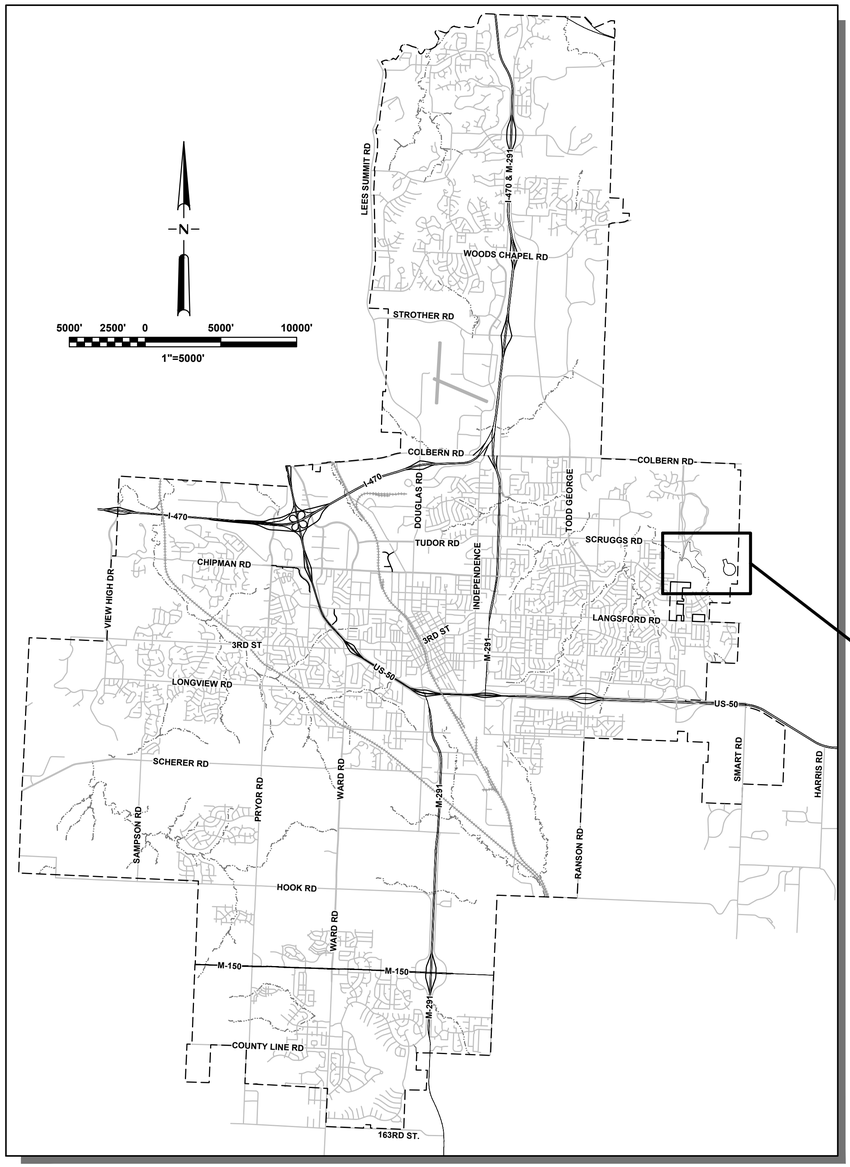
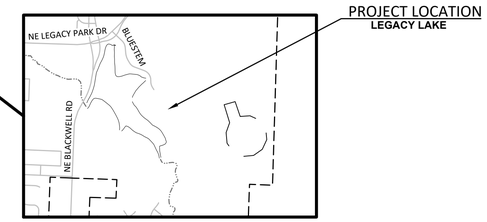
LEGACY LAKE DREDGING

PARKS AND RECREATION DEPARTMENT
CITY OF LEE'S SUMMIT, MISSOURI
PROJECT NO. 2025-PR-006



VICINITY MAP



11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

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DETAIL SHEETS

C501	DETAILS
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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

TELEPHONE
AT&T
CRAIG PERKINS
(816) 275-2721 500
East 8th Street, Room 1152
Kansas City, MO 64106
CP0772@att.com

WATER & WASTEWATER
LEE'S SUMMIT WATER UTILITIES
(816) 969-1940
1200 SE HAMBLEN RD.
LEE'S SUMMIT, MO 64081

STREETS & STORMWATER
PUBLIC WORKS OPERATIONS DIVISION
(816) 969-1870
1971 SE HAMBLEN RD.
LEE'S SUMMIT, MO 64082

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

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).

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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

PROJECT: LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME: COVER SHEET

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER PE-2019017908
PROFESSIONAL ENGINEER
5/12/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

G001

GENERAL NOTES:

1. 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 WORK.
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 ALL 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 MISSOURI-ONE-CALL.
14. CONTRACTOR SHALL NOTIFY LEES SUMMIT WATER UTILITIES DEPARTMENT AND LSPR 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. REFER TO SPECIFICATIONS FOR SEEDING REQUIREMENTS.
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 ABOVE 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 BE TAKEN FROM DISCHARGE PIPE. 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 EXTENT 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 A 1/2-INCH RAIN EVENT.
6. CONTRACTOR SHALL PROVIDE ADEQUATE ESC TO PREVENT SOIL AND/OR DEBRIS FORM ENTERING PAVEMENT, DITCHES, CREEKS, YARDS OR SURFACE WATERS. REPAIR OR DREDGE 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 PROJECT.
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, 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

APPROX	APPROXIMATELY
ARV	AIR RELEASE VALVE
BFV	BUTTERFLY VALVE
BM	BENCHMARK
BOL	BEGINNING OF LINE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA	DIAMETER
DND	DO NOT DISTURB
E	EAST
EA	EACH
ESMT	EASEMENT
ELEC	ELECTRIC
EL	ELEVATION
EOL	END OF LINE
ENGR	ENGINEER
ESC	EROSION AND SEDIMENT CONTROL
FO	FIBER OPTIC
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HOR	HORIZONTAL
LN	LANE
LF	LINEAR FOOT
LS	LUMP SUM
MODOT	MISSOURI DEPT. OF TRANSPORTATION
MJ	MECHANICAL JOINT
N	NORTH
NTS	NOT TO SCALE
PE	POLYETHYLENE
PVC	POLYVINYL CHLORIDE
PC	POWER & CABLE POLE
PT	POWER & TELEPHONE POLE
PTC	POWER, TELEPHONE, & CABLE POLE
PROJ	PROJECT
RJ	RESTRAINED JOINT
R/W	RIGHT OF WAY
S	SOUTH
SF	SILT FENCE
SS	SANITARY SEWER
SSC	SOLID SLEEVE COUPLING
ST	STORM SEWER
SW	SOUTHWEST
SY	SQUARE YARD
STA	STATION
T/E	TRASH ENCLOSURE
U.E.	UTILITY EASEMENT
UTIL	UTILITY
W	WEST

