

FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

lqqA	lication #_PRPWFP20250975	Date:	3/24/2025
TO requ	THE ADMINISTRATOR: The undersigned hereby makes application for a permit to develop in a floodplain. The work ection works, is as described below and in attachments hereto. The undersigned agrees that all such work shall be do lirements of the Floodplain Management Ordinance, with all other applicable county/city ordinances, and the laws and seph Snook, Administrator, City of Lee's Summit Parks and Recreation	ne in acc	ordance with the
	septi 3nook, Administrator, Otty or Eee's Gammit Farks and Nedeclator		
	eloper/Owner or Agent Builder SE Green Street, Lee's Summit, 64063 TBD		
	ress Address		
	6.969.1504, Joe.Snook@citofls.net TBD		
Pho			
SITI	EINFORMATION		
1.	Location: SE 1/4; SE 1/4; Section 35; Township 48N; Range_ Property Address: 901 Bluestem, Lee's Summit, MO 64086	31V	V
2.	Type of Development: Filling Grading Excavation X Minimum Improvement Routine Maintenance New Construction Other	Substan	tial Improvement
3.	Description of Development: Dredging Legacy Lake to restore elevations to pre-existing conditions. All dredge mate floodplains.	rial will b	e placed outside of
4.	Premises: Structure Size:N/Aft. xN/Aft. Area of site:N/Asq. ft.		
	Principal Use: N/A Accessory Uses (storage, parking, etc.): N/A		-
5.	Value of Improvement (fair market): \$ N/A Pre-Improvement/Assessed Value of Structure: \$	N/A	
6.	Property located in a designated FLOODWAY? Yes No X (If Yes to Question 6, certification is suance indicating this projection)	tion mus ct will res	t be provided prior to permit ult in no increase in the 1%
7.	Property located in a designated floodplain FRINGE? Yes X No base flood elevations.)		
8.	Elevation of the 1% Base Flood / 100-year flood (ID source): 925, FIRM 29095C0437G MSL/NGVD		
9.	Elevation of the proposed development site:Dredging to take place down to 906MSL/NGVD		
10.	Elevation/floodproofing requirement: N/A MSL/NGVD		
11.	FIRM Panel 29095C04410	<u> </u>	
12.	Other Permits required? Corps of Engineer 404 Permit: Yes X No Provided		
	MO Dept. of Natural Resources: Yes X No Provided		
NO	TE: All provisions of City of Lee's Summit UDO Article 6, Division II, Floodplain Management Ordinance, shall be in c	omplianc	e.
AP	PLICATION APPROVAL/DENIAL		
Pla	ns and Specifications Approved X / Denied this 17th Day of April		_, 20_25
Sig	nature of Developer/Owner Authorizing Official		
	seph Snook, Adminstrator George M. Binger III, P.E., CFN	1 / Citv	Engineer
Prin	nt Name and Title Print Name and Title		Manager and the second
SU	APPROVED, THIS PERMIT REQUIRES A CONDITION THAT THE LOWEST FLOOR (INCLUDING BASEMENT FLO BSTATNTIALLY-IMPROVED RESIDENTIAL BUILDING WILL BE ELEVATED 2 FEET ABOVE THE BASE FOOPOSED DEVELOPMENT IS A NON-RESIDENTIAL BUILDING, PERMIT APPROVAL WILL REQUIRE A CONDITIC CLUDING BASEMENT) OF A NEW OR SUBSTANTIALLY IMPROVED NON-RESIDENTIAL BUILDING WILL BE ELION FEET ABOVE THE BASE FLOOD ELEVATION.	LOOD EL ON THAT	EVATION. IF THE THE LOWEST FLOOR

THIS APPLICATION IS USED WITH THE CONDITION THAT THE DEVELOPER/OWNER WILL PROVIDE CERTIFICATION BY A REGISTERED ENGINEER, ARCHITECT, OR LAND SURVEYOR OF THE "AS-BUILT" LOWEST FLOOR (INCLUDING BASEMENT) ELEVATION OF ANY NEW OR SUBSTANTIALLY-IMPROVED BUILDING COVERED BY THIS PERMIT APPLICATION.

LEGACY LAKE DREDGING PARKS AND RECREATION DEPARTMENT CITY OF LEE'S SUMMIT, MISSOURI **BID NO. XXX-XX**

SCHERER RD —COUNTY LINE RO

HALF SCALE UNLESS

SHEET INDEX

GENERAL

COVER SHEET

LEGENDS AND NOTES SOIL BORINGS

SOIL BORINGS

SITE PLANS

OVERVIEW AND KEY MAP

DREDGING PLAN SEDIMENT DISPOSAL

DREDGING HEAT MAP

SURFACE CROSS SECTIONS

DETAIL SHEETS

DETAILS **DETAILS**

UTILITY COMPANIES BEFORE EXCAVATING CALL: 1 (800) DIG-RITE

GAS SPIRE ENERGY

RICHI GARCIA (816) 507-0713

richi.garcia@spireenergy.com

ELECTRICITY EVERGY **RON DEJARNETTE** (816) 347-4316 1105 SE US HWY 40

BLUE SPRINGS, MO 64014 ron.dejarnette@evergy.com

(816) 275-2721 500 East 8th Street, Room 1152 Kansas City, MO 64106 CP0772@att.com

CRAIG PERKINS

WATER & WASTEWATER LEE'S SUMMIT WATER UTILITIES (816) 969-1940 1200 SE HAMBLEN RD.

STREETS & STORMWATER **PUBLIC WORKS OPERATIONS** DIVISION (816) 969-1870 1971 SE HAMBLEN RD.

LEE'S SUMMIT, MO 64082

LEE'S SUMMIT, MO 64081

SCHOOLS LS R-7 SCHOOL DISTRICT **TRANSPORTATION KEITH HENRY** (816) 986-2405

LS R-7 SCHOOL DISTRICT FIBER OPTICS **KINZIE WOODERSON** (816) 986-105

CABLE COMCAST JIM DUFF (816) 795-2257 3400 NW DUNCAN RD. **BLUE SPRINGS, MO 64015** james_duff@cable.comcast.com

GOOGLE FIBER ANDREA SAKLA (415) 736-9962 908 BROADWAY BLVD. KANSAS CITY, MO 64105 kc-google-uc@google.com

SPECTRUM (816) 508-7287 TROY PREWITT, STEVE BAXTER **8221 WEST 119TH STREET OVERLAND PARK, KS 66213** troy@cablem.com steve.baxter@twcable.com

VICINITY MAP



NOTE:
KNOWN UNDERGROUND UTILITIES IN THE VICINITY OF THE WORK ARE SHOWN ON THESE PLANS, ALTHOUGH OTHERS MAY EXIST. THE LOCATIONS SHOWN ARE BELIEVED TO BE REASONABLY CORRECT, BUT DO NOT PURPORT TO BE ABSOLUTELY SO. BEFORE STARTING WORK, THE CONTRACTOR SHALL GIVE NOTICE TO AND OBTAIN INFORMATION FROM EACH OWNER AND OPERATOR OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH THE MISSOURI UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION STATUTE (RSMO CHAPTER 319.015 - 319.050).



COUNTY, BID NO JACKSON

DRAWN BY:

CHECKED BY: 01/31/2025 PROJECT #: 10415715

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GENERAL NOTES:

- ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
- 2. CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE PROJECT AREA AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE ACTUAL JOB CONDITIONS PRIOR TO BIDDING AND THE START OF WORK. FAILURE TO VISIT THE PROJECT SITE SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK IN ACCORDANCE TO THE PLANS, SPECIFICATIONS, SPECIAL PROVISIONS AND CONTRACT.
- 3. CONTRACTOR SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THE PROJECT PLANS. SPECIFICATIONS AND ANY SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION ON THE PROJECT.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE
- 5. THE MEANS OF THE WORK AND SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- 7. WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
- 8. NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR **AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.**
- 9. DO NOT RESTRICT DRAINAGE CHANNELS. CONTRACTOR SHALL BE AWARE OF EXISTING DRAINAGE CONDITIONS AND FACILITIES AND SHALL ENSURE DRAINAGE IS MAINTAINED DURING AL PHASES OF CONSTRUCTION.
- 10. CONTRACTOR SHALL NOT BE ALLOWED TO WORK WEEKENDS OR HOLIDAYS WITHOUT REQUESTING PRIOR APPROVAL FROM THE OWNER THREE WORKING DAYS IN ADVANCE.
- 11. CONTRACTOR MUST MAINTAIN THRU TRAFFIC AT ALL TIMES. IF ONE LANE IS TEMPORARILY CLOSED, CONTRACTOR SHALL PROVIDE FLAGGERS AND SIGNAGE PER THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 12. ALL WORK SHALL BE WITHIN EXISTING CITY LEE'S SUMMIT PARKS AND RECREATION (LSPR) PROPERTY, UTILITY EASEMENTS OR TEMPORARY EASEMENTS.
- 13. ALL EXISTING UTILITIES INDICATED ON THE DRAWINGS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER; HOWEVER ALL UTILITIES ACTUALLY EXISTING MAY NOT BE SHOWN. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE EXACT LOCATION OF SAME SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE. CONTRACTOR SHALL HAVE EACH UTILITY MARKED BY
- 14. CONTRACTOR SHALL NOTIFY LEES SUMMIT WATER UTILITIES DEPARTMENT ANDLSPR OPERATIONS STAFF AT LEAST 48 HOURS IN ADVANCE OF ANY WORK INVOLVING CLOSING OR OPENING OF ANY WATER VALVES.
- 15. CONTRACTOR SHALL NOTIFY UTILITY OWNERS AT LEAST 48 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED ACROSS AND/OR ADJACENT TO UTILITIES.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING, AND IF DAMAGED, RESTORING EXISTING FACILITIES (CONCRETE, UTILITIES, FENCES, ETC.) TO PRE-CONSTRUCTION CONDITION OR EQUAL. NO PAYMENT WILL BE MADE FOR THIS RESTORATION UNLESS LISTED IN THE CONTRACT UNIT PRICES.
- 17. ALL DISTURBED AREAS, INCLUDING ACCESS AND HAUL ROADS, ARE TO BE REWORKED TO THEIR EXISTING CONDITIONS AND SEEDED.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING SURVEY MONUMENTS WHICH INCLUDE RIGHT OF WAY MARKERS AND PROPERTY PINS. THE CONTRACTOR WILL BE REQUIRED TO REESTABLISH SURVEY MONUMENTS WHICH ARE DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. MONUMENTS SHALL BE REESTABLISHED BY A MISSOURI LICENSED LAND SURVEYOR IN ACCORDANCE WITH MISSOURI STATE LAWS AT CONTRACTOR'S EXPENSE.
- 19. CONTRACTOR SHALL AVOID DAMAGING TREES DURING THE PROJECT. ANY WORK THAT MAY DAMAGE TREES WILL BE ADDRESSED ON A CASE BY CASE BASIS.

