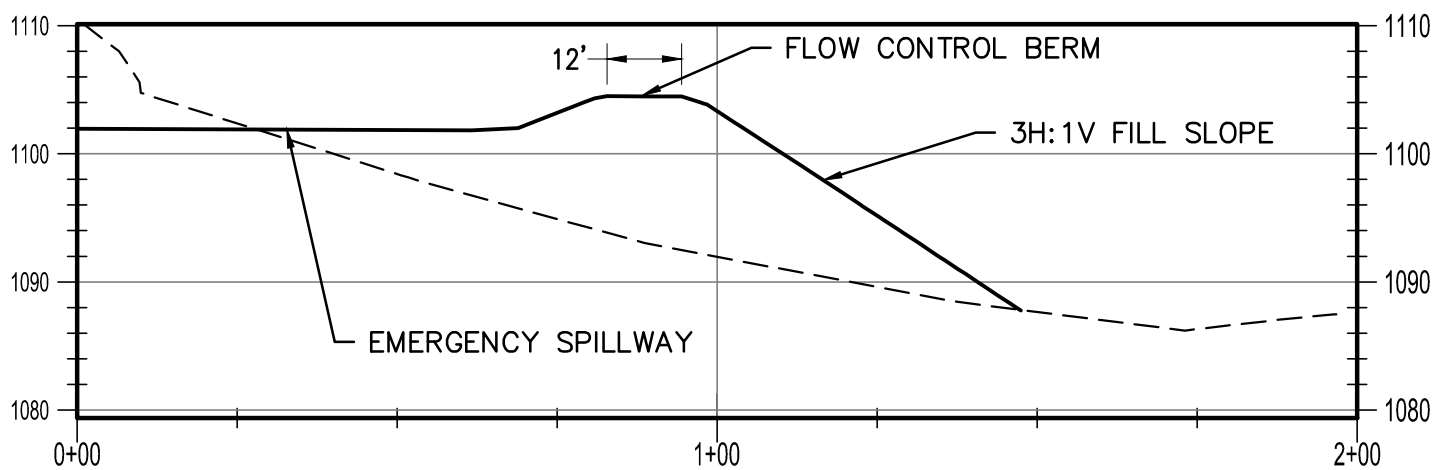
EARTHWORK NOTES:

1. EARTHWORK QUANTITIES REFLECT FINISHED SUBGRADE. FINISHED SUBGRADE REPRESENTS BOTTOM OF BASE, CHANNEL EXCAVATION PRIOR TO RECEIVING ROCK CHANNEL PROTECTION AND CONTROLLED FILL GRADES PRIOR TO TOPSOIL REPLACEMENT.
2. IT IS ASSUMED THAT 8" OF TOPSOIL/ORGANIC MATERIAL WILL BE REMOVED DURING THE SUBGRADE PREPARATION FOR THE DAM REGRADING. ON-SITE CONDITIONS MAY VARY.
3. VOLUMES ARE BASED ON IN-PLACE VOLUMES. NO SHRINK OR SWELL FACTORS HAVE BEEN APPLIED.
4. THE CONTRACTOR SHALL UTILIZE THE OWNERS DETERMINED ON SITE SPOIL LOCATION, (NOT SHOWN). ANY DAMAGE TO EXISTING PARK ROADS/DRIVES SHALL BE REPAIRED IN A MANNER ACCEPTABLE TO THE OWNER. THE COST FOR REPAIRS TO THE EXISTING ROADS SHALL BE INCLUDED UNDER THE BID ITEM (MOBILIZATION).

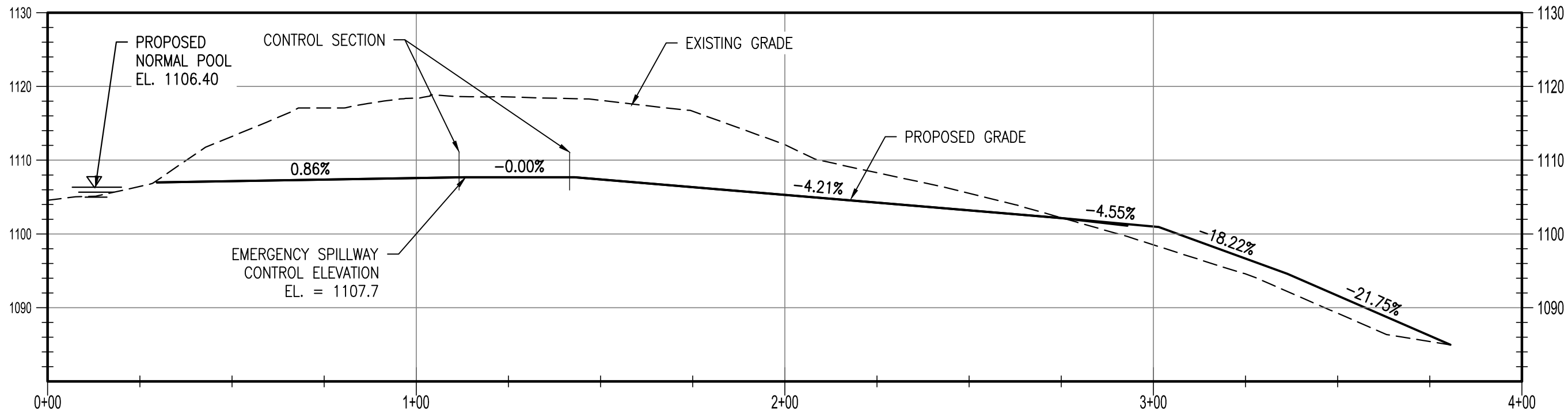
LEGEND	
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	EXISTING MINOR CONTOUR LINE
	PROPOSED MAJOR CONTOUR LINE
	PROPOSED MINOR CONTOUR LINE
	EXISTING CULVERT PIPE
	EXISTING WATERS EDGE
	EXISTING TREE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING SOIL BORING LOCATION
	PROPOSED WALKING TRAIL REPLACEMENT
	PROPOSED ROADWAY REPLACEMENT
	PROPOSED TURF REINFORCEMENT
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED RIP RAP
	PROPOSED CENTERLINE ALIGNMENT
	PROPOSED BLANKET DRAIN
	PROPOSED KEYWAY



EMERGENCY SPILLWAY SECTION A-A
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'



EMERGENCY SPILLWAY SECTION B-B
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'



EMERGENCY SPILLWAY PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 30'

Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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	FOR CONSTRUCTION	09/14/26

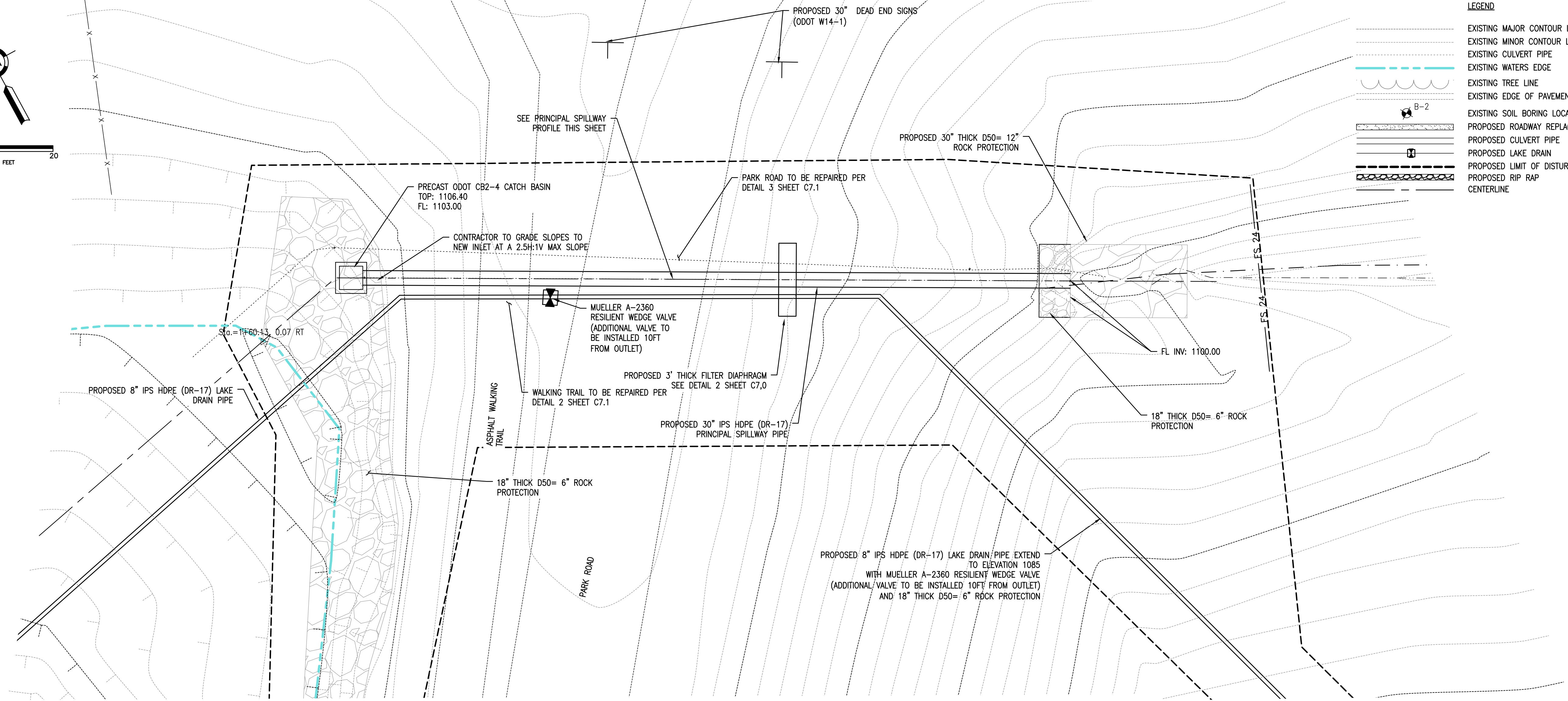
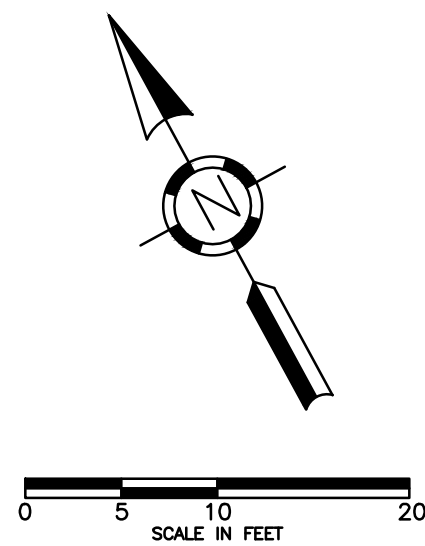
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Plot Date:	1/10/23
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