LEGEND

EXISTING		PROPOSED
	WATER VALVE	
M	WATER METER	M
	SANITARY SEWER MANHOLE	
	POWER/TRAFFIC SIGNAL POLE	
	FIRE HYDRANT	
	TREE/LARGE BRUSH	
	STORM INLET/JUNCTION BOX	
GM	GAS METER	
MB	MAIL BOX	
PP	POWER POLE	
PA	POWER ANCHOR	
	SIDEWALK	
UGM	UNDERGROUND UTILITY MARKER	
OHP	OVERHEAD ELECTRIC	
UGE	UNDERGROUND ELECTRIC	
SAN	SANITARY SEWER	
W W	WATER LINE	W W
STM	STORM SEWER	
G G	UNDERGROUND GAS LINE	
UGT	UNDERGROUND TELEPHONE	
FO FO	UNDERGROUND FIBER OPTIC	
UGTV	UNDERGROUND CABLE TV	
	SECTION LINE	
RW RW	RIGHT-OF-WAY LINE	
P/L P/L	LOT LINE	
PE PE	PERMANENT EASEMENT LINE	
TCE	TEMPORARY EASEMENT LINE	
	SECTION VIEW	X / XXX

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LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

PROJECT: LEGACY LAKE DREDGING PROJECT NO. 2025-PR-006 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME: LEGENDS AND NOTES

WESLEY A. WEIMER NUMBER PE-2019017908

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

G002

Surface Elevation 975 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) / SPT BLOW COUNTS / CORE RECOVERY/RQD	SAMPLES
	ROOT ZONE - 12 inches		
	CLAY - brown and gray to brown, stiff, fat - CH		
		5-6-7	SS1
		4-4-7	SS2
	Auger refusal at 10.75 feet.		

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - PP/2 (0.5, 1.0, 1.5, 2.0, 2.5)
STANDARD PENETRATION RESISTANCE (ASTM D 1586) ▲ N-VALUE (BLOWS PER FOOT)
WATER CONTENT, % PL ⊢ 10 20 30 40 50 ⊣ LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 1

Project No. J046831.01

Surface Elevation 976 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) / SPT BLOW COUNTS / CORE RECOVERY/RQD	SAMPLES
	ROOT ZONE - 12 inches		
	CLAY - brown and gray, stiff and very stiff, fat - CH		
		4-8-8	SS1
	some gravel	3-5-9	SS2
	Weathered SHALE		
	sampler refusal	50/6"	SS3
	Auger refusal at 14.2 feet.		

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - PP/2 (0.5, 1.0, 1.5, 2.0, 2.5)
STANDARD PENETRATION RESISTANCE (ASTM D 1586) ▲ N-VALUE (BLOWS PER FOOT)
WATER CONTENT, % PL ⊢ 10 20 30 40 50 ⊣ LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 2

Project No. J046831.01

Surface Elevation 970 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) / SPT BLOW COUNTS / CORE RECOVERY/RQD	SAMPLES
	ROOT ZONE - 12 inches		
	CLAY - brown, medium stiff and stiff, fat - CH		
		5-8-7	SS1
		2-4-4	SS2
	Auger refusal at 13.6 feet.	50/2"	SS3

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - PP/2 (0.5, 1.0, 1.5, 2.0, 2.5)
STANDARD PENETRATION RESISTANCE (ASTM D 1586) ▲ N-VALUE (BLOWS PER FOOT)
WATER CONTENT, % PL ⊢ 10 20 30 40 50 ⊣ LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 3

Project No. J046831.01

Surface Elevation 981 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) / SPT BLOW COUNTS / CORE RECOVERY/RQD	SAMPLES
	ROOT ZONE - 12 inches		
	CLAY - brown gray to yellow brown gray, stiff, fat - CH		
		5-6-6	SS1
	shaley	3-4-5	SS2
	Weathered SHALE	4-15-20	SS3
	Auger refusal at 16.5 feet.		

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - PP/2 (0.5, 1.0, 1.5, 2.0, 2.5)
STANDARD PENETRATION RESISTANCE (ASTM D 1586) ▲ N-VALUE (BLOWS PER FOOT)
WATER CONTENT, % PL ⊢ 10 20 30 40 50 ⊣ LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 4

Project No. J046831.01

Surface Elevation 984 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) / SPT BLOW COUNTS / CORE RECOVERY/RQD	SAMPLES
	ROOT ZONE - 12 inches		
	CLAY - brown to yellow brown gray, stiff, fat - CH		
		3-5-7	SS1
	shaley	3-4-5	SS2
	Weathered SHALE	6-11-15	SS3
	Auger refusal at 16 feet.		

SHEAR STRENGTH, tsf: Δ - UU/2, ○ - QU/2, □ - PP/2 (0.5, 1.0, 1.5, 2.0, 2.5)
STANDARD PENETRATION RESISTANCE (ASTM D 1586) ▲ N-VALUE (BLOWS PER FOOT)
WATER CONTENT, % PL ⊢ 10 20 30 40 50 ⊣ LL

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITION MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 5

Project No. J046831.01

REV	DESCRIPTION	DATE
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

PROJECT: LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME: SOIL BORINGS

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER PE-2019017908
PROFESSIONAL ENGINEER
05/12/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

G003

Surface Elevation 971 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES	WATER CONTENT, % (PL 10 20 30 40 50 LL) / STANDARD PENETRATION RESISTANCE (N-VALUE, BLOWS PER FOOT)
	ROOT ZONE - 12 inches			
	CLAY - brown, stiff, fat - CH			
		3-4-6	SS1	
5				
		4-4-6	SS2	
10				
	Auger refusal at 11.5 feet.			
15				

SHEAR STRENGTH, tsf: Δ - UU/2 ○ - QU/2 □ - PP/2 (0.5 1.0 1.5 2.0 2.5)

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITIONS MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 6

Project No. J046831.01

Surface Elevation 977 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES	WATER CONTENT, % (PL 10 20 30 40 50 LL) / STANDARD PENETRATION RESISTANCE (N-VALUE, BLOWS PER FOOT)
	ROOT ZONE - 12 inches			
	CLAY - brown and gray to yellow brown and gray, stiff and very stiff, fat - CH			
		6-8-8	SS1	
5				
	shaley, some gravel	4-6-9	SS2	
10				
	Auger refusal at 12.5 feet.			
15				

SHEAR STRENGTH, tsf: Δ - UU/2 ○ - QU/2 □ - PP/2 (0.5 1.0 1.5 2.0 2.5)

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITIONS MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 7

Project No. J046831.01

Surface Elevation 983 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES	WATER CONTENT, % (PL 10 20 30 40 50 LL) / STANDARD PENETRATION RESISTANCE (N-VALUE, BLOWS PER FOOT)
	ROOT ZONE - 12 inches			
	CLAY - red brown to yellow brown and gray, medium stiff and stiff, fat - CH			
		5-6-6	SS1	
5				
	some gravel	2-3-4	SS2	
10				
	Weathered SHALE			
		8-17-24	SS3	
15				
	Auger refusal at 16.5 feet.			