TURBIDITY NOTES:

- 1. EFFLUENT DISCHARGED FROM THE SEDIMENT CONTAINMENT BASIN SHALL BE NO GREATER THAN 25 NTU OVER THE AVERAGE LAKE TURBIDITY. CONTRACTOR SHALL ADJUST SEDIMENT CONTAINMENT BASIN OUTLET OR PROVIDE FLOATING TURBIDITY CURTAINS AS NECESSARY.
- 2. EFFLUENT TESTING SHALL BE DONE ON A DAILY BASIS AND LAKE TURBIDITY TESTED WEEKLY.
- 3. EFFLUENT TESTING SHALL OCCUR AT DISCHARGE PIPE LOCATION OR IMMEDIATELY OUTSIDE OF TURBIDITY CURTAIN. LAKE TURBIDITY TESTING SHALL BE WITHIN THE VICINITY OF THE LAKE SPILLWAY.

EROSION AND SEDIMENT CONTROL NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEPARTMENT OF NATURAL RESOURCES (DNR) NPDES PERMIT AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS AND REQUIRED CONTAINMENT STRUCTURES. THE CONTRACTOR SHALL IMPLEMENT, MAINTAIN, COMPLETE REQUIRED INSPECTIONS, AND UPDATE THE SWPPP AS REQUIRED TO MEET ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 2. CONTRACTORS SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPS) AS REQUIRED BY THIS PLAN AND SWPPP.
- 3. BMPS AND CONTROLS SHALL CONFIRM CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- 4. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTEND PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT. CLEARING SHALL NOT OCCUR OUTSIDE THE PROJECT LIMITS SHOWN ON THE CONSTRUCTION PLANS UNLESS APPROVED BY THE OWNER IN WRITING.
- 5. EROSION AND SEDIMENT CONTROL (ESC) SHALL BE THE CONTRACTOR'S RESPONSIBILITY INCLUDING MAINTAINING ESC SYSTEMS, REPLACING DAMAGED OR FAILED ESC DEVICES, AND INSPECTING THE SITE IN ORDER TO REPAIR THE ESC SYSTEM WITHIN 24 HOURS AFTER A1/2-INCH RAIN EVENT.
- 6. CONTRACTOR SHALL PROVIDE ADEQUATE ESC TO PREVENT SOIL AND/OR DEBRIS FORM ENTERING PAVEMENT, DITCHES, CREEKS, YARDS OR SURFACE WATERS. REPAIRER OR DREDGING OF SURFACE WATERS THAT RECEIVE STORM WATER RUNOFF FROM THE PROJECT SITES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. STAGING LOCATION FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER.
- 8. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 9. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- 10. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- 11. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 12. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SEEDED BY THE CONTRACTOR. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- 13. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 14. ON-SITE AND OFFSITE SOIL STOCKPILE AND BORROW ARES SHALL BE PROTECTED FROM **EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES.** STOCKPILE AND BORROW AREA LOCATION SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- 15. SLOPES SHALL BE LEFT IN ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURE (SILT FENCES, STRAW WATTLES, ETC.) TO PREVENT EROSION THROUGH THE DURATION OF THE PROJECT.
- 17. ALL CONSTRUCTION SHALL BE ESTABLISHED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF **GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION**
- 18. AN UPDATED COPY OF THE SWPPP SHALL BE KEPT ONSITE FOR THE DURATION OF THE
- 19. ALL SUBCONTRACTORS ENGAGED IN ACTIVITIES AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER MUST BE IDENTIFIED AND COMPLETE A CERTIFICATION STATEMENT PRIOR TO CONSTRUCTION.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING ALL AREAS DISTURBED BY BASIN CONSTRUCTION INCLUDING ACCESS ROUTES. STAGING AREAS. AND STOCKPILE AREAS.
- 21. THIS PLAN SHOWS THE LOCATION AND DETAILS OF BMPS TO BE INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT AND OTHER POLLUTANTS FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE NECESSARY BMPS DURING ALL PHASES OF CONSTRUCTION REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN. INCLUDING BMP ADDITIONS OR CHANGES APPROVED BY THE PROJECT MANAGER, AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING CONSTRUCTION TO CONTROL EROSION AND MINIMIZE THE DISCHARGE OF SEDIMENT AND OTHER POLLUTANTS FROM THE SITE.
- 22. SEDIMENT REMOVED FROM BMPS AND FACILITIES SHALL NOT BE PLACED ON STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE SWALES AND SHALL BE IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS OFF-SITE **BORROW AND FILL AREAS.**
- 23. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BMPS TO ELIMINATE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT DEPOSITION.
- 24. AFTER FINAL STABILIZATION HAS BEEN ACHIEVED WITH 70% PLANT DENSITY OVER 100% (WITH THE WATER QUALITY INSPECTORS APPROVAL) OF THE SITE OR OTHER PERMANENT MATERIALS PER CHAPTER 16, TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS SHALL BE STABILIZED IMMEDIATELY, THE CONTRACTOR OR THEIR REPRESENTATIVE MUST NOTIFY THE WATER QUALITY INSPECTOR TO SCHEDULE A MEETING AT THE SITE TO REVIEW FINAL STABILIZATION MEASURES AND REMOVAL OF THE SEDIMENT AND EROSION CONTROLS.

ABBREVIATIONS LEGEND **EXISTING PROPOSED** APPROXIMATELY **WATER VALVE** \bowtie AIR RELEASE VALVE **BUTTERFLY VALVE WATER METER** BENCHMARK SANITARY SEWER MANHOLE **BEGINNING OF LINE** DEPARTMENT POWER/TRAFFIC SIGNAL POLE **DUCTILE IRON** FIRE HYDRANT \odot **DIAMETER** TREE/LARGE BRUSH DO NOT DISTURB **EAST** STORM INLET/JUNCTION BOX **EACH GAS METER** □ GM **EASEMEN ELEC ELECTRIC** MAIL BOX **ELEVATION POWER POLE** Ø PP **EOL END OF LINE POWER ANCHOR ENGR ENGINEER** O PA **ESC EROSION AND SEDIMENT CONTROL** SIDEWALK FO FIBER OPTIC **UNDERGROUND UTILITY MARKER** O UGM **GATE VALVE** HIGH DENSITY POLYETHYLENE ——— OHP —— OVERHEAD ELECTRIC HORIZONTAL LANE UNDERGROUND ELECTRIC **LINEAR FOOT** SANITARY SEWER _____ SAN ____ **LUMP SUM** MISSOURI DEPT. OF TRANSPORTATION WATER LINE **MECHANICAL JOINT** STORM SEWER ____ STM ___ NORTH UNDERGROUND GAS LINE **NOT TO SCALE POLYETHYLENE** UNDERGROUND TELEPHONE POLYVINYL CHLORIDE —— FO —— FO — UNDERGROUND FIBER OPTIC **POWER & CABLE POLE POWER & TELEPHONE POLE** UNDERGROUND CABLE TV — UGTV PTC POWER, TELEPHONE, & CABLE POLE SECTION LINE **PROJ PROJECT** RIGHT-OF-WAY LINE **RESTRAINED JOINT** ____ RW ____ RW ____ RJ **RIGHT OF WAY** _____ P/L _____ P/L ____ LOT LINE SOUTH PERMANENT EASEMENT LINE