PROPOSED EMERGENCY
SPILLWAY PLAN AND
PROFILE

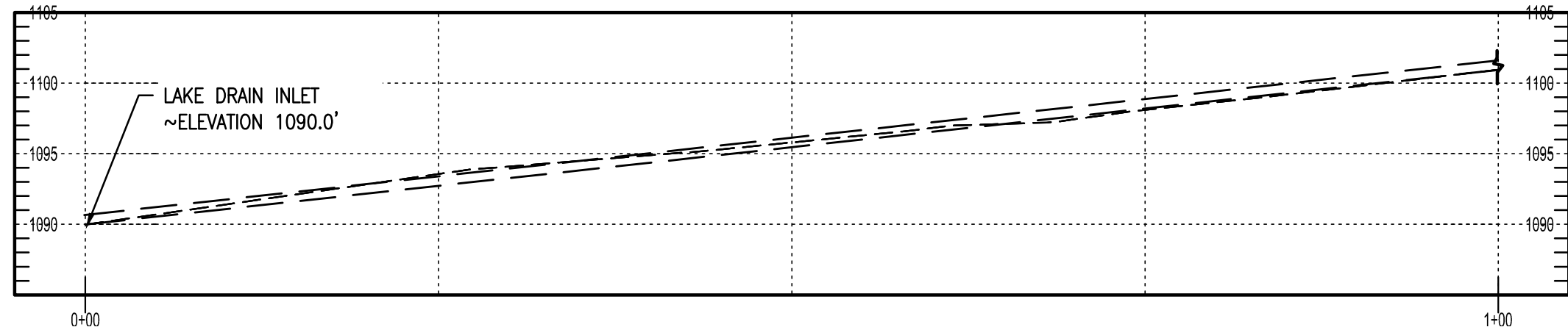
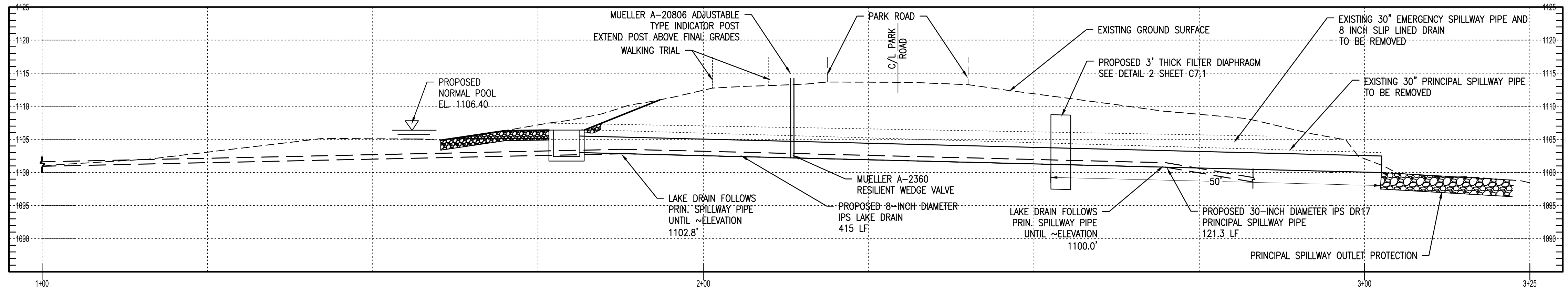
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C6.1

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- LEGEND
- EXISTING MAJOR CONTOUR LINE
 - EXISTING MINOR CONTOUR LINE
 - EXISTING CULVERT PIPE
 - EXISTING WATERS EDGE
 - EXISTING TREE LINE
 - EXISTING EDGE OF PAVEMENT
 - EXISTING SOIL BORING LOCATION
 - PROPOSED ROADWAY REPLACEMENT
 - PROPOSED CULVERT PIPE
 - PROPOSED LAKE DRAIN
 - PROPOSED LIMIT OF DISTURBANCE
 - PROPOSED RIP RAP CENTERLINE



PRINCIPAL SPILLWAY/LAKE DRAIN PROFILE
H: 1"=10"
V: 1"=10'



Verdantas
156 Woodrow Avenue
Suite 3
St. Clairsville, OH 43960
Phone: (740) 217-7685
Fax: (614) 360-0063
www.verdantas.com

Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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	FOR CONSTRUCTION	09/14/26

Project No.:	VCZ005
Plot Date:	09/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

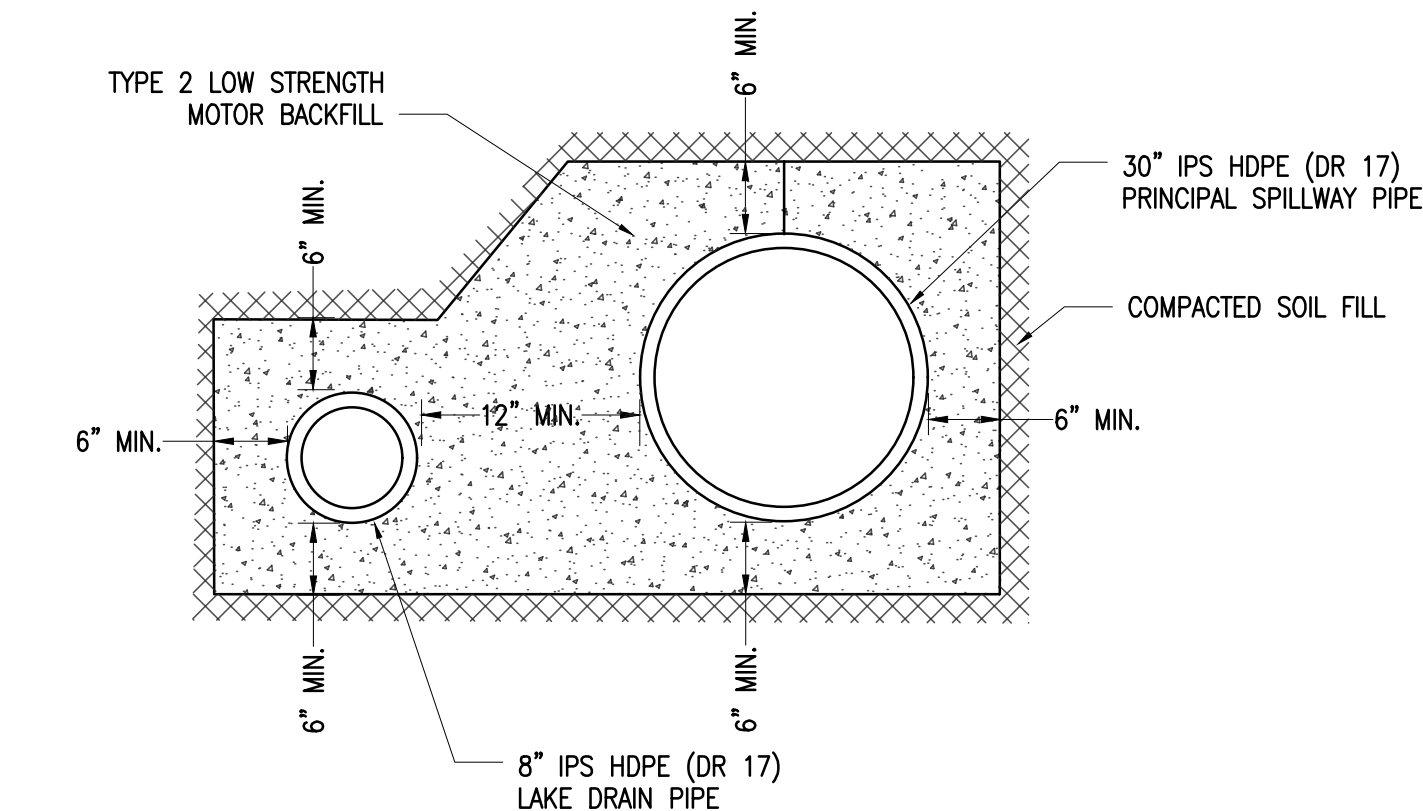
PRINCIPAL
SPILLWAY PLAN
AND PROFILE

Sheet Number: 8 OF 12

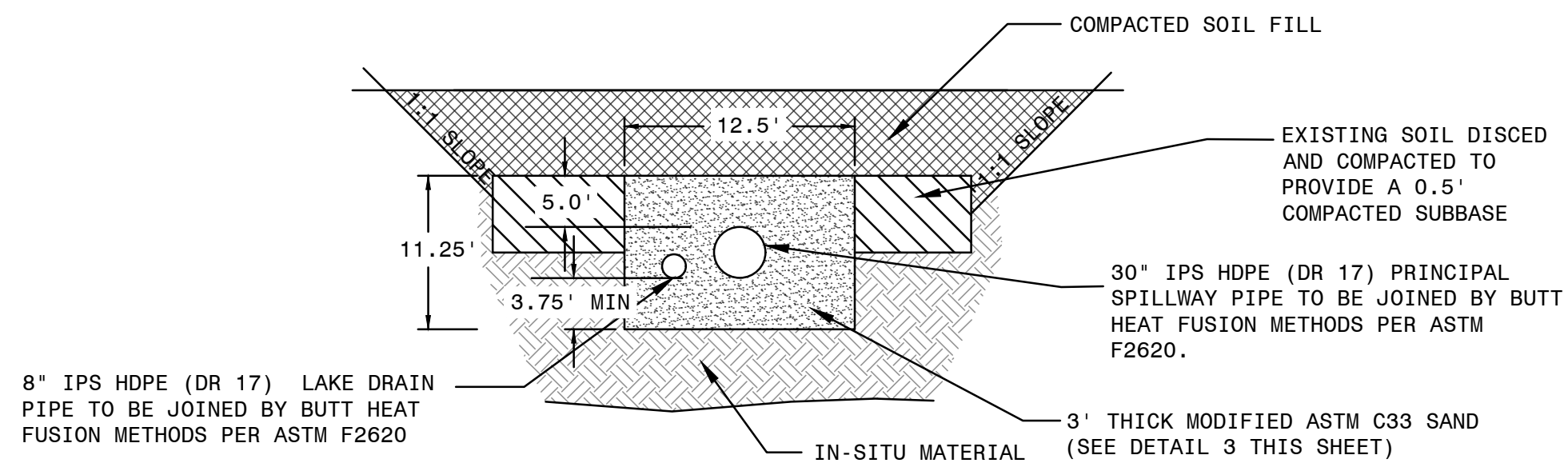
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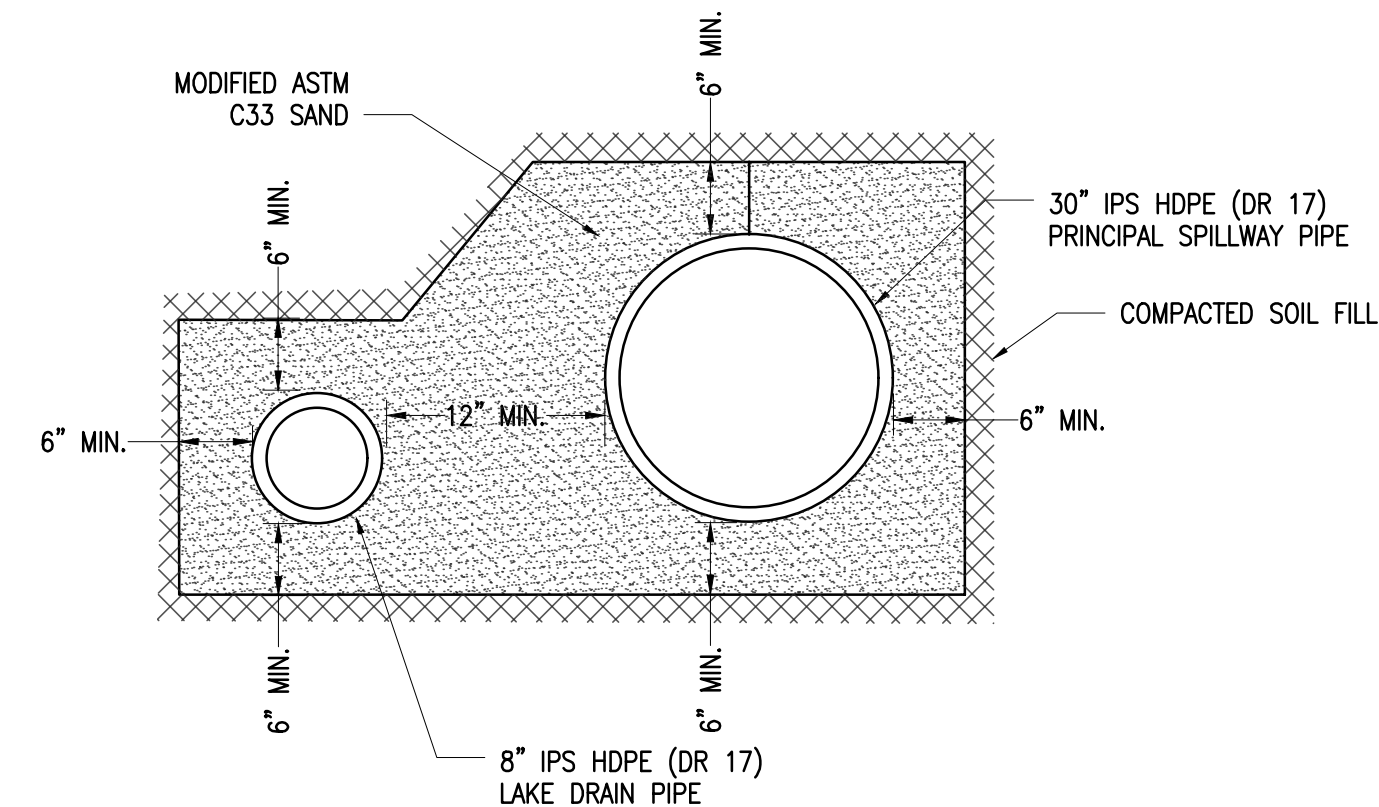
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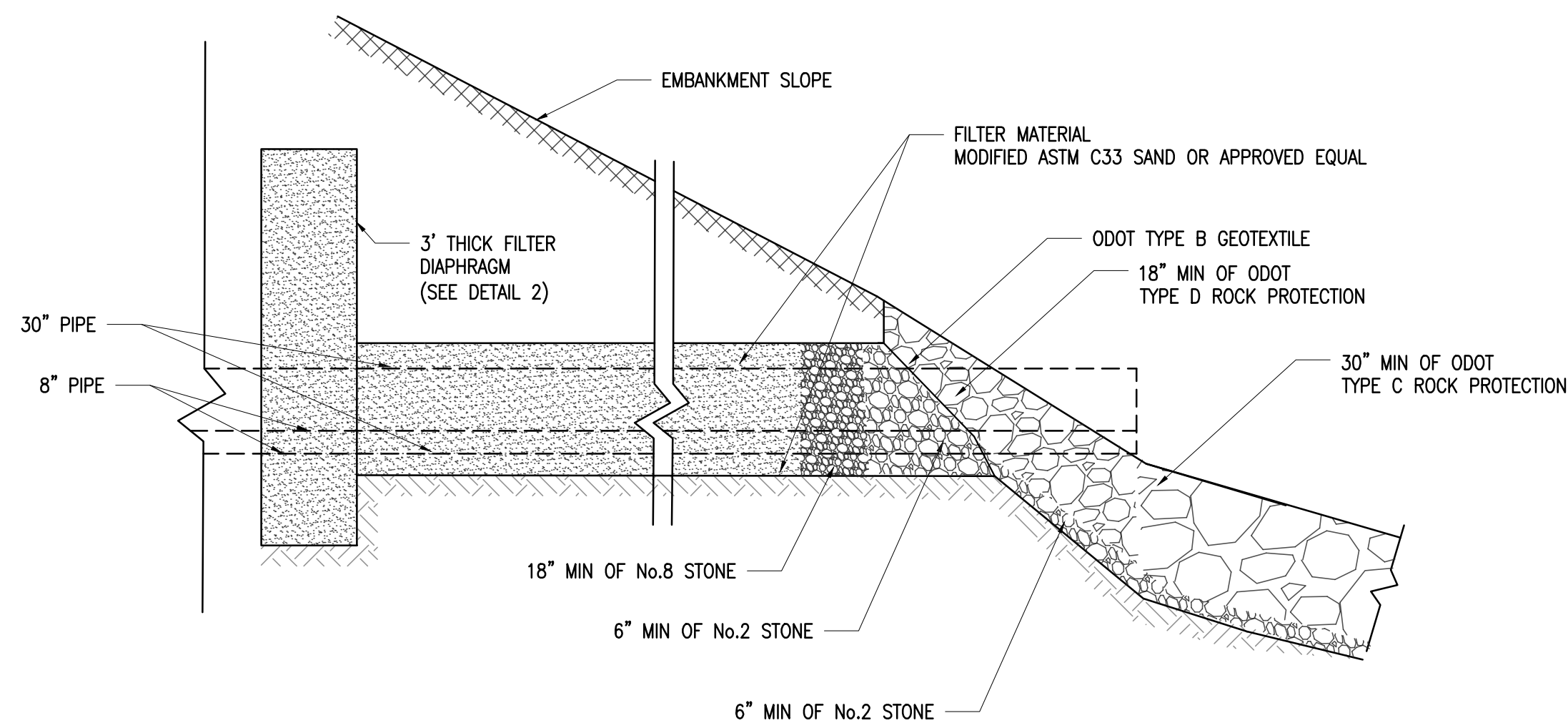
1 PRINCIPAL SPILLWAY PIPE BACKFILL DETAIL UPSTREAM OF FILTER DIAPHRAGM
SCALE: N.T.S.