SHEAR STRENGTH, tsf: Δ - UU/2 ○ - QU/2 □ - PP/2 (0.5 1.0 1.5 2.0 2.5)

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITIONS MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 8

Project No. J046831.01

Surface Elevation 968 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES	WATER CONTENT, % (PL 10 20 30 40 50 LL) / STANDARD PENETRATION RESISTANCE (N-VALUE, BLOWS PER FOOT)
	ROOT ZONE - 12 inches			
	CLAY - brown to reddish brown, medium stiff and stiff, fat - CH			
		4-7-6	SS1	
5				
	weathered limestone fragments	3-4-3	SS2	
10				
	Auger refusal at 10.5 feet.			
15				

SHEAR STRENGTH, tsf: Δ - UU/2 ○ - QU/2 □ - PP/2 (0.5 1.0 1.5 2.0 2.5)

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITIONS MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B- 9

Project No. J046831.01

Surface Elevation 973 | Completion Date: 10/28/24
Datum NAVD88

DEPTH IN FEET	DESCRIPTION OF MATERIAL	DRY UNIT WEIGHT (pcf) SPT BLOW COUNTS CORE RECOVERY/RQD	SAMPLES	WATER CONTENT, % (PL 10 20 30 40 50 LL) / STANDARD PENETRATION RESISTANCE (N-VALUE, BLOWS PER FOOT)
	ROOT ZONE - 12 inches			
	CLAY - brown to yellow brown, stiff, fat - CH			
		4-5-6	SS1	
5				
		2-4-6	SS2	
10				
	Auger refusal at 11.5 feet.			
15				

SHEAR STRENGTH, tsf: Δ - UU/2 ○ - QU/2 □ - PP/2 (0.5 1.0 1.5 2.0 2.5)

NOTE: STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES AND THE TRANSITIONS MAY BE GRADUAL. GRAPHIC LOG FOR ILLUSTRATION PURPOSES ONLY.

GROUNDWATER DATA
X FREE WATER NOT ENCOUNTERED DURING DRILLING

DRILLING DATA
4" AUGER ___ HOLLOW STEM
WASHBORING FROM ___ FEET
DJT DRILLER RAW LOGGER
CME 55TRK DRILL RIG
HAMMER TYPE Auto

REMARKS:

Drawn by: RAW Date: 10/29/24 | Check by: RAW Date: 10/29/24 | App'vd by: MHM Date: 10/30/24

UES

Legacy Park Lake Dredge
Lee's Summit, Missouri

LOG OF BORING: B-10

Project No. J046831.01

REV	DESCRIPTION	DATE
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

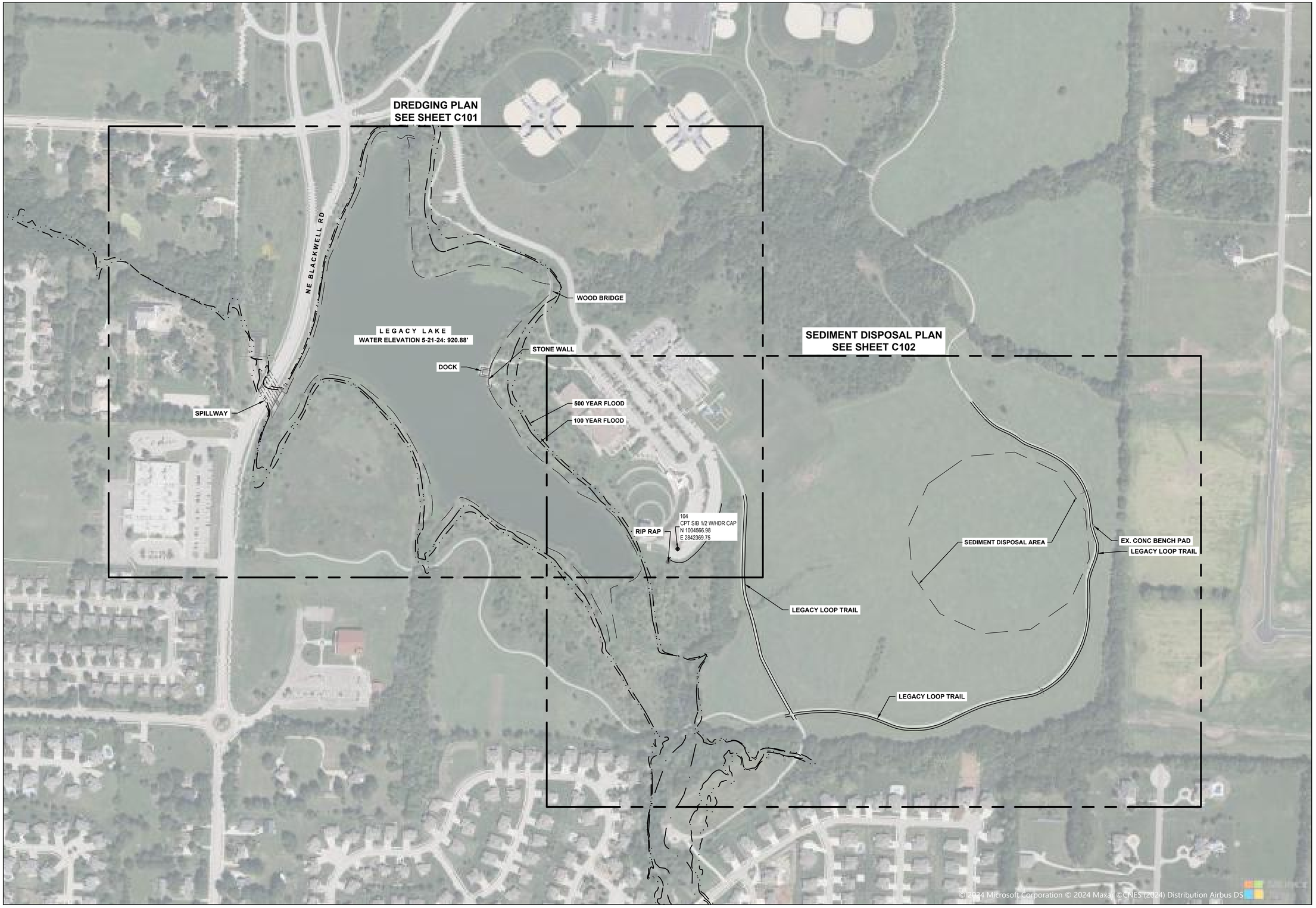
PROJECT: LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME: SOIL BORINGS

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER PE-2019017908
PROFESSIONAL ENGINEER
05/12/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