______ TCF _____

TEMPORARY EASEMENT LINE

SILT FENCE

SANITARY SEWER

STORM SEWER

SQUARE YARD

TRASH ENCLOSURE

UTILITY EASEMENT

SOUTHWEST

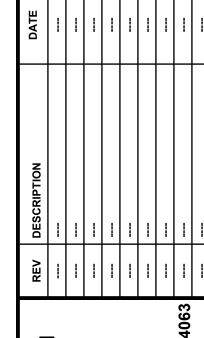
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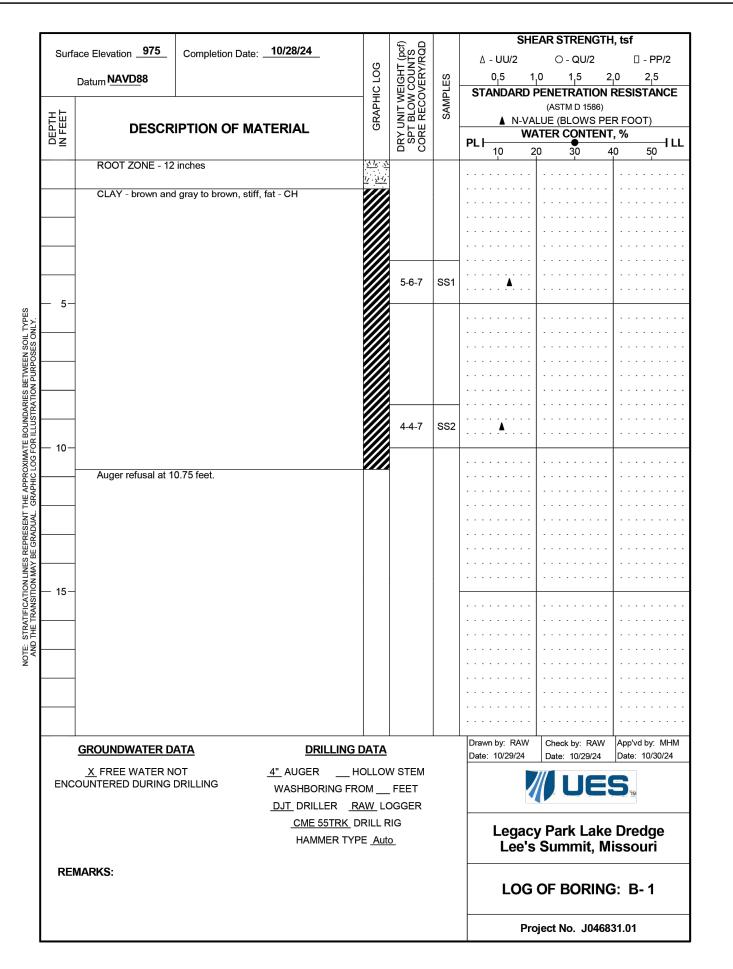
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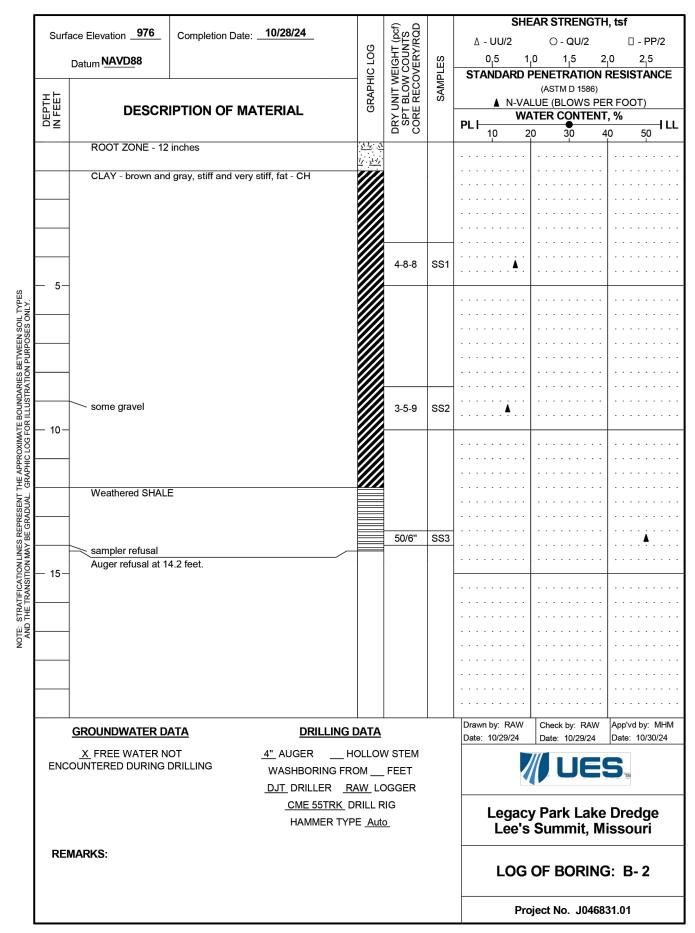
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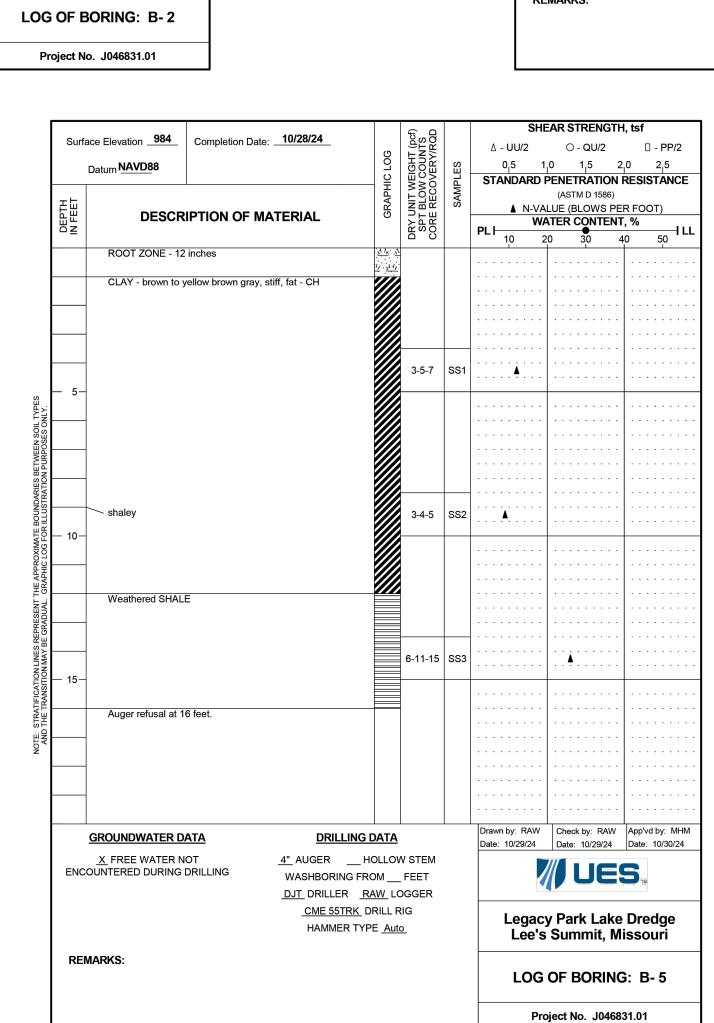
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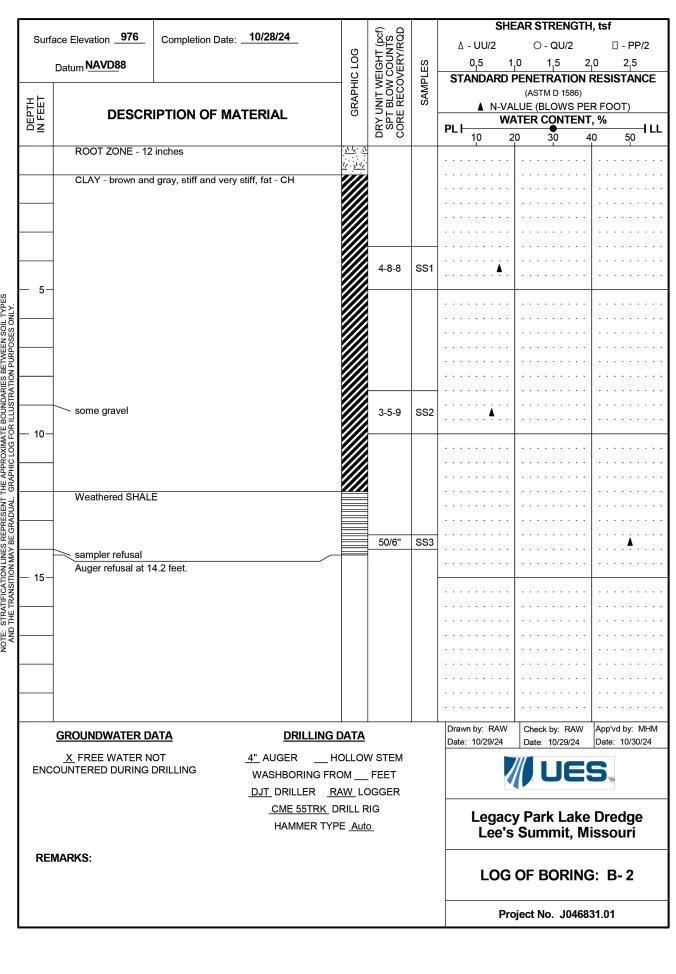
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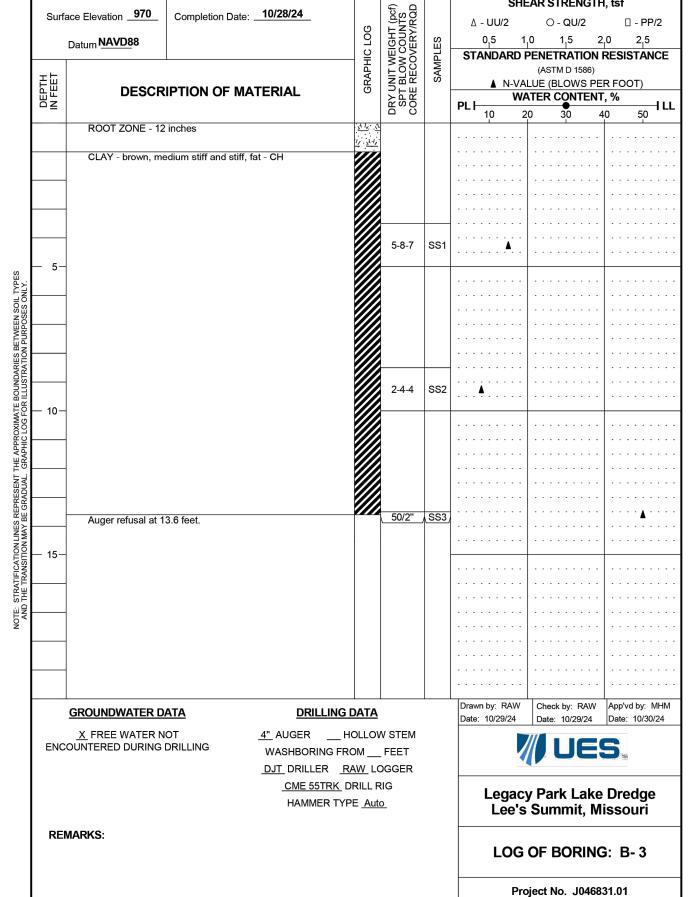
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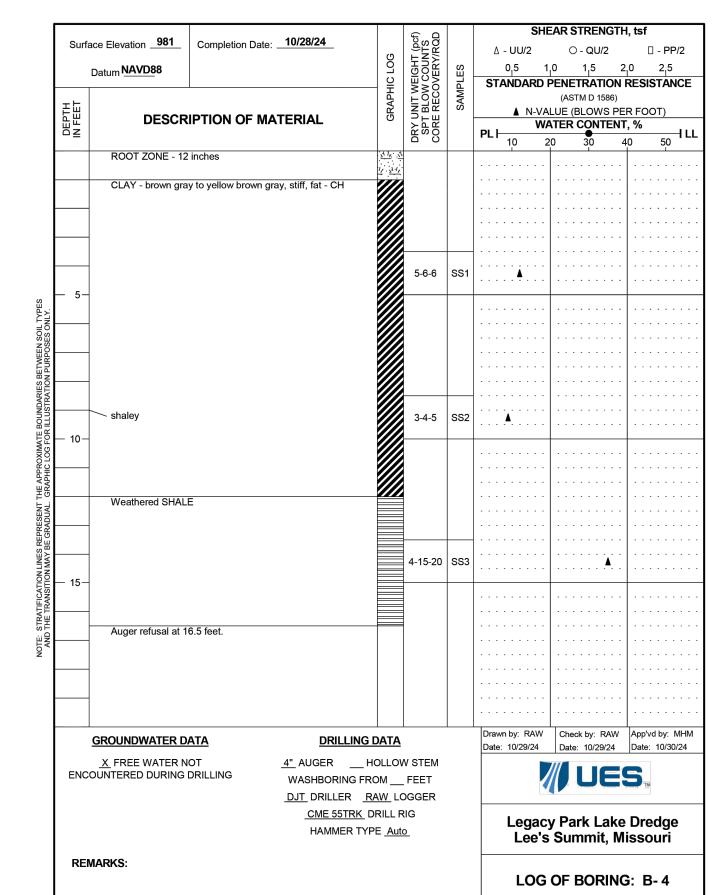




