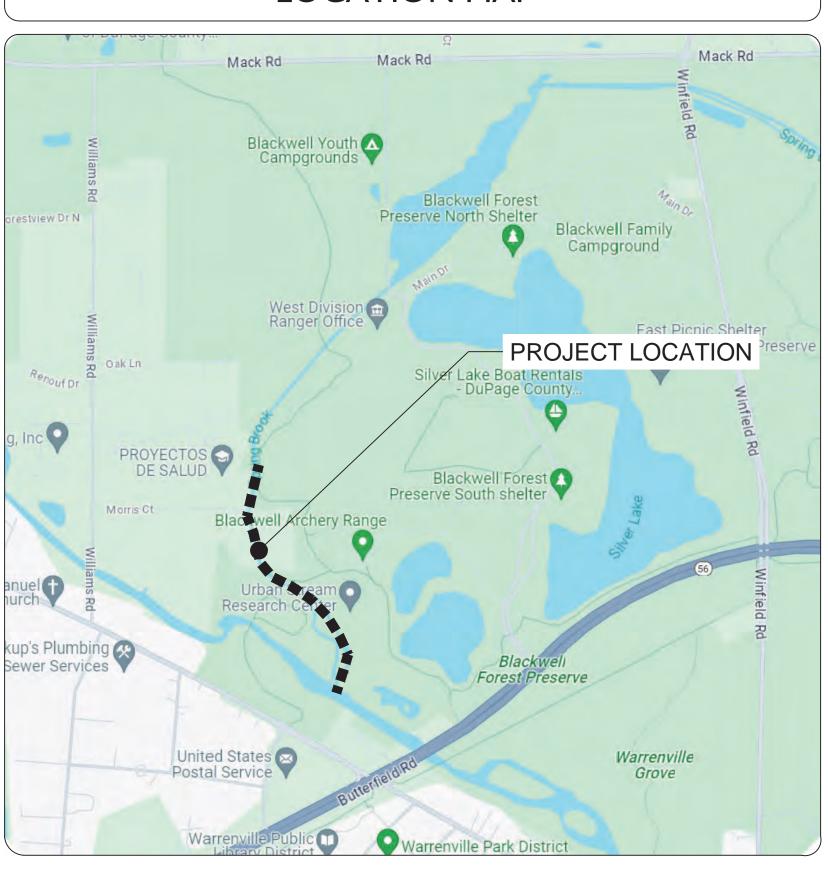
SPRING BROOK PHASE III RESTORATION

AT BLACKWELL FOREST PRESERVE

WARRENVILLE, IL 60555 PROJECT # Z-023-101

LOCATION MAP



BENCHMARK DATA

SURVEY DATUM: NAVD88

DUPAGE COUNTY:
BENCHMARK #0193:
STATION IS LOCATED ALONG THE WEST SIDE OF W

STATION IS LOCATED ALONG THE WEST SIDE OF WINFIELD ROAD, SOUTH OF THE INTERSECTION WITH MACK ROAD. STATION IS 64.9 FT SOUTHEAST OF A POWER POLE AND 31.7 FT WEST OF THE CENTERLINE OF WINFIELD ROAD. MONUMENT IS A BRASS DISK ON THE NORTH END OF THE WEST CONCRETE HEADWALL FOR SPRING BROOK PASSING UNDER WINFIELD ROAD

ELEV=719.26 BENCHMARK W127001:

STATION IS LOCATED ALONG WILLIAMS ROAD, NORTH OF THE "T" INTERSECTION WITH BATAVIA ROAD. STATION IS 567.0 FT NORTH OF THE CENTERLINE OF BATAVIA ROAD, 478.0 FT SOUTH OF THE CENTERLINE OF MORRIS STREET, AND 13.9 FT EAST OF THE CENTERLINE OF WILLIAMS STREET. MONUMENT IS A 3INCH BRASS DISK ON THE NORTHEAST WINGWALL OF A BRIDGE FOR WILLIAMS STREET OVER THE DU PAGE RIVER WEST BRANCH. MONUMENT IS 0.2 FT ABOVE ROAD SURFACE AND IS FERROMAGNETIC ELEV=697.53

SITE RENCHMARK

BM#I: 'X' IN CONCRETE AT SOUTHWEST CORNER OF ARROW ROAD BRIDGE OVER SPRING BROOK NO. I

BM#2: NAIL IN HMA AT SOUTWEST CORNER OF ARROW ROAD AND OLD SPRING BROOK NO.I CHANNEL
ELEV=707.09



CONTACT J.U.L.IE. 48-HOURS BEFORE YOU DIG

CALL "811" OR 1-800-892-0123 TO PLACE A LOCATE REQUEST

ILLINOIS ONE CALL SYSTEM

SHEET LIST TABLE

SHEET NUMBER	SHEEET TITLE	SHEET NUMBER	SHEEET TITLE	
cc	OVER	PROPOSED CO	NDITIONS P&P	
I	COV 1.00	24	C 1.00	
2	GN 1.00	25	C 1.01	
EXISTING CC	NDITIONS P&P	26	C 1.02	
3	EX 1.00	27	C 1.03	
4	EX 1.01	28	C 1.04	
5	EX 1.02	29	C 1.05	
6	EX 1.03	30	C 1.06	
7	EX 1.04	PROPOSED CR	OSS SECTIONS	
8	EX 1.05	31	C 1.07	
9	EX 1.06	32	C 1.08	
EXISTING CR	EXISTING CROSS SECTIONS		C 1.09	
10	EX 1.07	34	C 1.10	
11	EX 1.08	DETAILS		
12	EX 1.09	35	C 1.11	
13	EX 1.10	36	C 1.12	
EROSION CONTRO	DL AND DEMO PLAN	37	C 1.13	
14	EC 1.00	38	C 1.14	
15	EC 1.01	39	C 1.15	
16	EC 1.02	40	C 1.16	
17	EC 1.03	RESTORAT	TION PLAN	
18	EC 1.04	41	L 1.00	
19	EC 1.05	42	L 1.01	
20	EC 1.06	43	L 1.02	
EROSION COI	NTROL DETAILS	RESTORATION	ON DETAILS	
21	EC 1.07	44	L 1.07	
22	EC 1.08	45	L 1.08	
23	EC 1.09			

SHEEET TITLE				
STRUCTURAL PLANS				
SI				
S2				
\$3				
S4				

PLAN REVISIONS

ORIGINAL PLAN DATE: September 16, 2024

	ORIGINAL I LAN DATE. September 10, 2024					
MARK	SHEET NO.	DESCRIPTION	DATE			
\triangle	NUMEROUS	PER DPC STORMWATER REVIEW	JAN 2025			
2	NUMEROUS	REMOVED MUSSEL BASINS, MOD RESTORATION LIMITS	MAY 2025			

PROFESSIONAL ENGINEER BROCK LOVELACE, P.E.

ILLINOIS REGISTRATION NO. 062-061244



REST	RESE	RVE	OISTRI	
S D	U P	AG	E	

EXPIRATION DATE: 11/30/2025

PLANS PREPARED BY:
FOREST PRESERVE DISTRICT OF DUPAGE COUNTY
STREET ADDRESS: 3S580 NAPERVILLE ROAD, WHEATON, IL 60189
MAILING ADDRESS: P.O. BOX 5000, WHEATON, IL 60189
PHONE: (630) 933-7200 FAX: (630) 933-7204
WWW.DUPAGEFOREST.ORG

m MARK: DATE: DESCRIPTION: PROJECT NO: Z-023-101 DRAWN BY: CHECKED BY: August 28, 2024 SCALE: SHEET TITLE: COVER SHEET NO: COV 1.00

3 S 580 NAPERVILLE ROA

PH# 630-933-7200

- 1. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, CONTROLS AND CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. CONTACT J.U.L.I.E. AT (1-800-892-0123) FOR UTILITY LOCATIONS PRIOR TO DIGGING. CONTACT THE FOREST PRESERVE DISTRICT OF Dupage County'S facilities management department for ADDITIONAL UTILITY LOCATIONS.
- 2. ALL UTILITIES AND THEIR CONTROLS INTERFERING WITH CONSTRUCTION SHALL BE REMOVED AND RESET AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES TO BE RELOCATED AND RESET SHALL BE INSTALLED OR RESTORED EQUAL TO OR BETTER THAN THEIR EXISTING CONDITION.
- 3. THE CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THEREON. THE CONTRACTOR SHALL INVESTIGATE, VERIFY, AND BE RESPONSIBLE FOR ALL CONDITIONS REQUIRING MODIFICATIONS BEFORE PROCEEDING WITH THE WORK.
- 4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE MOST CURRENT DUPAGE COUNTY & LOCAL MUNICIPAL BUILDING CODES, STORMWATER & FLOODPLAIN ORDINANCE AND ZONING ORDINANCE, THE STATE OF ILLINOIS ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACT, I.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND I.D.O.T. SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- 5. ALL STORM SEWER CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN
- 6. THE CONTRACTOR SHALL COORDINATE USE OF SITE, ACCESS TO SITE & HOURS OF WORK WITH THE PROJECT REPRESENTATIVE.
- 7. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOB SITE SAFETY.
- 8. ALL PROJECT PERMITS SHALL BE OBTAINED AND PAID FOR BY THE OWNER, WITH EXCEPTION OF HIGHWAY PERMITS. ALL PERMIT INSPECTION SHALL BE COORDINATED BY THE
- 9. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND LAWS.
- 10. THE CONTRACTOR SHALL KEEP THE PROJECT AREA CLEAR OF RUBBISH AND DEBRIS AT ALL
- 11. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION OF ALL ACCESS AND CONSTRUCTION AREAS TO THEIR ORIGINAL CONDITION. THE COST OF THIS WORK IS INCIDENTAL TO THE CONTRACT.
- 12. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ABOUT ANY DISCREPANCIES OR DEVIATIONS FROM THE PLANS IMMEDIATELY BEFORE WORK MAY PROCEED.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO THE TRAILS. TRAILS DAMAGED WILL BE REPAIRED TO THEIR ORIGINAL CONDITION. THE COST OF THE WORK IS INCIDENTAL TO
- 14. ALL QUANTITIES SHOWN ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR MUST CONFIRM ALL MATERIAL AND SUPPLY SUFFICIENT MATERIAL TO COMPLETE THE JOB AS SHOWN. DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SIGNS, BARRICADES, FENCES, ETC. AS REQUIRED TO ENSURE THE SAFETY OF VEHICLES AND PEDESTRIANS DURING ALL PHASES OF CONSTRUCTION. NO WORK WILL BE ALLOWED TO BEGIN UNTIL ALL CONSTRUCTION BARRIERS ARE IN PLACE AND HAVE BEEN APPROVED BY THE PROJECT REPRESENTATIVE.
- 16. ALL STOCKPILE AREAS IDENTIFIED ON THE PLANS MUST BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION BEGINNING. IF STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES SHALL BE PROVIDED.
- 17. ALL CONSTRUCTION LAYOUT AND STAKING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE REVIEWED AND APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- 18. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED ACCORDING TO THE PLANS AND SPECIFICATIONS AND SHALL BE REVIEWED AND APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO RESTORING DISTURBED AREA.
- 19. ALL AREAS OF DISTURBANCE, INCLUDING RESTORATION AND CONSTRUCTION, SHALL HAVE A MINIMUM OF 6" TOPSOIL PLACED PRIOR TO SEEDING, UNLESS OTHERWISE NOTED.
- 20. ALL TREES AND SHRUBS WITHIN THE CONTRACT LIMITS AND NOT SCHEDULED FOR REMOVAL SHALL BE PROTECTED BY THE CONTRACTOR. COST INCIDENTAL TO CONTRACT. ALL TREES SCHEDULED FOR REMOVAL MUST BE APPROVED BY THE PROJECT REPRESENTATIVE.

- 1. THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS ACCORDING TO THE INFORMATION OBTAINED FROM UTILITY COMPANIES AND SURVEYS. HOWEVER, THE FOREST PRESERVE DISTRICT OF Dupage County does not guarantee THE COMPLETENESS OR ACCURACY OF THE INFORMATION REGARDING UTILITIES, EITHER PUBLIC OR PRIVATE SUCH AS SEWERS, GAS LINES, WATERMAINS, TELEPHONE, ELECTRICAL DUCT LINES, MANHOLES, CATCH BASINS OR OTHER SIMILAR STRUCTURES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION OPERATIONS AND REPORT TO THE OWNER'S REPRESENTATIVE OMISSIONS AND DIFFERENCES FROM THE LOCATIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH ARE OCCASIONED BY HIS/HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL
- 2. ALL EXISTING DRAINS, SEWERS, WATER LINES, ELECTRIC LINES OR OTHER MISCELLANEOUS UTILITIES DISRUPTED BY THE CONTRACTOR, SHALL BE REROUTED OR REPLACED TO THE SATISFACTION OF THE OWNER. COST INCIDENTAL TO CONTRACT.

SITE LAYOUT NOTES

- 1. EXISTING SITE INFORMATION FROM SURVEY COMPLETED BY DISTRICT STAFF MARCH 2023.
- ALL QUANTITIES AND DESIGN BASED UPON SAME. 2. LAYOUT BENCHMARK STATIONING TIES IN WITH COUNTY COORDINATE DATUM. NORTHING & EASTING COORDINATES ARE PROVIDED FOR BENCHMARKS AS INDICATED IN THE DRAWINGS.
- 3. ALL LAYOUT TO BE PERFORMED BY THE CONTRACTOR AND MUST BE REVIEWED AND APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION. 4. PROPOSED CURBS, SIDEWALKS AND STORM STRUCTURES GRADES SHALL BE STAKED AND
- REVIEWED IN THE FIELD BY THE PROJECT REPRESENTATIVE. ADJUSTMENTS MAY BE MADE BASED UPON SLIGHT VARIATIONS IN EXISTING TOPOGRAPHY TO MAINTAIN POSITIVE DRAINAGE. NO WORK SHALL PROCEED UNTIL GRADES ARE ACCEPTABLE TO THE PROJECT REPRESENTATIVE.
- 5. PROPOSED ROAD AND TRAIL CENTERLINE GRADE SHALL BE STAKED AND REVIEWED IN THE FIELD BY THE PROJECT REPRESENTATIVE. ADJUSTMENTS MAY BE MADE BASED UPON SLIGHT VARIATIONS IN EXISTING TOPOGRAPHY TO MAINTAIN POSITIVE DRAINAGE. NO WORK SHALL PROCEED UNTIL CENTERLINE GRADES ARE ACCEPTABLE TO THE PROJECT REPRESENTATIVE.
- 6. LAYOUT OF ALL NEW PATHWAYS AND CURBS SHALL BE SMOOTH AND CONTINUOUS. ABRUPT CHANGES TO SLOPE OR ALIGNMENT WILL NOT BE ACCEPTED. PROJECT REPRESENTATIVE WILL REVIEW STAKED LAYOUT AND FORMWORK BEFORE CONSTRUCTION BEGINS.

- ALL SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. ALL RUNOFF FROM DISTURBED AREAS SHALL BE FILTERED BY THE SPECIFIED EROSION CONTROL BARRIER. IN ADDITION TO THE EROSION CONTROL BARRIER, DISTURBED AREAS DRAINING MORE THAN ONE ACRE BUT FEWER THAN FIVE ACRES SHALL INCORPORATE A TEMPORARY SEDIMENT TRAP AT THE OUTFALL, AND DISTURBED AREAS DRAINING MORE THAN FIVE ACRES SHALL INCORPORATE A TEMPORARY SEDIMENT BASIN AT THE OUTFALL.
- 2. EROSION CONTROL DEVICES MUST BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH
- 3. TREE PROTECTION FENCE AND SILT FENCE IS SHOWN SCHEMATICALLY. CONTRACTOR SHALL INSTALL FENCING IN ACCORDANCE WITH ACTUAL IMPROVEMENTS, BUT SHALL NOT NEGATIVELY IMPACT EXISTING TREES OTHER THAN AS SHOWN ON THESE PLANS. ACTUAL LOCATION OF FENCING TO BE APPROVED BY THE PROJECT REPRESENTATIVE.
- 4. THE CONTRACTOR SHALL PLACE ALL TEMPORARY CONSTRUCTION FENCING, TREE PROTECTION FENCING, SILT FENCING AND PERFORM ALL TREE ROOT PRUNING PRIOR TO THE START OF CONSTRUCTION. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL EROSION

- CONTROL MEASURES ARE IN PLACE AND HAVE BEEN APPROVED BY THE PROJECT REPRESENTATIVE.
- 5. ALL STOCKPILE AREAS IDENTIFIED ON THE PLANS MUST BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO CONSTRUCTION BEGINNING. ABSOLUTELY NO STOCKPILES OF TOPSOIL OR OTHER MATERIALS SHALL BE LOCATED WITHIN ANY SWALES, WETLANDS, FLOODPLAIN AREAS, OR OTHER SPECIAL MANAGEMENT AREAS AS SHOWN IN THE PLANS.
- 6. EROSION CONTROL MEASURES SHALL BE PROVIDED FOR THE TOPSOIL STOCKPILE IF IN PLACE MORE THAN THREE DAYS. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS.
- 7. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN 14 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
- 8. ALL SLOPES REQUIRING EROSION CONTROL BLANKET SHALL BE BLANKETED WITH MATERIALS MEETING THE SPECIFICATIONS OF TENSAR NORTH AMERICAN GREEN BIONET S75BN, UNLESS OTHERWISE NOTED. THE BLANKET SHALL BE SECURED USING BIODEGRADEABLE ECOSTAKES PER SPECIFICATIONS, AND MUST BE APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO INSTALLATION.
- 9. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION.
- 10. THE CONTRACTOR IS ADVISED THAT SOIL, MUD AND CONSTRUCTION DEBRIS SHALL NOT BE DEPOSITED ON THE ADJACENT ROADWAYS. ANY DIRT AND DEBRIS ACCUMULATED ON THE PAVEMENT MUST BE CLEANED BY THE CONTRACTOR WITHIN FOUR (4) HOURS OF THE INCIDENT AND CONTRACTOR SHALL PROVIDE A WASH-DOWN FACILITY FOR ALL CONSTRUCTION VEHICLES LEAVING THE SITE. COST INCIDENTAL TO CONTRACT.
- 11. ALL FLARED END SECTIONS SHALL BE PROTECTED BY EROSION CONTROL BARRIER UNTIL GROUNDCOVER HAS BEEN ESTABLISHED. FILTER FABRIC OR FILTER BASKETS SHALL BE INSTALLED UNDER ALL INLET AND CATCH BASIN GRATES AND SHALL BE MAINTAINED UNTIL GROUNDCOVER HAS BEEN ESTABLISHED.
- 12. WATER PUMPED FROM THE SITE SHALL BE FILTERED THROUGH A SEDIMENT BASIN OR SILT
- 13. A SPECIFIC AREA SHALL BE DESIGNATED AS A CONCRETE WASH LOCATION AND SHALL BE SURROUNDED BY APPROPRIATE EROSION CONTROL BARRIER.

14. SEED WITH MULCH OR EROSION CONTROL BLANKET, OR SOD, SHALL BE PLACED ON ALL

- DISTURBED AREAS WITHIN 14 DAYS OF THE TOPSOIL PLACEMENT AND FINAL GRADING. EROSION CONTROL BARRIER SHALL REMAIN IN PLACE UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED.
- 15. ANY DISTURBANCE IN A STREAM BED OR BANKS SHALL BE RESTABILIZED WITHIN 48 HOURS AFTER THE DISTURBANCE IS COMPLETED.
- 16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.

DEMOLITION NOTES

- ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER, AND STATE AND LOCAL TIPPING FEES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING ALL ITEMS TO BE SALVAGED OR REMOVED AS IDENTIFIED ON THE PLANS PRIOR TO CONSTRUCTION BEGINNING. THE PROJECT REPRESENTATIVE SHALL APPROVE ALL ITEMS TO BE SALVAGED OR REMOVED PRIOR TO DEMOLITION OCCURRING.
- 3. THE CONTRACTOR SHALL NOT DISPOSE OF ANY CONSTRUCTION DEBRIS WITHIN ANY FPDDC DUMPSTER, WASTE RECEPTACLE, OR PROPERTY. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS OFF-SITE AT HIS/HER EXPENSE. ALL DEMOLITION & REMOVAL SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- ALL ITEMS TO BE SALVAGED AND REUSED SHALL BE PROTECTED AT ALL TIMES. SALVAGED ITEMS MUST BE INSTALLED AND RESTORED EQUAL TO OR BETTER THAN THEIR EXISTING CONDITION. ALL ADJACENT PAVEMENTS, STRUCTURES AND UTILITIES SHALL ALSO BE PROTECTED. ALL LANDSCAPE, PAVEMENTS, STRUCTURES, AND UTILITIES DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE RESTORED TO THEIR EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.
- 5. STRUCTURES, SIDEWALKS, PAVEMENTS AND OTHER UTILITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUTS AND OTHER HAZARDS CREATED BY SITE IMPROVEMENT OPERATIONS.
- ALL EXISTING VEGETATION SHALL BE MOWED TO BARE GRADE IN ALL AREAS OF WORK. THE COST OF THIS WORK IS INCIDENTAL TO THE CONTRACT
- 7. ALL TREES TO BE REMOVED SHALL BE APPROVED BY THE PROJECT REPRESENTATIVE OR AN AUTHORIZED AGENT OF THE DISTRICT IN THE FIELD PRIOR TO REMOVAL.
- 8. TREE PROTECTION FENCE AND EROSION CONTROL BARRIER SHALL ACT AS THE LIMITS OF CONSTRUCTION. ABSOLUTELY NO WORK SHALL TAKE PLACE OUTSIDE THIS AREA UNLESS APPROVED BY THE DISTRICT OR THE PROJECT REPRESENTATIVE.

GRADING NOTES

- ALL PROPOSED ELEVATIONS SHOWN ON THE PLANS ARE FINISHED SURFACE ELEVATIONS, UNLESS OTHERWISE SPECIFIED.
- 2. CONTRACTOR SHALL MATCH THE LINE AND GRADE OF EXISTING PAVEMENTS AND CURB.
- CONTRACTOR SHALL ALERT PROJECT REPRESENTATIVE OF ANY SUBSTANTIAL DEVIATIONS.
- 3. EXCAVATED SOIL SHALL BE DEPOSITED IN THE DESIGNATED STOCKPILE AREA. 4. STOCKPILED SPOILS TO REMAIN FREE OF EXCESSIVE COMPACTION AND INORGANIC DEBRIS, GRADED TO AN EVEN SLOPE NOT TO EXCEED 20% AND SHALL BE OVERLAID WITH A MINIMUM
- OF 12" TOPSOIL. 5. PROPOSED DITCH CENTERLINE GRADE SHALL BE STAKED AND REVIEWED IN THE FIELD BY THE PROJECT REPRESENTATIVE. ADJUSTMENTS MAY BE MADE BASED UPON SLIGHT VARIATIONS IN EXISTING TOPOGRAPHY TO MAINTAIN POSITIVE DRAINAGE. NO WORK SHALL PROCEED UNTIL CENTERLINE GRADES ARE ACCEPTABLE TO THE PROJECT
- 6. CONTRACTOR SHALL ADJUST ANY UTILITY STRUCTURE WITHIN THE SITE TO MEET PROPOSED GRADE, UNLESS OTHERWISE NOTED.
- 7. MAINTAIN PRESENT GRADE AT BASE OF ALL EXISTING TREES TO REMAIN IN PLACE. USE TREE PROTECTION BARRICADES AT DRIPLINES WHERE INDICATED, SEE DEMOLITION & EROSION CONTROL SHEETS. PROTECT EXISTING TREES TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, BRUISING OF BARK OR SMOTHERING OF TREES. DRIVING, PARKING, DUMPING, STOCKPILING AND/OR STORAGE OF VEHICLES, EQUIPMENT, SUPPLIES, MATERIALS OR DEBRIS ON TOP OF THE ROOT ZONES AND/OR WITHIN THE DRIPLINE OF EXISTING TREES OR OTHER PLANT MATERIAL TO REMAIN IN PLACE IS STRICTLY PROHIBITED.
- 8. ALL COMPENSATORY STORAGE SHALL BE OPERATIONAL PRIOR TO THE PLACEMENT OF FILL, STRUCTURES, OR OTHER MATERIALS IN THE REGULATORY FLOOD PLAIN. GRADING IN SPECIAL MANAGEMENT AREAS SHALL BE DONE IN SUCH A MANNER THAT THE EXISTING FLOOD PLAIN STORAGE IS MAINTAINED AT ALL TIMES.

LANDSCAPE NOTES

- 1. ALL LAYOUT OF LANDSCAPE ITEMS (PLANTING BEDS, WOODY SPECIES, PERENNIALS, SEEDING LIMITS, AND ETC.) SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE REVIEWED AND APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO THE START OF
- 2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ABOUT ANY DISCREPANCIES OR DEVIATIONS FROM THE PLANS IMMEDIATELY BEFORE WORK MAY PROCEED.
- 3. SCHEDULE QUANTITIES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES.
- 4. ALL PLANTS MUST BE DELIVERED TO THE PROJECT SITE WITH ORIGINAL TAGS OR LABELS FROM THE ORIGINAL NURSERY SUPPLIER. PLANTS DELIVERED TO THE JOBSITE WITHOUT APPROPRIATE SIZING AND SPECIES INFORMATION WILL BE REJECTED.

- 5. THE PROJECT REPRESENTATIVE MUST BE NOTIFIED 48 HOURS IN ADVANCE OF DELIVERY OF ALL PLANTING MATERIALS AND MUST APPROVE ALL PLANTS PRIOR TO BEING UNLOADED.
- 6. ALL PLANTS SHALL MEET OR EXCEED THE CURRENT AMERICAN NURSERYMAN AND LANDSCAPE ASSOCIATION STANDARDS AND BE TRUE TO FORM AND SIZE AS

REPRESENTATIVE OF ITS SPECIES.