G004



REV	DESCRIPTION	DATE
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LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

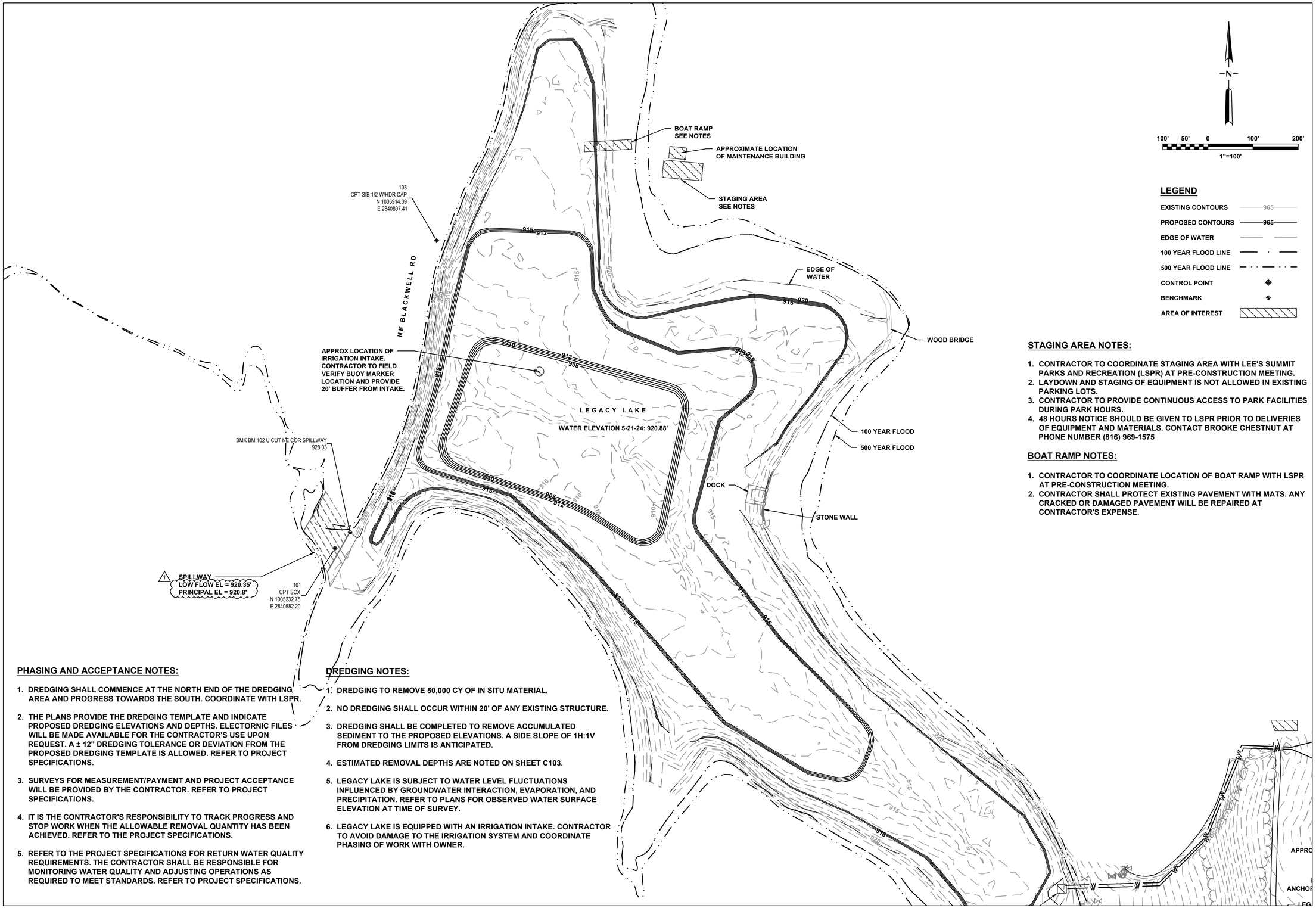
PROJECT:
LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME:
OVERVEIW AND KEY MAP

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER
PE-2019017908
PROFESSIONAL ENGINEER
5/12/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

C100



LEGEND

EXISTING CONTOURS	965
PROPOSED CONTOURS	965
EDGE OF WATER	
100 YEAR FLOOD LINE	
500 YEAR FLOOD LINE	
CONTROL POINT	
BENCHMARK	
AREA OF INTEREST	

STAGING AREA NOTES:

1. CONTRACTOR TO COORDINATE STAGING AREA WITH LEE'S SUMMIT PARKS AND RECREATION (LSPR) AT PRE-CONSTRUCTION MEETING.
2. LAYDOWN AND STAGING OF EQUIPMENT IS NOT ALLOWED IN EXISTING PARKING LOTS.
3. CONTRACTOR TO PROVIDE CONTINUOUS ACCESS TO PARK FACILITIES DURING PARK HOURS.
4. 48 HOURS NOTICE SHOULD BE GIVEN TO LSPR PRIOR TO DELIVERIES OF EQUIPMENT AND MATERIALS. CONTACT BROOKE CHESTNUT AT PHONE NUMBER (816) 969-1575

BOAT RAMP NOTES:

1. CONTRACTOR TO COORDINATE LOCATION OF BOAT RAMP WITH LSPR AT PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL PROTECT EXISTING PAVEMENT WITH MATS. ANY CRACKED OR DAMAGED PAVEMENT WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.

PHASING AND ACCEPTANCE NOTES:

1. DREDGING SHALL COMMENCE AT THE NORTH END OF THE DREDGING AREA AND PROGRESS TOWARDS THE SOUTH. COORDINATE WITH LSPR.
2. THE PLANS PROVIDE THE DREDGING TEMPLATE AND INDICATE PROPOSED DREDGING ELEVATIONS AND DEPTHS. ELECTORNIC FILES WILL BE MADE AVAILABLE FOR THE CONTRACTOR'S USE UPON REQUEST. A ± 12" DREDGING TOLERANCE OR DEVIATION FROM THE PROPOSED DREDGING TEMPLATE IS ALLOWED. REFER TO PROJECT SPECIFICATIONS.
3. SURVEYS FOR MEASUREMENT/PAYMENT AND PROJECT ACCEPTANCE WILL BE PROVIDED BY THE CONTRACTOR. REFER TO PROJECT SPECIFICATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TRACK PROGRESS AND STOP WORK WHEN THE ALLOWABLE REMOVAL QUANTITY HAS BEEN ACHIEVED. REFER TO THE PROJECT SPECIFICATIONS.
5. REFER TO THE PROJECT SPECIFICATIONS FOR RETURN WATER QUALITY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING WATER QUALITY AND ADJUSTING OPERATIONS AS REQUIRED TO MEET STANDARDS. REFER TO PROJECT SPECIFICATIONS.