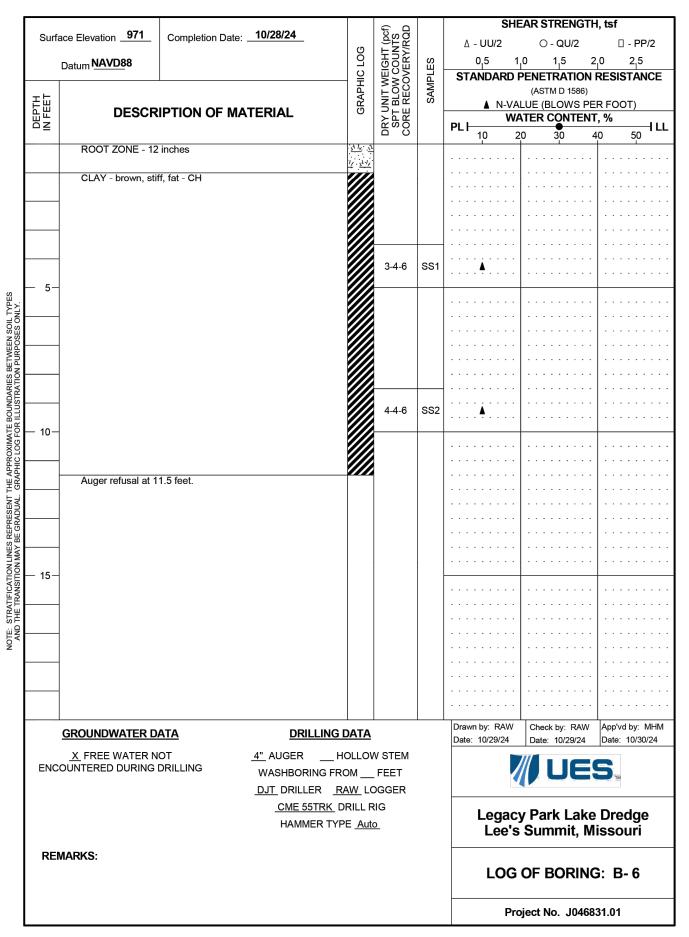
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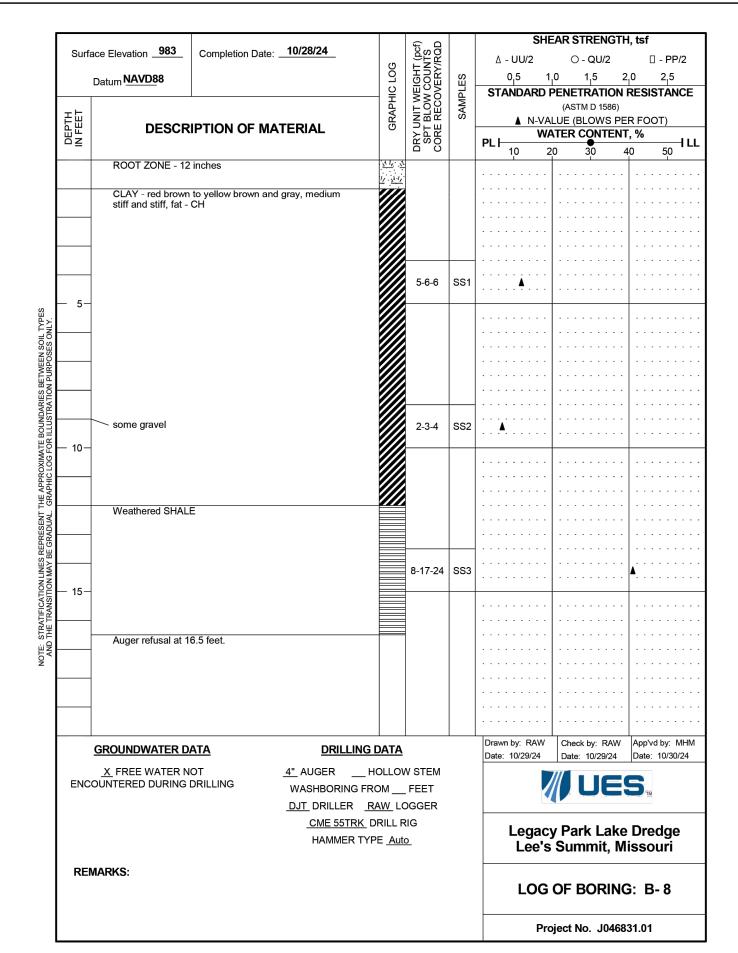
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	Elevation 973 Completion Da	ite: 10/28/24	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES	SHEAR STRENGTH, tsf △ - UU/2				
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		<u>CME 55TRK</u> DRIL HAMMER TYPE <u>A</u>	Legacy Park Lake Dredge Lee's Summit, Missouri						
REMAR	RKS:				LOG	OF BORING	G: B-10		

LOG OF BORING: B-	. 6					R	REMARKS:				
Project No. J046831.01											
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지호 ROOT ZONE - 12	inches		<u>17. [x1 12]</u>	SO		PL 10	20 30	40 50 LL			
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		CME 55TRK HAMMER T				Lega Lee	Legacy Park Lake Dredge Lee's Summit, Missouri				
							LOG OF BORING: B-9				
REMARKS:						LO	G OF BORIN	G: B-9			