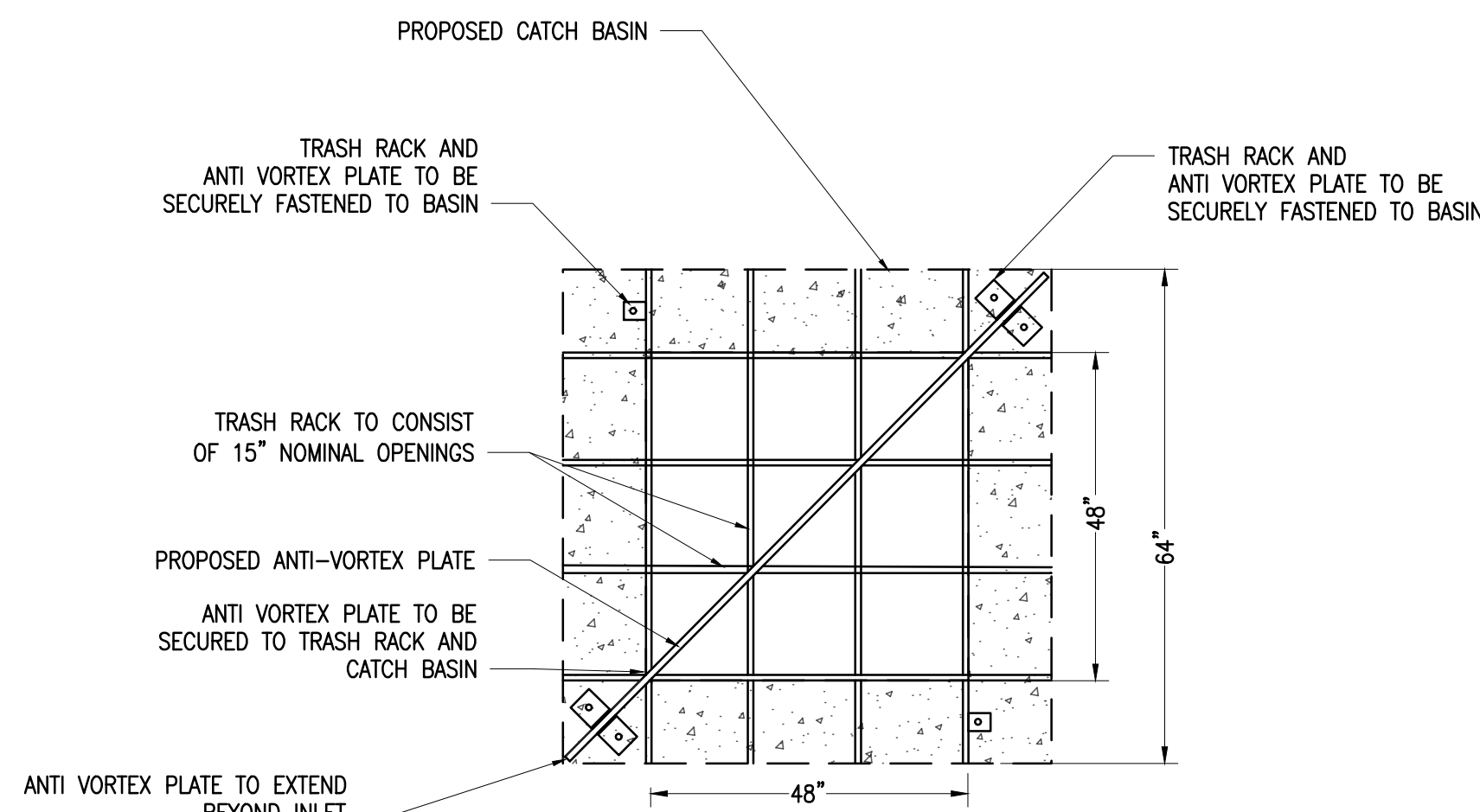
2 PRINCIPAL SPILLWAY PIPE DETAIL WITHIN EMBANKMENT/FILTER DIAPHRAGM
SCALE: N.T.S.



3 PRINCIPAL SPILLWAY PIPE BACKFILL DETAIL DOWNSTREAM OF FILTER DIAPHRAGM
SCALE: N.T.S.



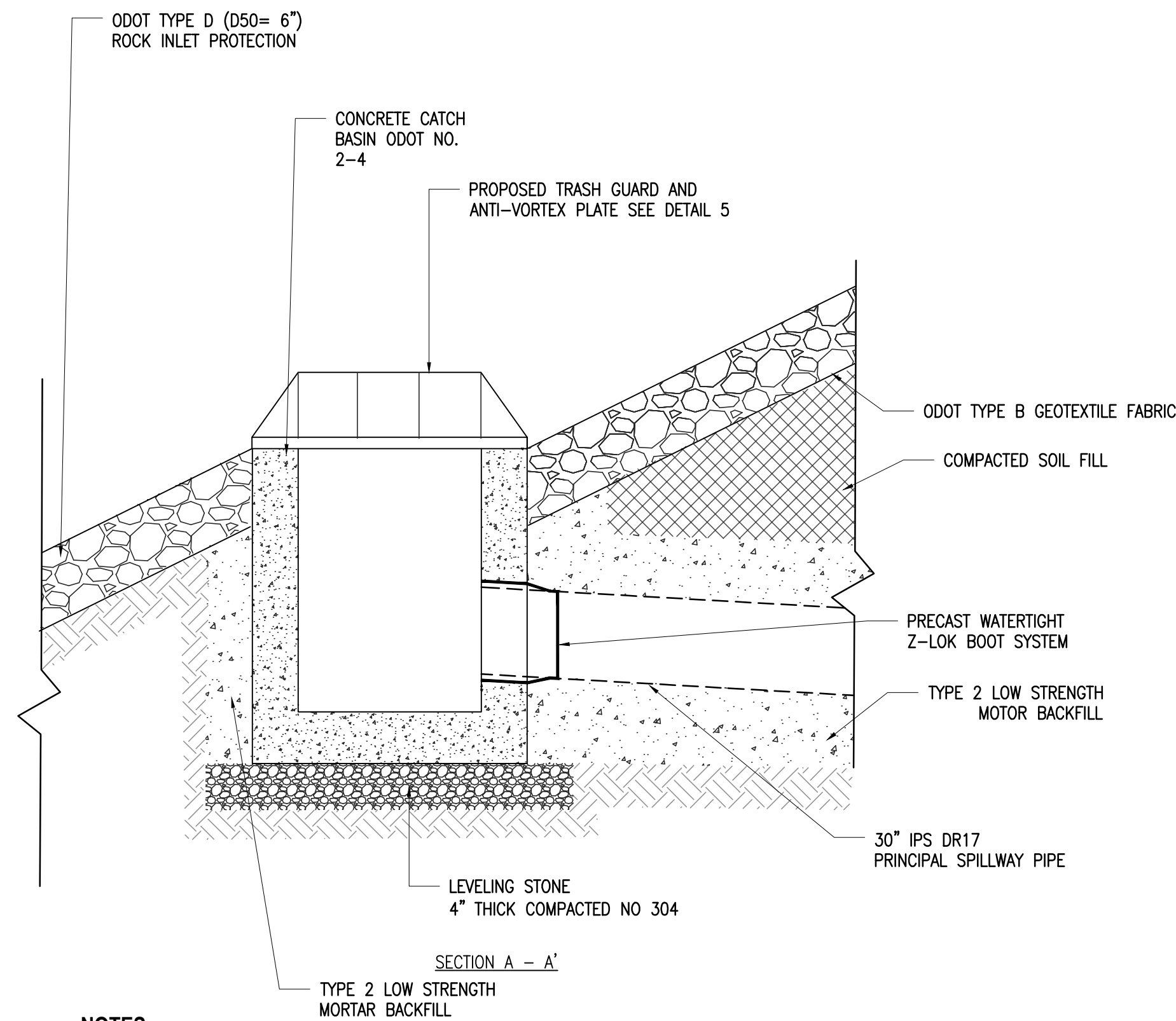
4 PRINCIPAL SPILLWAY OUTLET STRIP DRAIN DETAIL
SCALE: N.T.S.