- 7. ALL DISTURBED AREAS WITHIN NATIVE SEEDING LIMITS SHALL BE RESTORED WITH 4" TOPSOIL AND SEEDED WITH MULCH METHOD 2, "PROCEDURE 2", UNLESS NOTED OTHERWISE OR DIRECTED BY THE PROJECT REPRESENTATIVE.
- 8. ALL TURF SEEDING AREAS SHALL BE GRADED TO ALLOW FOR MOWERS TO MOW THAT AREA WITHOUT SCALPING THE NEW TURF.
- 9. ALL SEEDING SPECIFICATIONS SHALL FOLLOW SECTION 250 OF IDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION CURRENT EDITION UNLESS NOTED OTHERWISE IN SPECIAL PROVISIONS OR BELOW.
- 10. ALL PLANTING BED AREAS SHALL HAVE AT LEAST TWELVE INCHES (12") OF CLEAN UN-COMPACTED TOPSOIL. GRADED PORTIONS OF THE PLANTING AREAS THAT DO NOT EXPOSE SUITABLE PLANTING MEDIUMS SHALL BE OVER EXCAVATED TO RE-SPREAD WITH 12 IN. OF TOPSOIL. THE SUBSOIL SHALL BE LOOSENED AND TOPSOIL APPLIED TO MINIMIZE COMPACTION. ALL CLUMPS, STONES AND DEBRIS SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE. THE TOP 2 IN. OF THE SOIL SHALL BE RAKED PRIOR TO SEEDING WITHIN THE PLANTING AREAS.
- 11. PLUGS SHALL BE PLANTED AFTER MAY 1ST, WHEN FROST IS NO LONGER LIKELY, AT THE APPROPRIATE TIME AND CONDITIONS FOR SUCH PLANTINGS. HOLES FOR PLUGS SHALL BE AS DEEP AS OR SLIGHTLY DEEPER THAN THE PLUG ROOTS AND SOIL SHALL BE LIGHTLY PACKED AROUND THE ROOTS OF THE PLUG. THE SOIL SURFACE SHALL BE DAMP FOR THE FIRST TWO WEEKS FOLLOWING PLANTING; AS SUCH, WATERING MAY BE NECESSARY.
- 12. ALL TREES AND SHRUBS LESS THAN 6" CALIPER AND CONSIDERED UNDESIRABLE BY DETERMINATION OF PROJECT REPRESENTATIVE SHALL BE REMOVED WITHIN THE GRADED AREA OF PROPERTY. ALL STUMPS SHALL BE TREATED WITH HERBICIDE, WHICH IS NON-TOXIC TO ANIMAL AND AQUATIC LIFE, BY A CERTIFIED AND LICENSED PESTICIDE APPLICATOR, WHO SHALL APPLY THE HERBICIDE BY THE APPROPRIATE METHOD, TO PREVENT KILLING OF DESIRABLE NATIVE SPECIES.
- 13. ALL TREES WILL BE BETWEEN 2 IN. AND 3 IN. CALIPER AND ALL SHRUBS WILL BE A 5 GALLON MINIMUM. WOODY PLANT INSTALLATION WILL OCCUR PRIOR TO SEED INSTALLATION. HOLES FOR ALL TREES WILL BE TWO TIMES THE BALL WIDTH. HOLES FOR ALL SHRUBS SHALL BE DUG WITH A 6 IN. MINIMUM AROUND ALL SIDES OF THE BALL. THE BURLAP SHALL BE REMOVED FROM ALL BARE ROOT STOCK TREES AND SHRUBS, WHEREAS, IF BALLED AND BURLAPPED THE TWINE AROUND THE TRUNK SHALL BE REMOVED AND BURLAP MAY REMAIN. ALL TREES AND SHRUBS SHALL BE PLANTED IN THE PLUMB POSITION. NURSERY TAGS SHALL REMAIN ON ALL TREES AND SHRUBS FOR FUTURE IDENTIFICATION. WITHIN FIVE DAYS OF PLANTING, A MULCH SAUCER SHALL BE PLACED AROUND ALL TREES AND SHRUBS FOR
- 14. THE COVER CROP MATRIX WILL BE SEEDED AND MATTED WITH 100% BIODEGRADABLE SOIL EROSION CONTROL BLANKET THROUGHOUT THE STORMWATER DETENTION AREAS AND TEMPORARY IMPACT AREAS IMMEDIATELY AFTER PROJECT COMPLETION TO PREVENT EROSION. ALL SEEDING SHALL BE HAND BROADCAST AT TWICE THE DRILL SEED RATE. IF CONDITIONS ARE NOT CONDUCIVE FOR NATIVE SPECIES SEEDING, PERMANENT NATIVE SPECIES SHALL BE DORMANT SEEDED, OR SEEDED DURING THE FIRST AVAILABLE GROWING SEASON AT THE APPROPRIATE TIME AND CONDITIONS FOR SUCH PLANTINGS. THE SEED WILL BE LIGHTLY RAKED IN, ROLLED, AND WATERED.
- 15. WATER SHALL NOT BE AVAILABLE FROM THE DISTRICT AND ITS FACILITIES. ALL WATER SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE INCIDENTAL TO THE CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WATER ALL PLANTS UNTIL ESTABLISHMENT HAS BEEN ACHIEVED PER SPECIFICATIONS.
- 16. SEE LANDSCAPE DETAILS SHEET FOR ALL PLANTING DETAILS, SEED MIXES AND PLANT SCHEDULES.

KANE-Dupage soil and water conservation district (KDSWCD) notes:

- 1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, MOST RECENT VERSION.
- 2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 3. DURING DE-WATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS OR SILT BAGS.

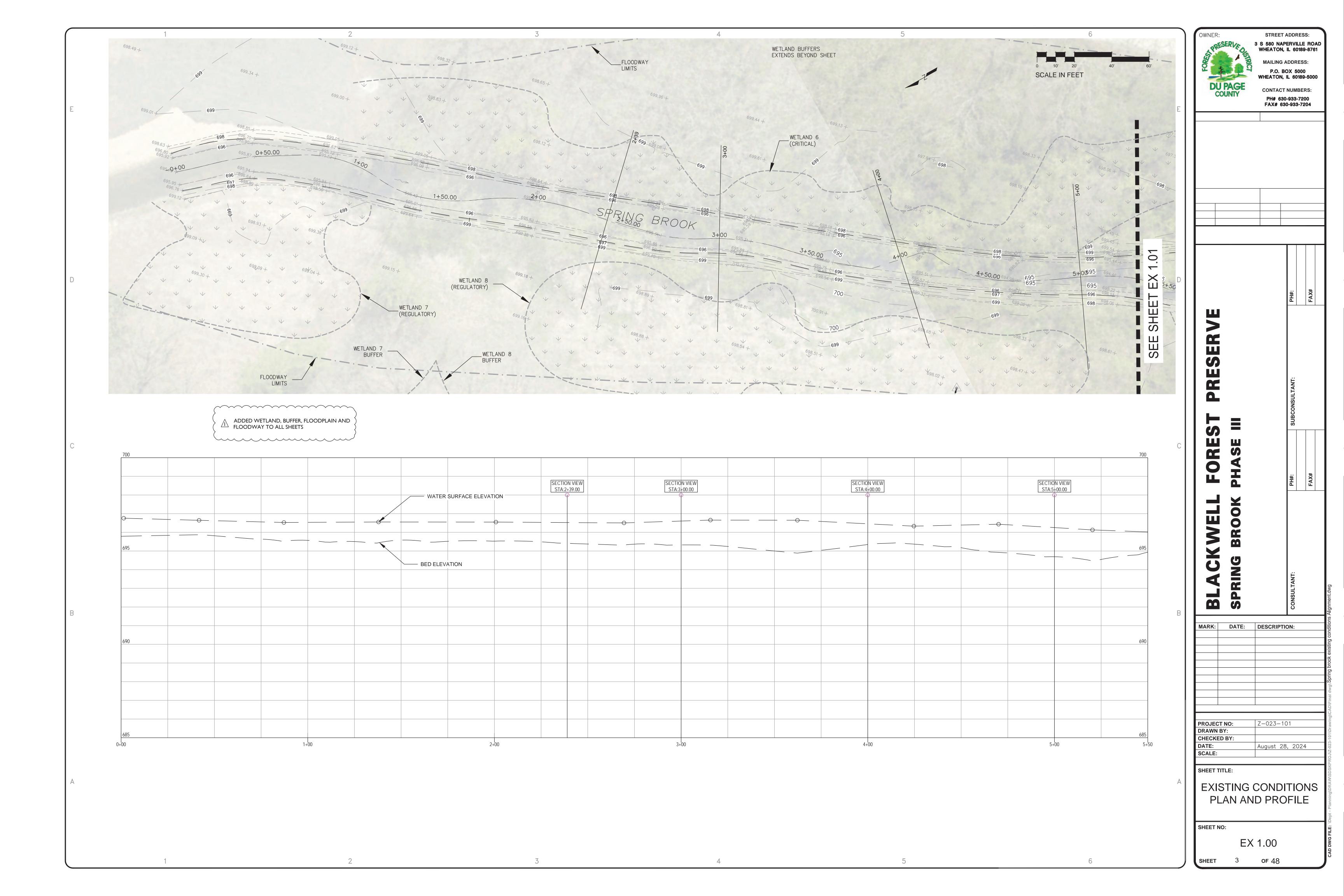
4. DE-WATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.

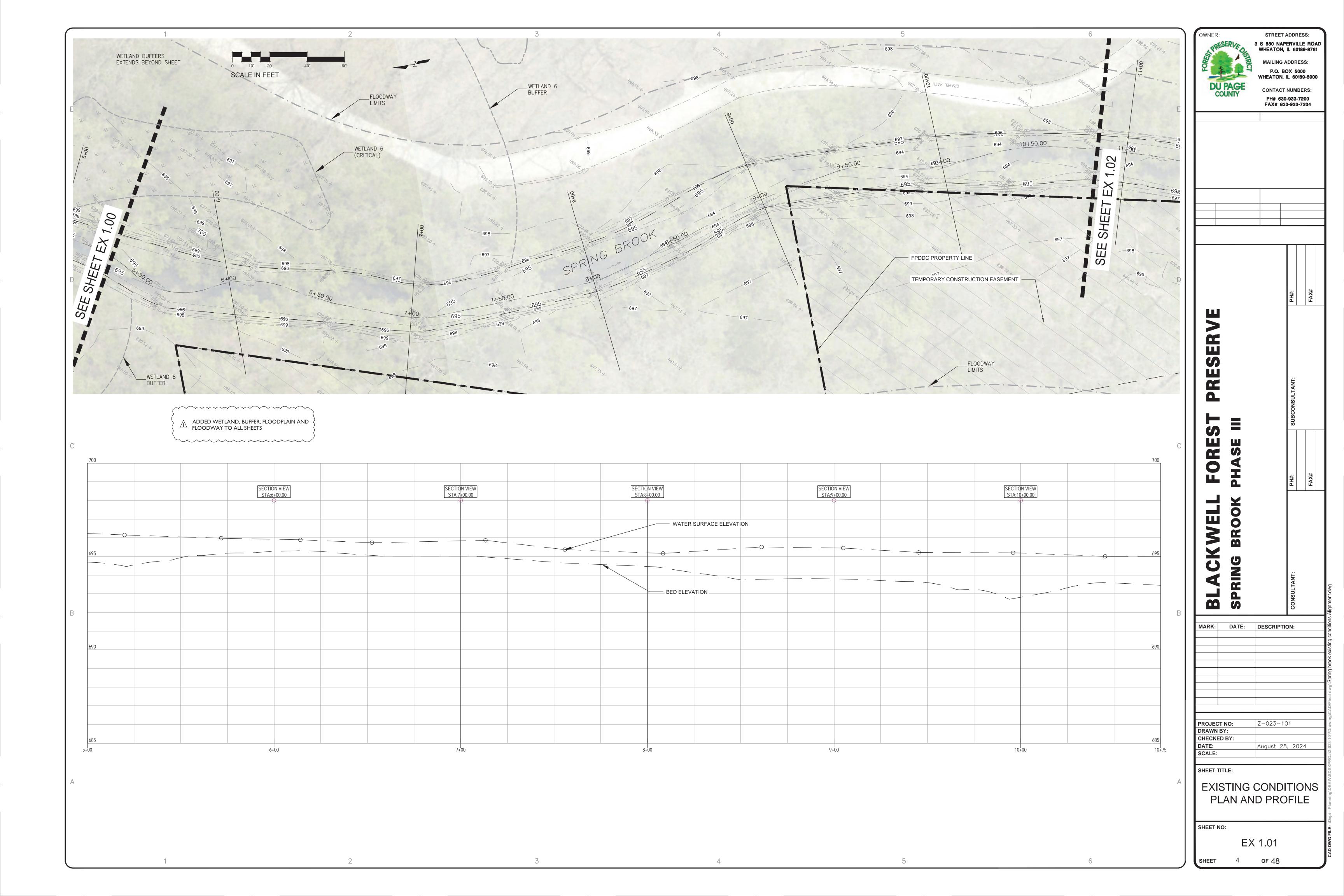
RESTORATION SEEDING NOTES 1. ALL LAYOUT TO BE PERFORMED BY THE CONTRACTOR AND MUST BE REVIEWED AND

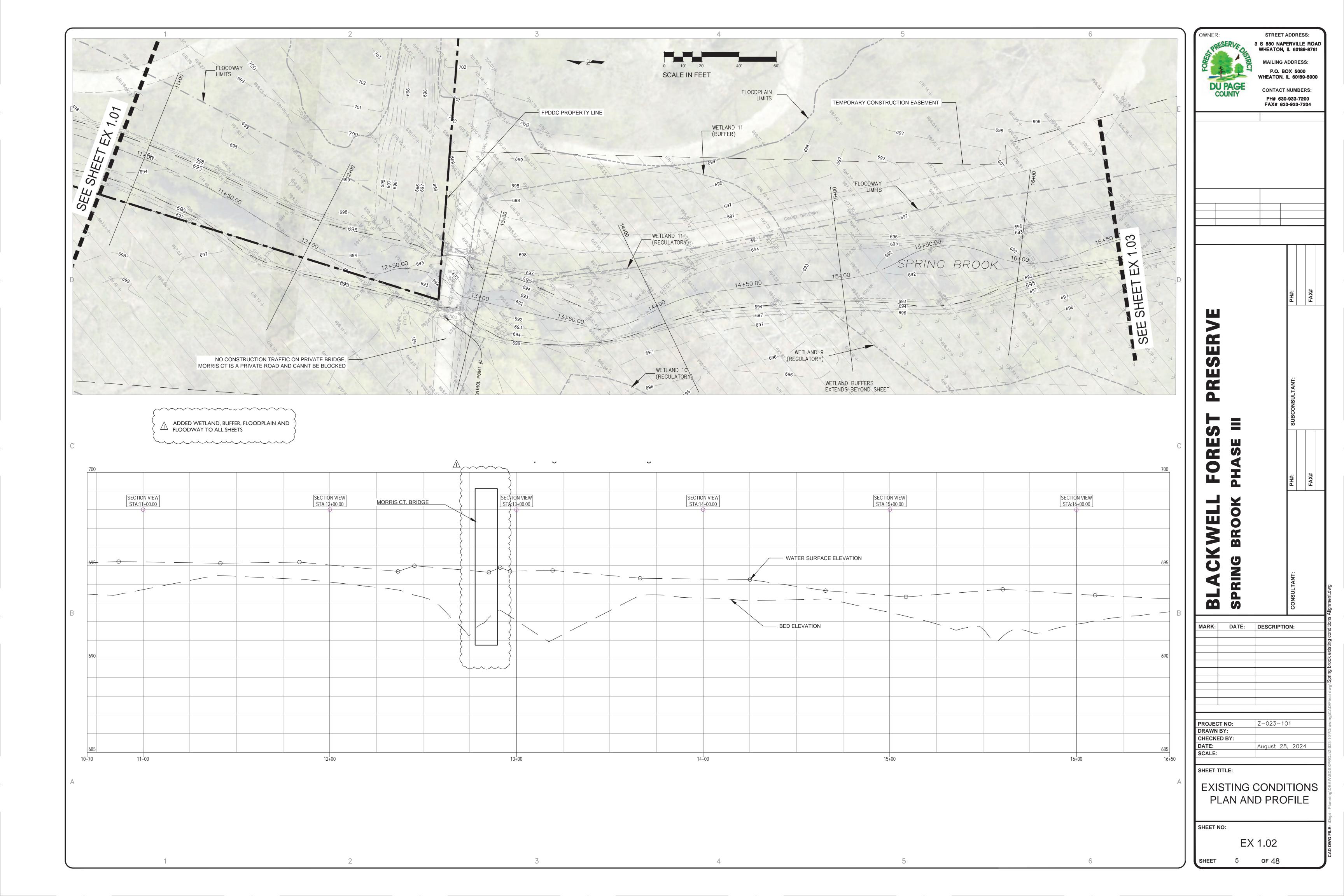
- APPROVED BY THE PROJECT REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION. 2. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ABOUT ANY DISCREPANCIES OR DEVIATIONS FROM THE PLANS IMMEDIATELY BEFORE WORK MAY PROCEED.
- SCHEDULE QUANTITIES ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES.
- 4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 6" TOPSOIL AND SPECIFIED SEEDING WITH MULCH METHOD 2, "PROCEDURE 2", UNLESS NOTED OTHERWISE. PROJECT REPRESENTATIVE MUST APPROVE ALL AREAS PRIOR TO BEING SEEDED.
- 5. ALL SEEDING SPECIFICATIONS SHALL FOLLOW SECTION 250 OF IDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION CURRENT EDITION UNLESS NOTED
- OTHERWISE IN SPECIAL PROVISIONS OR BELOW. ALL PROPOSED SEEDING AREAS NOT DISTURBED BY EXCAVATION ACTIVITIES SHALL BE PREPARED BY MOWING, HERBICIDING, TILLING & FINE GRADING PRIOR TO SEEDING. (SEE
- SPECIAL PROVISIONS) 7. ALL SLOPES REQUIRING EROSION CONTROL BLANKET SHALL BE BLANKETED WITH MATERIALS MEETING THE SPECIFICATIONS OF NORTH AMERICAN GREEN S75BN, BE SECURED USING BIODEGRADABLE ECOSTAKES, AND MUST BE APPROVED BY THE PROJECT
- REPRESENTATIVE PRIOR TO INSTALLATION. 8. SEE SPECIAL PROVISIONS FOR NATIVE SEED MIX SPECIFICATIONS.

STREET ADDRESS: 3 S 580 NAPERVILLE ROA WHEATON, IL 60189-8761 **MAILING ADDRESS:** P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204

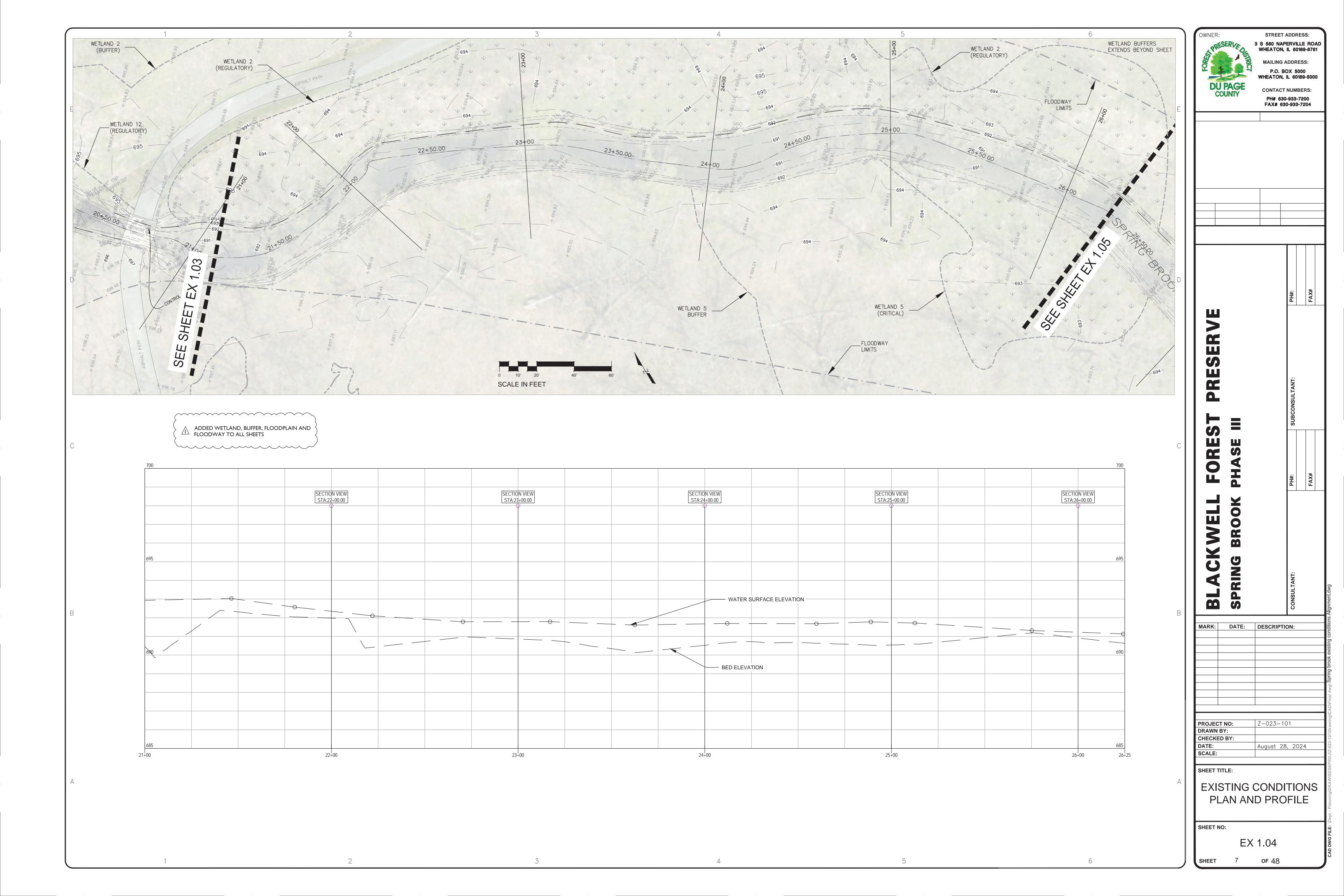
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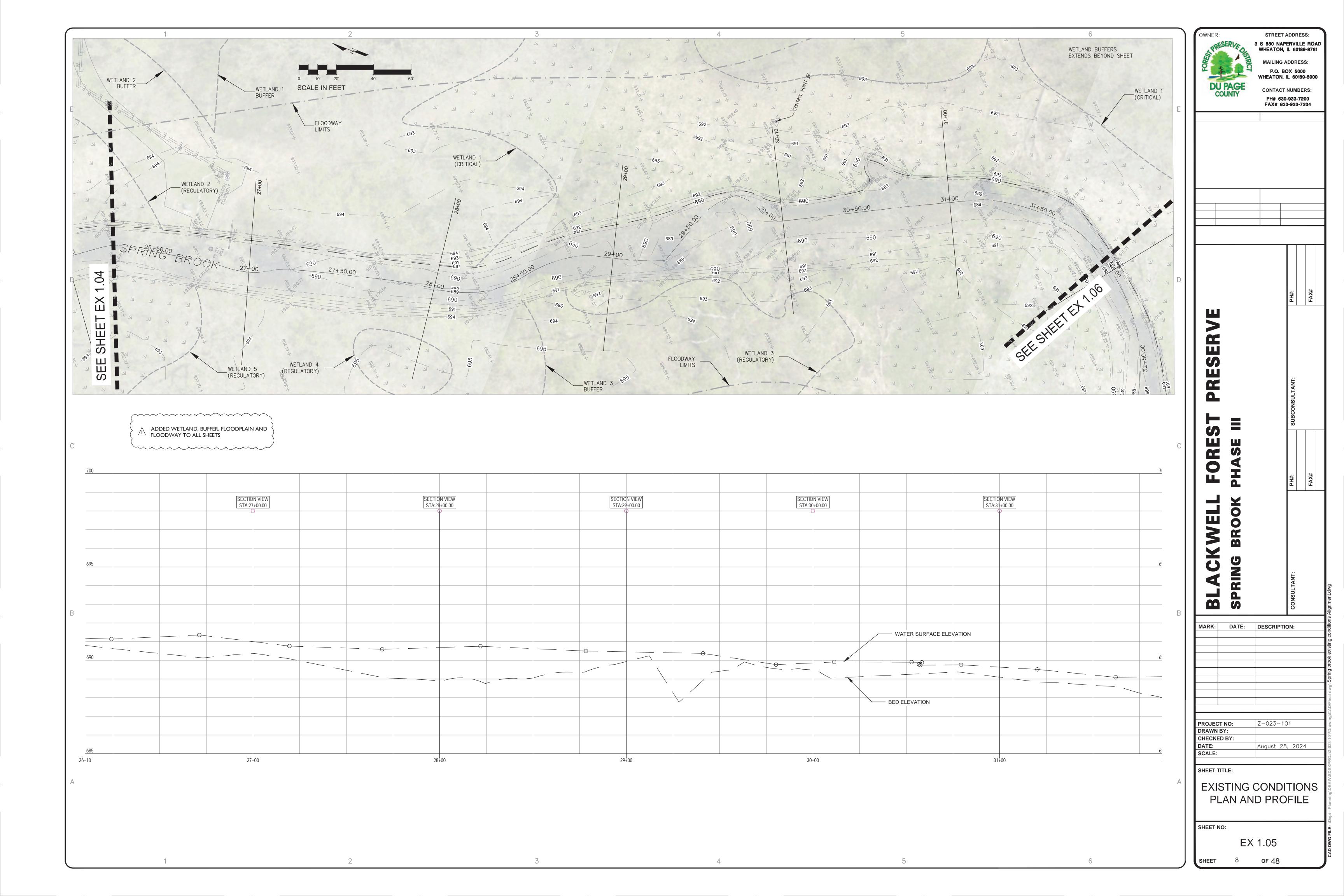