LEGACY LAKE DREDGING
PROJECT NAME #2 - BID NO #?????
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SOIL BORINGS

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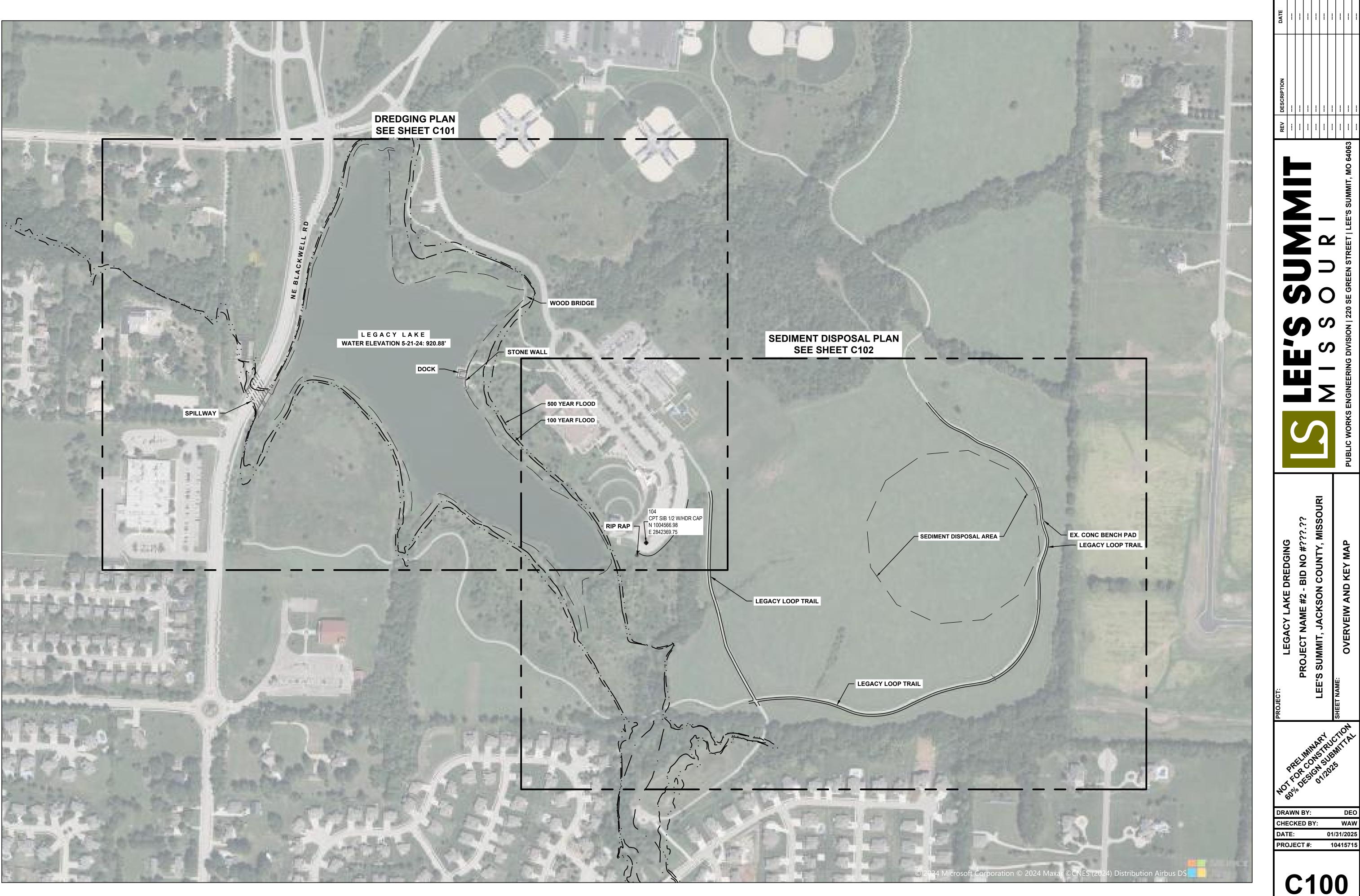
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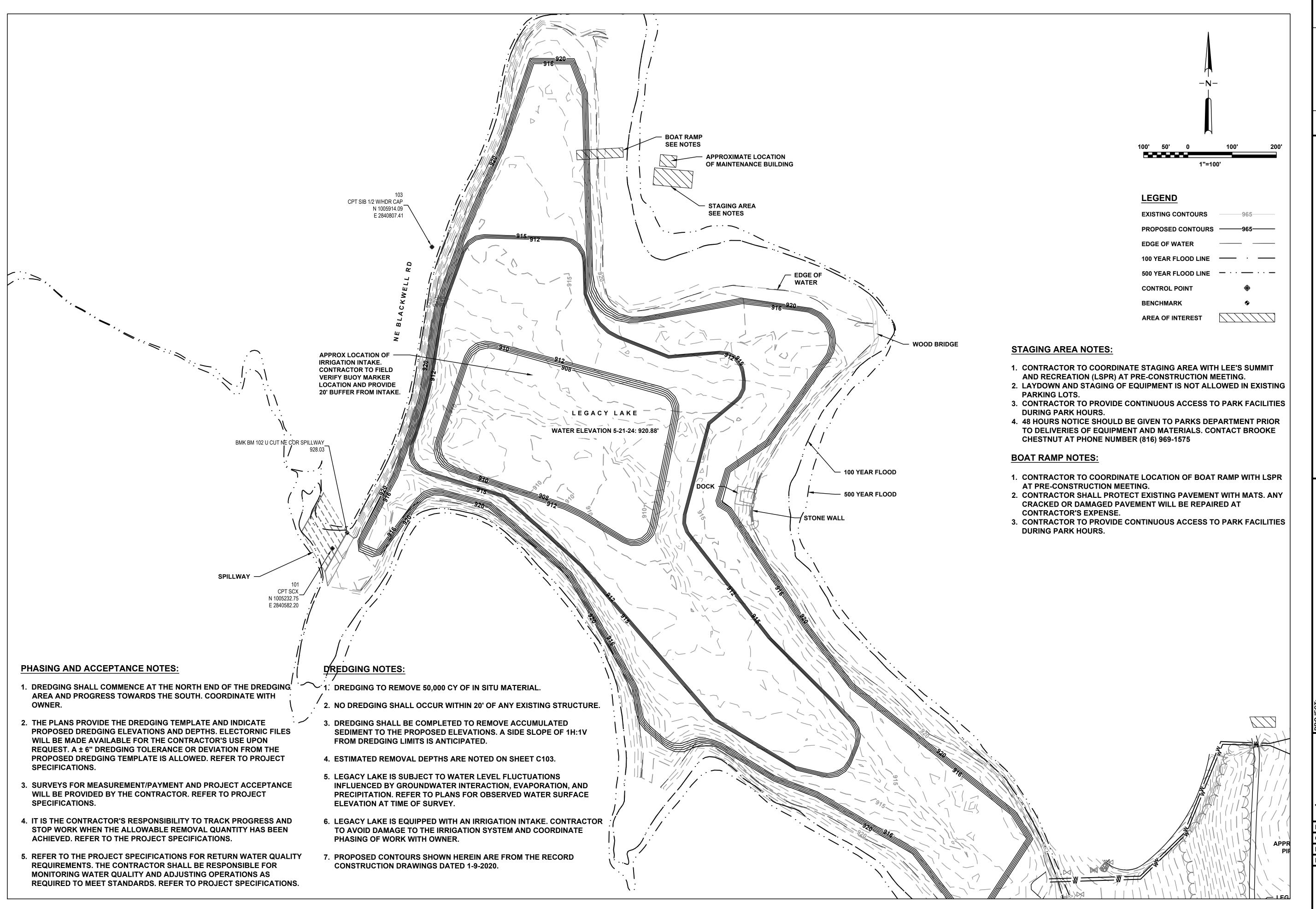
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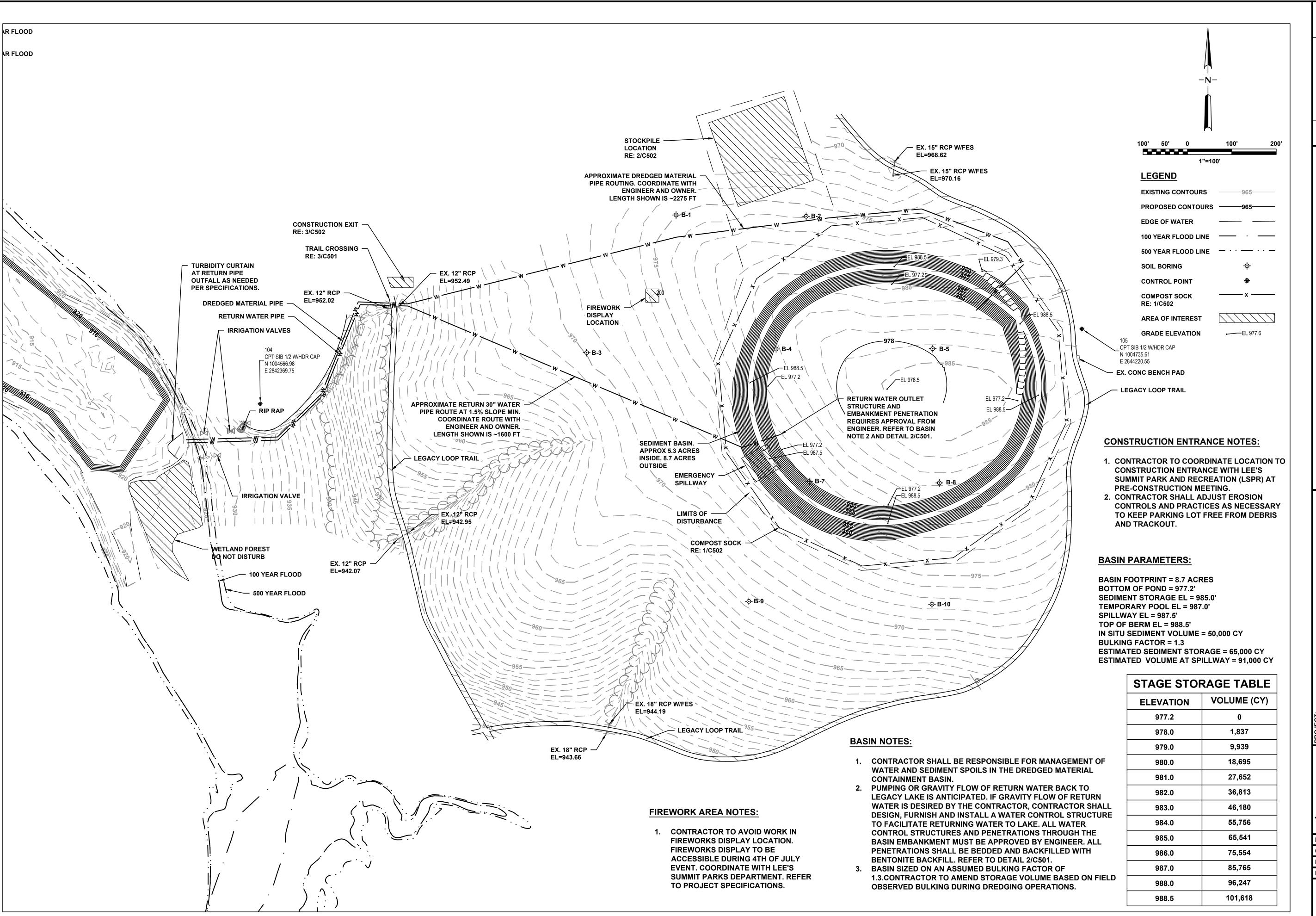