DREDGING NOTES:

1. DREDGING TO REMOVE 50,000 CY OF IN SITU MATERIAL.
2. NO DREDGING SHALL OCCUR WITHIN 20' OF ANY EXISTING STRUCTURE.
3. DREDGING SHALL BE COMPLETED TO REMOVE ACCUMULATED SEDIMENT TO THE PROPOSED ELEVATIONS. A SIDE SLOPE OF 1H:1V FROM DREDGING LIMITS IS ANTICIPATED.
4. ESTIMATED REMOVAL DEPTHS ARE NOTED ON SHEET C103.
5. LEGACY LAKE IS SUBJECT TO WATER LEVEL FLUCTUATIONS INFLUENCED BY GROUNDWATER INTERACTION, EVAPORATION, AND PRECIPITATION. REFER TO PLANS FOR OBSERVED WATER SURFACE ELEVATION AT TIME OF SURVEY.
6. LEGACY LAKE IS EQUIPPED WITH AN IRRIGATION INTAKE. CONTRACTOR TO AVOID DAMAGE TO THE IRRIGATION SYSTEM AND COORDINATE PHASING OF WORK WITH OWNER.

REV	DESCRIPTION	DATE
1	ADDENDUM #2	06/30/2025

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

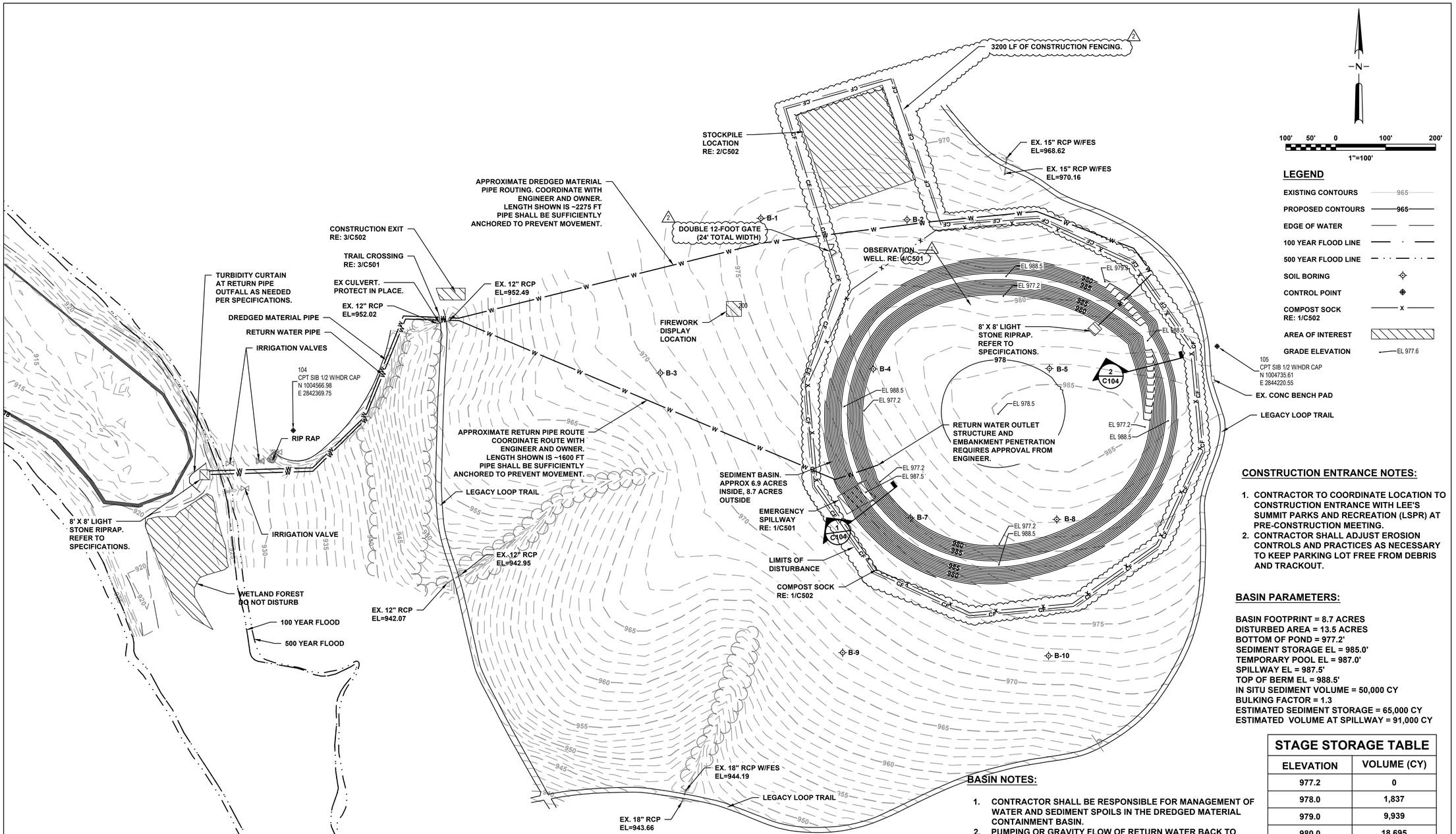
PROJECT:
LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME:
DREDGING PLAN

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER
PE-2019017908
5/30/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/27/2025
PROJECT #:	10415715

C101



LEGEND

EXISTING CONTOURS	965
PROPOSED CONTOURS	965
EDGE OF WATER	
100 YEAR FLOOD LINE	
500 YEAR FLOOD LINE	
SOIL BORING	
CONTROL POINT	
COMPOST SOCK RE: 1/C502	x
AREA OF INTEREST	
GRADE ELEVATION	EL 977.6

CONSTRUCTION ENTRANCE NOTES:

1. CONTRACTOR TO COORDINATE LOCATION TO CONSTRUCTION ENTRANCE WITH LEE'S SUMMIT PARKS AND RECREATION (LSPR) AT PRE-CONSTRUCTION MEETING.
2. CONTRACTOR SHALL ADJUST EROSION CONTROLS AND PRACTICES AS NECESSARY TO KEEP PARKING LOT FREE FROM DEBRIS AND TRACKOUT.