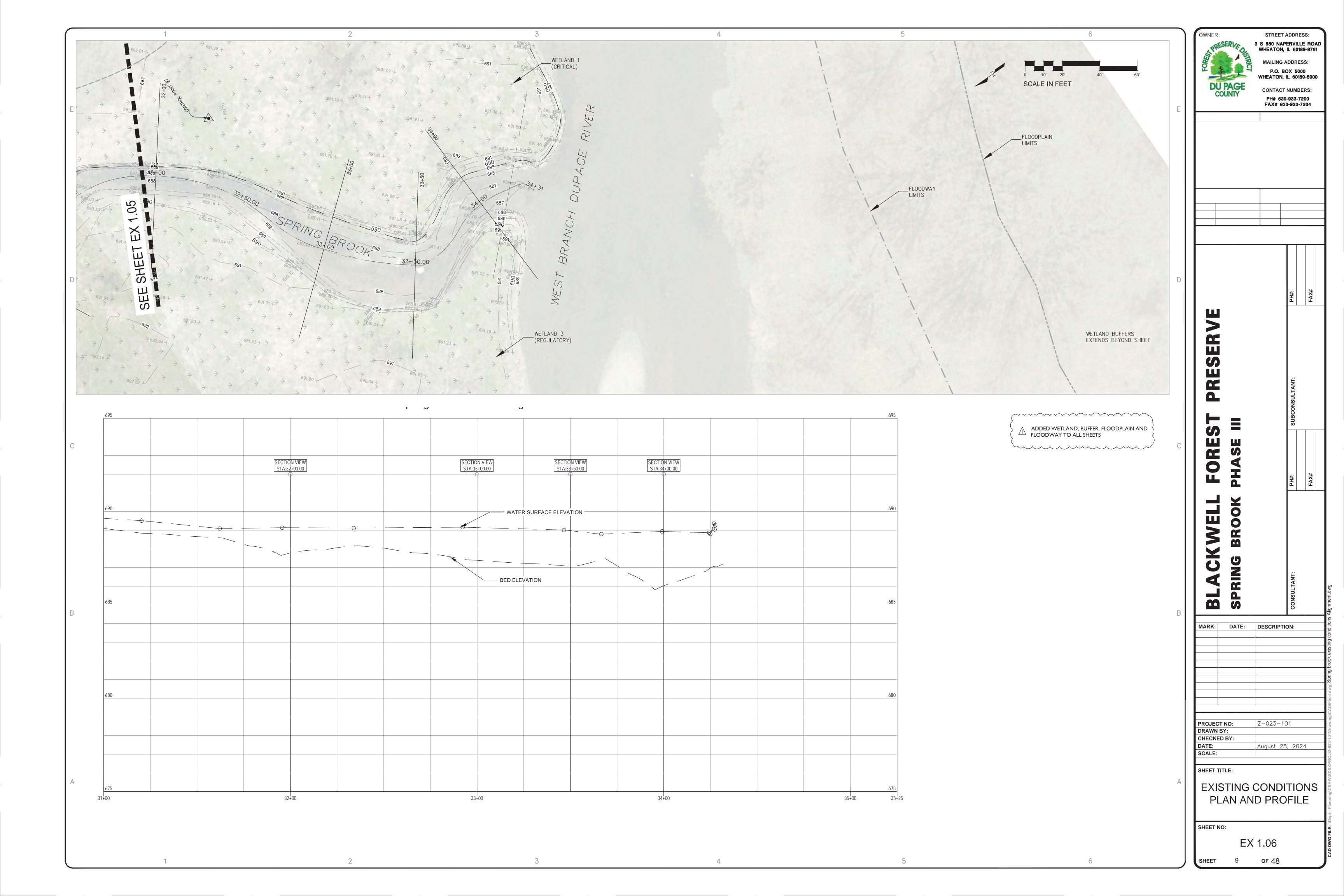


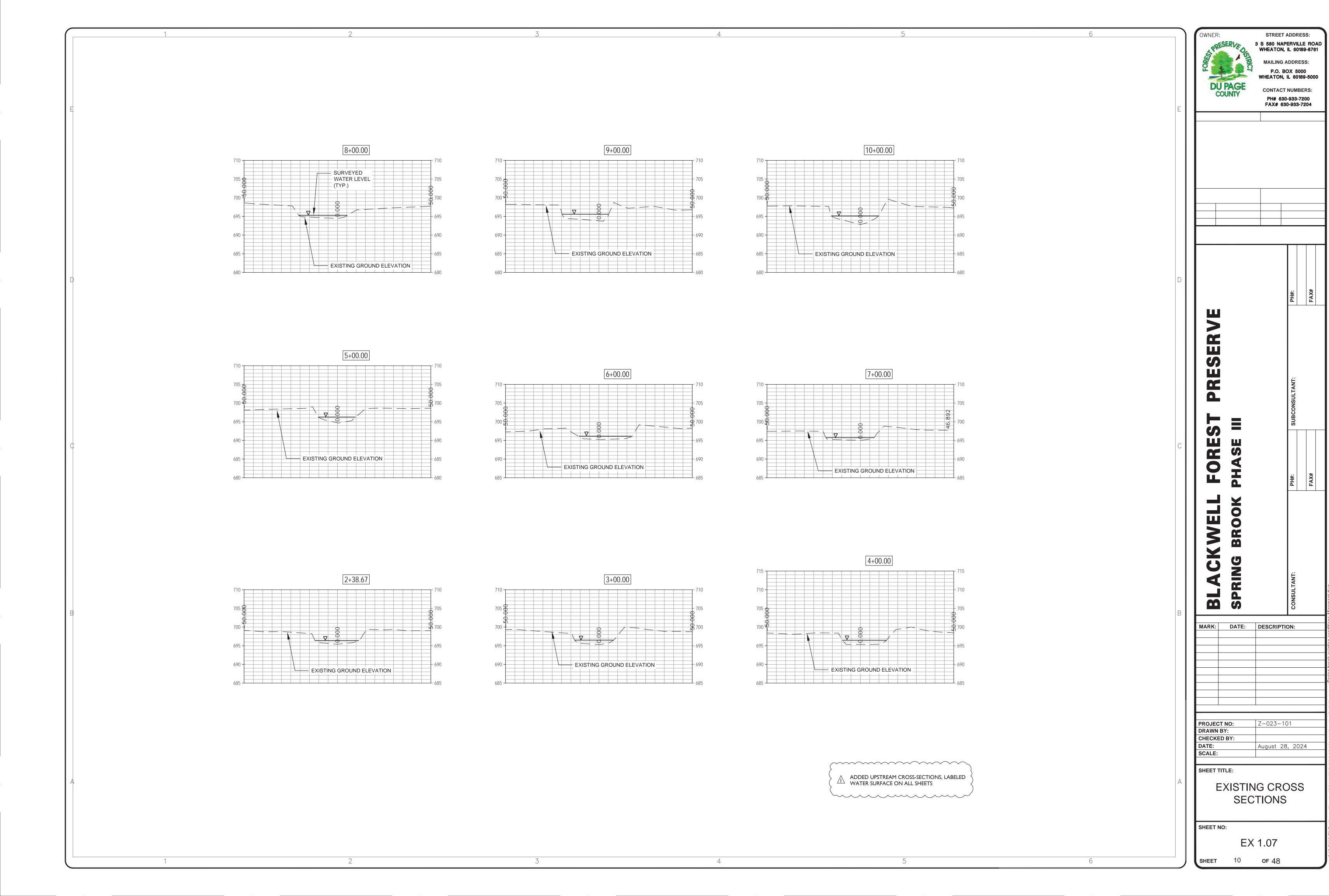


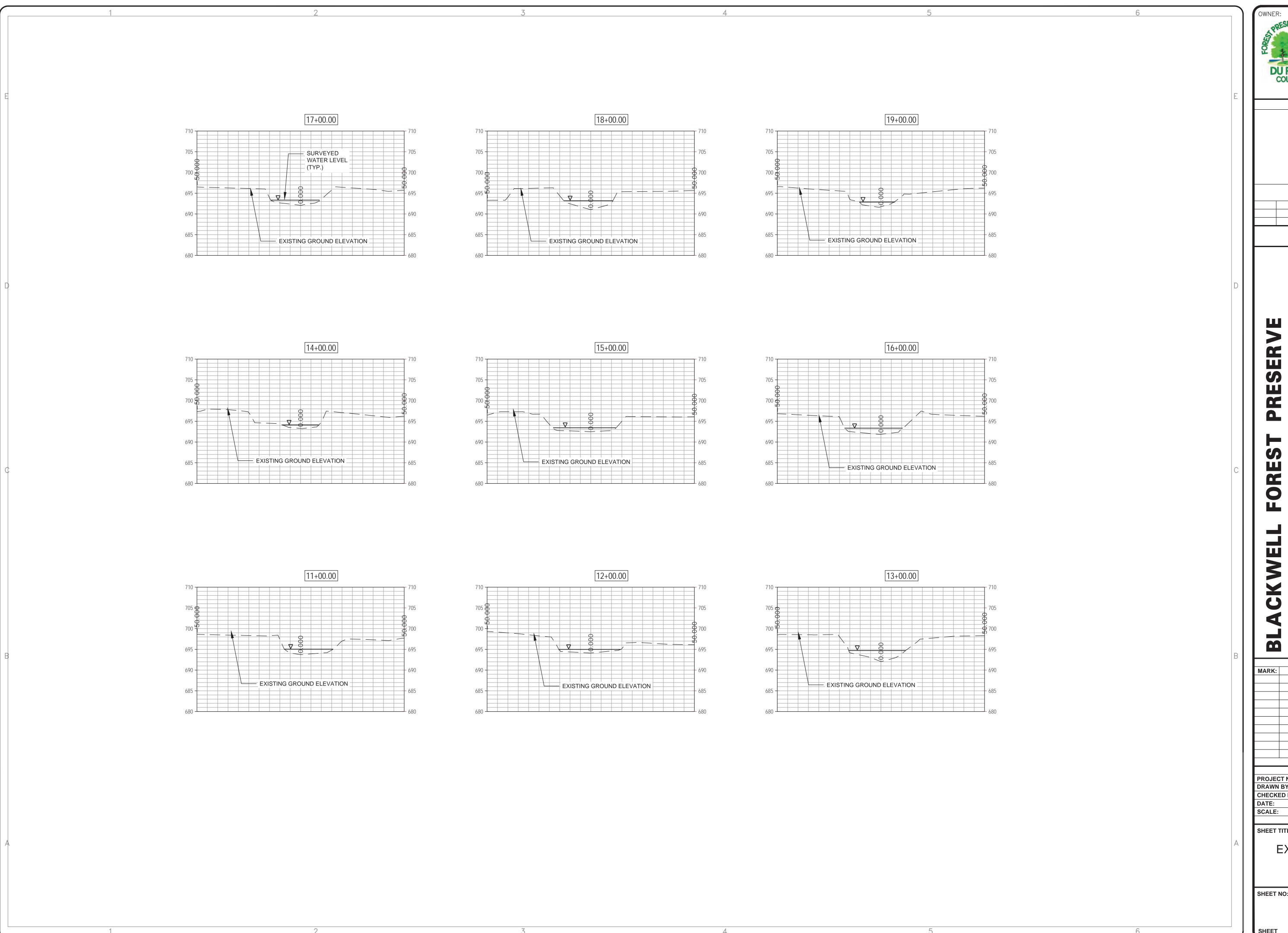








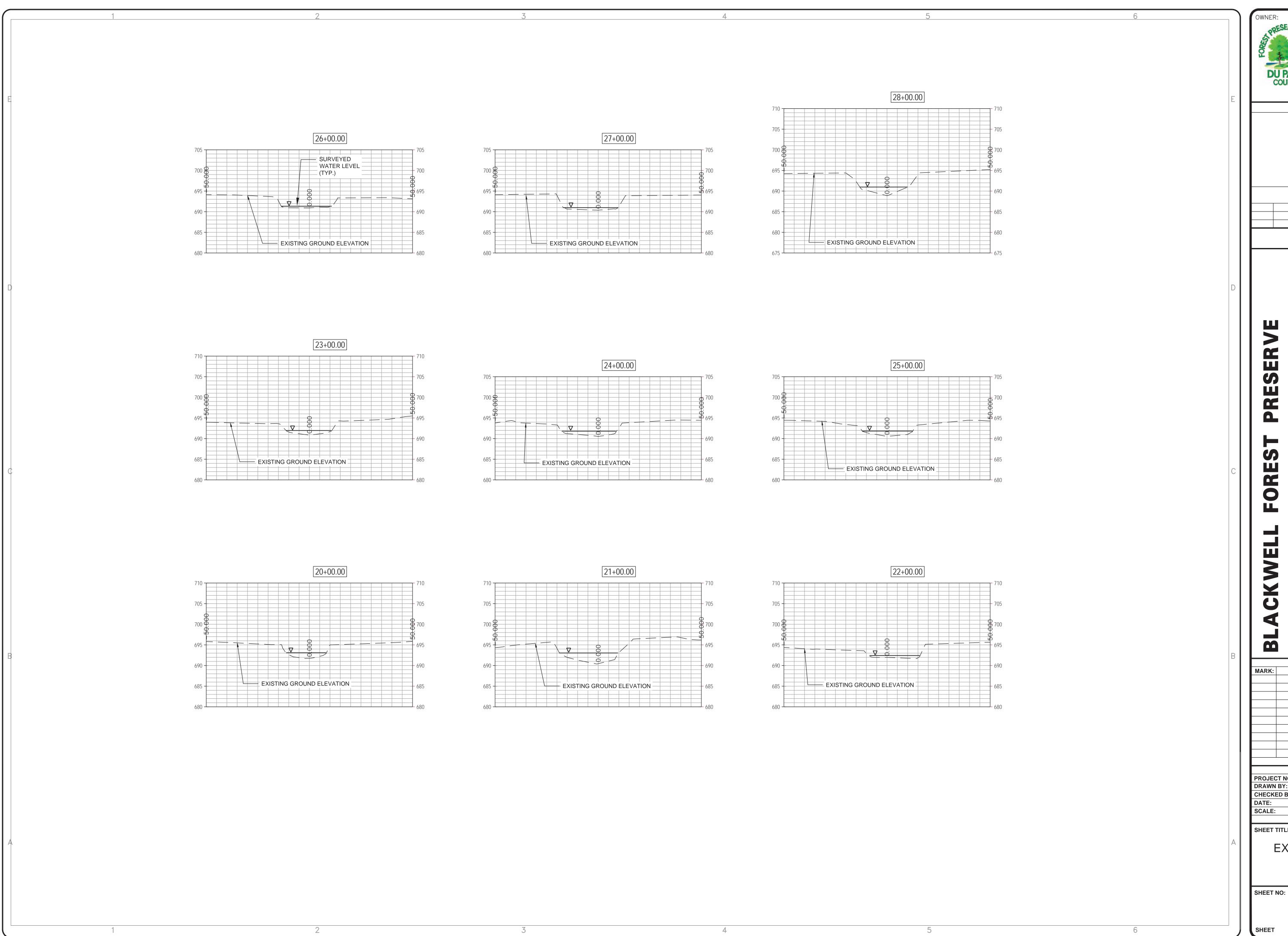




DU PAGE COUNTY	3 S 580 NAI WHEATON, MAILING P.O. E WHEATON, CONTACT PH# 63 FAX# 63	IL 6016 ADDRE BOX 506 IL 6018 NUMB 0-933-7	39-8761 SS: 00 39-5000 ERS:
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ST PRESERVE		SUBCONSULTANT:	
L FOREST K PHASE III		PH#:	FAX#
BLACK WELI SPRING BROOK		CONSULTANT:	
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EX 1.08

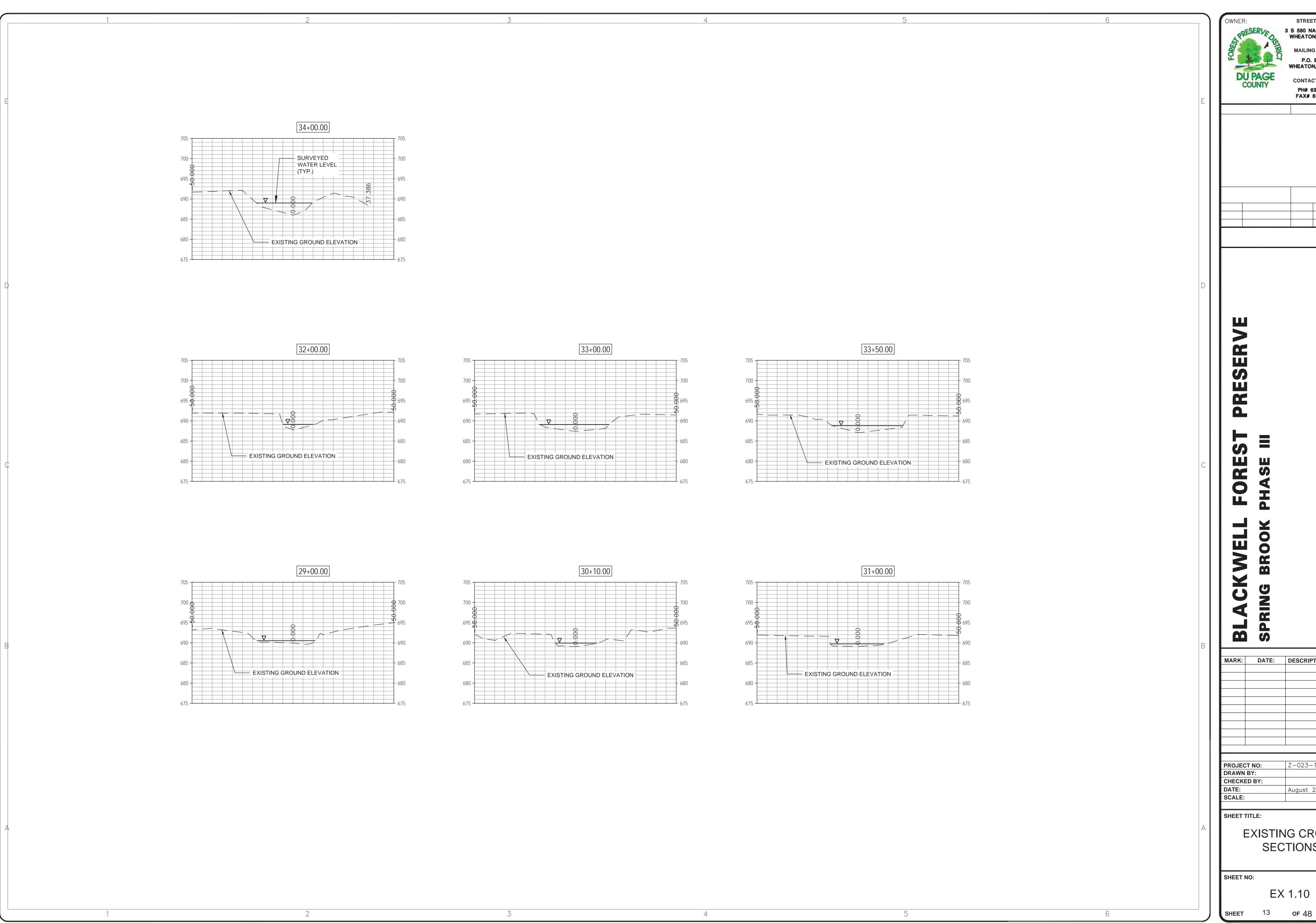
STREET ADDRESS:



3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 MAILING ADDRESS: P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 MARK: DATE: DESCRIPTION: Z-023-101 PROJECT NO: DRAWN BY: CHECKED BY: August 28, 2024 SHEET TITLE: **EXISTING CROSS** SECTIONS SHEET NO:

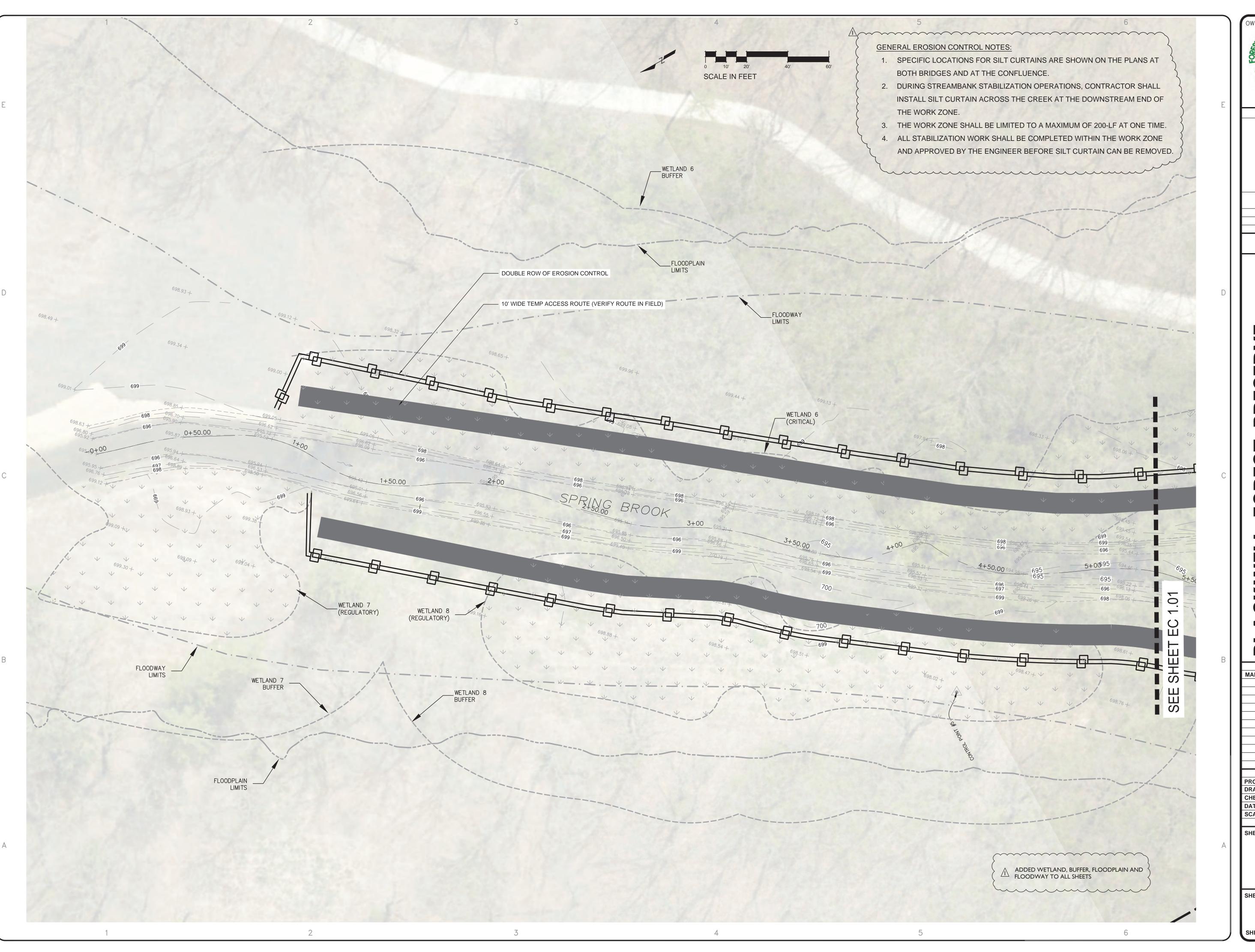
EX 1.09

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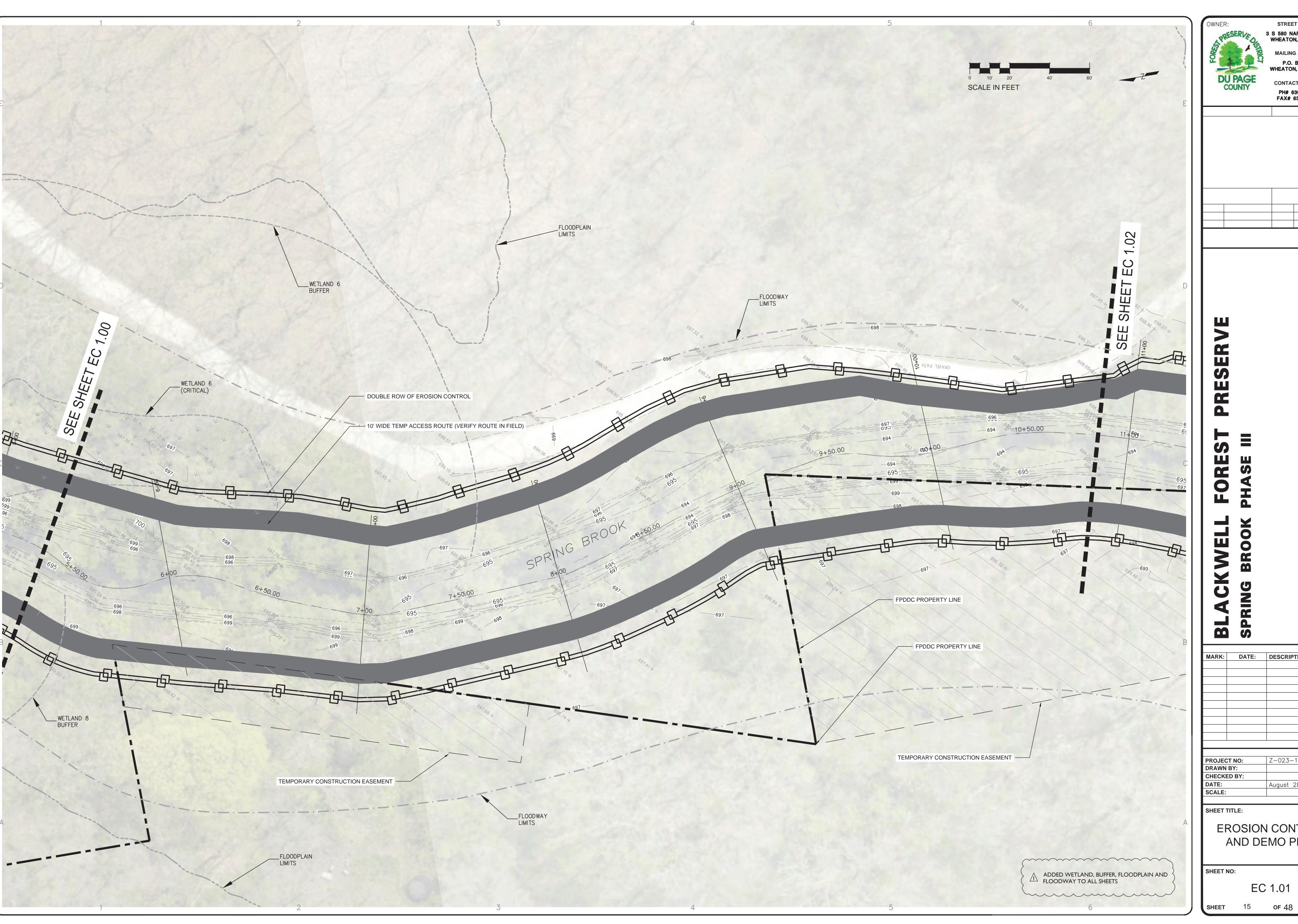


STREET ADDRESS: 3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 MAILING ADDRESS: P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 MARK: DATE: DESCRIPTION: PROJECT NO: DRAWN BY: Z-023-101 CHECKED BY: August 28, 2024 SHEET TITLE: **EXISTING CROSS** SECTIONS