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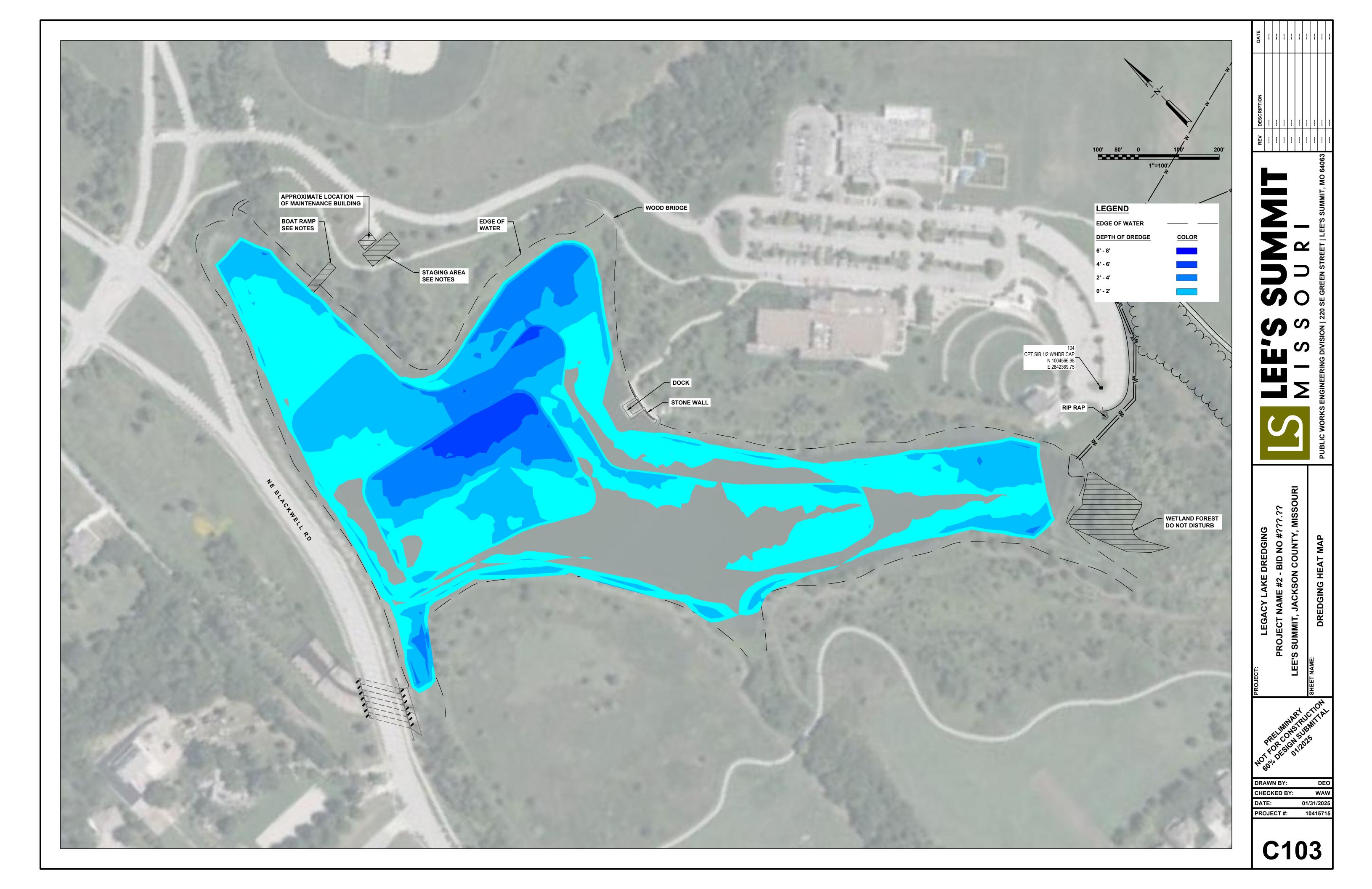
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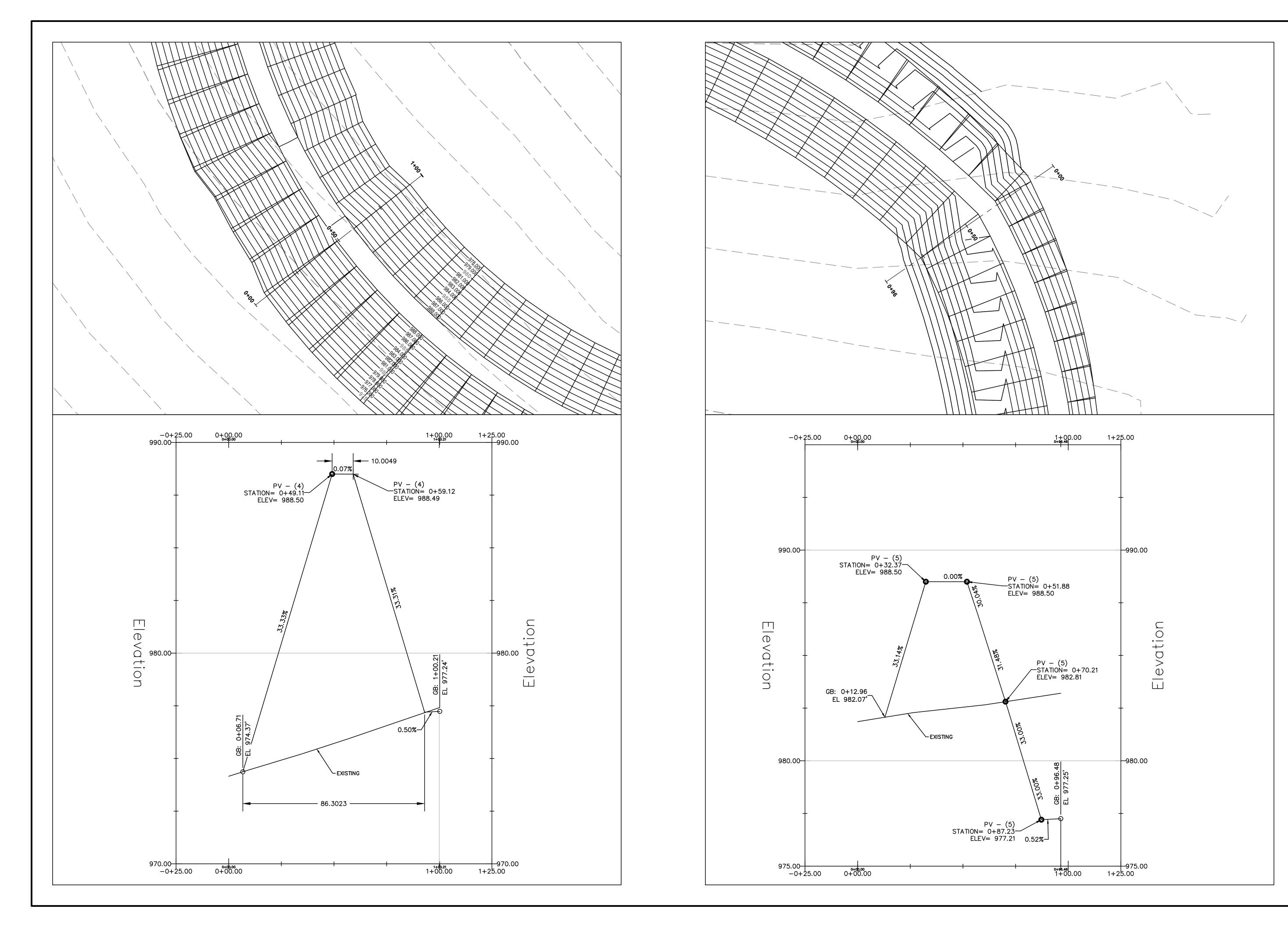
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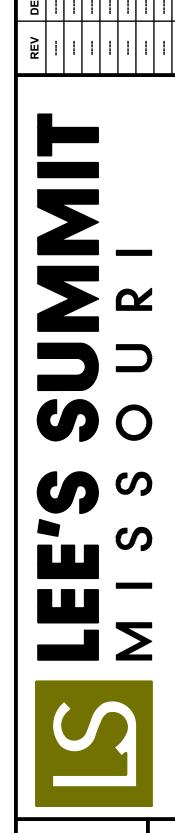
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CHECKED BY: WAW
DATE: 01/31/2025
PROJECT #: 10415715