5 PRINCIPAL SPILLWAY INLET TRASH GUARD AND ANTI VORTEX PLATE DETAIL
NOT TO SCALE

NOTE:

- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- ALL STEEL SHALL BE COATED OR PAINTED IN A MANNER THAT PREVENTS CORROSION.



NOTES:

- THE PROPOSED SPILLWAY PIPE OUTLET SHALL BE SECURELY FASTENED TO A PROPERLY SIZED PRE-CAST WATERTIGHT Z-LOK BOOT SYSTEM, OR ENGINEER APPROVED EQUAL.

6 SUMP INLET DETAIL

Scale: NTS

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3/8-IN	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	5-30
No. 100	0-10
No. 200 ⁽¹⁾	0-2 ⁽²⁾

- REQUIREMENT BEYOND THE ASTM C33 DESIGNATION
- 2% STOCKPILE, 5% IN-PLACE AFTER COMPACTION

7 MODIFIED GRADATION OF ASTM C33 SAND
SCALE: N.T.S.



Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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	FOR CONSTRUCTION	09/14/26

Project No.:	VCZ005
Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

TYPICAL DETAILS

Sheet Number: 8 OF 12

C7.0



Date: 9/14/20

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007

HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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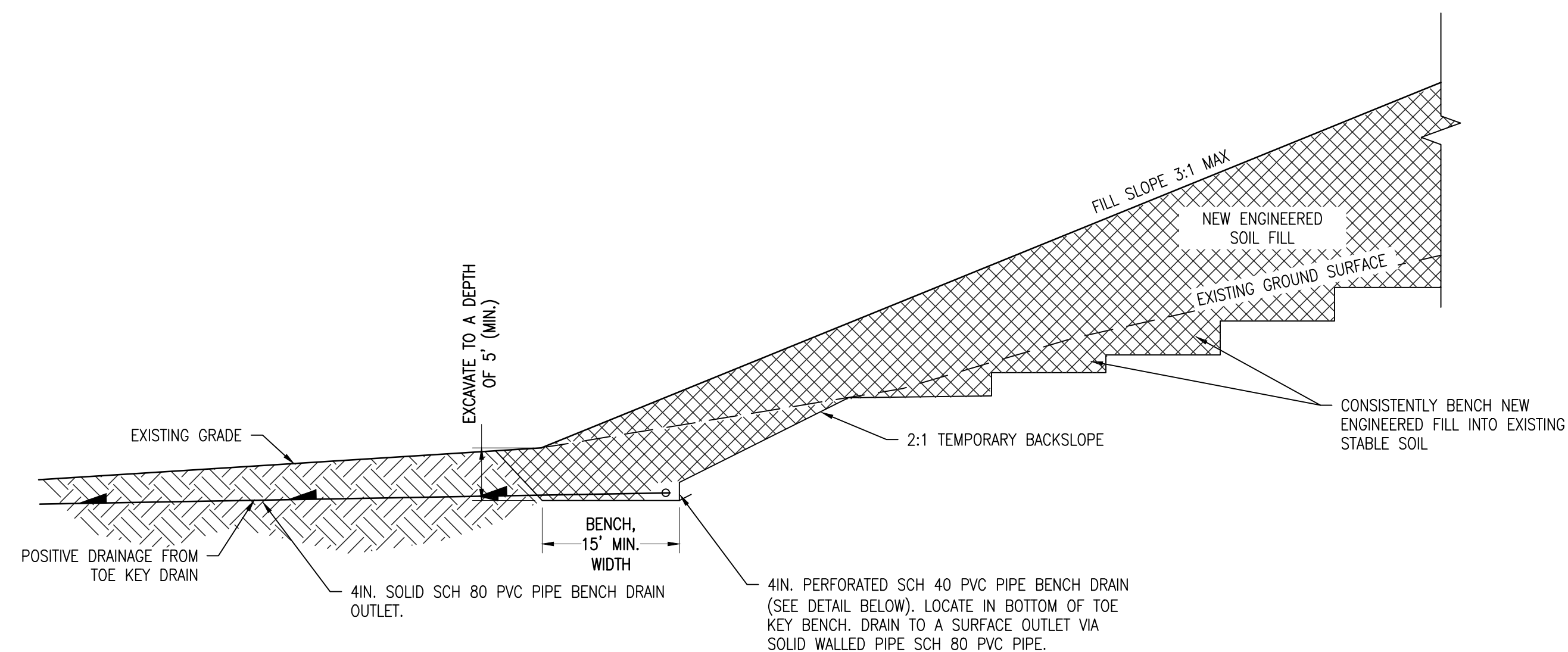
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Project No.:	VCZ005
Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

TYPICAL DETAILS

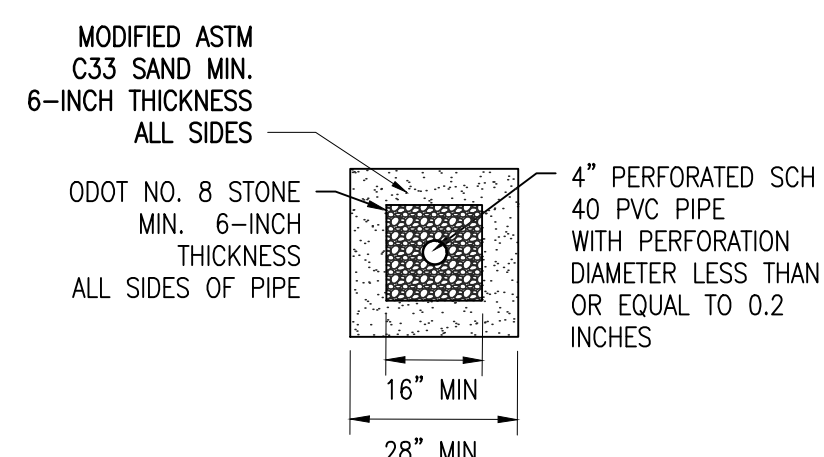
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NOTES:

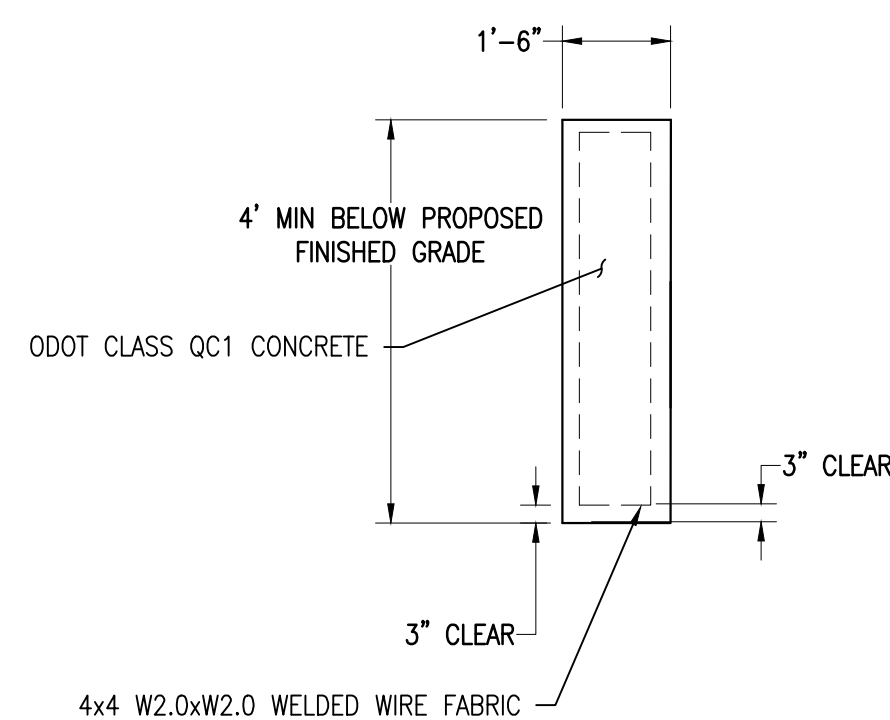
1. EXCAVATE A MINIMUM 15 FEET WIDE FOUNDATION BENCH/TOE KEY INTO EXISTING SOIL TO A MINIMUM DEPTH OF 5 FEET.
2. POSITIVE DRAINAGE MUST BE PROVIDED (GRAVITY PIPES OR TRENCH DRAINS) TO PREVENT WATER FROM BEING TRAPPED WITHIN THE DRAINAGE STONE MATERIAL. OUTLET DRAINS TO BE INSTALLED ON NO MORE THAN 100 FEET INTERVALS. BENCH DRAIN OUTLETS SHALL HAVE A PRECAST OUTLET STRUCTURE PER ODOT DM-1.1M
3. INSTALL BENCHES INTO THE EXISTING SLOPE TO PROVIDE A FIRM KEY FOR THE CONTROLLED FILL PLACEMENT AND TO PREVENT CREATION OF A SLIP PLANE. BENCHES SHALL EXTEND A MINIMUM OF 5 FEET HORIZONTALLY INTO STIFF AND STABLE SOILS TO PROVIDE A FIRM KEY, WITH MIN. 3 TO MAX. 5 FEET OF STIFF AND STABLE SOILS EXPOSED ON THE BACK (VERTICAL) WALL OF THE BENCH. THE DESIGNED BENCHES MAY NEED TO BE ADJUSTED IN THE FIELD IN ORDER TO MEET THE ABOVE SPECIFICATIONS.
4. BENCHES AND KEYWAYS SHALL BE EXCAVATED AND SLOPED/BENCHED/SHORED AS NEEDED IN ACCORDANCE WITH APPLICABLE OSHA REQUIREMENTS.
5. ANY SLICKENSIDED (I.E. OLD SLIP PLANES, TYPICALLY GRAY IN COLOR) ENCOUNTERED DURING FILL BENCHING SHALL BE COMPLETELY UNDERCUT AND BACKFILLED WITH ENGINEERED FILL.



BENCH DRAIN DETAIL

1 FILL SLOPE KEYWAY DETAIL

Scale: NTS

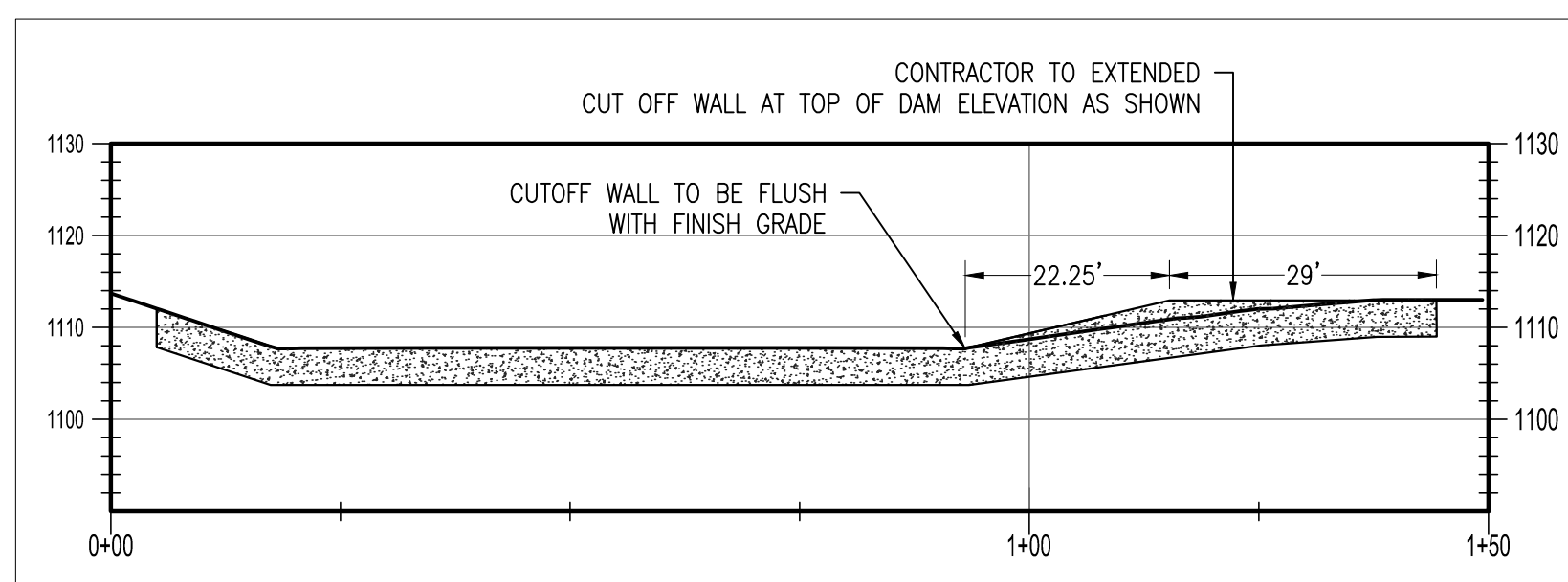


NOTES:

1. ALL MATERIALS SHALL CONFORM TO THE CURRENT ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
2. THE BASE OF THE CUTOFF TRENCH SHALL BE AT LEAST 1 FOOT INTO STIFF AND STABLE SOILS AND EXHIBIT AN UNCONFINED COMPRESSIVE STRENGTH OF AT LEAST 3 TSF. THE CONTRACTOR SHALL EXCAVATE NEEDED BELOW THE 4' TO MEET THIS REQUIREMENT .