EX 1.10



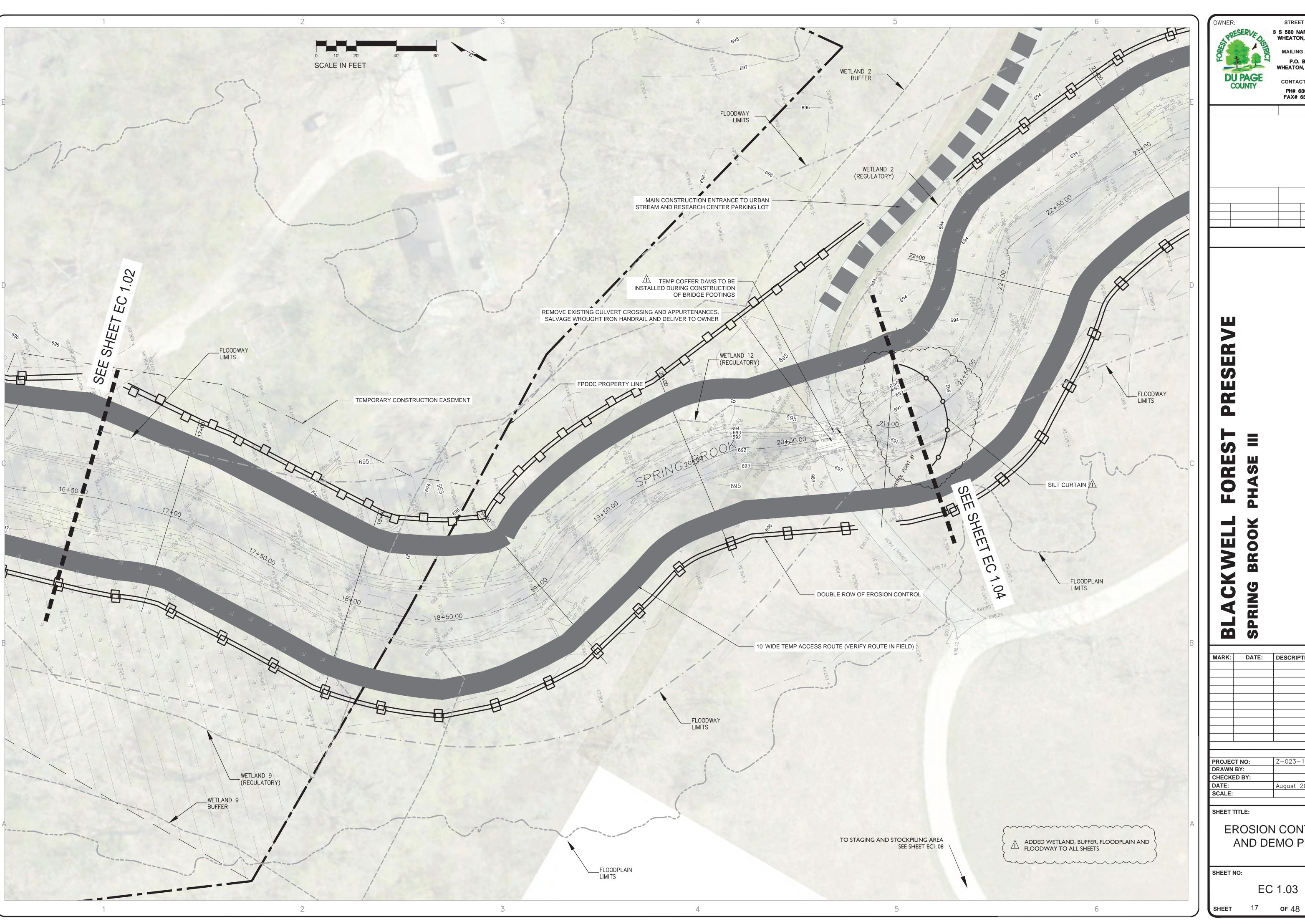
E	DU PAGE COUNTY	STREET A S 580 NAP WHEATON, MAILING A P.O. BO WHEATON, CONTACT PH# 630 FAX# 630	ERVILLE IL 60189 ADDRESS DX 5000 IL 60189 NUMBEI -933-720	ROAD 9-8761 S: 0-5000 RS:		
D			PH#:	FAX#		
C	FOREST PRESERVE		SUBCONSULTANT:			
			PH#:	FAX#		
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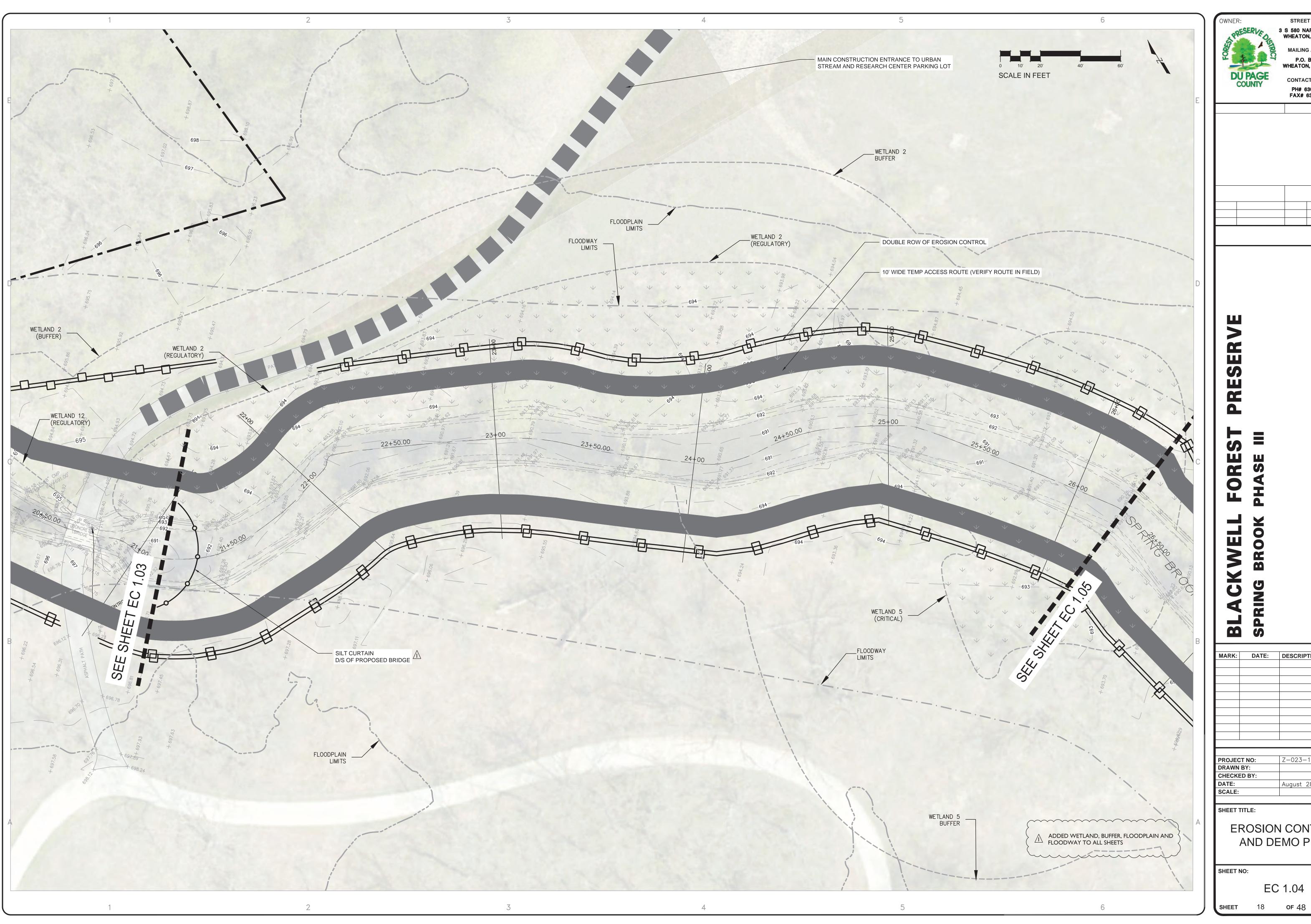
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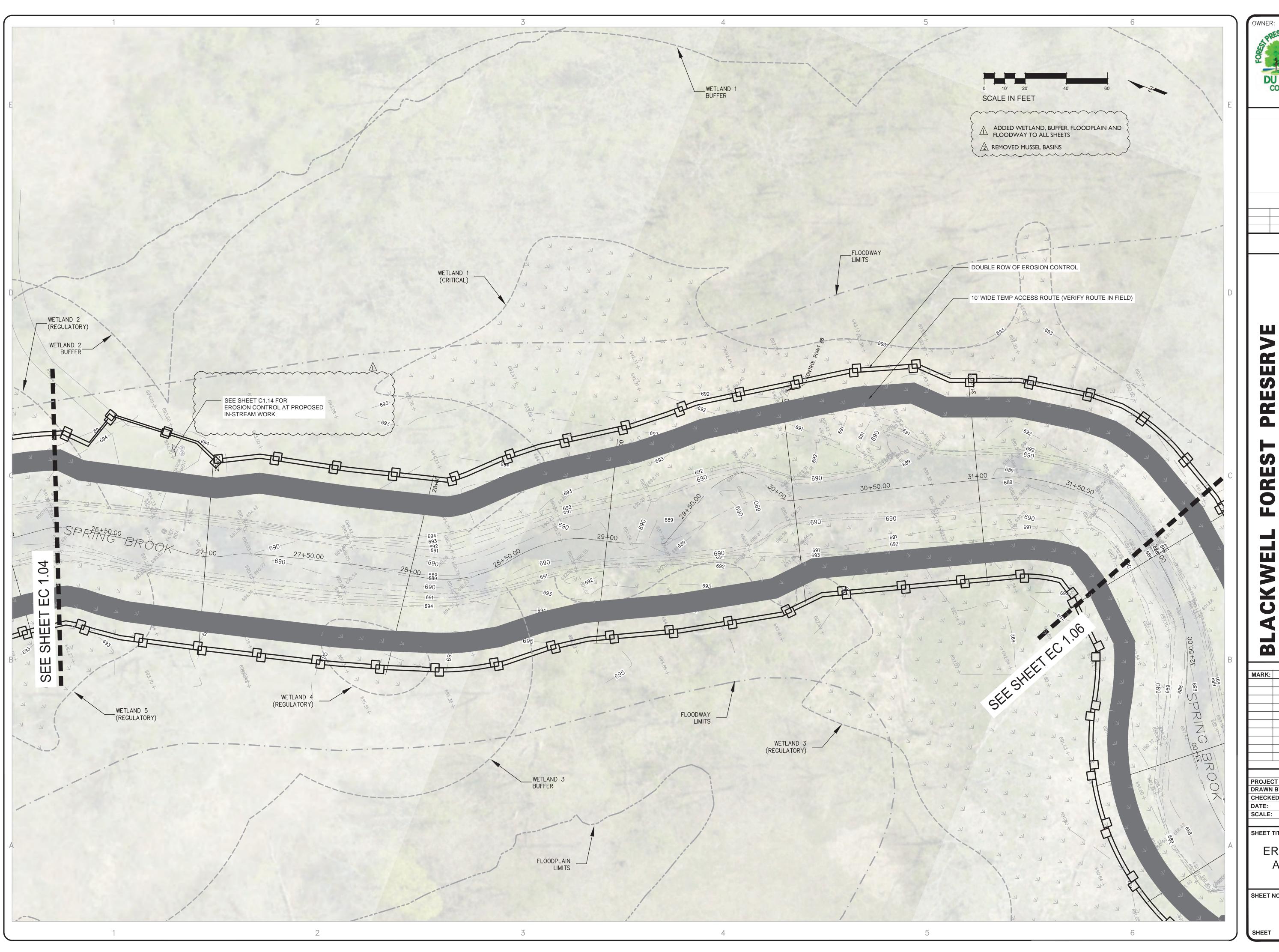


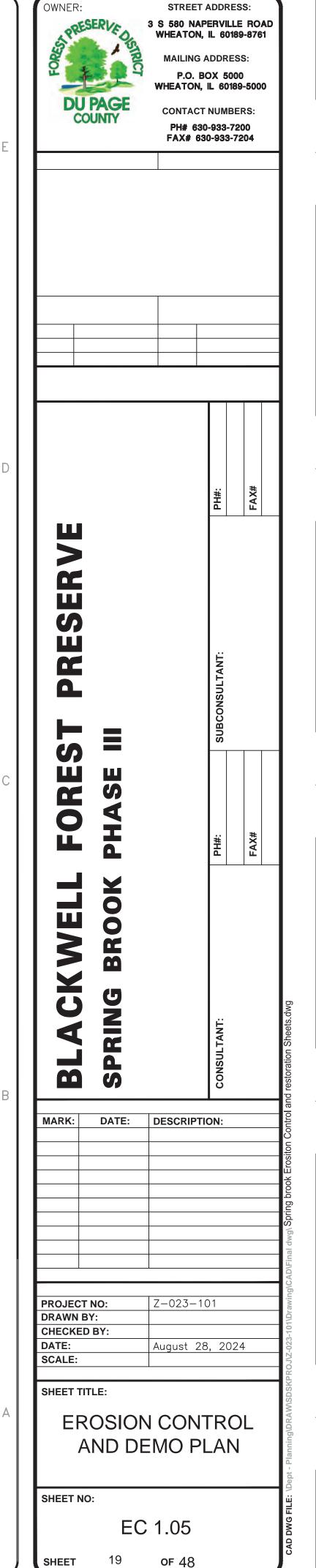


OWNER: DU PAGE COUNTY	STREET. 3 S 580 NAP WHEATON, MAILING A P.O. B WHEATON, CONTACT PH# 630 FAX# 63	ERVILL IL 6016 ADDRE OX 500 IL 6018 NUMB	E ROAI 89-8761 SS: 00 89-5000 ERS:	
		PH#:	FAX#	
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L FOREST K PHASE III		- PH#:	FAX#	
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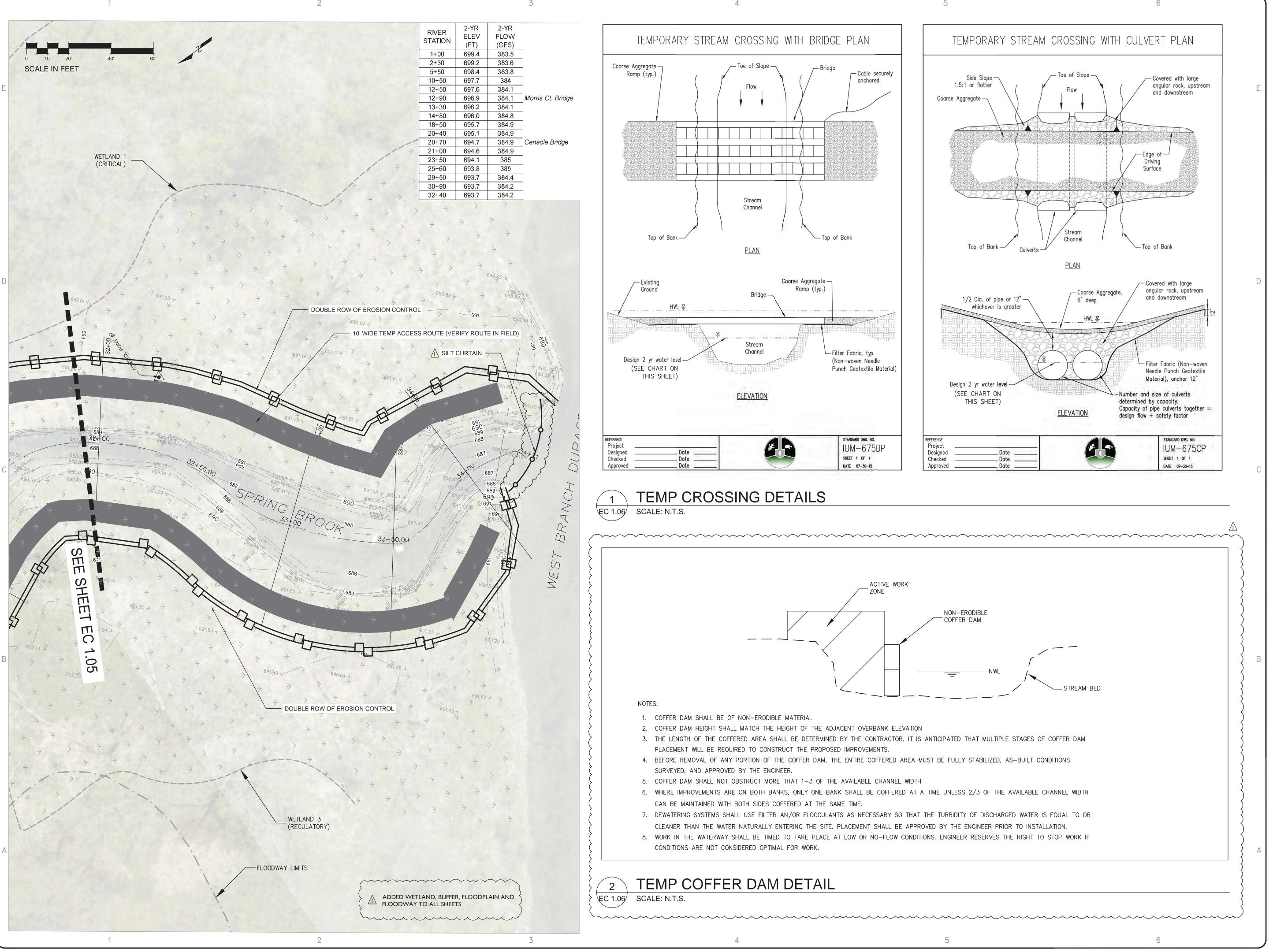


DU PAGE COUNTY	OWNER: STREET A 3 S 580 NAPE WHEATON, II MAILING AI P.O. BO WHEATON, IL CONTACT N PH# 630- FAX# 630-		
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FOREST PHASE III		PH#:	FAX#
BLACKWELL SPRING BROOK		CONSULTANT:	
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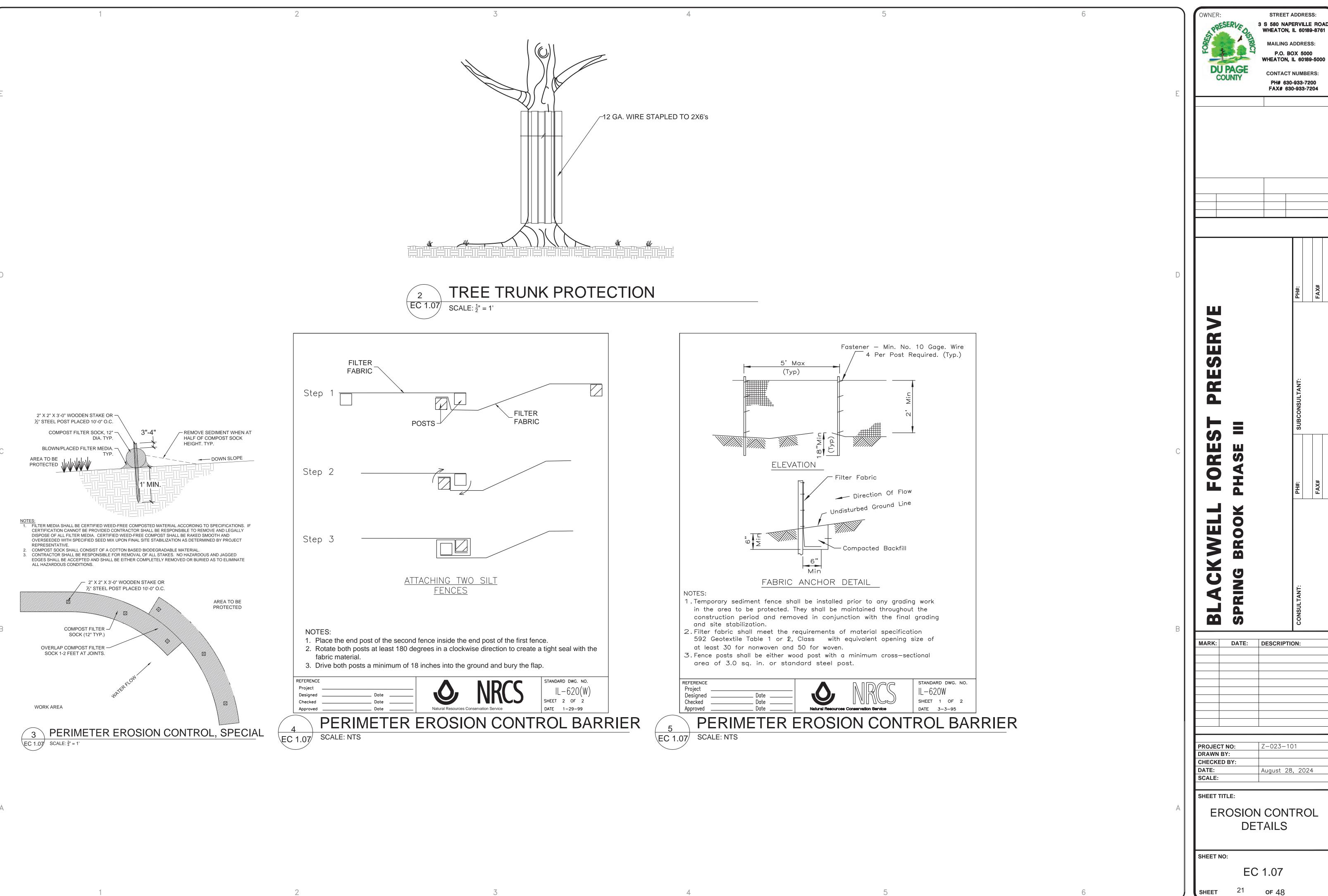


of 48



STREET ADDRESS: 3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 **MAILING ADDRESS:** P.O. BOX 5000 **WHEATON, IL 60189-5000 CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 Ш 5 MARK: DATE: DESCRIPTION: PROJECT NO: Z-023-101 DRAWN BY: CHECKED BY: August 28, 2024 SCALE: SHEET TITLE: **EROSION CONTROL** AND DEMO PLAN

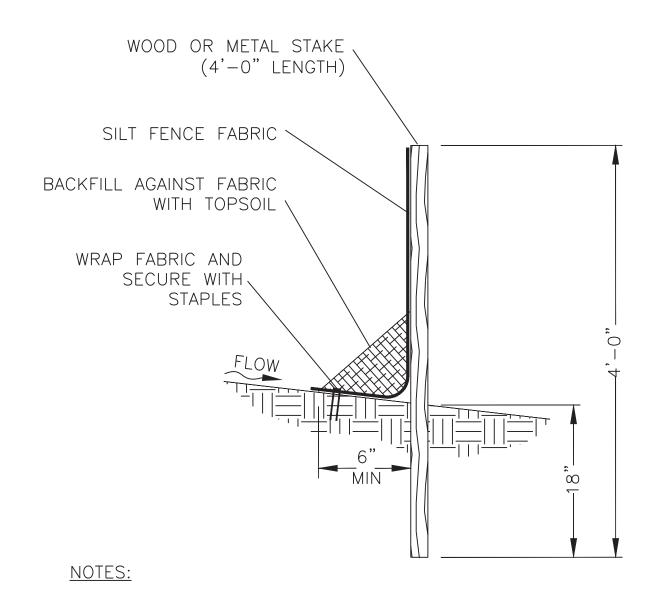
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MAILING ADDRESS: P.O. BOX 5000 **WHEATON, IL 60189-5000 CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 MARK: DATE: DESCRIPTION:

Z-023-101

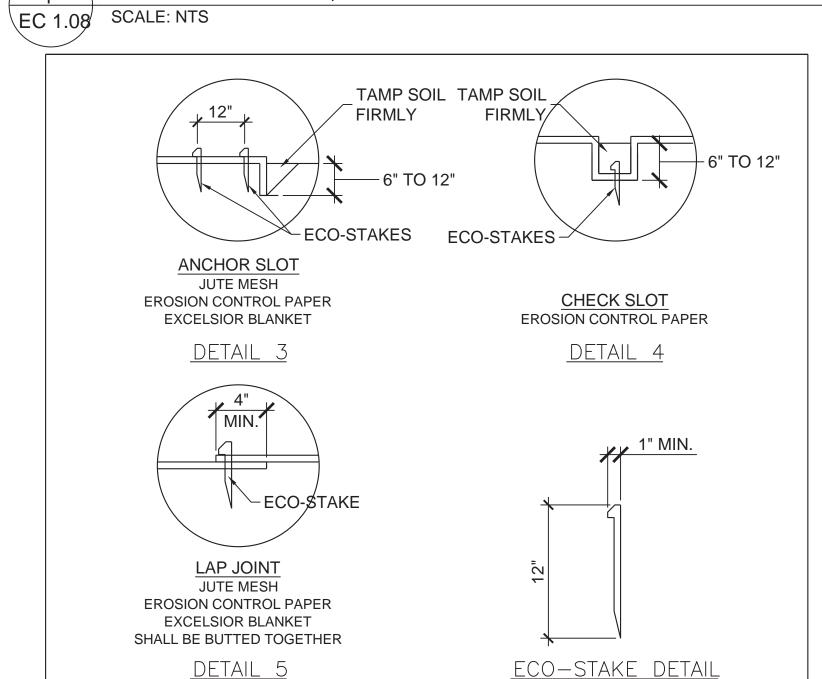
EROSION CONTROL DETAILS



1. SPECIAL SECTION DETAIL APPLIES TO THOSE AREAS WHERE TRENCHING WOULD HAVE A DETRIMENTAL IMPACT ON TREES IN THE VICINITY. USE AS DIRECTED BY ENGINEER.

- 2. CONTRACTOR SHALL INSPECT AND REPAIR SILT FENCE AT REGULAR INTERVALS. SILT FENCE SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 3. FENCE POST SPACING CAN BE INCREASED TO A MAXIMUM OF 8 FEET WHEN WIRE OR OTHER FORM OF APPROVED BACKING IS USED.

SILT FENCE, SPECIAL



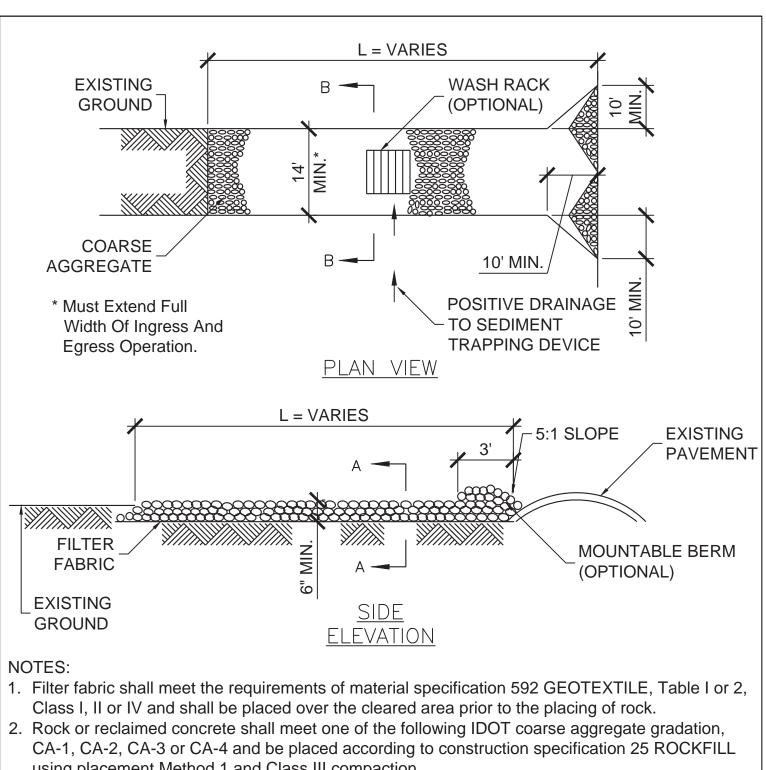
NOTES:

- 1. On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
- 2. Stakes are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 stakes are required per 4' x 225' roll of material and 125 stakes are required per 4' x 150' roll of material.
- 3. Erosion control material shall be placed loosely over ground surface. Do not stretch. 4. All terminal ends and transverse laps shall be staked at approximately 12" intervals.

STANDARD DWG. NO. IL - 530SHEET 2 OF 2 DATE 3-1-95

EROSION CONTROL BLANKET

EC 1.08/ SCALE: NTS

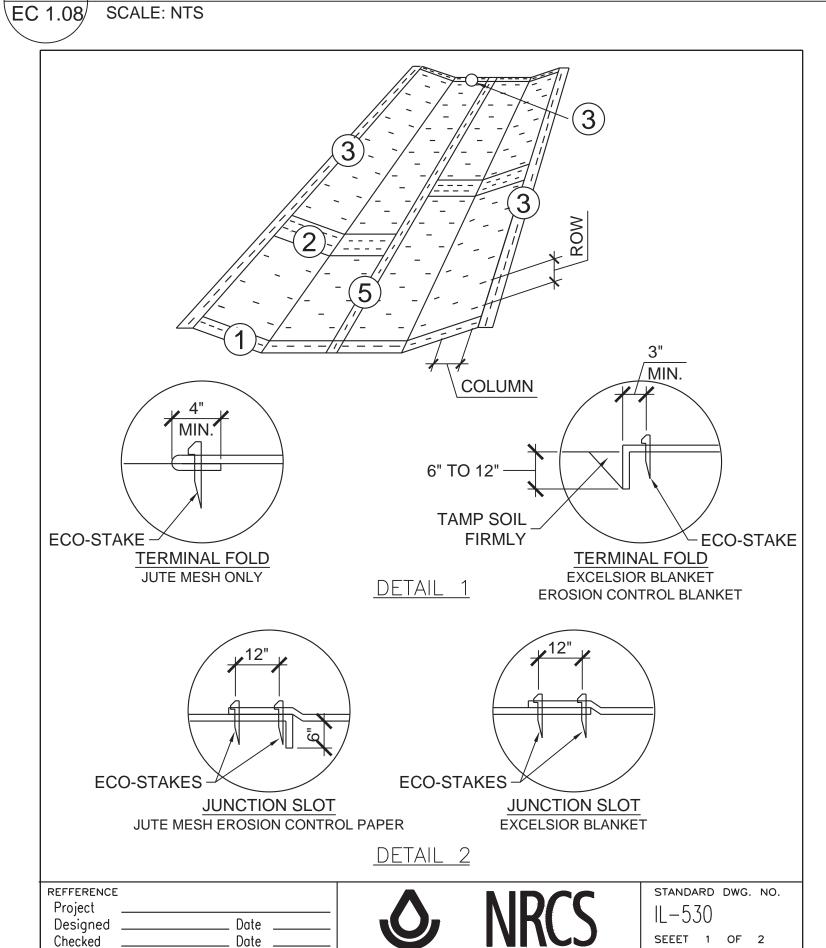


using placement Method 1 and Class III compaction.