BASIN PARAMETERS:

BASIN FOOTPRINT = 8.7 ACRES
DISTURBED AREA = 13.5 ACRES
BOTTOM OF POND = 977.2'
SEDIMENT STORAGE EL = 985.0'
TEMPORARY POOL EL = 987.0'
SPILLWAY EL = 987.5'
TOP OF BERM EL = 988.5'
IN SITU SEDIMENT VOLUME = 50,000 CY
BULKING FACTOR = 1.3
ESTIMATED SEDIMENT STORAGE = 65,000 CY
ESTIMATED VOLUME AT SPILLWAY = 91,000 CY

STAGE STORAGE TABLE

ELEVATION	VOLUME (CY)
977.2	0
978.0	1,837
979.0	9,939
980.0	18,695
981.0	27,652
982.0	36,813
983.0	46,180
984.0	55,756
985.0	65,541
986.0	75,554
987.0	85,765
988.0	96,247
988.5	101,618

BASIN NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGEMENT OF WATER AND SEDIMENT SPOILS IN THE DREDGED MATERIAL CONTAINMENT BASIN.
2. PUMPING OR GRAVITY FLOW OF RETURN WATER BACK TO LEGACY LAKE IS ANTICIPATED. IF GRAVITY FLOW OF RETURN WATER IS DESIRED BY THE CONTRACTOR, CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL A WATER CONTROL STRUCTURE TO FACILITATE RETURNING WATER TO LAKE. RETURN CONTROLS SHALL BE SIZED TO HYDRAULICALLY PASS INFLUENT DREDGING RATES. ALL WATER CONTROL STRUCTURES AND PENETRATIONS THROUGH THE BASIN EMBANKMENT MUST BE APPROVED BY ENGINEER.
3. ALL PENETRATIONS SHALL BE BEDDED AND BACKFILLED WITH BENTONITE BACKFILL. REFER TO DETAIL 2/C501.
4. PIPE PENETRATIONS SHALL BE LEFT IN PLACE AT PROJECT CLOSEOUT. CUT PIPE AT BERM AND PROVIDE RIPRAP SPLASH PAD. ALL STOP LOGS SHALL BE REMOVED FROM OUTLET STRUCTURE TO PROMOTE DEWATERING OF SEDIMENT. ENGINEER TO APPROVE OUTLET STRUCTURE REMAINING IN PLACE, AND REQUIRED MODIFICATIONS.

CONSTRUCTION FENCING NOTES:

1. CONSTRUCTION FENCING SHALL BE INSTALLED AROUND THE PERIMETER OF THE SITE BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN TO SAFEGUARED THE PUBLIC FROM POTENTIAL HAZARDS. THE FENCING SHALL REMAIN IN PLACE UNTIL THE PROJECT IS COMPLETED AND THE SITE IS DEEMED SAFE.

SEEDING NOTES:

1. CONTRACTOR TO PERMANENT SEED ALL DISTURBED AREAS PRIOR TO PROJECT CLOSEOUT.
2. REFER TO PROJECT SPECIFICATIONS.

FIREWORK AREA NOTES:

1. CONTRACTOR TO AVOID WORK IN FIREWORKS DISPLAY LOCATION. FIREWORKS DISPLAY TO BE ACCESSIBLE DURING 4TH OF JULY EVENT. COORDINATE WITH LSPR. REFER TO PROJECT SPECIFICATIONS.

REV	DESCRIPTION	DATE
1	ADDENDUM #2	06/20/2025
2	ADDENDUM #4	06/04/2025

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

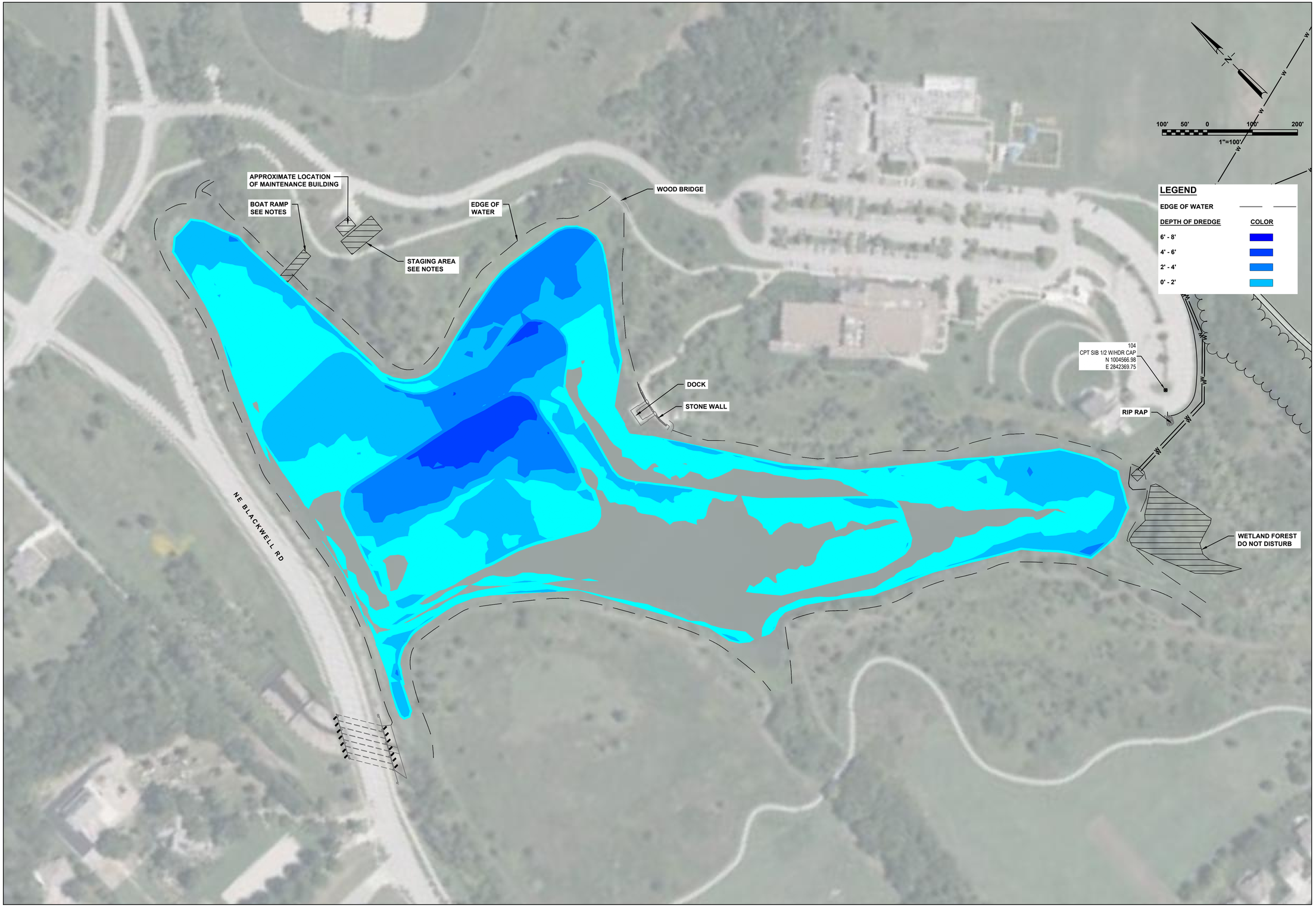
PROJECT: LEGACY LAKE DREDGING PROJECT NO. 2025-PR-006 LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME: SEDIMENT DISPOSAL