CONCRETE CUTOFF WALL DETAIL

Scale: NTS

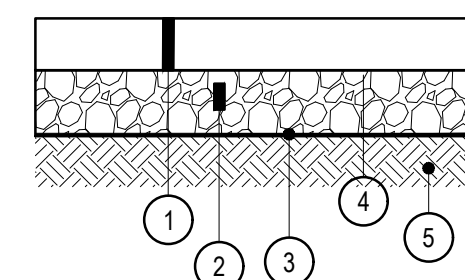


2 ASPHALT WALKING PATH PAVEMENT SECTION

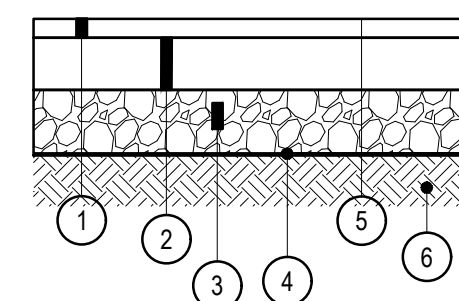
Not to Scale

NOTES:

1. ALL PAVEMENT MATERIALS SHALL CONFORM TO THE CURRENT ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS
2. THE CONTRACTOR SHALL SAW THE PROPOSED JOINTS PER ITEM 203.04E WITH ALL JOINTS TO BE SEALED PER ITEM 423



- 1 ITEM 441 - 3" ASPHALT CONCRETE SURFACE COURSE
TYPE 1 PG64-22
- 2 ITEM 304 - 4" AGGREGATE BASE
- 3 ODOT TYPE D WOVEN GEOTEXTILE
- 4 ITEM 407 - TACK COAT
- 5 ITEM 204 - SUBGRADE COMPACTION



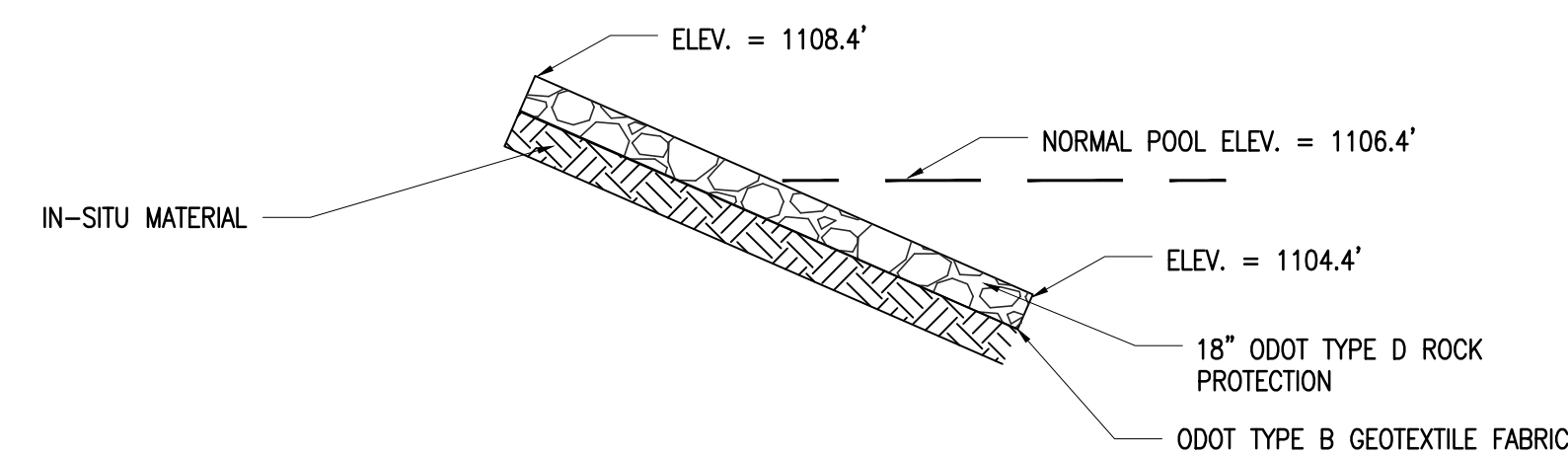
- ① ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 PG64-22
- ② ITEM 301 - 1 3/4" BITUMINOUS AGGREGATE BASE COURSE
- ③ ITEM 304 - 6" AGGREGATE BASE
- ④ ODOT TYPE D WOVEN GEOTEXTILE
- ⑤ ITEM 407 - TACK COAT
- ⑥ ITEM 204 - SUBGRADE COMPACTION

3 ASPHALT CONCRETE PAVEMENT SECTION

Not to Scale

NOTES:

1. ALL PAVEMENT MATERIALS SHALL CONFORM TO THE CURRENT ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS.
2. THE CONTRACTOR SHALL SAW THE PROPOSED REPAIR JOINTS PER ITEM 203.04E WITH ALL JOINTS TO BE SEALED PER ITEM 423.



5 INBOARD SLOPE PROTECTION DETAIL

Not to Scale



9/14/2026 12:24 PM z:\project_files\ca-hz\addition\16496 - vc2005 sally buffalo lake park dam\cad\design\drawing\sheets\vcz005_erosion & sediment control notes.dwg sgoddard

PROJECT DATA	
PROJECT DESCRIPTION:	SALLY BUFFALO PARK DAM IMPROVEMENTS INCLUDING PRINCIPAL SPILLWAY OUTLET PIPE REPLACEMENT, EMERGENCY SPILLWAY CONSTRUCTION AND ASPHALT WALKWAY RECONSTRUCTION.
PROJECT DISTURBED AREA:	2.6 ACRES
SITE LOCATION:	SALLY BUFFALO PARK, CADIZ HARRISON COUNTY, OHIO
SOIL DATA:	MORRISTOWN CHANNERY SILTY CLAY LOAM , UNRECLAIMED HIGHWALL (USDA NRCS WEB SOIL SURVEY)
IMMEDIATE RECEIVING WATERS:	SALLY BUFFALO CREEK

there will be a reduction in the percent imperviousness of the disturbed area upon completion of the project.

BMP SELECTION FOR PROJECT IMPROVEMENTS

BMP TREATMENTS FOR THE PROJECT AREA CONSIST OF FILTER SOCKS, SILT FENCE, AND INLET PROTECTION.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARING A SWPPP FOR THIS PROJECT AND THE OFFSITE SPOIL AREA AND OBTAINING A STORMWATER PERMIT FOR CONSTRUCTION FROM OHIO EPA.

EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS DURING THE TERM OF CONSTRUCTION TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH THE USE OF EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S).

TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY CLEARING OR DEMOLITION OPERATIONS. CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT WERE NOT FORESEEN DURING DESIGN STAGE, THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE OR ENGINEER.

PERIMETER SEDIMENT CONTROLS, SHALL BE IMPLEMENTED PRIOR TO GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREAS ARE RE-ESTABLISHED WITH VEGETATION.

SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED TO STREAMS, WATER RESOURCES.

ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S MAY BE REQUIRED AS UNFORSEEN SITUATIONS MAY ARISE THAT REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL PRACTICES.

CLEARING AND GRUBBING

LIMITS OF DISTURBANCE FOR CLEARING AND GRADING SHALL BE CLEARLY MARKED ON THE SITE BY THE CONTRACTOR WITH SIGNAGE, FLAGGING AND/OR ORANGE CONSTRUCTION FENCING.

THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODIBLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS, WATER RESOURCES, WETLANDS, OR OTHER AREAS OF WATER IMPOUNDMENT.

STABILIZATION

PERMANENT AND TEMPORARY STABILIZATION SHALL OCCUR AS REQUIRED IN THE FOLLOWING TABLES:

TABLE 1: PERMANENT STABILIZATION

PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREA WITHIN 50 FT. OF A STREAM AND AT FINAL GRADE	WITHIN 2 DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA

TEMPORARY SEEDING

SEEDED AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 70% COVER SHALL BE RESEEDED BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH STRAW MULCH WHEN CONDITIONS PROHIBIT SEEDING.

STRAW MULCH SHALL BE APPLIED AT A RATE OF 2-3 STANDARD 45 LB. BALES PER 1000 SQ. FT. OF DISTURBED AREA OR 2 TONS PER ACRE. ALL HYDROSEEDING MUST BE STRAW MULCHED ACCORDING TO THE ABOVE SPECIFICATIONS UNLESS IT IS WATERED WEEKLY.

ALL DETENTION PONDS, RETENTION PONDS, WATER QUALITY STRUCTURES, SEDIMENT PONDS, SEDIMENT TRAPS, EARTHEN DIVERSIONS, OR EMBANKMENTS SHALL BE SEEDED AND STRAW MULCHED WITHIN 7 DAYS OF COMPLETED CONSTRUCTION.

TABLE 2: TEMPORARY STABILIZATION

TEMPORARY STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL
ANY DISTURBED AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE	WITHIN 2 DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREA, INCLUDING SOIL STOCKPILES THAT WILL BE DORMANT FOR MORE THAN 21 DAYS BUT LESS THAN 1 YEAR, AND NOT WITHIN 50 FEET OF A STREAM	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
DISTURBED AREAS THAT WILL REMAIN IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER (NOV. 1) STRAW MULCH 2-3 BALES PER 1000 SQ. FT. OR 2 TONS PER ACRE

SEEDING AND MULCHING

SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING UPON COMPLETION OF EXCAVATION OR FILL AND ALL DISTURBED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF O.D.O.T. ITEM 659 OR AS DIRECTED BY THE ENGINEER. THE FOLLOWING MIXTURES SHALL BE USED FOR SEEDING:

TEMPORARY SEED MIX:	ODOT ITEM 659, CLASS 7
PERMANENT SEED MIX:	OHIO VALLEY MIX "AS SUPPLIED BY JEFFERSON LANDMARK, INC., 994 E. MARKET St., CADIS OHIO 43907" OR ODOT ITEM 659, CLASS 1

WINTER SEEDING SHALL BE DONE IN ACCORDANCE WITH ODOT CMS ITEM 659.12.

ALL SEEDING SHALL BE APPLIED VIA HYDRA SEEDING WITH A FIBER MATRIX SUCH AS EARTHGUARD

THE CONTRACTOR SHALL MAINTAIN AND RESEED AS NEEDED UNTIL 90% VEGETATED COVER IS ESTABLISHED, THE COST FOR THIS EFFORT SHALL BE INCLUDED IN THE UNIT PRICE FOR SEEDING AND MULCHING

PERMANENT STABILIZATION OF CONVEYANCE CHANNELS

THE CONTRACTOR SHALL UNDERTAKE SPECIAL MEASURES TO STABILIZE CHANNELS AND OUTFALLS AND PREVENT EROSION FLOWS. MEASURES MAY INCLUDE SEEDING, DORMANT SEEDING, MULCHING, EROSION CONTROL MATTING, SODDING, RIPRAP, NATURAL CHANNEL DESIGN WITH BIO-ENGINEERING TECHNIQUES, OR ROCK CHECK DAMS, ALL AS DEFINED IN THE MOST RECENT EDITION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL PUBLISHED BY ODNR.