C102







PROJECT:

LEGACY LAKE DREDGING

PROJECT NAME #2 - BID NO #?????

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME:

SURFACE CROSS SECTIONS

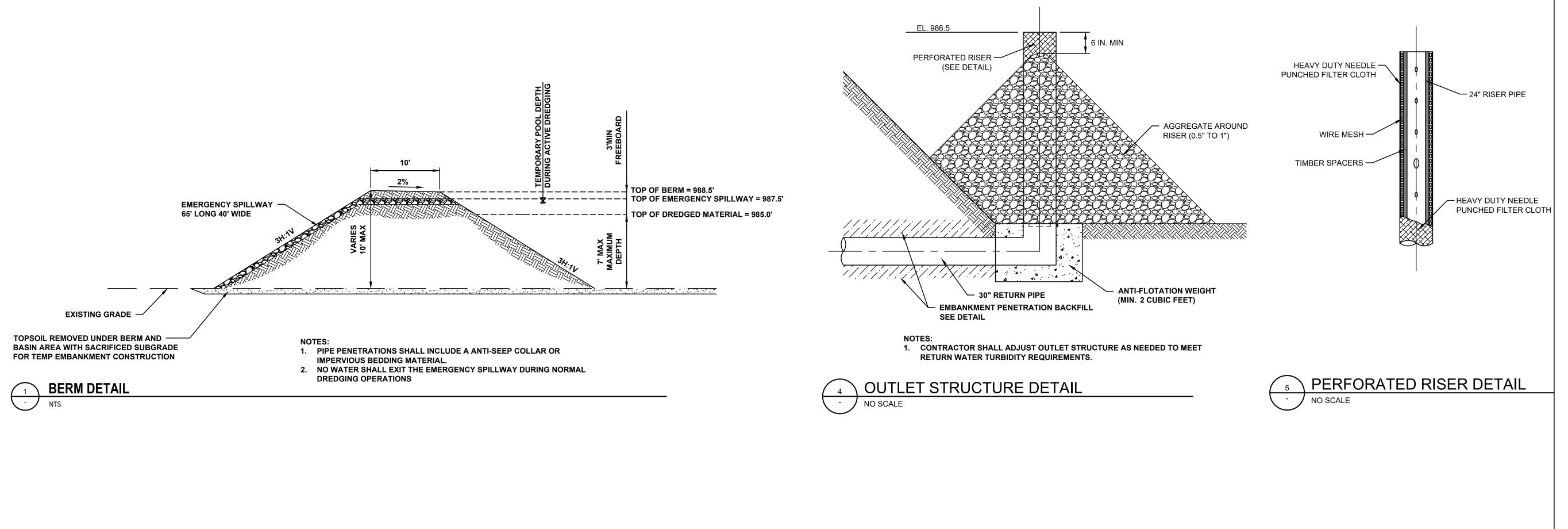
PRELIMINAR TRUCTION

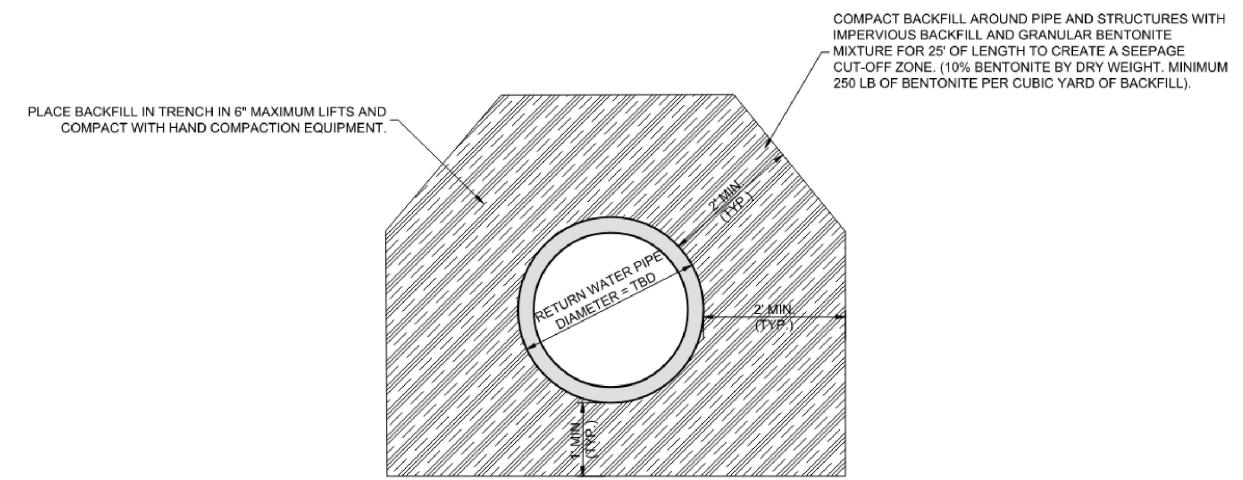
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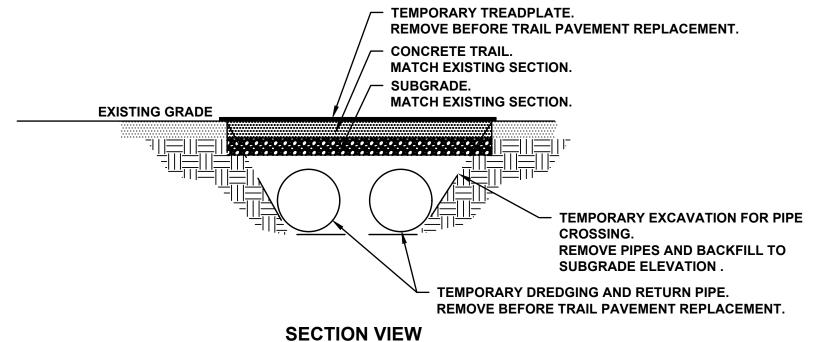
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DATE: 01/31/2025
PROJECT #: 10415715

C104



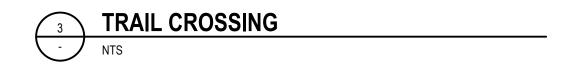


EMBANKMENT PENETRATION PIPE BEDDING & BACKFILL (SEEPAGE CUT-OFF ZONE)



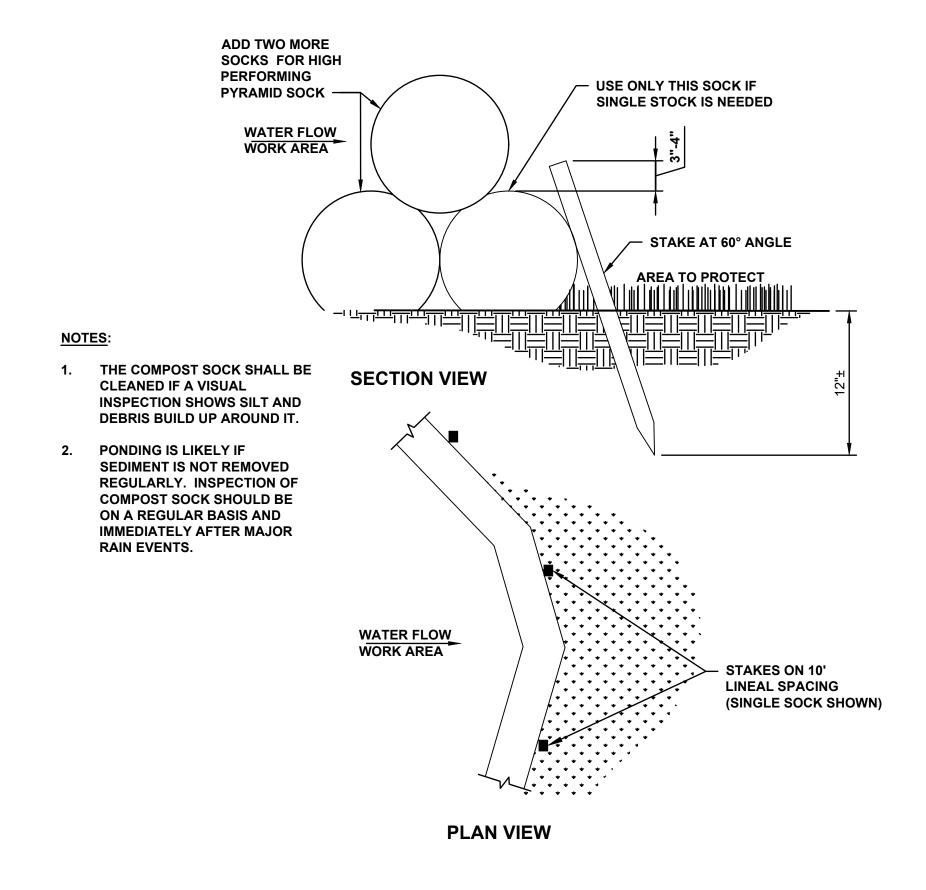
1. CONTRACTOR TO PROVIDE TEMPORARY TREAD PLATE OVER TEMPORARY PIPING. UPON COMPLETION OF DREDGING OPERATIONS CONTRACTOR TO REPAIR TRAIL TO MATCH EXISTING.

- 2. CONTRACTOR TO SAWCUT TRAIL AND PROVIDE CLEAN VERTICAL JOINT.
- 3. TRAIL TO MATCH EXISTING SECTION.
- 4. TEMPORARY TREAD PLATE SHALL BE INSTALLED. CONTRACTOR TO PROVIDE CONTINUOUS ADA ACCESS THROUGH THE PARK. COORDINATE TRAIL CLOSURE FOR PIPE INSTALLATION WITH OWNER.

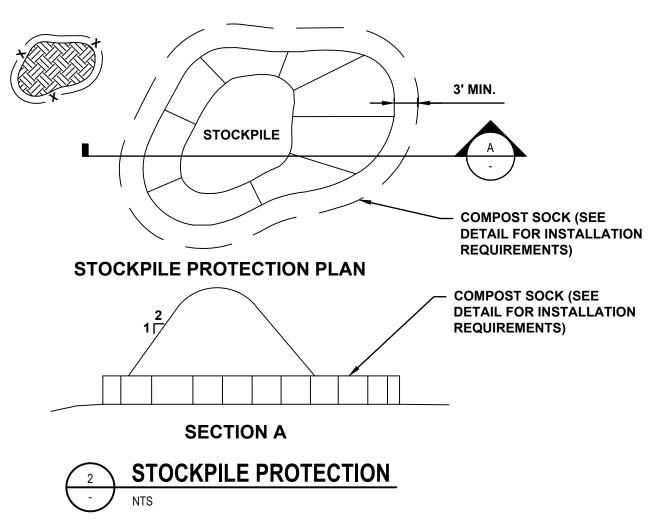


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DRAWN BY: CHECKED BY: 01/31/2025 PROJECT #: 10415715





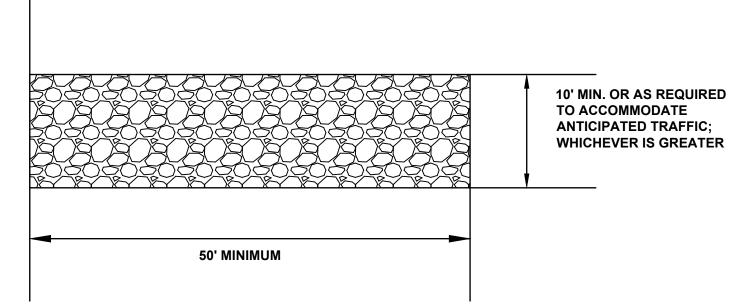


- STOCKPILE PROTECTION INSTALLATION NOTES: 1. CONTRACTOR TO FIELD VERIFY LOCATION OF STOCKPILE AND COORDINATE WITH OWNER.
- 2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. CONTRACTOR SHALL
- ADJUST EROSION CONTROLS AS NECESSARY TO CONTAIN THE STOCKPILE.
- 3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
- 4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

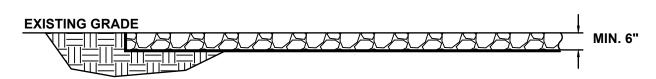
STOCKPILE PROTECTION MAINTENANCE NOTES:

- 1. INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS)
- FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPS HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
- 5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

- 1. RUMBLE STRIPS ARE RECOMMENDED FOR LARGER SITES.
- 2. AVOID PLACING EXITS IN AN OUTFALL AREA OR OTHER LOW AREAS
- WHERE WATER PONDS OR FLOWS. 3. A CULVERT SHALL BE INSTALLED IF EXIT CROSSES A DITCH.
- 4. ROCK APRON INSTALLATION SHALL BE WIDE ENOUGH TO ACCOMODATE
- TURNING VEHICLES. 5. ADD NEW ROCK OR RAKE EXISTING ROCK WHEN VOIDS FILL WITH
- SEDIMENT.
- 6. ANY MUD, ROCK OR DEBRIS TRACKED ONTO PAVED SURFACES AND ACCUMULATED IN CURBS SHALL BE REMOVED USING A SWEEPER, SHOVEL, ETC.
- 7. REMOVE EXIT WHEN VEHICLES AND EQUIPMENT WILL NO LONGER
- ACCESS UNPAVED AREAS.
- 8. TRACK OUT MUST BE REMOVED WITHIN THE SAME BUSINESS DAY.