WESLEY A. WEIMER NUMBER PE-2019017908
6/4/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/27/2025
PROJECT #:	10415715

C102



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LEE'S SUMMIT MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

PROJECT:

LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

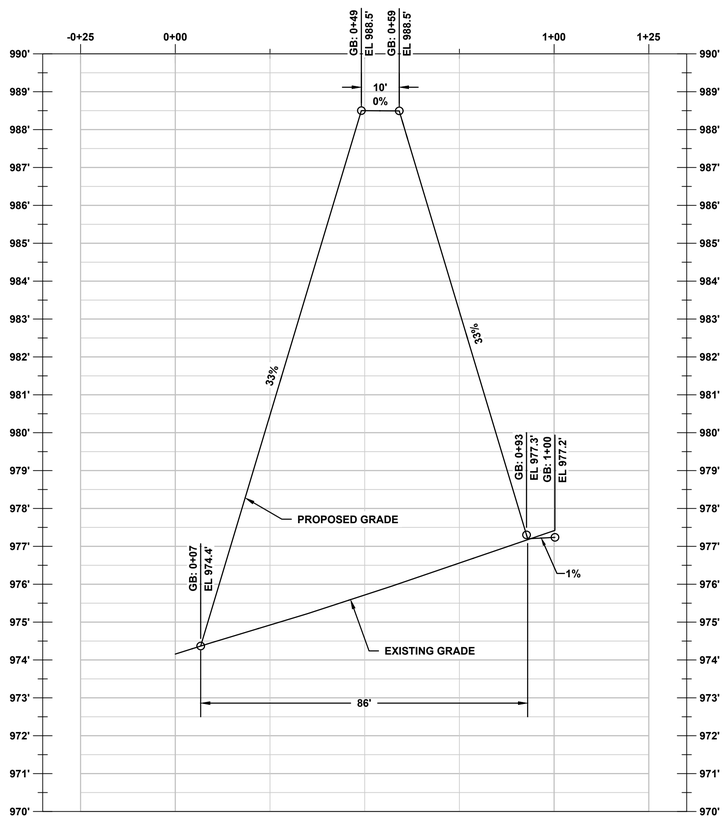
SHEET NAME:

DREDGING HEAT MAP

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER
PE-2019017908
PROFESSIONAL ENGINEER
5/12/25

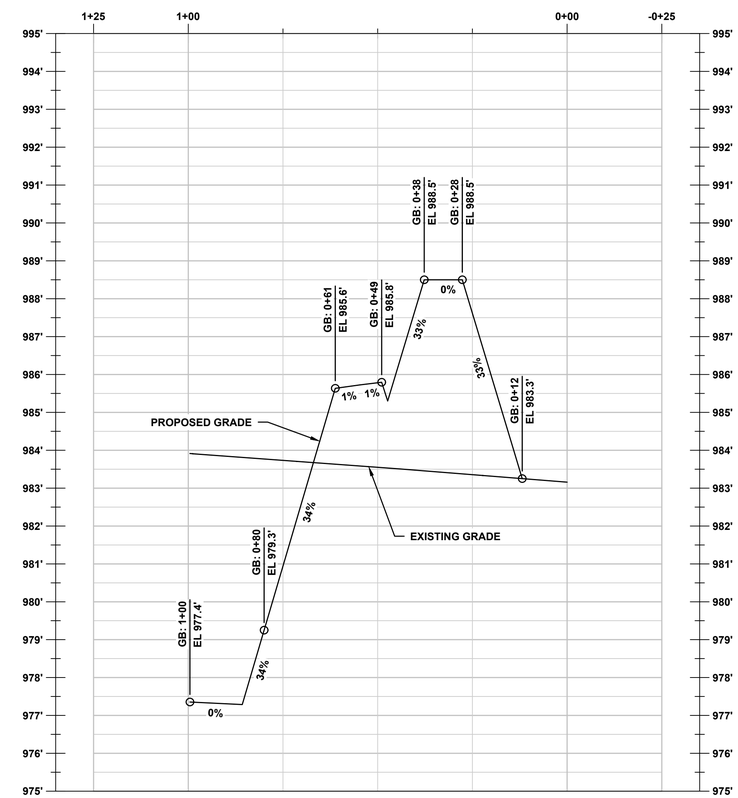
DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

C103



1 - **EMERGENCY SPILLWAY**

1" = 20' H 1" = 2' V



2 - **TRUCK RAMP**

1" = 20' H 1" = 2' V

REV	DESCRIPTION	DATE
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LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

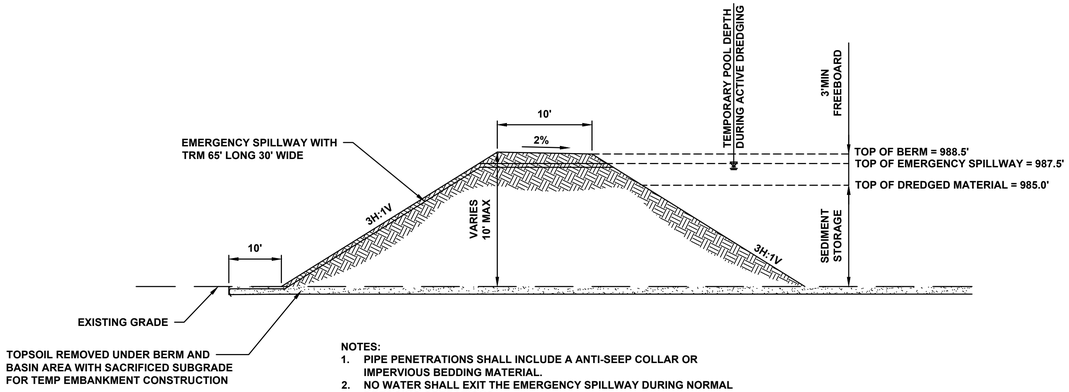
PROJECT:
LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME:
SURFACE CROSS SECTIONS

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER
PE-2019017908
PROFESSIONAL ENGINEER
5/12/25

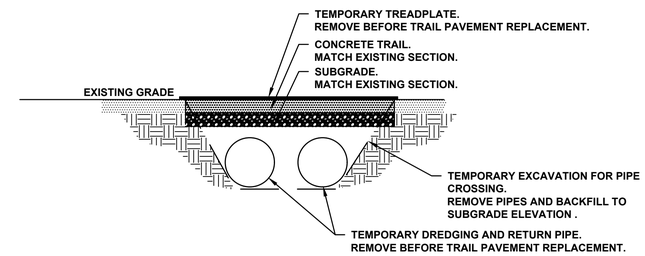
DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/12/2025
PROJECT #:	10415715

C104



NOTES:
1. PIPE PENETRATIONS SHALL INCLUDE A ANTI-SEEP COLLAR OR IMPERVIOUS BEDDING MATERIAL.
2. NO WATER SHALL EXIT THE EMERGENCY SPILLWAY DURING NORMAL DREDGING OPERATIONS.
3. COMPACT SOIL TO 95% STANDARD PROCTOR. REFER TO SPECIFICATIONS.
4. EARTHWORK TO BE STABALIZED PER SPECIFICATIONS.
5. TOP OF BERM TO BE LOWERED TO SEDIMENT STORAGE HEIGHT POST DREDGING OPERATIONS TO PREVENT STANDING WATER. REFER TO SPECIFICATIONS FOR CONSTRUCTION SEQUENCE.