. Any drainage facilities required because of washing shall be constructed according to

. II wasii facks are useu, triey shali be	e iristalleu accor	ding to the manufacture	i s specifications.
FERENCE		NIDCC	STANDARD DWG.
roject		NIDCC	LI C70

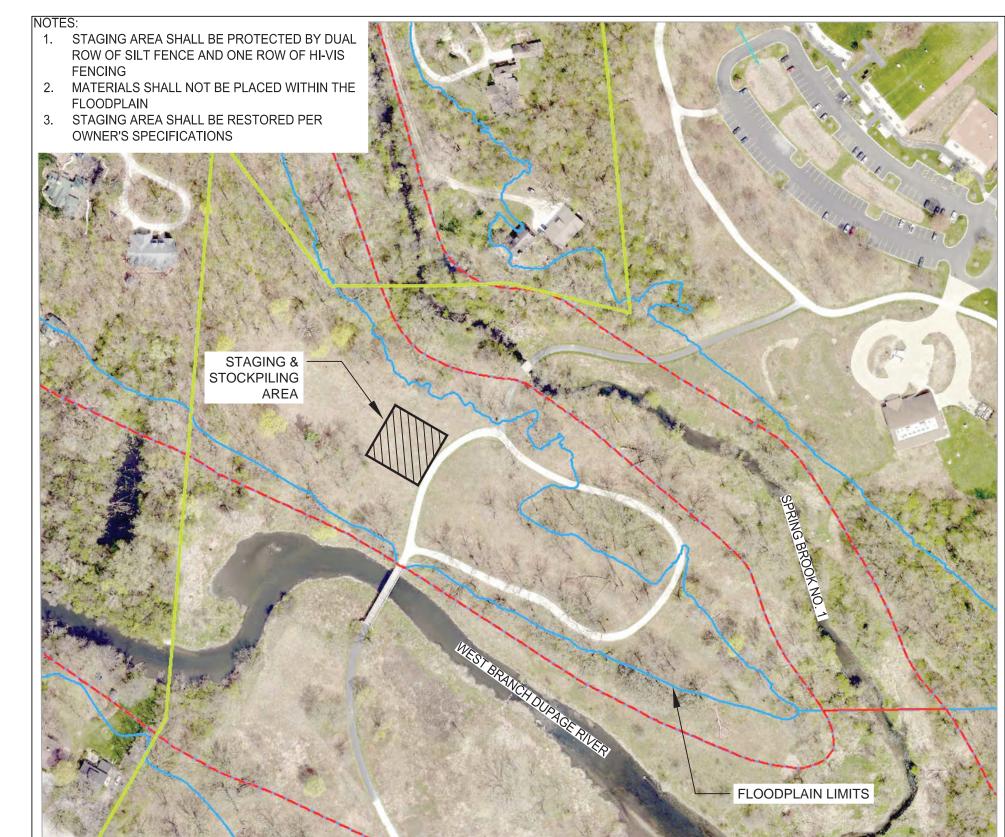
STABILIZED CONSTRUCTION ACCESS



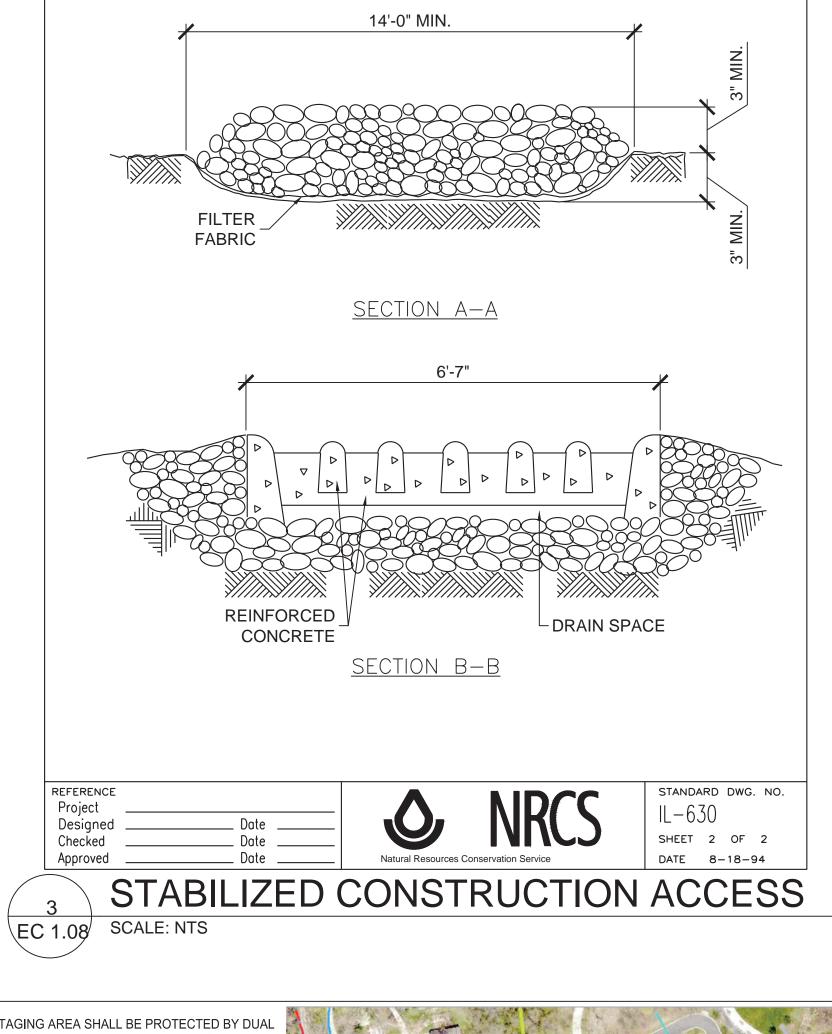
EROSION CONTROL BLANKET

EC 1.08 SCALE: NTS

DATE 5-24-94







MAILING ADDRESS: P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204

STREET ADDRESS: 3 S 580 NAPERVILLE ROAL WHEATON, IL 60189-8761

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EROSION CONTROL DETAILS

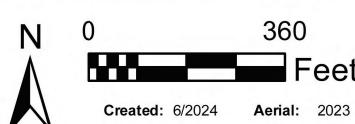
SHEET NO:

EC 1.08

WOODY REMOVAL LIMITS AND REMOVALS ALONG PRIVATE DRIVE TO BE VERIFIED IN FIELD WITH OWNER Restoration Limits Blackwell FP

Spring Brook No. 1 - Phase 3

Woody removal units Forest Preserve Boundary



WOODY REMOVAL MAP EC 1.09 SCALE: N.T.S.

Scientific Name	CommonName	Remove	Prescription
Acer negundo	Boxelder	no	
Acer saccharinum	Silvermaple	no	
Carya spp.	Hickories	no	•
Cratagus spp.	Hawthorns	no	
Liglans nigra	Blackwalnut	no	
Pinus strobus	White pine	no	
Plantanus occidentalis	Sycamore	no	
Populus deltoides	Eastern cottonwood	no	
Prunus serotina	Wildblackcherry	no	
Quercus spp.	Oaks	no	•
Ribes spp.	Gooseberries and currants	no	•
Sambucus canadensis	Common elderberry	no	
Ulmusamericana	American elm	no	
	Any remaining native species	по	
Acer platanoides	Amur maple	yes	all
Morus alba	White mulberry	yes	all
Robinia pseudoacacia	Blacklocust	yes	all
Ulmus pumila	Sberianelm	yes	all
	Any remaining non-native species	yes	all
	Dead snags	yes	all, except as marked by Forest Preserve staff
	Downed wood	yes	all, except as marked by Forest Preserve staff

Scientific Name	Common Name	Remove	Prescription
Carya spp.	Hickories	no	
Cercis canadensis	Redbud	no	
Celtis occidentalis	Hackberry	no	
Cornus obliqua	Silky dogwood	no	
Cratagus spp.	Hawthorns	no	
Liglansnigra	Blackwalnut	no	
Plantanus occidentalis	Sycamore	no	
Populus deltoides	Eastern cottonwood	no	
Quercus spp.	Oaks	no	
Sambucus canadensis	Common elderberry	no	
Staphylea trifoliata	Bladdernut	no	
Tilia americana	American linden	no	
Ulmus americana	American elm	no	
	Any remaining native species	no	
Ulmus americana	American elm	no	
Acer negundo	Boxelder	yes	all
Acer platanoides	Amur maple	yes	all
Alnus glutinosa	Blackalder	yes	all
Cornus drummondii	Rough-leaved dogwood	yes	all
Gleditsia tricanthos	Honeylocust	yes	all
Morus alba	White mulberry	yes	all
Prunus serotina	Wild black cherry	yes	all
Robinia pseudoacacia	Blacklocust	yes	all
Ulmus pumila	Siberianelm	yes	all
	Any remaining non-native species	yes	all
	Dead snags	yes	all, except as marked by Forest Preserve staff
	Downed wood	yes	all, except as marked by Forest Preserve staff

Scientific Name	Common Name	Remove	Prescription
Carya spp.	Hickories	no	
Quercus spp.	Oaks	no	
Viburnum prunifolium	Blackhaw	no	
	native species	no	
Acer negundo	Boxelder	yes	<6' dbh
Morus alba	White mulberry	yes	all
Prunus serotina	Wild black cherry	yes	<6" dbh
Ulmus americana	American elm	yes	<6" dbh
	Any remaining non-		
	native species	yes	all
			all, except as marked
			by Forest Preserve
	Dead snags	yes	staff
			all, except as marked
			by Forest Preserve
	Downed wood	yes	staff

AREA4		
Common Name	Remove	Prescription
Any trees and shrubs necessary		
for haul road construction	yes	all
		all, except as marked by
Dead snags	yes	Forest Preserve staff
		all, except as marked by
Downed wood	yes	Forest Preserve staff



*NOTE: THIS WORK IS NOT IN THIS CONTRACT

STREET ADDRESS: 3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 **MAILING ADDRESS:** P.O. BOX 5000 **WHEATON, IL 60189-5000 CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204

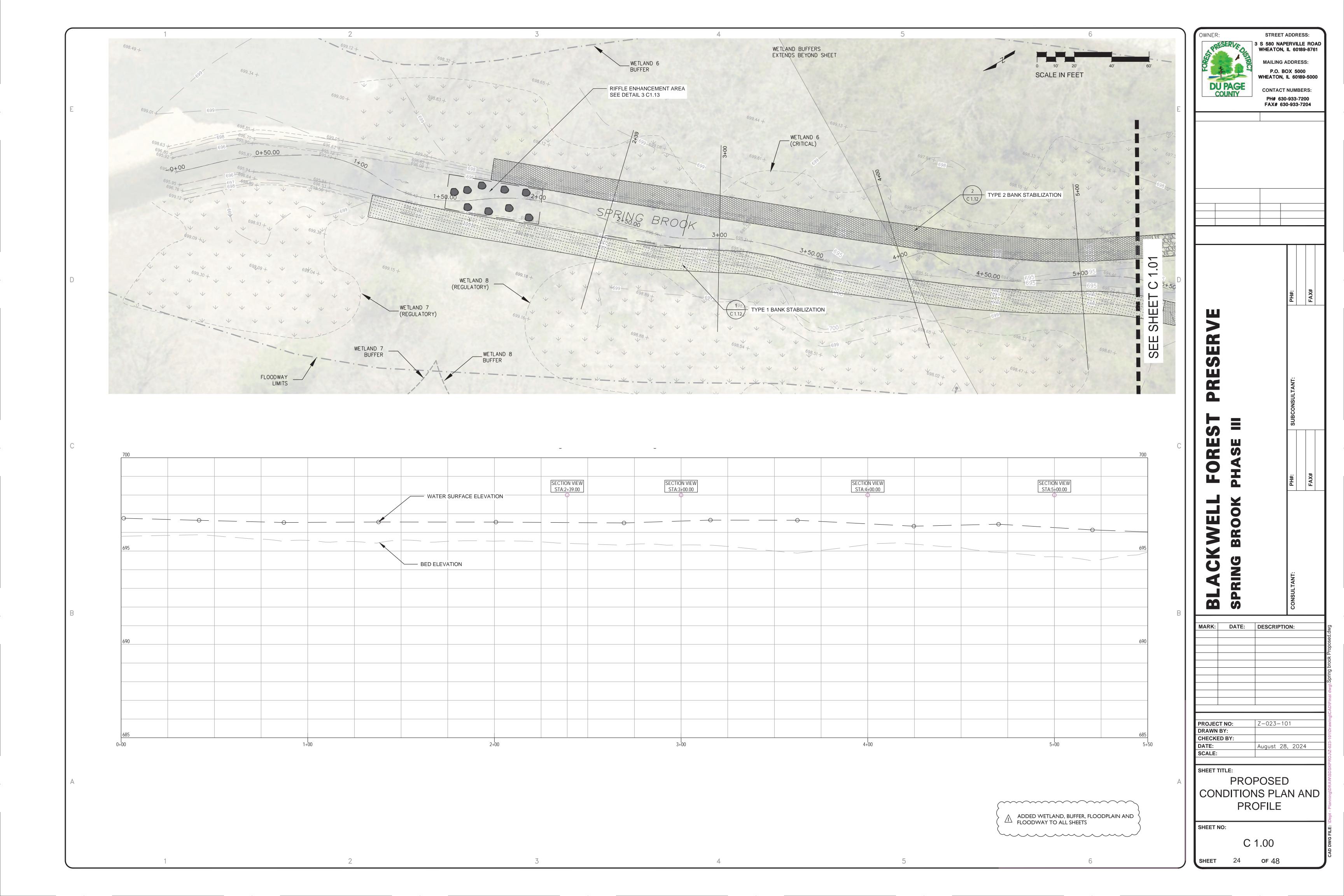
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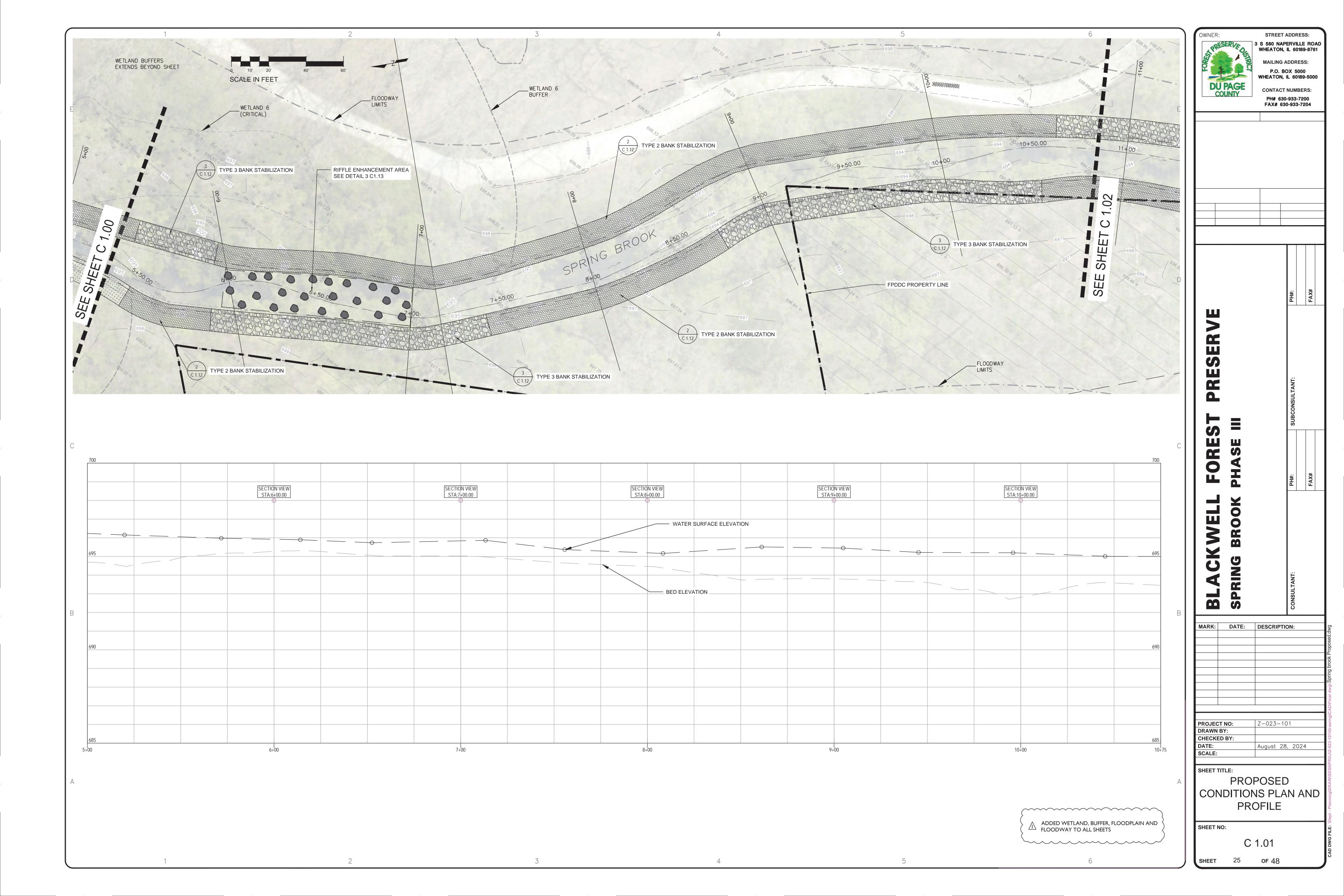
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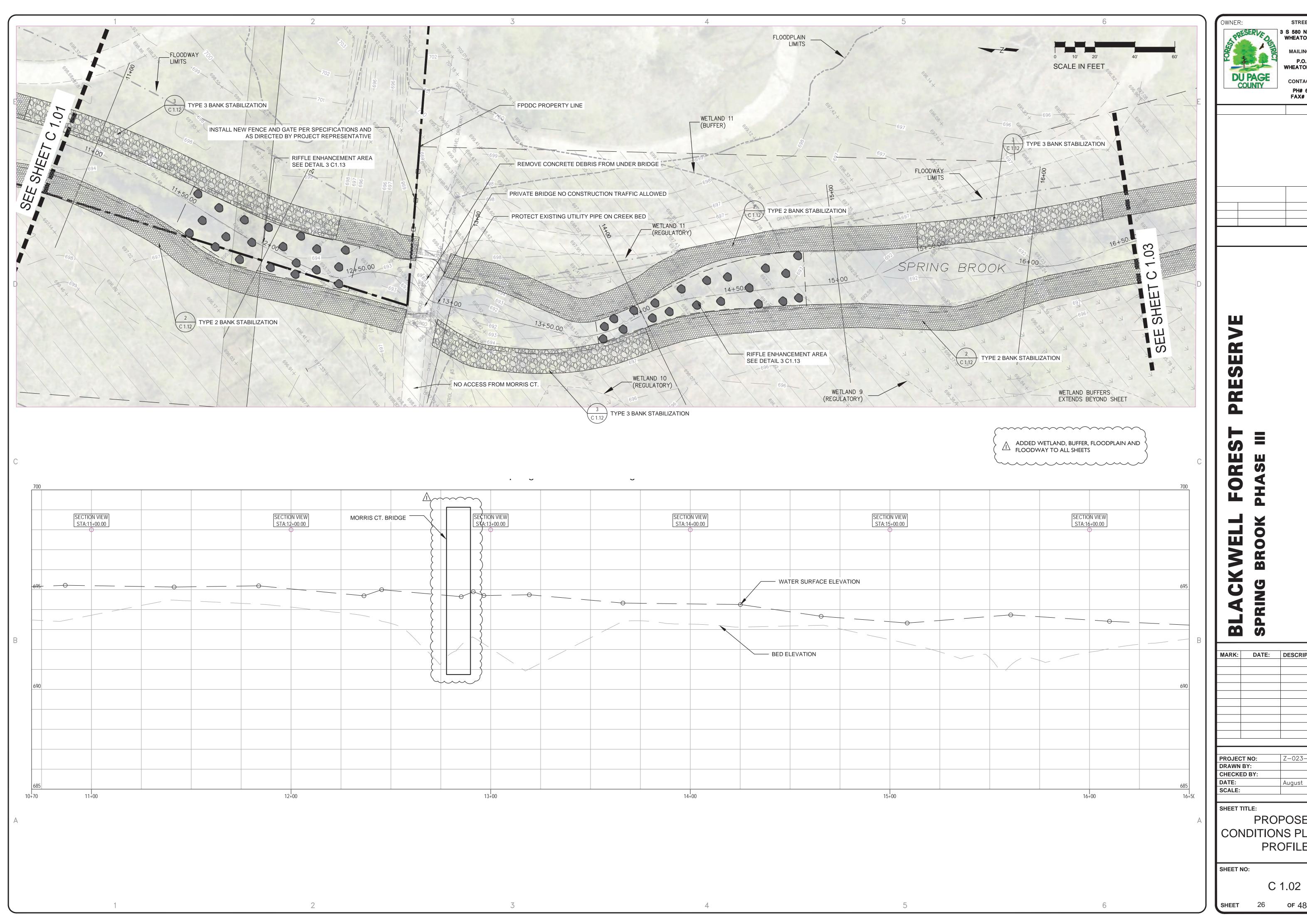
WOODY REMOVAL **DETAILS**

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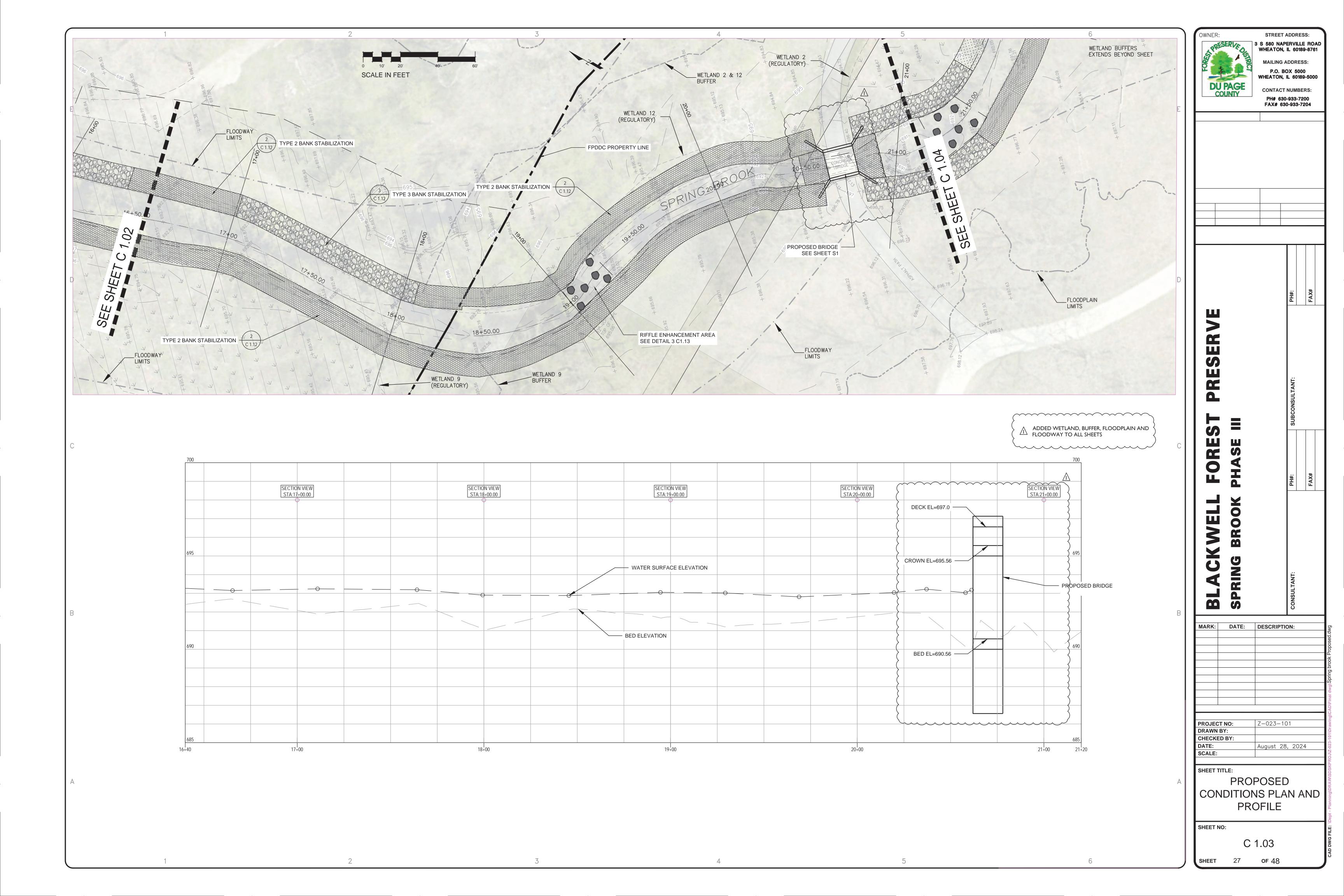
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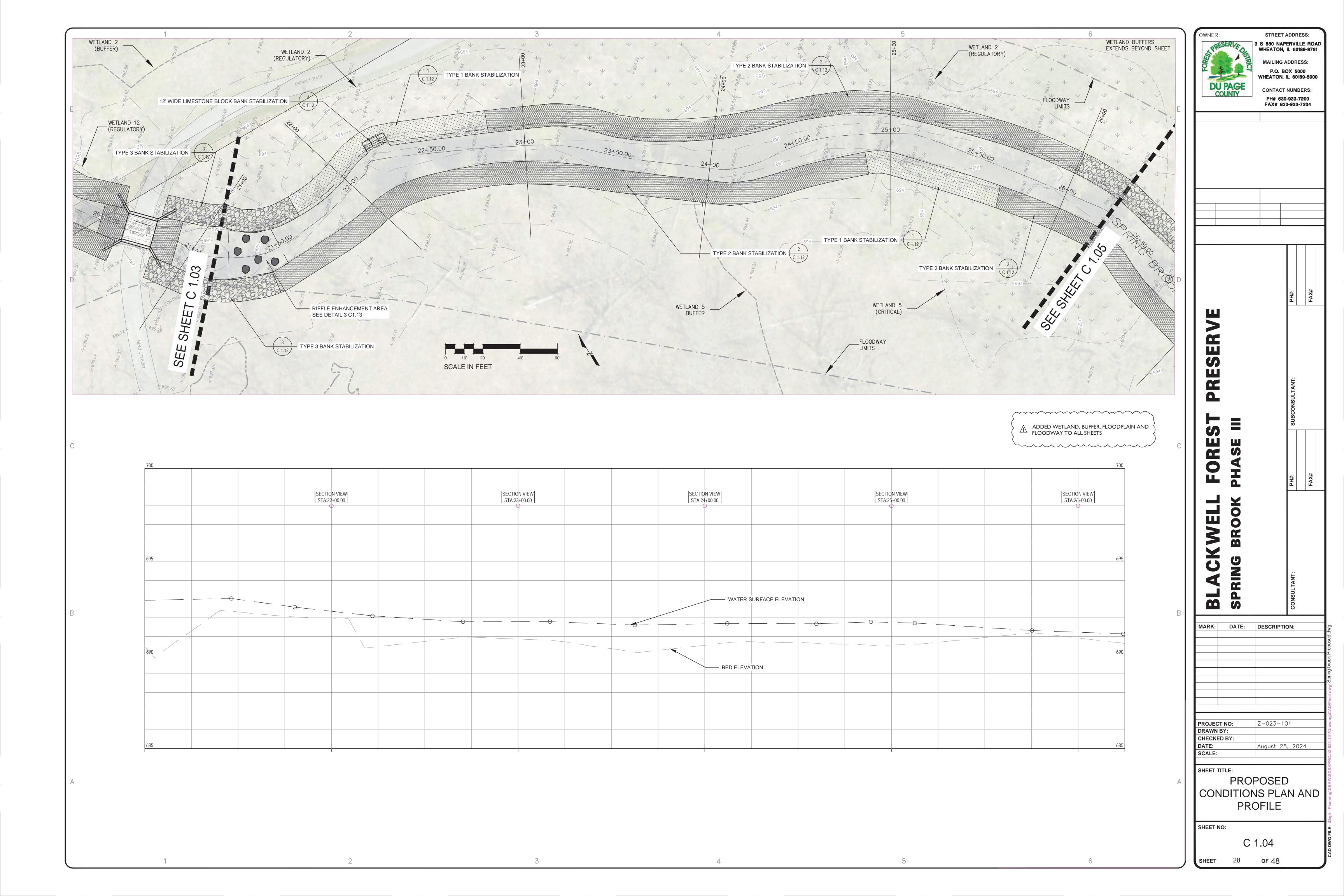