SOIL TRANSPORT ONTO PUBLIC ROADS

WHERE SOIL IS TRANSPORTED ONTO PUBLIC ROAD SURFACES, THE ROADS SHALL BE CLEANED THOROUGHLY BY EITHER SWEEPING OR SCRAPING AT THE END OF EACH WORK DAY OR MORE FREQUENTLY IF NEEDED IN ORDER TO ENSURE PUBLIC SAFETY. STREET WASHING IS NOT PERMITTED. IF APPLICABLE, THE CATCH BASINS NEAREST TO ANY SITE WORK SHALL BE CLEANED WEEKLY.

ADDITIONAL REQUIREMENTS TO CONTROL SOIL TRANSPORT ONTO PUBLIC ROADS MAY INCLUDE:

1. COMPOST FILTER SOCK, SILT FENCE OR CONSTRUCTION FENCE INSTALLED AROUND THE PERIMETER OF THE DEVELOPMENT AREA TO ENSURE ALL VEHICLE TRAFFIC ADHERES TO DESIGNATED CONSTRUCTION ENTRANCES.

CREDIBLE MATERIAL RAMPS IN STREETS TO ENABLE EQUIPMENT TO CROSS CURBS SHALL BE PROPERLY REMOVED IMMEDIATELY AFTER USE.

COMPOST FILTER SOCK, SILT FENCE AND DIVERSIONS

SHEET FLOW RUNOFF FROM DENUDEED AREAS SHALL BE INTERCEPTED BY COMPOST FILTER SOCK, SILT FENCE OR DIVERSIONS TO PROTECT ADJACENT PROPERTIES, WATER RESOURCES, AND WETLANDS FROM SEDIMENT TRANSPORTED VIA SHEET FLOW. WHERE INTENDED TO PROVIDE SEDIMENT CONTROL, COMPOST FILTER SOCK/SILT FENCE SHALL BE PLACED ON A LEVEL CONTOUR AND SHALL BE CAPABLE OF TEMPORARILY PONDING RUNOFF. THE EPA PERMIT NO. OH0C00005 DOES NOT PRECLUDE THE USE OF OTHER SEDIMENT BARRIERS DESIGNED TO CONTROL SHEET FLOW RUNOFF.

INLET PROTECTION

INLET PROTECTION IS MANDATORY. INLET PROTECTION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENT VERSION OF THE RAINWATER AND LAND DEVELOPMENT MANUAL BY ODNR. STRAW OR HAY BALES ARE NOT ACCEPTABLE FORMS OF INLET PROTECTION.

NON-SEDIMENT POLLUTANTS CONTROLS

NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NECESSARY BMP'S MUST BE IMPLEMENTED TO PREVENT THE DISCHARGE OF NON-SEDIMENT POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SITE, WATER RESOURCES, OR WETLANDS. UNDER NO CIRCUMSTANCE SHALL CONCRETE TRUCKS WASH OUT DIRECTLY INTO A DRAINAGE CHANNEL, STREET, STORM SEWER, OR OTHER PUBLIC FACILITY OR NATURAL RESOURCE. EXPOSURE OF WASTE MATERIALS TO STORM WATER IS NOT RECOMMENDED.

TRENCH AND GROUNDWATER CONTROL

THERE SHALL BE NO SEDIMENT LADEN OR TURBID DISCHARGES TO WATER RESOURCES OR WETLANDS RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUND WATER CONTAINS SEDIMENT, IT MUST PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BE SETTLING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG, OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.

INSPECTION

ALL CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD. THE CONTRACTOR SHALL ASSIGN QUALIFIED INSPECTION PERSONNEL TO CONDUCT THESE INSPECTIONS TO ENSURE THAT THE CONTROL PRACTICES ARE FUNCTIONAL AND TO EVALUATE WHETHER THE SWP3 IS ADEQUATE, OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. QUALIFIED INSPECTION PERSONNEL ARE INDIVIDUALS WITH KNOWLEDGE AND EXPERIENCE IN THE INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROLS.

INSPECTIONS SHALL MEET THE FOLLOWING REQUIREMENTS:

1. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. THE CONTRACTOR SHALL UTILIZE AN INSPECTION FORM TO DOCUMENT INSPECTIONS. THE INSPECTION FORM SHALL INCLUDE:
 - a. THE INSPECTION DATE.
 - b. NAMES, TITLES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION.
 - c. WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION, INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT, DURATION OF EACH STORM EVENT AND APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT IN INCHES, AND WHETHER ANY DISCHARGES OCCURRED.
 - d. LOCATIONS OF:
 - DISCHARGES FROM SEDIMENT OR OTHER POLLUTANTS FROM THE SITE.
 - BMP'S THAT NEEDED TO BE MAINTAINED.
 - BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION.
 - WHERE ADDITIONAL BMP'S ARE NEEDED THAT DID NOT EXIST AT THE TIME OF THE INSPECTION.
3. DISCHARGE LOCATIONS SHALL BE INSPECTED TO DETERMINE WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATER RESOURCE OR WETLANDS.
4. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.

MAINTENANCE

ALL CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ENSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION UNTIL FINAL STABILIZATION. ALL SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED IN A FUNCTIONAL CONDITION UNTIL ALL UP SLOPE AREAS THEY CONTROL REACH FINAL STABILIZATION. THE CONTRACTOR SHALL COMPLY WITH THE MAINTENANCE SCHEDULE CONTAINED IN THE APPROVED PLANS FOR THE PROPOSED EROSION CONTROLS.

WHEN INSPECTIONS REVEAL THE NEED FOR REPAIR, REPLACEMENT, OR INSTALLATION OF EROSION AND SEDIMENT CONTROL BMP'S, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:

1. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE: CONTROL PRACTICES IN NEED OF REPAIR OR MAINTENANCE, MUST BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION.
2. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION: CONTROL PRACTICES THAT FAIL TO PERFORM THEIR INTENDED FUNCTION SHALL BE REPLACED WITH ANOTHER MORE APPROPRIATE CONTROL WITHIN 10 DAYS.

DUST CONTROLS AND SUPPRESSANTS

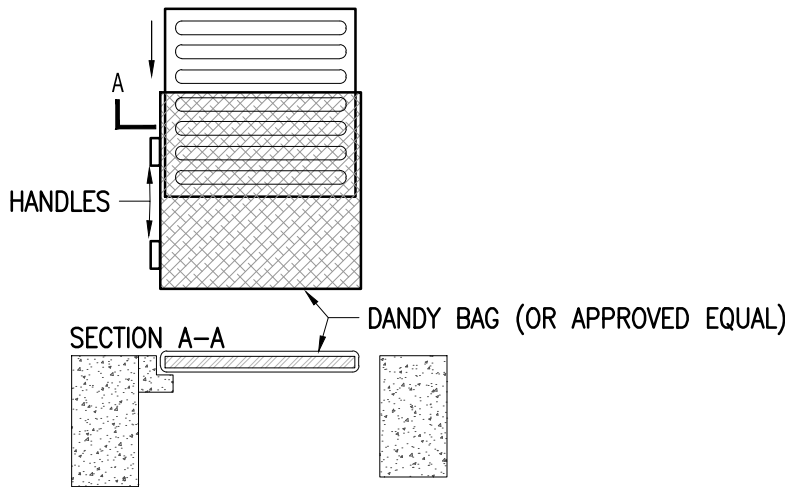
DUST CONTROL SHALL BE INTEGRATED THROUGHOUT THE PROJECT. USED OIL SHALL NOT BE USED AS A DUST SUPPRESSANT. DUST CONTROLS MAY INCLUDE THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, TARPING STOCKPILES, TEMPORARY STABILIZATION OF DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE SITE.

PERMITS

THIS SITE WILL REQUIRE COVERAGE UNDER OHIO EPA GENERAL CONSTRUCTION PERMIT #OH0C000005.

STRUCTURAL BMP'S

PERMANENT BMP'S FOR POST CONSTRUCTION TREATMENT OF STORM WATER (CONVERSION OF SEDIMENT LAND TO STORM WATER POND) SHALL NOT BE INSTALLED UNTIL 70% OF THE DISTURBED AREA IS STABILIZED.



INSPECTION:

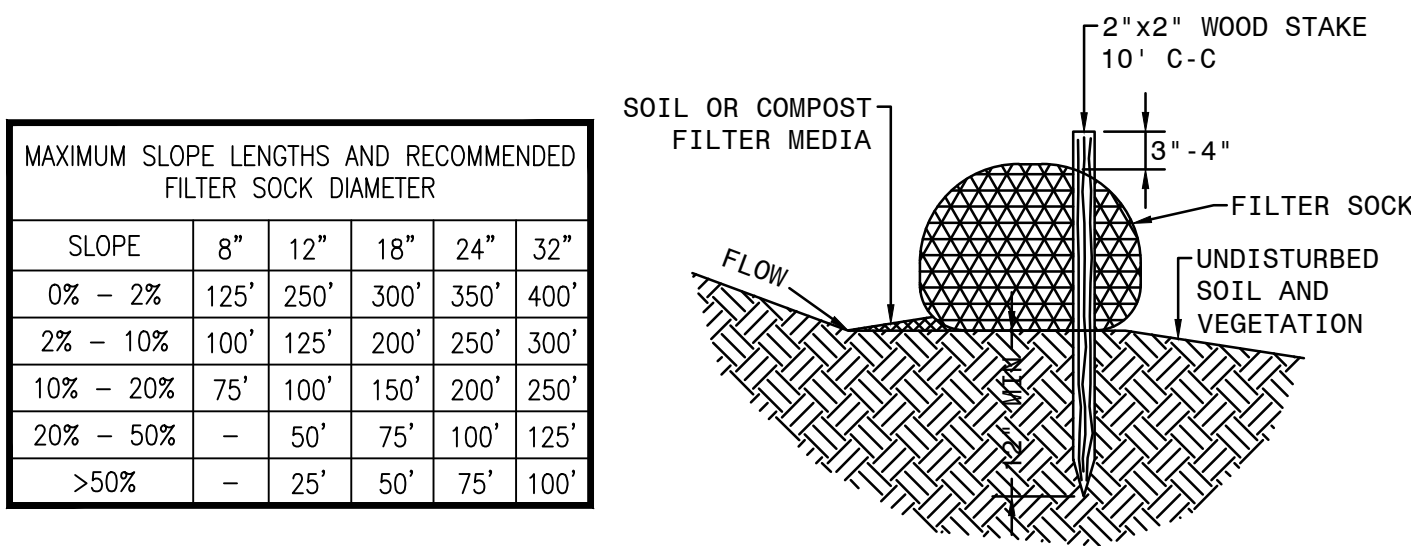
1. REMOVE THE UNIT WITH GRATE INSIDE BAG USING HANDLES, INSPECT CATCH BASIN OR MANHOLE AND REPLACE.

MAINTENANCE:

1. REMOVE DRIED SEDIMENT FROM SURFACE OF UNIT AS NEEDED WITH STIFF BROOM OR SQUARE POINT SHOVEL. REMOVE FINE MATERIAL FROM INSIDE ENVELOPE AS NEEDED.

DB DANDY BAG INLET PROTECTION

Scale: NTS



GENERAL NOTES

1. INSTALL AND SIZE FILTER SOCKS IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 6.6 OF THE OHIO DEPARTMENT OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT MANUAL.
2. MATERIALS – COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN, AND INSECT FREE AND FREE OF ANY 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".
3. FILTER SOCKS SHALL BE 3 TO 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST MATERIAL.