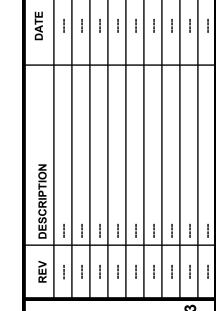


PLAN VIEW



SECTION VIEW







COUNT BID NO

DRAWN BY: WAW CHECKED BY: 01/31/2025 PROJECT #: 10415715



DEPARTMENT OF THE ARMY

U.S. ARMY CORPS OF ENGINEERS, KANSAS CITY DISTRICT 601 E. 12TH STREET, 635 FEDERAL BUILDING KANSAS CITY, MO 64106-2824

March 13, 2025

Regulatory Branch NWK-2024-00889 Jackson, Missouri, GP 45

Ian Waters HDR Engineering, Inc. 10450 Holmes Rd. Kansas City, MO 64131

Dear Mr. Waters:

This letter pertains to an application submitted on behalf of the City of Lee's Summit, Parks Department for a Department of the Army permit. It was received on January 22, 2025. The proposed work concerns maintenance dredging of Legacy Lake. The project is located in Section 35, Township 48 North, Range 31 West, Jackson County, Missouri.

The Corps of Engineers has jurisdiction over all waters of the United States. Discharges of dredged or fill material in waters of the United States, including wetlands, require prior authorization from the Corps under Section 404 of the Clean Water Act (33 USC 1344). The implementing regulation for this Act is found at 33 CFR 320-332.

Based on our review of all available information, we have determined that the proposed project is authorized by general permit GP-45 Maintenance of Man-Made Lakes and Ponds-Missouri, subject to the following conditions: The work must conform to Appendix I and to the general and special conditions in the enclosed copy of the general permit.

The Corps' decision to verify this project is based on the provided plans and project description submitted in the application. Deviations to project designs should be coordinated with this office to ensure compliance with terms and conditions of this permit verification.

The Missouri Department of Natural Resources has certified that this general permit will not violate existing state water quality standards provided you comply with the conditions included in their attached certification document. All conditions included in the water quality certification become conditions of the general permit authorization. Please review all conditions associated with this general permit. If you have any questions concerning state water quality standards or compliance issues with the associated certification conditions, please contact the Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, Missouri 65102-0176. You may also contact the office at 573-526-3589 or by email at wpsc401cert@dnr.mo.gov.

Included with this letter is a "Compliance Certification" that must be submitted to this office upon completion of the authorized work and any required mitigation. Other Federal, state, and/or local permits may be required, and you should verify this yourself.

We are interested in your thoughts and opinions concerning your experience with the Kansas City District, Corps of Engineers Regulatory Program. Please feel free to complete our Customer Service Survey form on our website at: https://regulatory.ops.usace.army.mil/customer-service-survey/. You may also call and request a paper copy of the survey which you may complete and return to us by mail.

Mr. Jesse Cochran, Project Manager, reviewed the information furnished and made this determination. If you have any questions concerning this matter, please feel free to contact Mr. Cochran at 816-389-3739 or by email at jesse.s.cochran@usace.army.mil. Please reference Permit No. NWK-2024-00889 in all comments and/or inquiries relating to this project. This letter is only being provided to you electronically at: ian.waters@hdrinc.com.

Enclosures

cc (electronically w/o enclosures):

Environmental Protection Agency,
Watershed and Grants Branch
U.S. Fish and Wildlife Service, Columbia, Missouri
Missouri Department of Natural Resources,
Water Protection Program
State Historic Preservation Office
Missouri Department of Conservation



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Missouri Ecological Services Field Office 101 Park Deville Drive Suite A Columbia, MO 65203-0057

Columbia, MO 65203-0057 Phone: (573) 234-2132 Fax: (573) 234-2181

In Reply Refer To: 04/09/2025 17:27:03 UTC

Project Code: 2025-0037219

Project Name: Legacy Lake Dredge

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Threatened and Endangered Species

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. **Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days.** The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

Consultation Technical Assistance

Refer to the Midwest Region <u>S7 Technical Assistance</u> website for step-by-step instructions for making species determinations and for specific guidance on the following types of projects:

projects in developed areas, HUD, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

Federally Listed Bat Species

Indiana bats, gray bats, and northern long-eared bats occur throughout Missouri and the information below may help in determining if your project may affect these species.

Gray bats - Gray bats roost in caves or mines year-round and use water features and forested riparian corridors for foraging and travel. If your project will impact caves, mines, associated riparian areas, or will involve tree removal around these features – particularly within stream corridors, riparian areas, or associated upland woodlots –gray bats could be affected. *Indiana and northern long-eared bats* - These species hibernate in caves or mines only during the winter. In Missouri the hibernation season is considered to be November 1 to March 31. During the active season in Missouri (April 1 to October 31) they roost in forest and woodland habitats. Suitable summer habitat for Indiana bats and northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags ≥5 inches diameter at breast height (dbh) for Indiana bat, and ≥ 3 inches dbh for northern long-eared bat, that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Tree species often include, but are not limited to, shellbark or shagbark hickory, white oak, cottonwood, and maple. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of other forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, Indiana bats or northern long-eared bats could be affected.

Examples of <u>unsuitable</u> habitat include:

Project code: 2025-0037219

- Individual trees that are greater than 1,000 feet from forested or wooded areas;
- Trees found in highly-developed urban areas (e.g., street trees, downtown areas);
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees; and
- A stand of eastern red cedar shrubby vegetation with no potential roost trees.

Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species

1. If IPaC returns a result of "There are no listed species found within the vicinity of the project," then project proponents can conclude the proposed activities will have **no effect** on any federally listed species under Service jurisdiction. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records. An example "No Effect" document also can be found on the S7 Technical Assistance website.

2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project – other than bats (see #3 below) – then project proponents can conclude the proposed activities **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain <u>Life History Information for Listed and Candidate Species</u> through the Species website.

- 3. If IPac returns a result that one or more federally listed bat species (Indiana bat, northern long-eared bat, or gray bat) are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** these bat species **IF** one or more of the following activities are proposed:
 - Clearing or disturbing suitable roosting habitat, as defined above, at any time of year;
 - b. Any activity in or near the entrance to a cave or mine;
 - c. Mining, deep excavation, or underground work within 0.25 miles of a cave or mine;
 - d. Construction of one or more wind turbines; or

Project code: 2025-0037219

e. Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

If none of the above activities are proposed, project proponents can conclude the proposed activities will have **no effect** on listed bat species. Concurrence from the Service is not required for **No Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records. An example "No Effect" document also can be found on the S7 Technical Assistance website.

If any of the above activities are proposed in areas where one or more bat species may be present, project proponents can conclude the proposed activities **may affect** one or more bat species. We recommend coordinating with the Service as early as possible during project planning. If your project will involve removal of over 5 acres of <u>suitable</u> forest or woodland habitat, we recommend you complete a Summer Habitat Assessment prior to contacting our office to expedite the consultation process. The Summer Habitat Assessment Form is available in Appendix A of the most recent version of the <u>Range-wide Indiana Bat Summer Survey</u> Guidelines.

Other Trust Resources and Activities

Bald and Golden Eagles - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. Should bald or golden eagles occur within or near the project area please contact our office for further coordination. For communication and wind energy projects, please refer to additional guidelines below.

Migratory Birds - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA

to proactively prevent the mortality of migratory birds whenever possible and we encourage implementation of recommendations that minimize potential impacts to migratory birds. Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

Communication Towers - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed voluntary guidelines for minimizing impacts.

Transmission Lines - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to guidelines developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

Wind Energy - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's <u>Wind Energy Guidelines</u>. In addition, please refer to the Service's <u>Eagle Conservation Plan Guidance</u>, which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

Next Steps

Should you determine that project activities **may affect** any federally listed species or trust resources described herein, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

If you have not already done so, please contact the Missouri Department of Conservation (Policy Coordination, P. O. Box 180, Jefferson City, MO 65102) for information concerning Missouri Natural Communities and Species of Conservation Concern.

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

John Weber

Attachment(s):

Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Missouri Ecological Services Field Office 101 Park Deville Drive Suite A Columbia, MO 65203-0057 (573) 234-2132

PROJECT SUMMARY

Project code: 2025-0037219

Project Code: 2025-0037219
Project Name: Legacy Lake Dredge
Project Type: Disposal Dredge Material

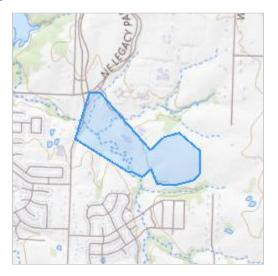
Project Description: City of Lee's Summit is proposing to dredge approximately 50,000 cubic

yards of silt from Legacy Lake to restore the Lake to preexisting

conditions.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.927040149999996,-94.31459080212588,14z



Counties: Jackson County, Missouri

ENDANGERED SPECIES ACT SPECIES

Project code: 2025-0037219

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME STATUS

Gray Bat *Myotis grisescens*

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329

Indiana Bat *Myotis sodalis*

Endangered

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/CGFBEC63BNBNPEZOFZTMTMQLWA/

documents/generated/7280.pdf

Northern Long-eared Bat *Myotis septentrionalis*

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/CGFBEC63BNBNPEZOFZTMTMQLWA/

documents/generated/7280.pdf

Tricolored Bat Perimyotis subflavus

Proposed

No critical habitat has been designated for this species.

Endangered

Species profile: https://ecos.fws.gov/ecp/species/10515

INSECTS

STATUS NAME

Monarch Butterfly *Danaus plexippus*

Proposed

There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat.

Threatened

Species profile: https://ecos.fws.gov/ecp/species/9743

Western Regal Fritillary Argynnis idalia occidentalis

Proposed

No critical habitat has been designated for this species.

Threatened

Species profile: https://ecos.fws.gov/ecp/species/12017

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: HDR, inc. Name: Ian Waters

Address: 10450 Holmes Road

Address Line 2: Suite 600 City: Kansas City

State: MO Zip: 64131

Email ian.waters@hdrinc.com

Phone: 8163471346

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Army Corps of Engineers