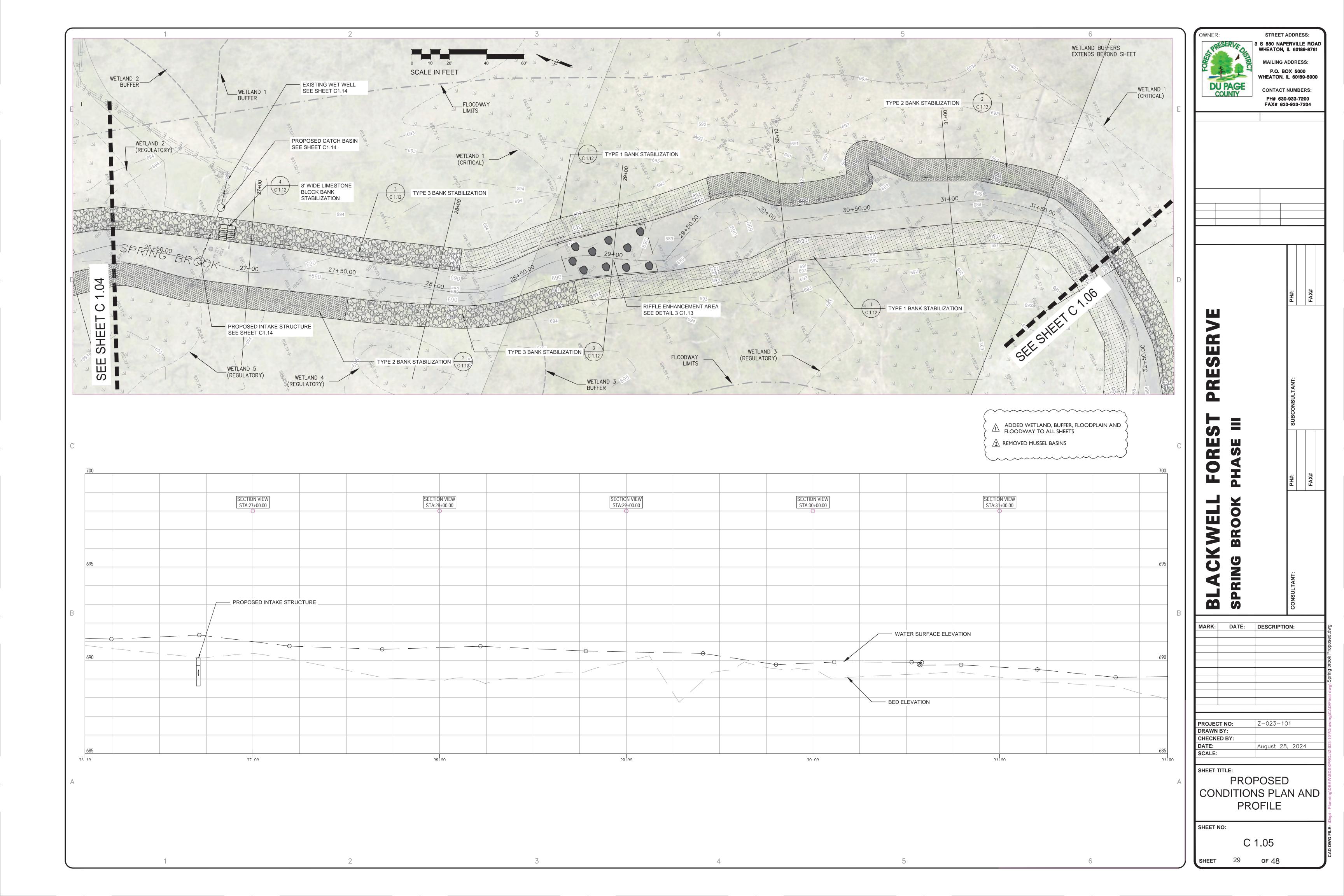


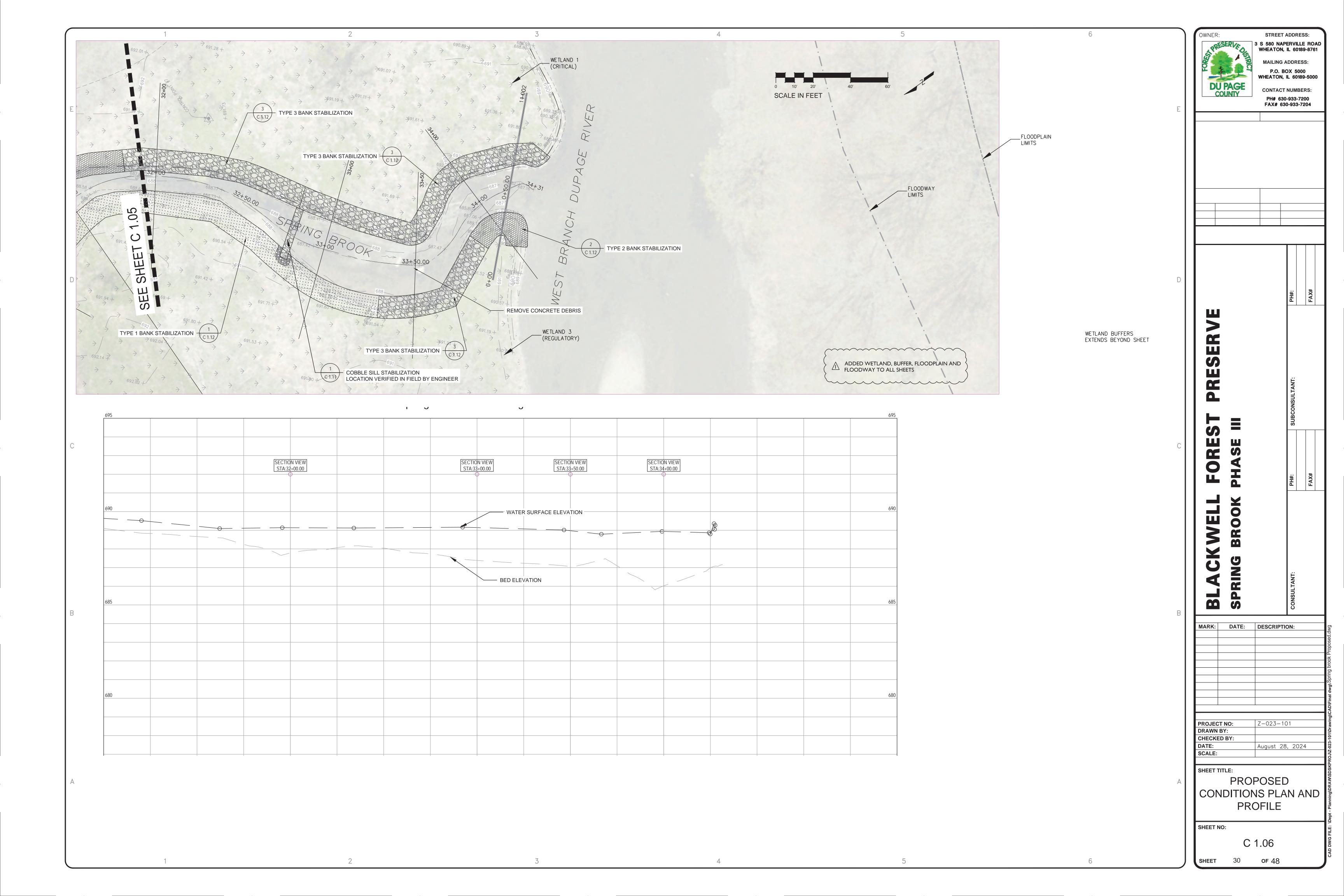


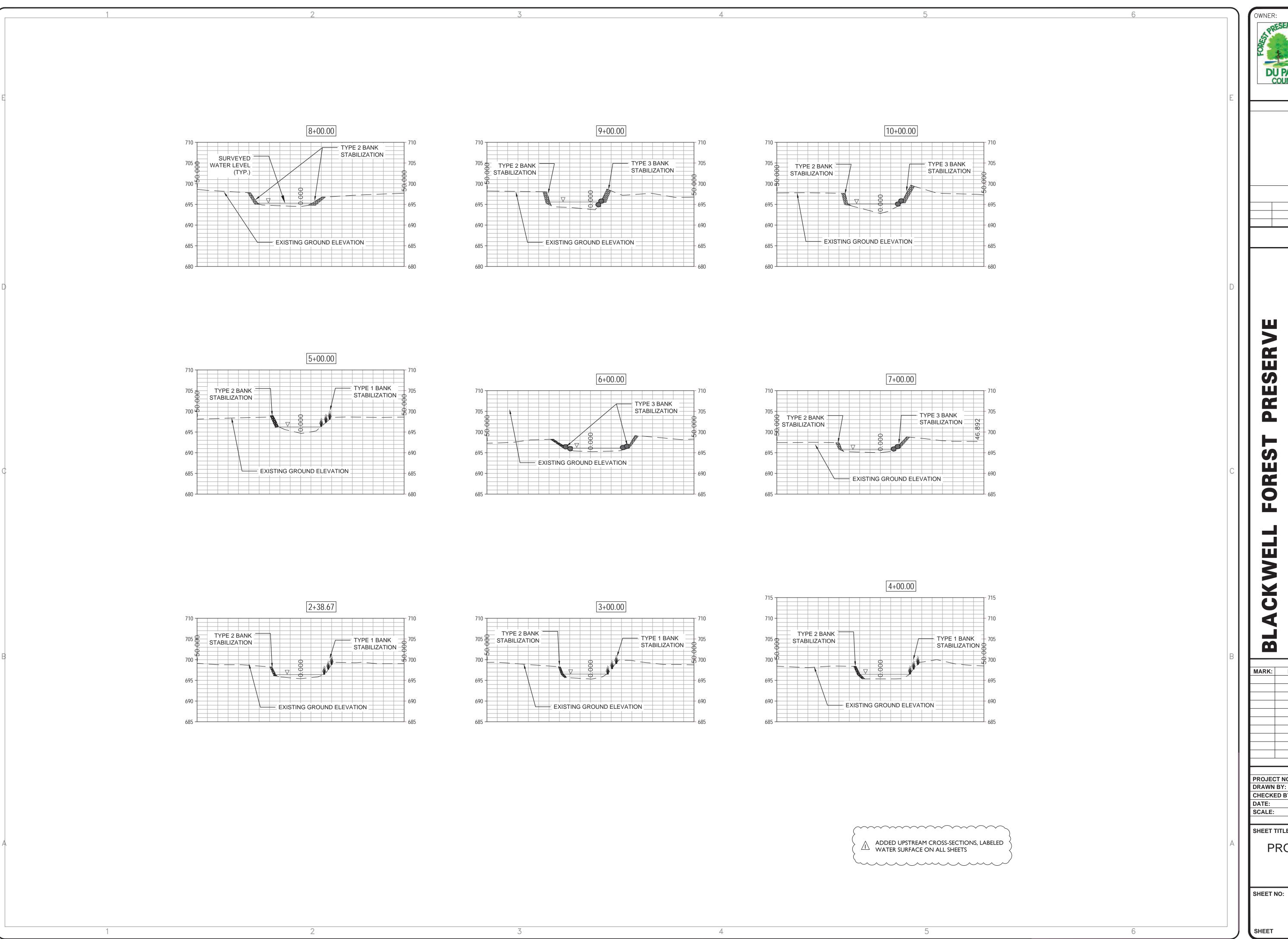
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STREET ADDRESS: 3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 **MAILING ADDRESS:** P.O. BOX 5000 **WHEATON, IL 60189-5000 CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 MARK: DATE: DESCRIPTION: PROJECT NO: Z-023-101 DRAWN BY: CHECKED BY: August 28, 2024 SHEET TITLE: PROPOSED CROSS SECTIONS

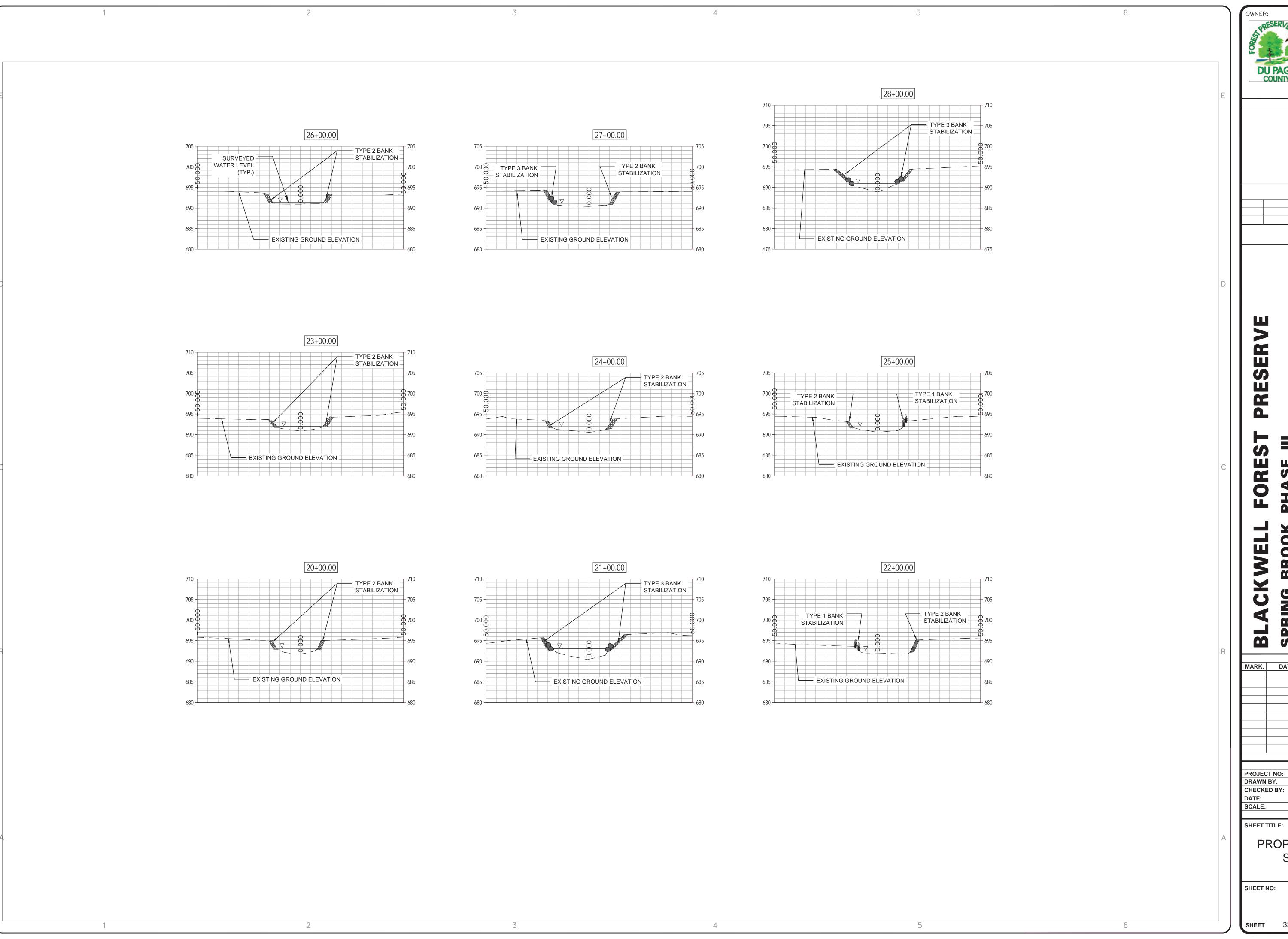
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19+00.00 17+00.00 18+00.00 TYPE 3 BANK
STABILIZATION
705 TYPE 2 BANK
STABILIZATION
705 TYPE 2 BANK
STABILIZATION 705 SURVEYED WATER LEVEL TYPE 2 BANK TYPE 2 BANK STABILIZATION $\stackrel{4}{\longrightarrow}$ 700 - STABILIZATION - 700 690 -EXISTING GROUND ELEVATION EXISTING GROUND ELEVATION EXISTING GROUND ELEVATION 14+00.00 15+00.00 16+00.00 TYPE 2 BANK TYPE 2 BANK TYPE 2 BANK TYPE 2 BANK
STABILIZATION TYPE 2 BANK TYPE 3 BANK - STABILIZATION -STABILIZATION _ STABILIZATION STABILIZATION -STABILIZATION -EXISTING GROUND ELEVATION EXISTING GROUND ELEVATION EXISTING GROUND ELEVATION 13+00.00 11+00.00 12+00.00 TYPE 2 BANK STABILIZATION TYPE 3 BANK TYPE 2 BANK STABILIZATION TYPE 3 BANK STABILIZATION TYPE 2 BANK STABILIZATION TYPE 3 BANK STABILIZATION STABILIZATION EXISTING GROUND ELEVATION EXISTING GROUND ELEVATION EXISTING GROUND ELEVATION PROPOSED CROSS SHEET NO:

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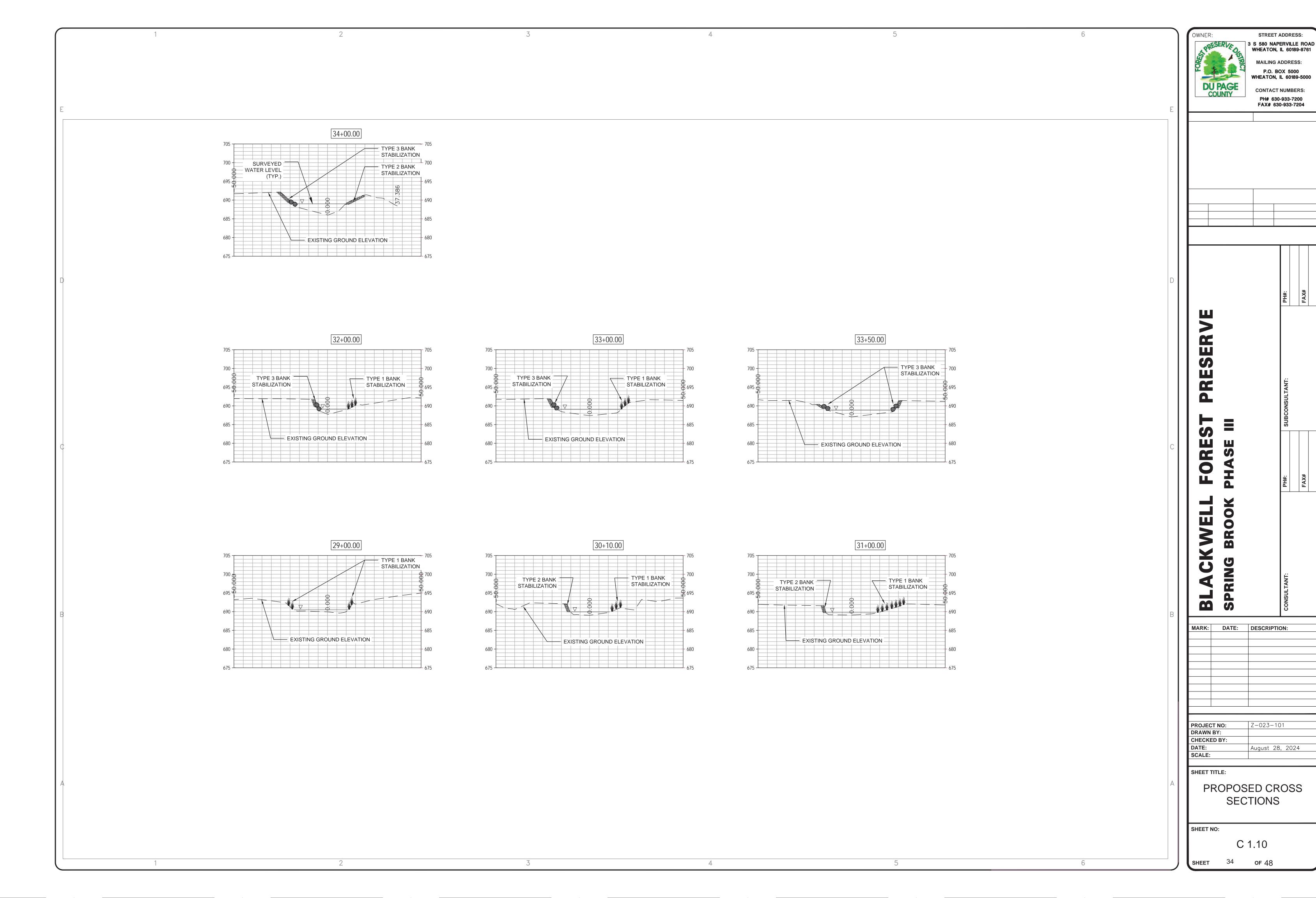
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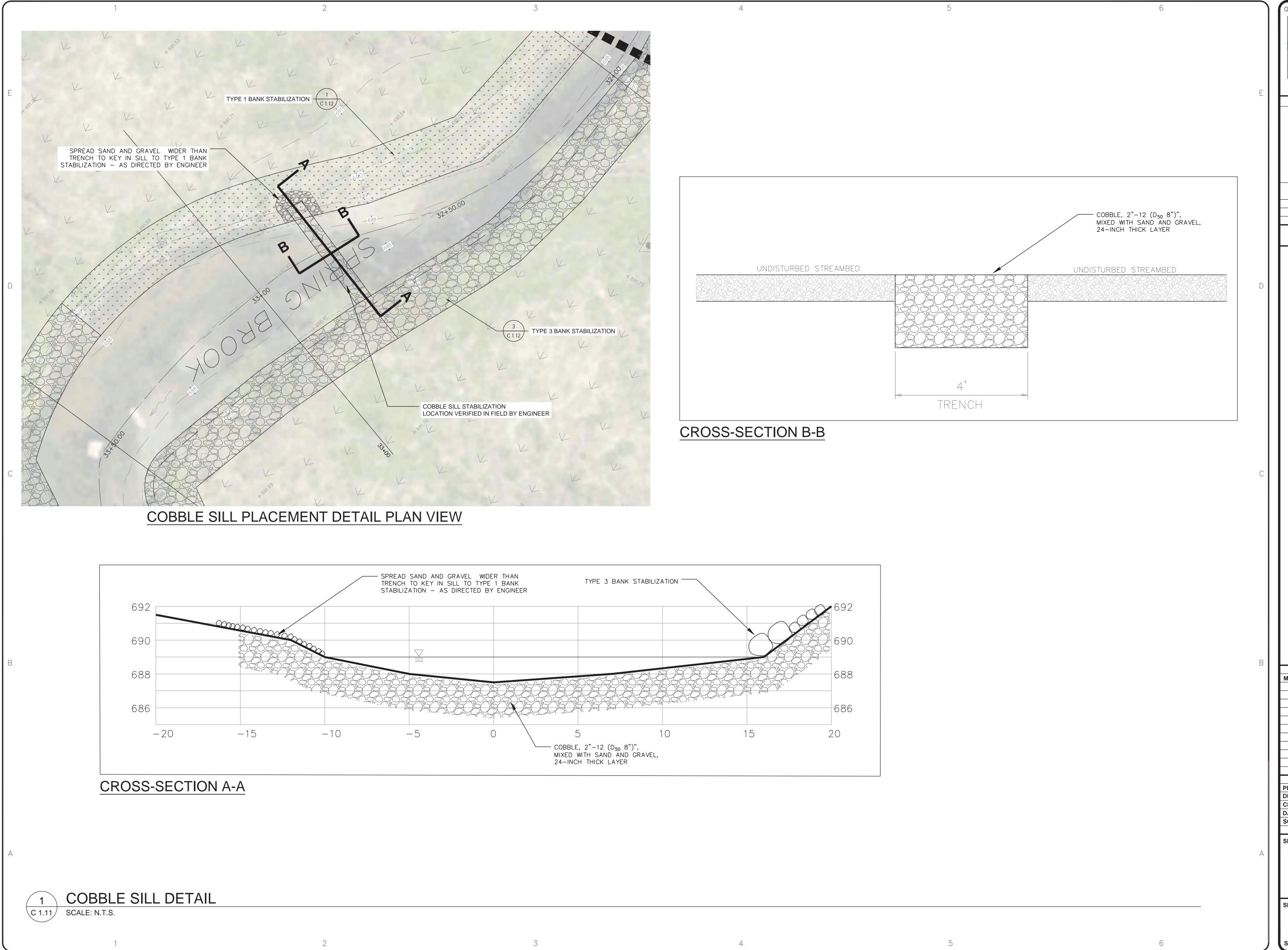
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STREET ADDRESS: 3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 MAILING ADDRESS: P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 MARK: DATE: DESCRIPTION: Z-023-101 PROJECT NO: DRAWN BY:

August 28, 2024 PROPOSED CROSS SECTIONS C 1.09





3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 MAILING ADDRESS: P.O. BOX 5000 **WHEATON, IL 60189-5000 CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 M MARK: DATE: DESCRIPTION: Z-023-101 PROJECT NO: DRAWN BY: CHECKED BY: August 28, 2024 SCALE:

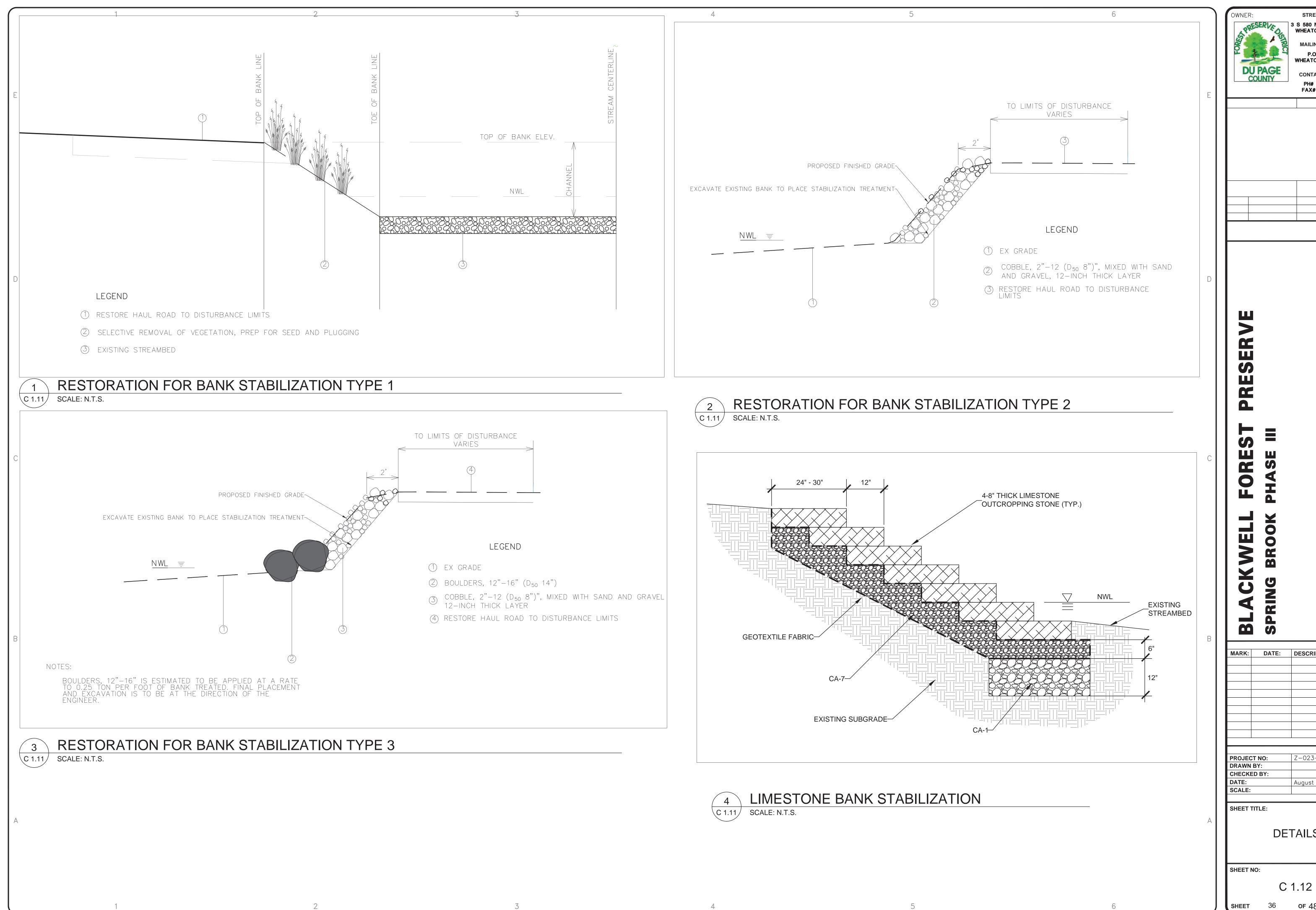
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SHEET TITLE:

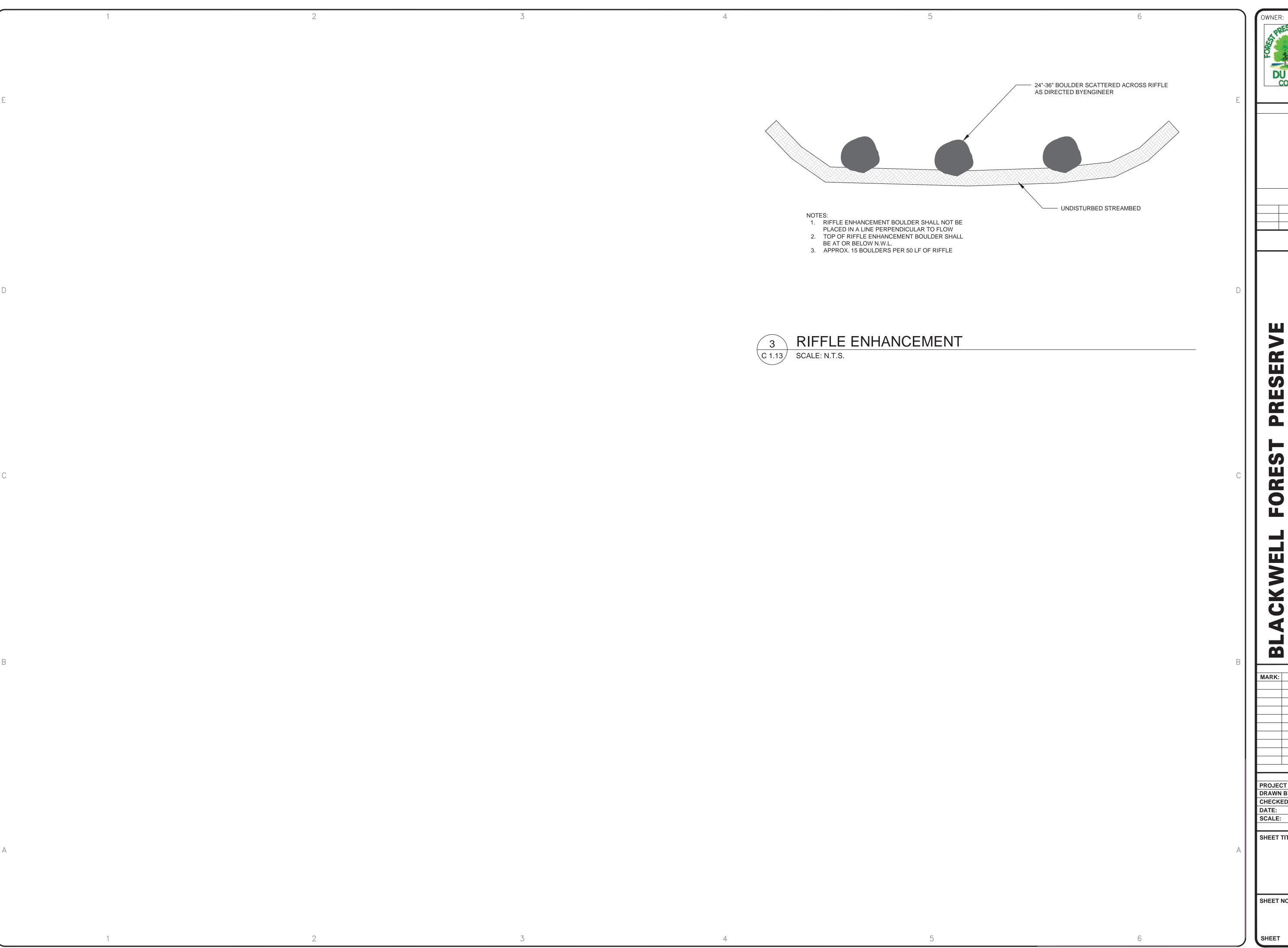
DETAILS

SHEET NO:

C 1.11
SHEET 35 OF 48

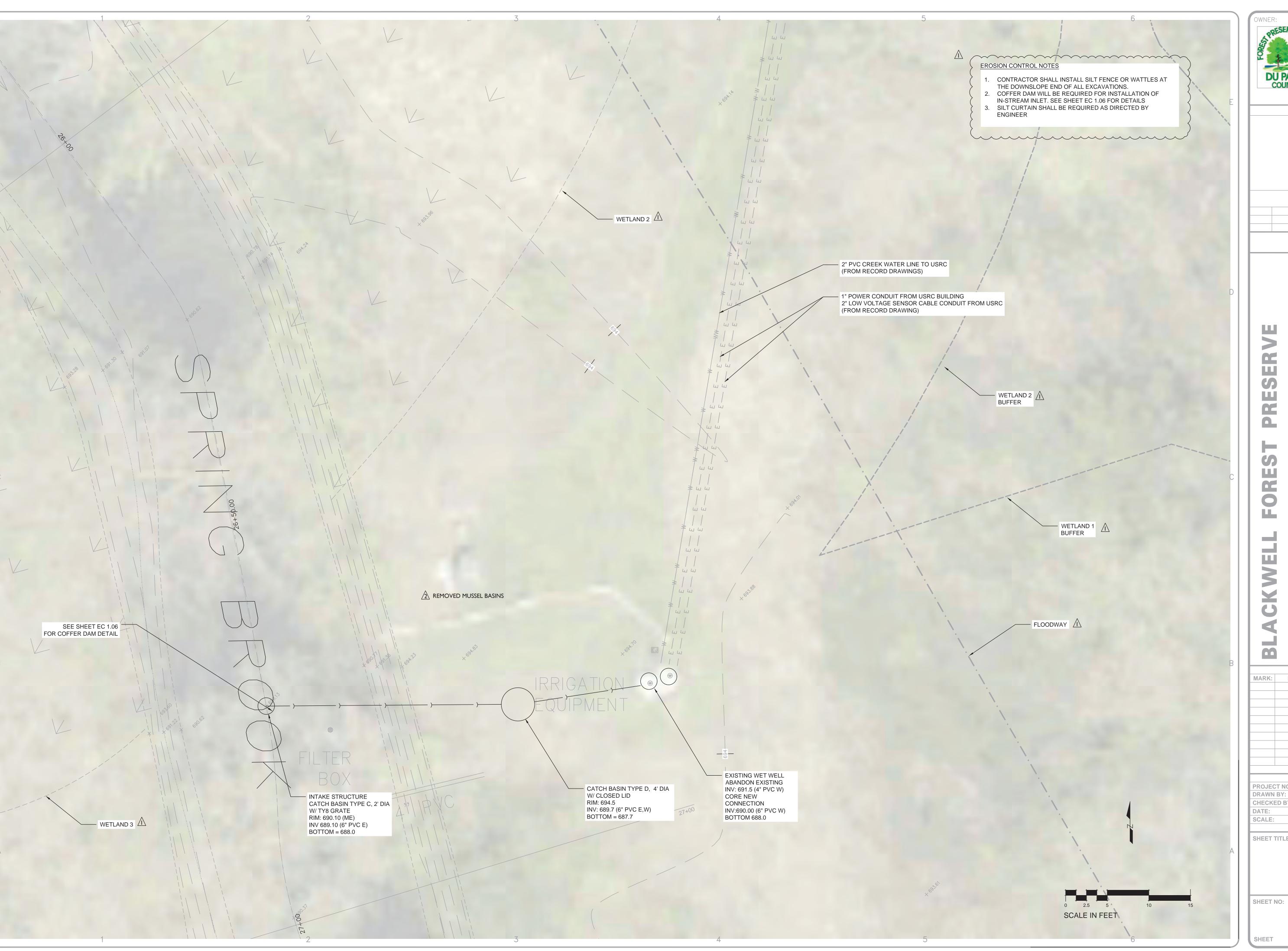


3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204 MARK: DATE: DESCRIPTION: Z-023-101 August 28, 2024 **DETAILS**



	С		D		E
BLACKWELL SPRING BROOK	FOREST PHASE III	ST PRESERVE			DISTRICT
					S 580 NA WHEATON MAILING P.O. WHEATON CONTAC
CONSULTANT:	PH#:	SUBCONSULTANT:	PH#:		N, IL 601 G ADDRE BOX 50 I, IL 601
	FAX#		FAX#		LE ROA 89-8761 ESS: 00 89-5000 BERS:

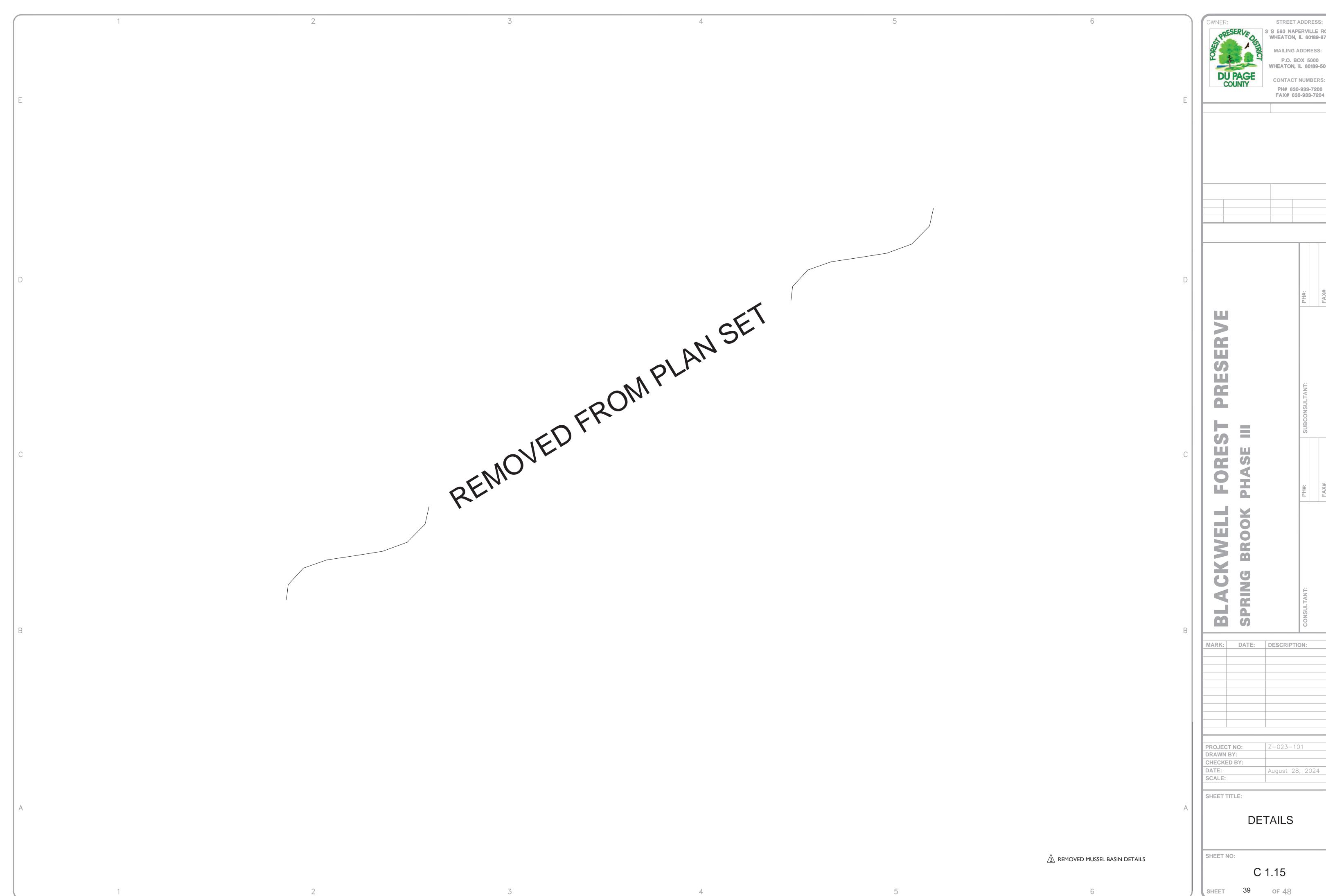
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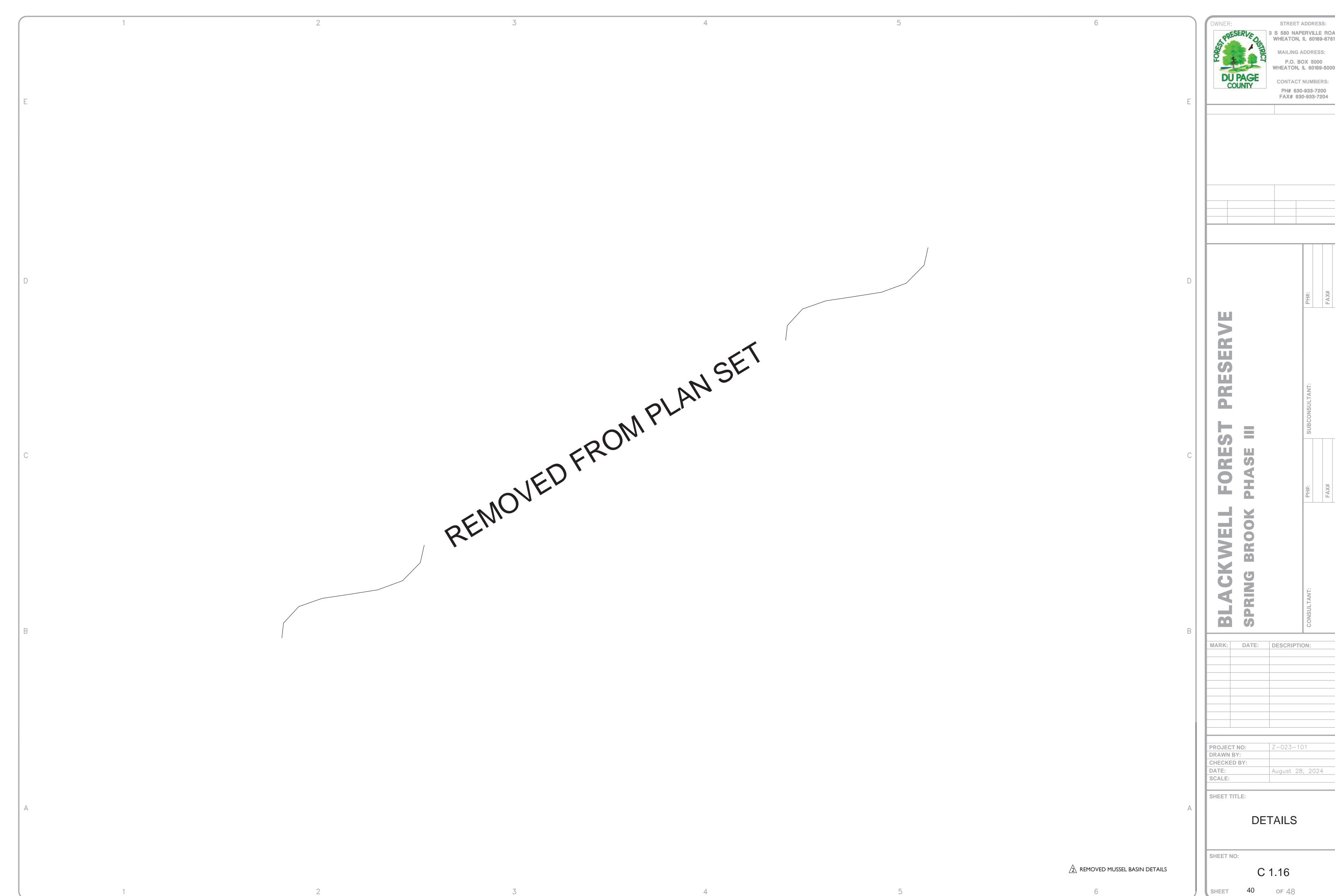


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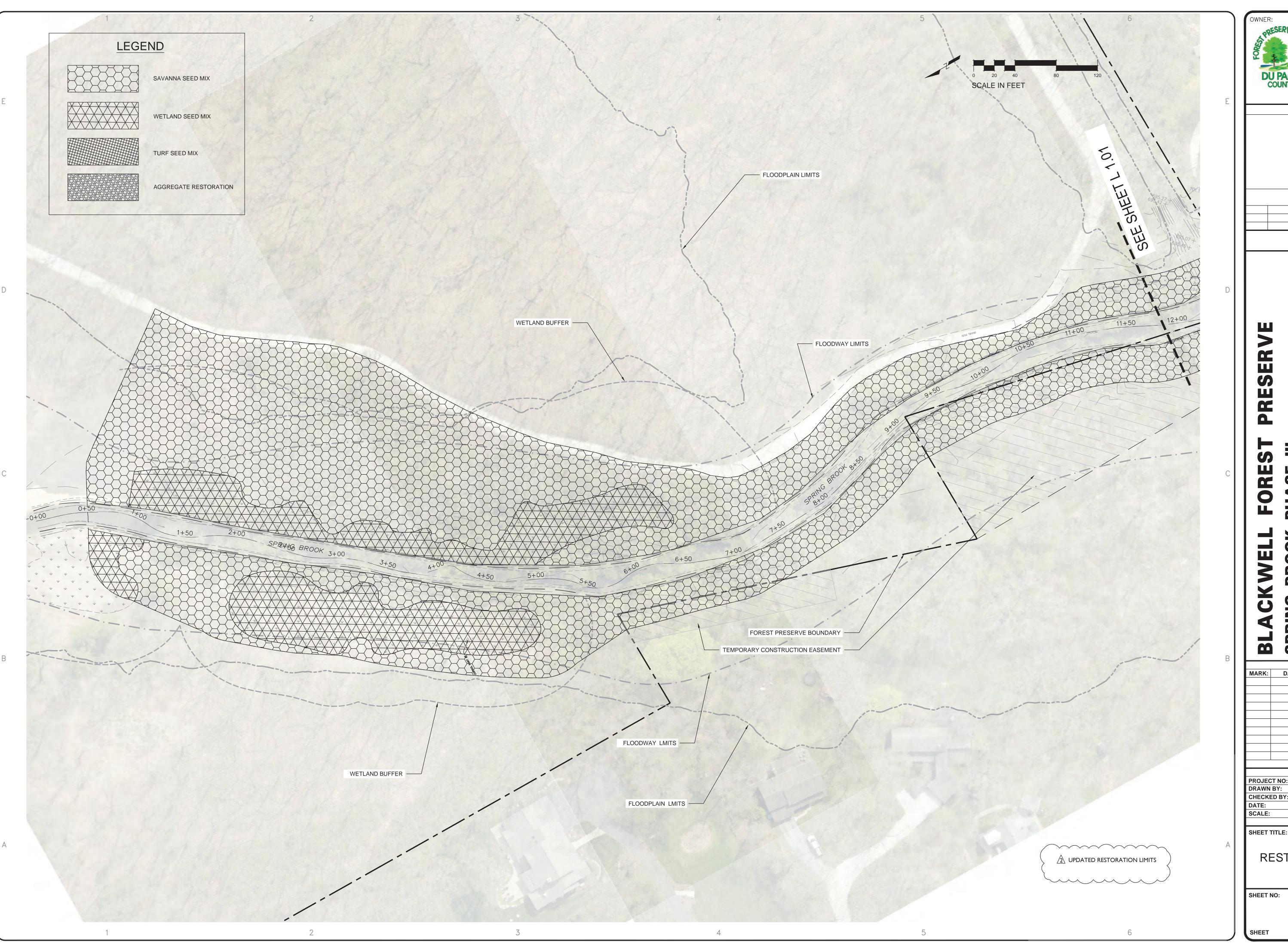
of 48



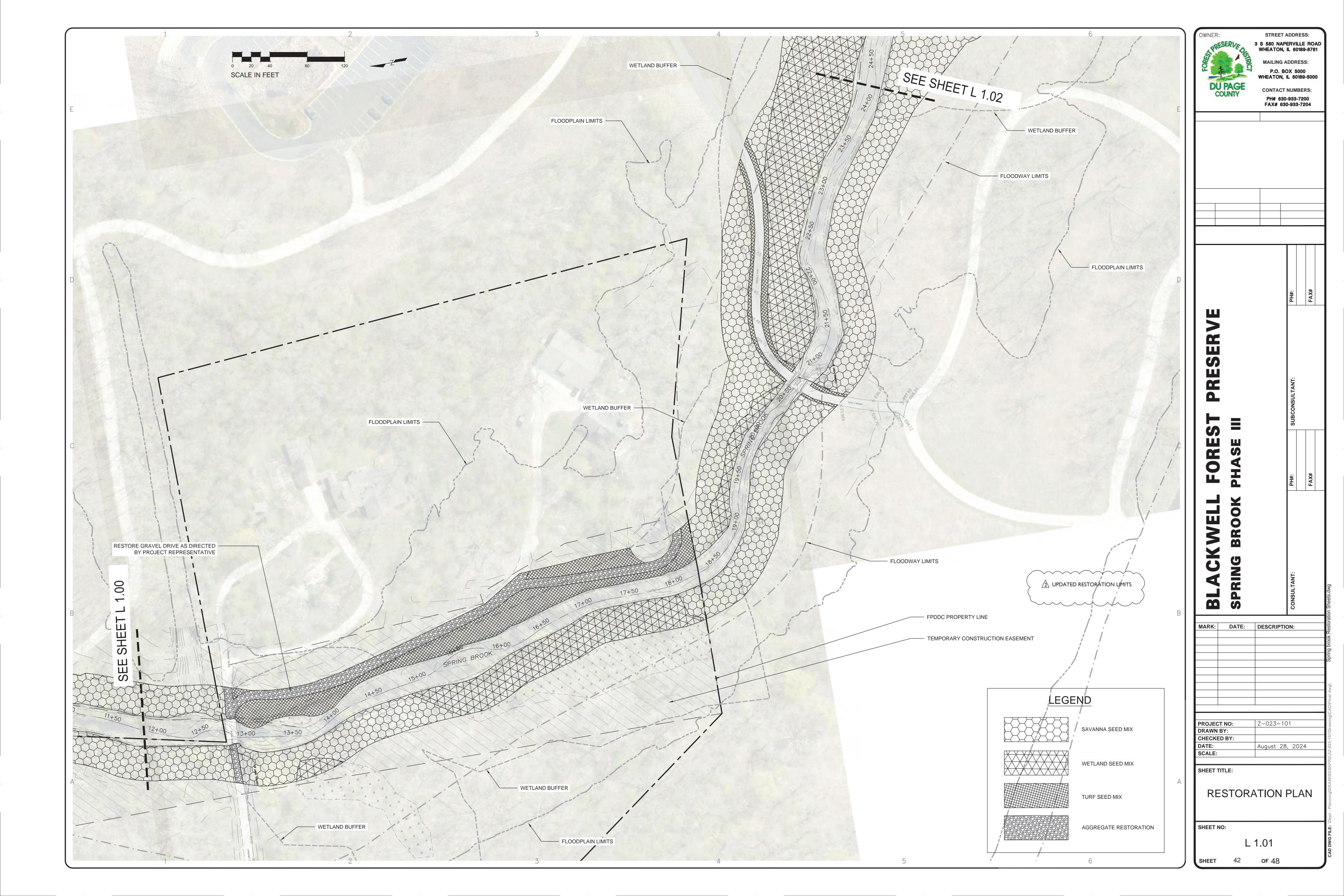
3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204