INSTALLATION

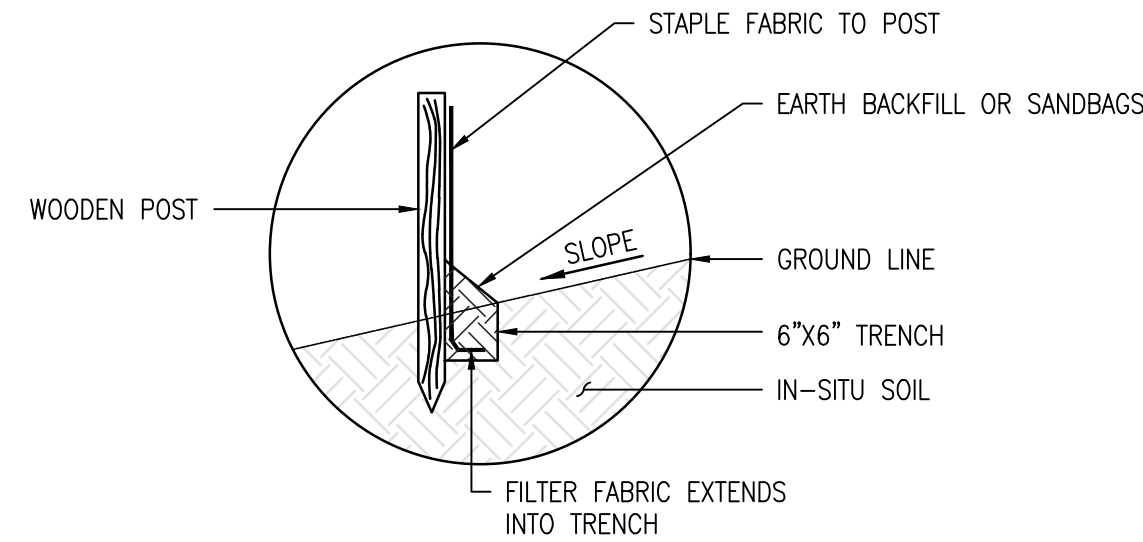
1. FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE, END SHALL BE WINGED UPSLOPE FOR A MINIMUM OF 4 FEET TO PREVENT CIRCUMVENTION.
2. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
3. WOODEN STAKES MAY BE PLACED EITHER FILTER SOCKS OR ON THE DOWNHILL SIDE OF FILTER SOCKS, CONTRACTOR TO ENSURE STABILITY WITH ENTER PLACEMENT.

MAINTENANCE

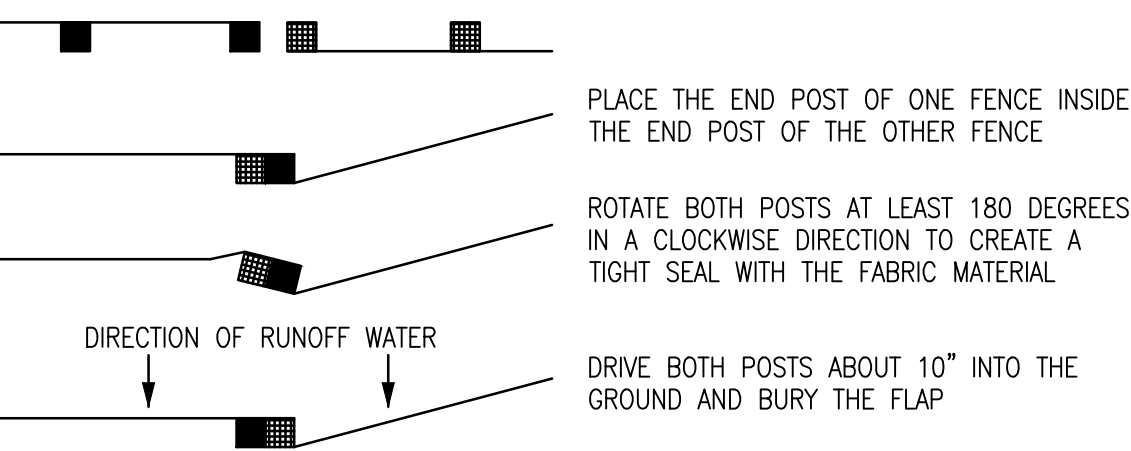
1. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
2. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCK WHEN THEY REACH 1/2 OF THE EXPOSED HEIGHT OF THE CONTROL.
3. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT SHALL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
4. FILTER SOCKS SHALL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.

FS FILTER SOCK DETAIL

Scale: NTS



SLOPE CHECK



ATTACHING TWO SILT FENCES

SILT FENCE NOTES:

1. SILT FENCE TO BE INSTALLED PARALLEL TO SLOPE.
2. USE SILT FENCE AS NEEDED TO PREVENT THE TRANSPORT OF SEDIMENT-LADEN WATER.

SF SILT FENCE DETAIL

Scale: NTS

Professional Seal:



Date: 9/14/26

Project Title:

SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007

HARRISON COUNTY, OHIO

Owner:

128 COURT STREET
CADIZ OH 43907

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Mark	Description	Date
	FOR CONSTRUCTION	09/14/26

Project No.:	VCZ005
Plot Date:	9/10/26
Layout By:	CJG
Drawn By:	CJG
Check By:	AJS
Scale:	AS NOTED
Issue Date:	SEPTEMBER 2026
Sheet Title:	

**EROSION & SEDIMENT
CONTROL NOTES AND
DETAILS**



SALLY BUFFALO LAKE DAM NO. 1
CLASS 1 DAM - ODNR FILE NO. 0210-007
HARRISON COUNTY, OHIO

128 COURT STREET
CADIZ OH 43907

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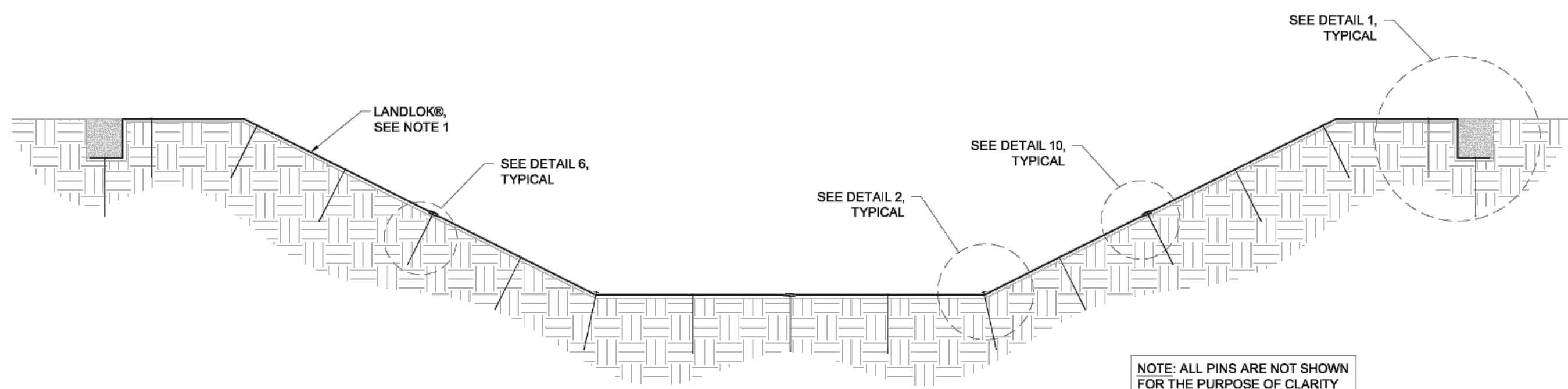
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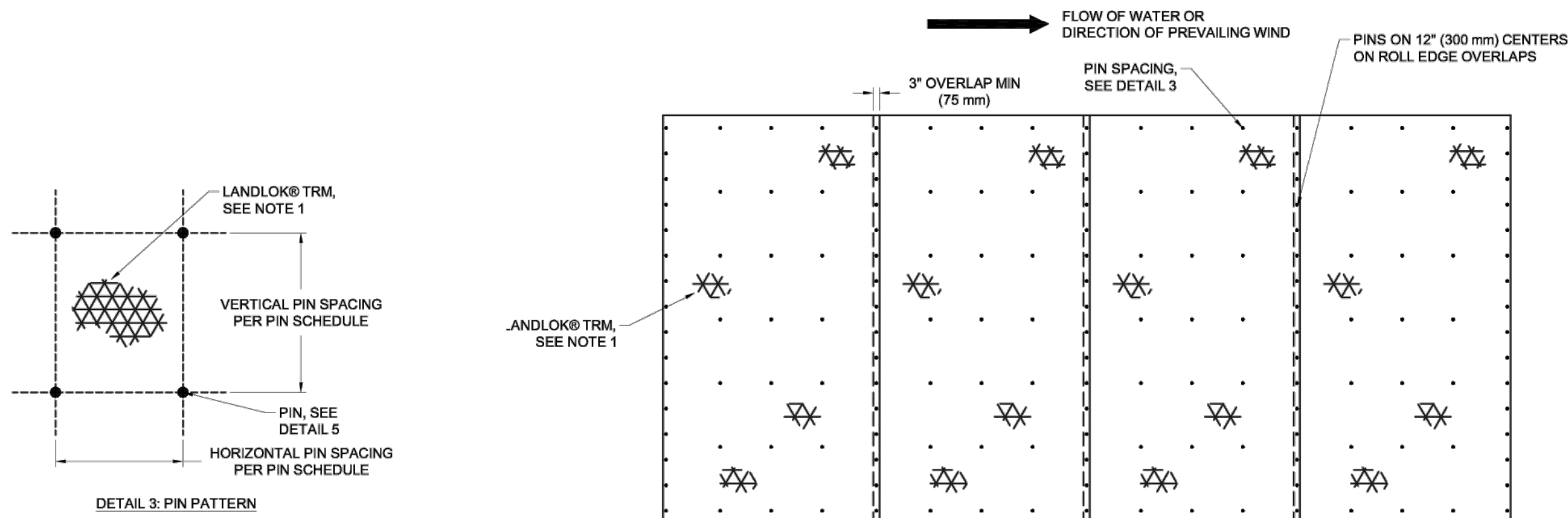
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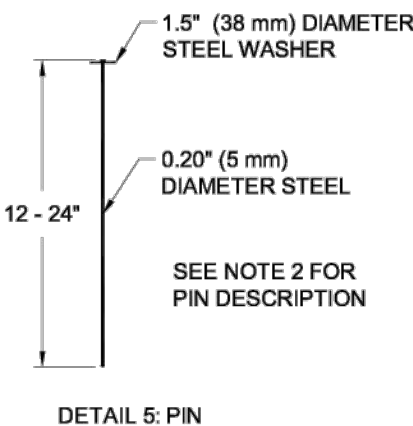
TURF REINFORCEMENT
MAT DETAILS