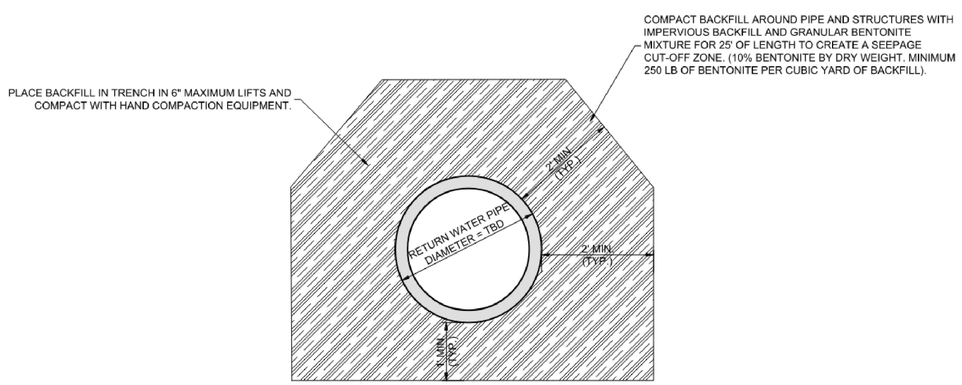
1 / -
BERM DETAIL
NTS



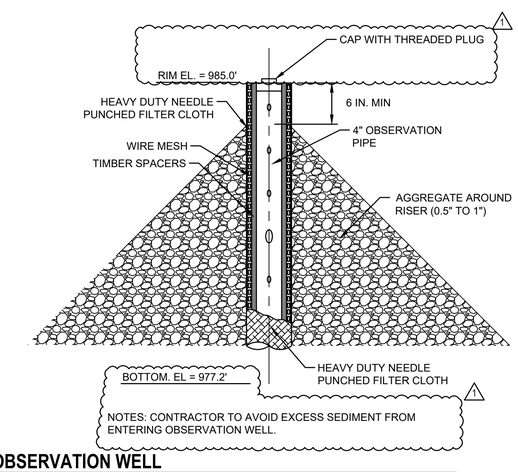
SECTION VIEW

NOTES:
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.

3 / -
TRAIL CROSSING
NTS



2 / -
EMBANKMENT PENETRATION PIPE BEDDING & BACKFILL (SEEPAGE CUT-OFF ZONE)
NTS



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OBSERVATION WELL
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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

PROJECT:
LEGACY LAKE DREDGING
PROJECT NO. 2025-PR-006
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

SHEET NAME:
DETAILS

STATE OF MISSOURI
WESLEY A. WEIMER
NUMBER
PE-2019017908
5/30/25

DRAWN BY:	DEO
CHECKED BY:	WAW
DATE:	05/27/2025
PROJECT #:	10415715

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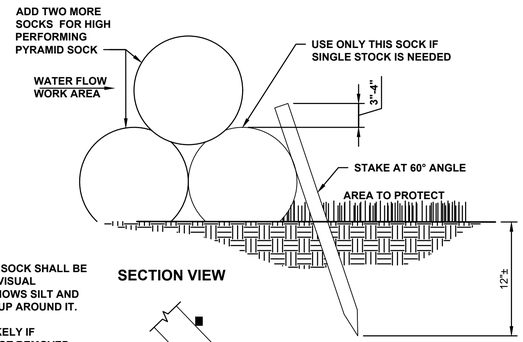
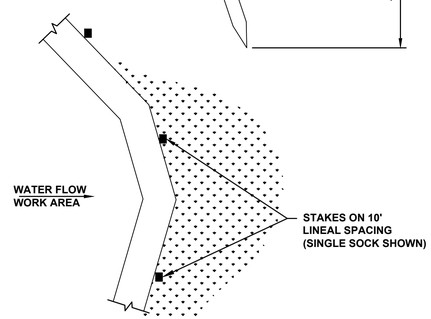


SECTION VIEW

NOTES:

1. THE COMPOST SOCK SHALL BE CLEANED IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILD UP AROUND IT.
2. PONDING IS LIKELY IF SEDIMENT IS NOT REMOVED REGULARLY.
3. REFER TO EROSION AND SEDIMENT CONTROL NOTES FOR INSPECTION FREQUENCY.



PLAN VIEW

1 - COMPOST SOCK DETAIL

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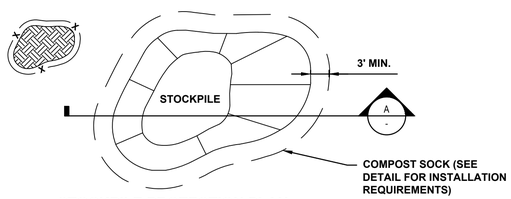
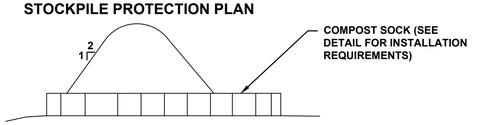


STOCKPILE PROTECTION PLAN



SECTION A

2 - STOCKPILE PROTECTION

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STOCKPILE PROTECTION INSTALLATION NOTES:

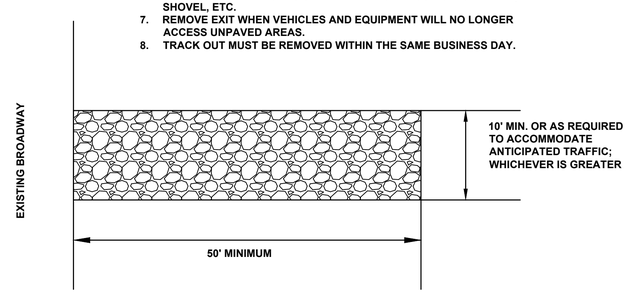
1. CONTRACTOR TO FIELD VERIFY LOCATION OF STOCKPILE AND COORDINATE WITH OWNER.
2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. CONTRACTOR SHALL ADJUST EROSION CONTROLS AS NECESSARY TO CONTAIN THE STOCKPILE.
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, 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:

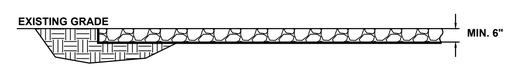
1. INSPECT BMPS EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPS SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPS AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. 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.

NOTES:

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

3 - CONSTRUCTION EXIT

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LEE'S SUMMIT MISSOURI

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