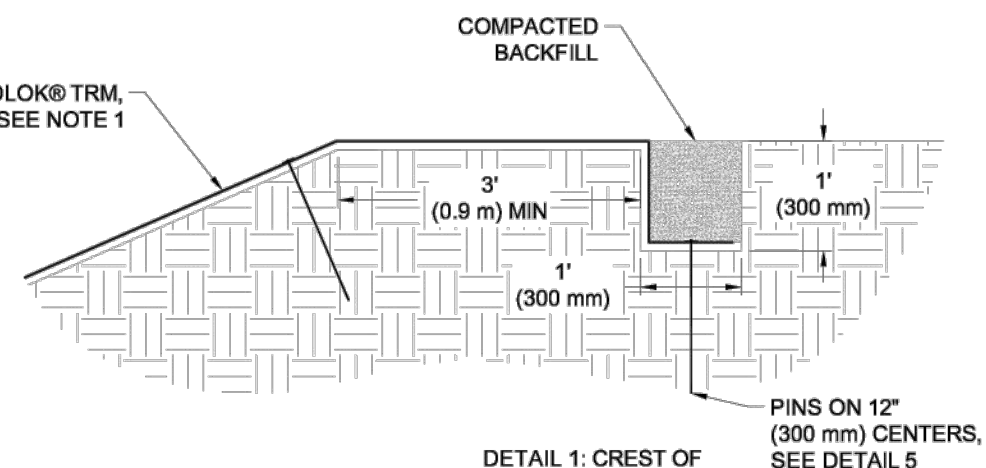
ELEVATION 1: PARALLEL INSTALLATION OF
LANDLOK® TRM IN A CHANNEL



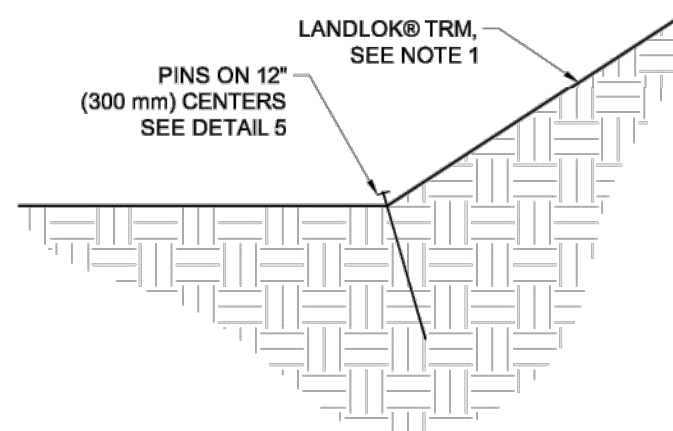
DETAIL 3: PIN PATTERN



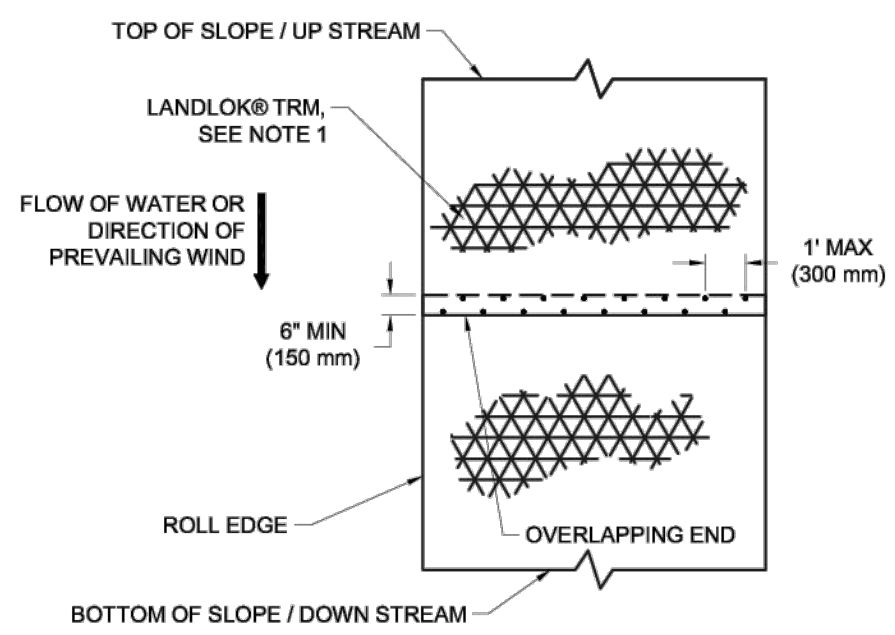
DETAIL 5: PIN



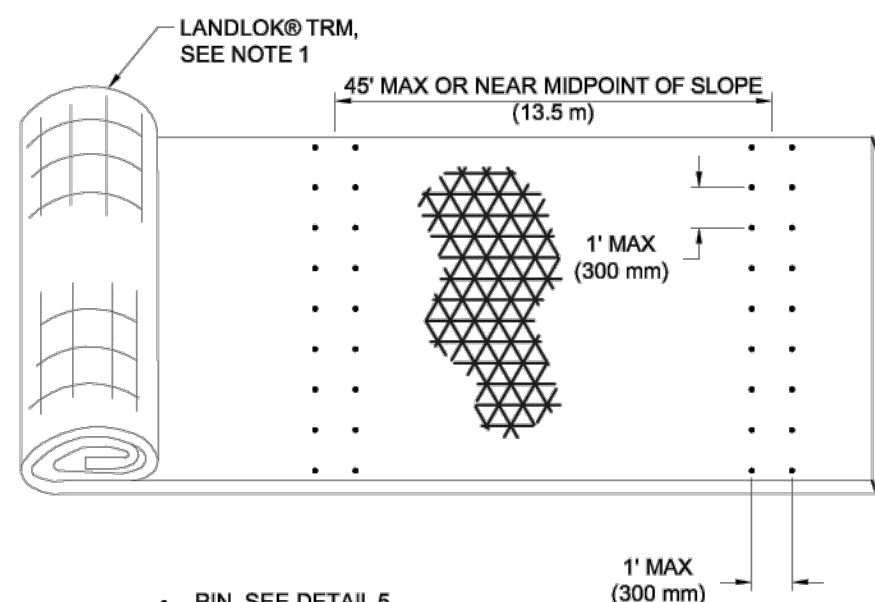
DETAIL 1: CREST OF
SLOPE (COS) TRENCH



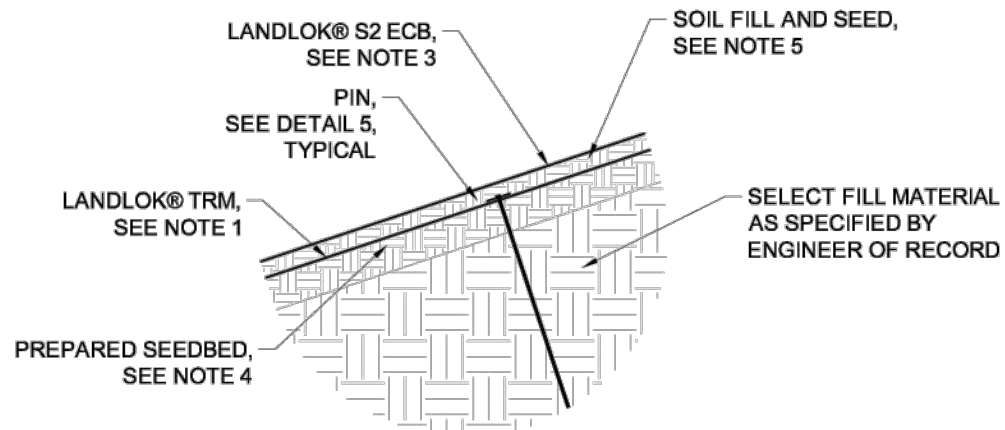
DETAIL 2: BREAK IN SLOPE
INTERFACE



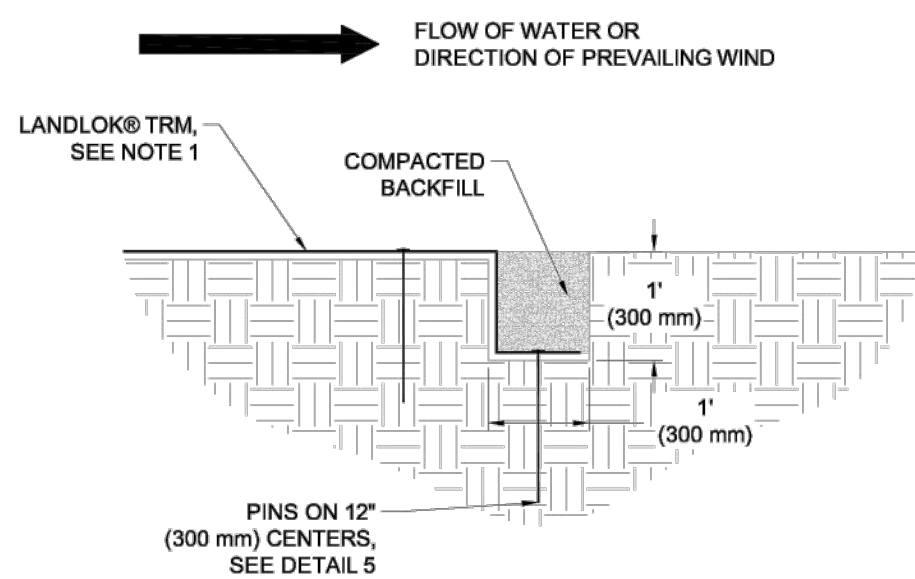
DETAIL 6: OVERLAP AT ROLL END DETAIL



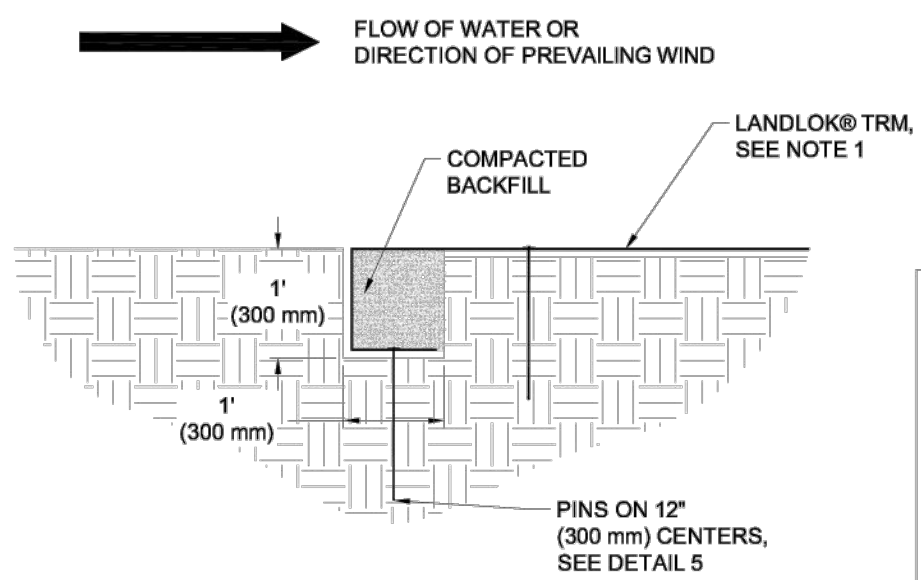
DETAIL 7: SIMULATED CHECK SLOT DETAIL



DETAIL 8: VEGETATION ESTABLISHMENT



DETAIL 9: INITIAL CHANNEL (IC)
TRENCH (DOWNSTREAM)



DETAIL 10: TERMINAL CHANNEL (TC)
TRENCH (UPSTREAM)

PIN SCHEDULE	
SECURING DEVICE	PIN
HORIZONTAL PIN SPACING	2' (0.60 m)
VERTICAL PIN SPACING	2.5' (0.75 m)
EMBEDMENT DEPTH	PER MANUFACTURES DESIGN

EROSION CONTROL INSTALLATION DETAILS

Please note that the information presented herein is general information only. It is for conceptual use only and not intended to be used for construction. While every effort has been made to ensure its accuracy, this information should not be used for a specific application without independent professional examination and verification of its suitability, applicability, and accuracy. This engineering drawing is protected by the Copyright Act, 17 U.S.C. §101 et seq. and may be used ONLY with the express written permission of Propex in connection with Propex products. Any copying, distributing, and/or creation of a derivative work without permission of Propex is prohibited and is subject of actual damages, statutory damages and attorney's fees under the Copyright Act.

1 of 1
Rev



LANDLOK® TURF REINFORCEMENT MAT (TRM) LANDLOK® TRM INSTALLATION DETAILS FOR CHANNELS

Date: 02/10/2017
Drawn By: J. HILL
Scale: NTS
*ALL DIMENSIONS ARE TO BE VERIFIED BY ENGINEER OF RECORD



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LANDLOK® TRM IN A CHANNEL FOR EROSION CONTROL GENERAL INSTALLATION GUIDELINES

GENERAL NOTES

- The LANDLOK® TRM is a three-dimensional, lofty, stitch-bonded polypropylene geotextile which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of a dense web of crimped, interlocking fibers featuring X3® technology positioned between two biaxially oriented nets and mechanically bound together by parallel stitching with polypropylene thread. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
 - The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or swaged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
 - LANDLOK® S2 Erosion Control Blankets consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. (11 mm by 11 mm). The blanket is sewn on approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is NTPEP approved for AASHTO standards.
- #### VEGETATION ESTABLISHMENT
- Prepare seedbed by loosening 50 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface prior to installation of the LANDLOK® TRM. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of the LANDLOK® TRM. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy vegetation.
 - The installed LANDLOK® TRM shall be soil filled and seeded with the remaining 40% of the seed mixture. Do not place excessive soil above material. Once soil fill and additional seed is in place, surficial protection should be accomplished by installing LANDLOK® S2 Erosion Control Blanket (ECB) atop the seed layer. LANDLOK® S2 ECB is to be secured using 6" U-shaped staples with a frequency of 2.0 staples per square meter (1.7 staples per square yard).
 - Irrigate as necessary to establish and maintain vegetation until 75% of vegetation has established and has reached a height of 2 inches. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.

BEFORE INSTALLATION BEGINS

- Coordinate with a Propex Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least a two week notice.
- Gather the Tools Needed: Tools that you will need to install the LANDLOK® TRM include a pair of industrial shears to cut the LANDLOK® TRM and tape measure.
- Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
- Please consult the Propex Website for the most up to date installation guidelines.