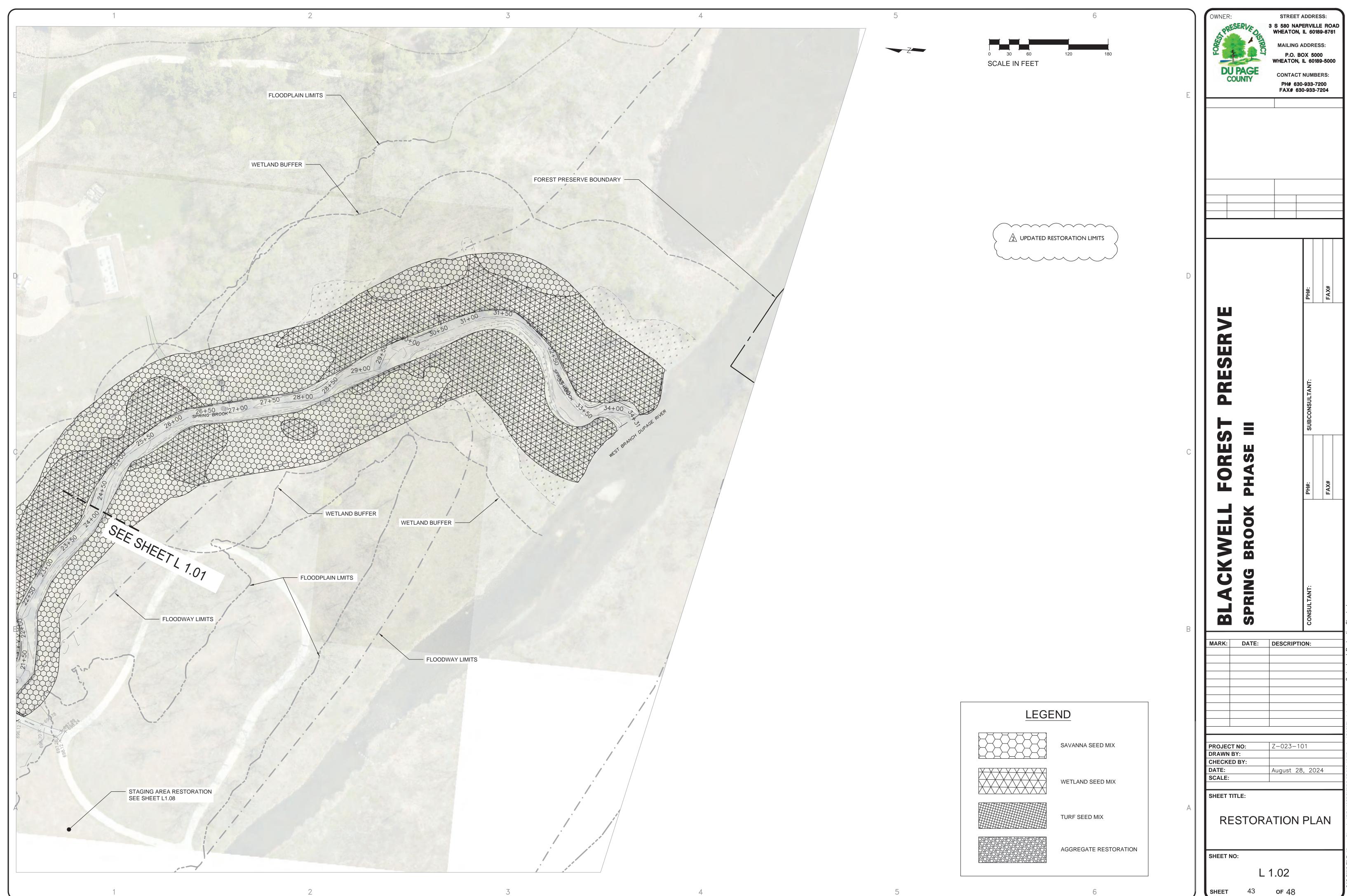


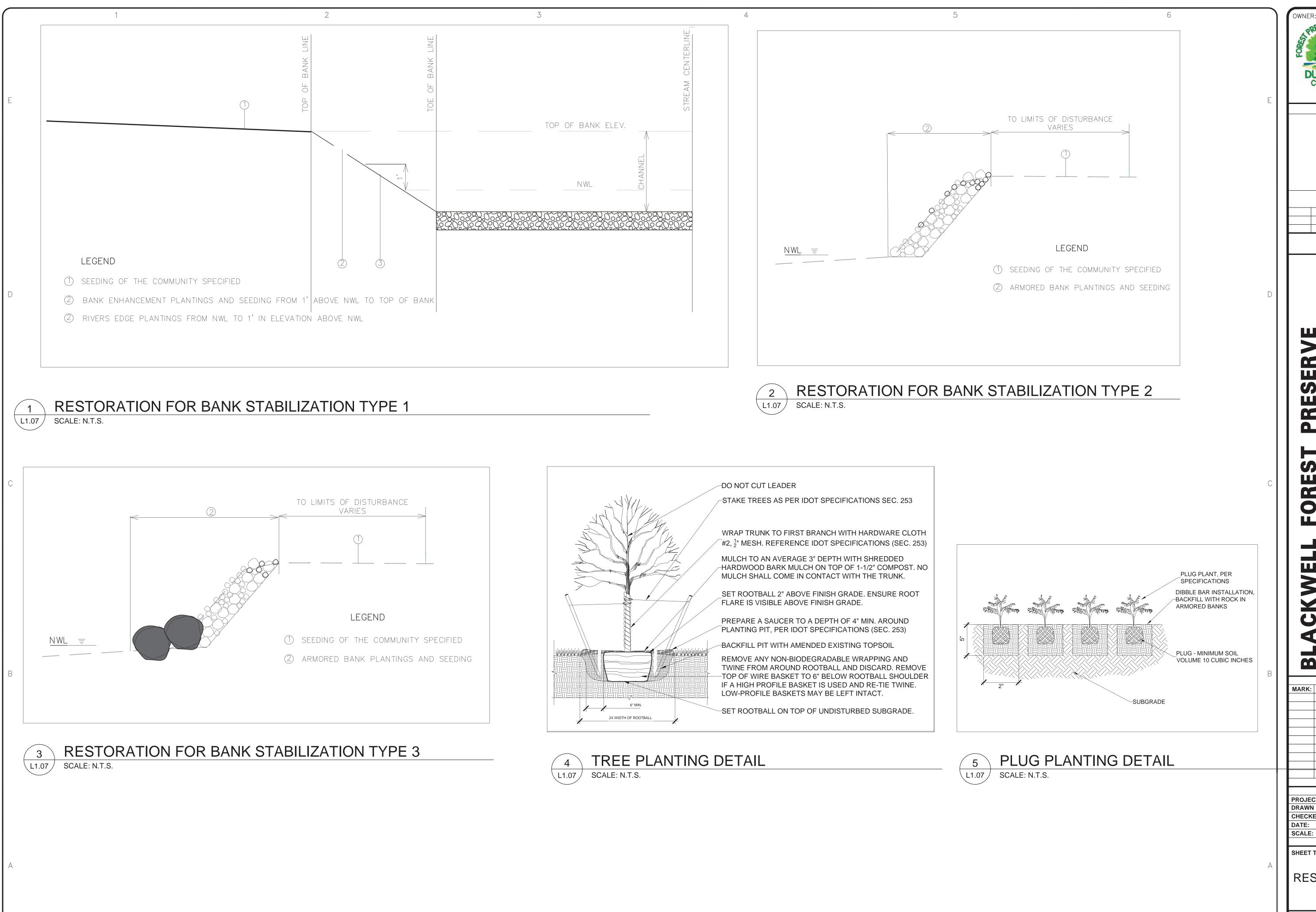
3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761 P.O. BOX 5000 WHEATON, IL 60189-5000



DU PAGE COUNTY	WHEATON, CONTACT PH# 630 FAX# 63	NUMB -933-7	ERS:	0
ш		PH#:	FAX#	
PRESERVE		SUBCONSULTANT:		
FOREST PHASE III		PH#:	FAX#	
BLACKWELL SPRING BROOK		CONSULTANT:		
MARK: DATE:	DESCRIPTION	ON:		
PROJECT NO: DRAWN BY: CHECKED BY: DATE: SCALE:	Z-023-10 August 28		24	
SHEET TITLE:	ATION	PL	AN	







PH# 630-933-7200 FAX# 630-933-7204 BL MARK: DATE: DESCRIPTION: Z-023-101 DRAWN BY: CHECKED BY: August 28, 2024 SHEET TITLE: RESTORATION DETAILS SHEET NO: L1.07

3 S 580 NAPERVILLE ROAD WHEATON, IL 60189-8761

> P.O. BOX 5000 WHEATON, IL 60189-5000

CONTACT NUMBERS:

SAVANNA		
Cover Crop:		
Scientific Name	Common Name	lbs./acre
Avena sativa	Oats	32.0
Seeding:		
Scientific Name	Common Name	lbs./acre
Allium canadense	Wild Onion	0.1
Bouteloua curtipendula	Side Oats	4.0
Carex normalis	Spreading Oval Sedge	0.1
Carex vulpinoidea	Brown Fox Sedge	0.1
Cinna arundinacea	Common Wood Reed	0.5
Elymus canadensis	Canada Wild Rye	3.0
Elymus virginicus	Virginia Wild Rye	3.0
Eutrochium purpureum	Purple Joe Pye Weed	0.1
Festuca subverticillata	Nodding Fescue	0.1
Glyceria striata	Green Fowl Manna Grass	0.1
Hystrix patula	Bottlebrush Grass	1.2
Monarda fistulosa	Wild Bergamot	0.1
Ratibida pinnata	Yellow Coneflower	0.2
Rudbeckia hirta	Black-eyed Susan	0.4
Rudbeckia laciniata	Wild Golden Glow	0.1
Schizachyrium scoparium	Little Bluestem	4.0
Solidago ulmifolia	Elm-leaved Goldenrod	0.1
Symphyotrichum lateriflorum	Calico Aster	0.1
Thalictrum dasycarpum	Purple Meadow Rue	0.1
Tradescantia ohioensis	Common Spiderwort	0.2
Zizia aurea	Golden Alexanders	0.1
	Total Weight of Seed (lbs)	17.7

SAVANNA SEEDING MIX

\L1.08 / SCALE: N.T.S.

Seeding:		
Scientific Name	Common Name	lbs./acre
Leersia oryzoides	Rice Cut Grass	1.0
Plantings:		
Scientific Name	Common Name	QUANTITY
Acorus americanus	Sweet Flag	500
Carex lacustris	Common Lake Sedge	500
Hibiscus laevis	Halbred-Leaved Rose Mallow	500
Iris virginica shrevei	Blue Flag	500
Scirpus atrovirens	Dark Green Rush	500
Schoenoplectus fluviatilis	River Bulrush	500
Schoenoplectus pungens	Chairmaker's Rush	500
Sparangiumeurycarpum	Common Bur Reed	500
Spartina pectinata	Prairie Cord Grass	500
	TOTAL	4500

NOTE: ARMORED BANK PLANTINGS AND SEED MIX WITHIN TYPE 2 AND TYPE 3 BANK TREATMENTS

ARMORED BANK PLANTINGS AND SEED MIX

L1.08 | SCALE: N.T.S.

TREES			
Scientific Name	Common Name	Quantity	Size
Aesculus glabra	Ohio Buckeye	2	1.5" cal.
Celtis occidentalis	Hackberry	15	1.5" cal.
Ostrya virginiana	Hop Hornbeam	15	5' ht.
Pinus strobus	White Pine	3	5' ht.
Quercus bicolor	Swamp White Oak	25	1.5" cal.
Quercus macrocarpa	Bur Oak	25	1.5" cal.
Salix discolor	Pussy Willow	15	5' ht.
Thuga occidentalis	Eastern White Cedar	5	5' ht.
	Sub Total	105	
	Sub rotal	105	
SHRUBS	Sub Total	105	
SHRUBS Scientific Name	Common Name	Quantity	Size
******			Size #5
Scientific Name	Common Name	Quantity	
Scientific Name Amorpha fruiticosa	Common Name Indigo Bush	Quantity 25	#5
Scientific Name Amorpha fruiticosa Asimina triloba Cornus sericea	Common Name Indigo Bush Paw Paw	Quantity 25 5	#5 #5
Scientific Name Amorpha fruiticosa Asimina triloba Cornus sericea Lindera benzoin	Common Name Indigo Bush Paw Paw Red Stick Dogwood	Quantity 25 5 25	#5 #5 #5
Scientific Name Amorpha fruiticosa Asimina triloba	Common Name Indigo Bush Paw Paw Red Stick Dogwood Spicebush	Quantity 25 5 25 25	#5 #5 #5 #5
Scientific Name Amorpha fruiticosa Asimina triloba Cornus sericea Lindera benzoin Ribes americanum	Common Name Indigo Bush Paw Paw Red Stick Dogwood Spicebush Wild Black Currant Elderberry Nannyberry	Quantity 25 5 25 25 25	#5 #5 #5 #5 #5
Scientific Name Amorpha fruiticosa Asimina triloba Cornus sericea Lindera benzoin Ribes americanum Sambucus canadensis	Common Name Indigo Bush Paw Paw Red Stick Dogwood Spicebush Wild Black Currant Elderberry	Quantity 25 5 25 25 25 25 25	#5 #5 #5 #5 #5 #5

NOTE: TREE AND SHRUB LOCATIONS TO BE FIELD DIRECTED BY ENGINEER



TREE AND SHRUB LIST

Cover Crop:		
Scientific Name	Common Name	Lb. per Acre
Avena sativa	Oats	40.0
		•
Scientific Name	Common Name	Lb. per Acre
Bouteloua curtipendula	Side Oats	5.0
Carex bicknellii	Copper Shoudered Oval Sedge	0.3
Coreopsis tripteris	Tall Coreopsis	0.2
Echinacea pallida	Pale Purple Coneflower	8.0
Elymus canadensis	Canada Wild Rye	2.0
Elymus virginicus	Virginia Wild Rye	2.0
Eryngium yuccifolium	Rattlesnake Master	0.3
Heliopsis helianthoides	False Sunflower	0.2
Liatris pycnostachya	Prairie Blazing Star	0.3
Monarda fistulosa	Wild Bergamot	0.2
Parthenium integrifolium	Wild Quinine	0.2
Penstemon digitalis	Foxglove Beard Tongue	0.2
Pycnanthemum virginianum	Common Mountain Mint	0.2
Ratibida pinnata	Yellow Coneflower	0.2
Rudbeckia hirta	Black-eyed Susan	0.4
Rudbeckia subtomentosa	Showy Black-eyed Susan	0.4
Schizachyrium scoparium	Little Bluestem	7.0
Silphium laciniatum	Compass Plant	0.3
Silphium terebininaceum	Prairie Dock	0.3
Solidago juncea	Early Goldenrod	0.2
Solidago rigida	Stiff Goldenrod	0.2
Sporobolus heterolepis	Prairie Dropseed	0.3
Symphyotrichum laeve	Smooth Blue Aster	0.2
Symphyotrichum novae-angliae	New England Aster	0.2
Tradescantia ohioensis	Common Spiderwort	0.2
Veronicastrum virginicum	Culver's Root	0.2
Zizia aurea	Golden Alexanders	0.2
		22.2

STAGING AREA SEED MIX

\L1.08 / SCALE: N.T.S.

Cover Crop:		
Scientific Name	Common Name	lbs./acre
Avena sativa	Oats	20.0
Agrostis stolonifera	Creeping bentgrass	1.0
Plantings:		
Scientific Name	Common Name	QUANTITY
Carex lacustris	Common Lake Sedge	1000
Carex trichocarpa	Hairy-fruited Sedge	1000
Spartina pectinata	Prairie Cord Grass	2000
	TOTAL	4000
Seeding:		
Scientific Name	Common Name	lbs./acre
Carex annectens	Yellow Fruited Sedge	0.1
Carex cristatella	Crested Oval Sedge	0.2
Carex normalis		
Carex tetanica		
Carex vulpinoidea	Fox Sedge	0.5
Elymus riparus	Riverbank Wild Rye	0.8
Elymus virginicus	Virginia Wild Rye	1.5
Euthania graminifolia	Grass-Leaved Goldenrod	0.2
Gentiana andrewsii	Bottle Gentian	0.1
Helenium autumnale	Sneezeweed	0.2
Juncus dudleyi	Dudley's rush	0.4
Juncus torreyi	Torrey's Rush	0.1
Leersia oryzoides	Rice Cut Grass	1.5
LUCION ON Y LUNCU	LLICE CAL CLASS	1170
Mentha arvensis	Wild Mint	0.1
	<u> </u>	
Mentha arvensis	Wild Mint	0.1
Mentha arvensis Pycnanthemum virginianum	Wild Mint Common Mountain Mint	0.1 0.2
Mentha arvensis Pycnanthemum virginianum Rudbeckia laciniata	Wild Mint Common Mountain Mint Wild Golden Glow	0.1 0.2 0.1
Mentha arvensis Pycnanthemum virginianum Rudbeckia laciniata Solidago gigantea	Wild Mint Common Mountain Mint Wild Golden Glow Late Goldenrod	0.1 0.2 0.1 0.1
Mentha arvensis Pycnanthemum virginianum Rudbeckia laciniata Solidago gigantea Spartina pectinata Symphyotrichum novae-angliae	Wild Mint Common Mountain Mint Wild Golden Glow Late Goldenrod Prairie Cord Grass New England aster	0.1 0.2 0.1 0.1 0.5
Mentha arvensis Pycnanthemum virginianum Rudbeckia laciniata Solidago gigantea Spartina pectinata	Wild Mint Common Mountain Mint Wild Golden Glow Late Goldenrod Prairie Cord Grass	0.1 0.2 0.1 0.1 0.5 0.1
Mentha arvensis Pycnanthemum virginianum Rudbeckia laciniata Solidago gigantea Spartina pectinata Symphyotrichum novae-angliae Thalictrum dasycarpum	Wild Mint Common Mountain Mint Wild Golden Glow Late Goldenrod Prairie Cord Grass New England aster Purple Meadow Rue	0.1 0.2 0.1 0.1 0.5 0.1 0.1

NOTE: BANK ENHANCEMENT PLANTINGS AND SEED MIX WITHIN TYPE 1 BANK TREATMENTS



BANK ENHANCEMENT PLANTINGS AND SEED MIX

Total Weight of Seed (lbs) 7.5

SCALE: N.T.S.



RIVER EDGE		
Plantings:		<u> </u>
Scientific Name	Common Name	QUANTIT
Hibiscus laevis	Halbred-Leaved Rose Mallow	500
Iris virginica shrevei	Blue Flag	500
Schoenoplectus pungens	Chairmaker's Rush	1000
	TOTAL	2000

NOTE: RIVERS EDGE PLANTINGS AND SEED MIX TO BE FIELD DIRECTED BY ENGINEER



RIVERS EDGE PLANTINGS

L1.08 SCALE: N.T.S.

WETLAND Cover Crop: C- Value Ind. Status Scientific Name Common Name Lb. per Acre 10 FACW Agrostis stolonifera Creeping bentgrass 0.5 0 UPL Avena sativa Oats 40.0 C- Value Ind. Status Scientific Name Common Name Lb. per Acre OBL Asclepias incarnata 0.2 Swamp milkweed OBL Bidens cernua Nodding Bur Marigold 0.1 UPL Bouteloua curtipendula Side-Oats Grama 0.5 OBL Calamagrostis canadensis 1.0 Blue Joint Grass FAC Carex brevior Plains Oval Sedge 0.2 OBL | Carex pellita Broad-Leaved Woolly Sedge 4 FACW Carex cristatella Crested Oval Sedge ФВL Carex stricta Tussock Sedge 0.2 FACW Carex vulpinoidea Fox Sedge 0.5 FAC Coreopsis tripteris 0.1 Tall Coreopsis 4 FACU Elymus canadensis Canada Wild Rye 0.5 FACW Elymus riparus Riverbank Wild Rye 1.0 FACW Elymus virginicus Virginia Wild Rye 2.0 FAC Eryngium yuccifolium Rattlesnake Master 0.1 OBL Eupatorium perfoliatum 0.2 Common Boneset OBL Eutrochium maculatum 0.1 Spotted Joe Pye Weed OBL Glyceria striata Fowl Manna Grass 0.3 FACW Helenium autumnale Sneezeweed 0.3 OBL Iris virginica shrevei 0.5 Blue Flag FACW Juncus dudleyi 0.5 0.5 Dudley's rush OBL Leersia oryzoides Rice Cut Grass Round-Headed Bush Clover FACU Lespedeza capitata 0.1 8 FAC Liatris pycnostachya Prairie Blazing Star 0.1 OBL Lobelia cardinalis Cardinal Flower 0.2 OBL Lobelia siphilitica Great Blue Lobelia 0.3 FACW Mentha arvensis Wild Mint OBL Mimulus ringens Monkey Flower 0.1 4 FACU Monarda fistulosa Wild Bergamot 0.1 4 FAC Penstemon digitalis Foxglove Beard Tongue 0.2 FACW Pycnanthemum virginianum Common Mountain Mint 0.2 FACU Rudbeckia hirta Black-Eyed Susan 0.3 FACW Rudbeckia laciniata Wild Golden Glow 0.1 5 FACU Schizachyrium scoparius Little Bluestem 0.5 4 OBL Scirpus atrovirens Dark Green Rush 0.5 4 FACW Solidago gigantea Late Goldenrod 0.2 OBL Sparganium eurycarpum Common Bur Reed 1.0 4 FACW Spartina pectinata Prairie Cord Grass 0.5 10 FACU Sporobolus heterolepis Prairie Dropseed 0.5 FAC Symphyotrichum lanceolatum Panicled Aster 0.1 FACW Symphyotrichum novae-angliae New England aster 0.2 OBL Symphyotrichum puniceum Bristly Aster 0.1 FACU Tradescantia ohiensis 0.3 Common Spiderwort FACW Verbena hastata Blue Vervain 0.1 FACW Verbesina alternifolia Wingstem 0.3 FACW Vernonia fasciculata Common Ironweed 0.1 FAC Veronicastrum virginicum Culver's root 0.1 7 FAC Zizia aurea Golden Alexander 0.2 15.8 Total Weight of Seeds (lbs) Plantings: C- Value Ind. Status Scientific Name Common Name QUANTITY OBL Carex lacustris 500 Common Lake Sedge 7 OBL Carex trichocarpa Hairy-fruited Sedge

WETLAND PLANTINGS AND SEED MIX \L1.08 SCALE: N.T.S.

TOTAL

STREET ADDRESS: 3 S 580 NAPERVILLE ROAL WHEATON, IL 60189-8761 **MAILING ADDRESS:** P.O. BOX 5000 WHEATON, IL 60189-5000 **CONTACT NUMBERS:** PH# 630-933-7200 FAX# 630-933-7204

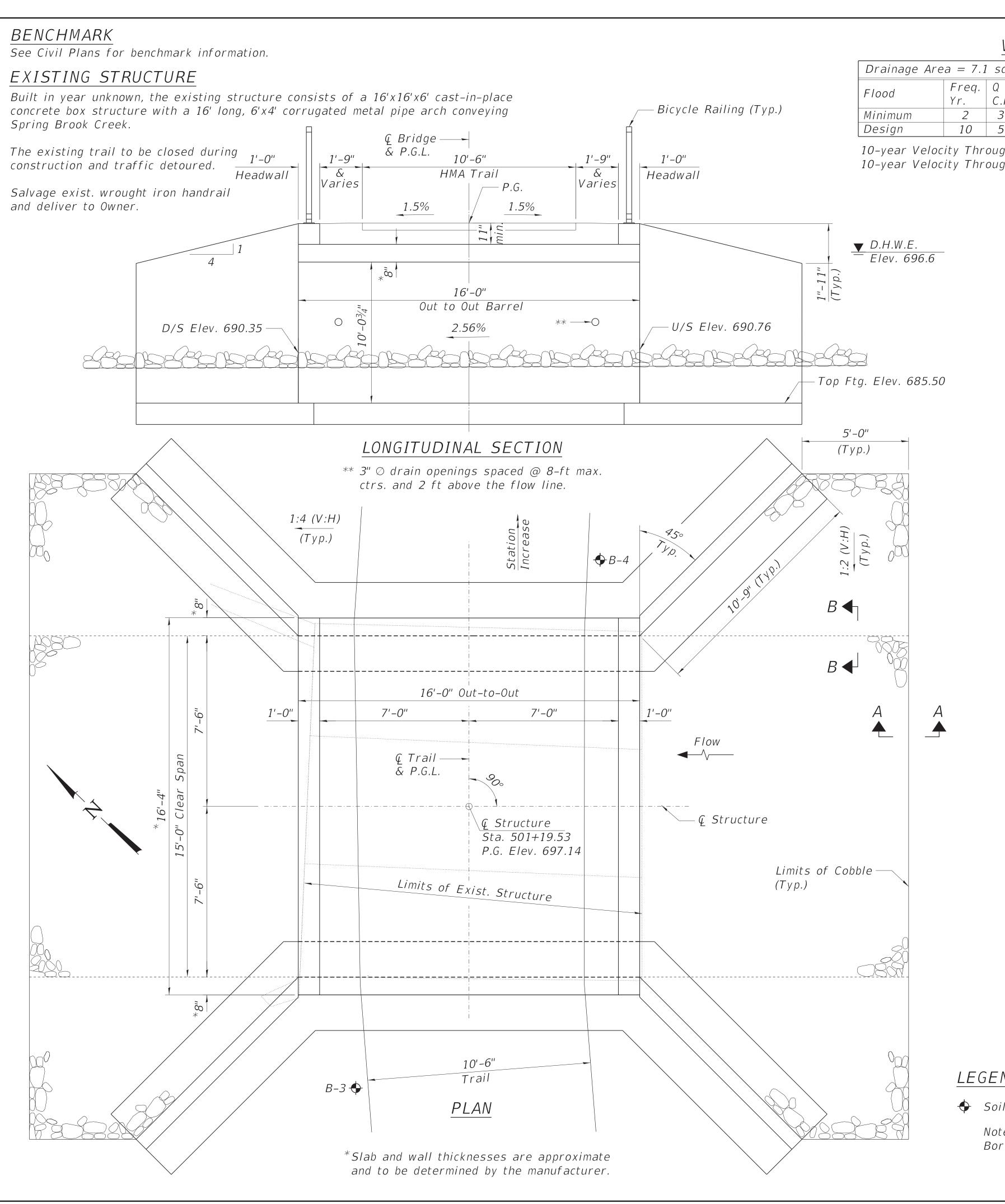
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MARK: DATE: DESCRIPTION: Z-023-101 DRAWN BY: CHECKED BY: August 28, 2024 SCALE: SHEET TITLE:

L1.08

RESTORATION DETAILS

SHEET NO:



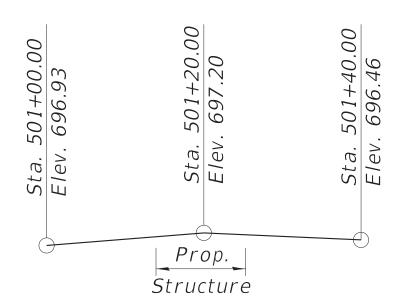
WATERWAY INFORMATION

Drainage Area = 7.1 sq mi									
Flood	Freq.	Q	Openi	ng Ft²	Nat.	Head	- Ft.	Headwa	iter El.
1 1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Minimum	2	311	16.5	42.0	694.6	0	0.6	694.6	695.2
Design	10	549	16.6	49.6	696.6	0	0.2	696.6	696.8

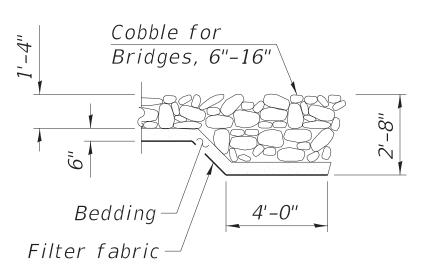
10-year Velocity Through Existing Structure = 1.3 fps 10-year Velocity Through Proposed Structure = 1.9 fps

DESIGN SCOUR ELEVATION TABLE

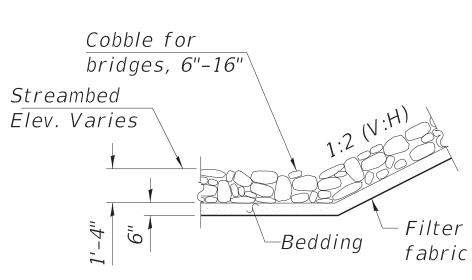
I	Design Scour	Elevations (ft.)
State	North Footing	South Footing
Q2	686.90	687.60
Q10	685.50	685.10
Design	685.60	685.60
Q10	685.50	685.10



EXIST. PROFILE GRADE (Along & Path)



SECTION A-A



SECTION B-B

LEGEND

◆ Soil Boring Location

Boring locations are approximate.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

2009 AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges with 2015 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 5,000 psi

fy = 60,000 psi (Reinforcement)

fy = 65,000 psi (WWF)

LOADING H10 & PEDESTRIAN

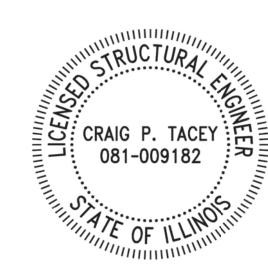
Design Vehicle: H10 (20,000 lbs.) Pedestrian: 90 psf

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.076g Design Spectral Acceleration at 0.2 sec. (SDS) =0.160g Soil Site Class = D

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Data
- 3. Bicycle Railing
- 4. Soil Boring Logs



Date: 02/24/2025 License Expires: 11/30/2026 Apply to Sheets with Company Logo Only: Drawing No. S1-S4

GENERAL PLAN & ELEVATION TRAIL BRIDGE OVER SPRING BROOK CREEK

DUPAGE COUNTY STA. 501+19.53

PROJECT NO. 18-0181 DATE: 02/24/25

WBKENGINEERING L 116 WEST MAIN STREET, SUITE ST. CHARLES, ILLINOIS 60174 (630) 443-7755

 8

ISTRICT NTY ROAD 189

S1

DRAWING NO.

SHEET 1 OF 4

DATE = \$DATE\$ NAME = \$USERNA NAME = \$FILEL\$

GENERAL NOTES

- 1. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 2. See Civil Plans for trail restoration and eroson control details.
- 3. Allowable factored soil bearing preasure is 4,000 psf.
- 4. Per the structure geotechnical report dated December 6, 2018, the granular materials at the footing bearing elevation are considered suitable to construct the structure. However, depending on water levels as well as dewatering methods used by the Contractor, the bottom of excavation may become unstable at the time of construction and therefore a working platform may be needed. The Field Engineer should make the determination that a working platform is needed during excavation based on the field conditions. If a 1-foot working platform is required, it shall be paid for as Rockfill in accordance with the Special Provisions.
- 5. Backfill shall be in accordance with manufacturer's requirements and is to be paid for as Granular Backfill for Structures.
- 6. The structure shall be manufactured by Contech Engineered Solutions, LLC. meeting the requirements of the Contech 0-Series "0115" with precast foundations or approved equivalent.
- 7. In accordance with the special provision for "Three-Sided Precast Concrete Structures," the Contractor shall submit complete design and construction documents to the Engineer for review and approval prior to starting construction. The submittals shall include all calculations, shop drawings, working drawings, etc. necessary to successfully construct the structure. All documents shall be prepared and sealed by Illinois Licensed Structural Engineer(s).

8. Minimum fill height is 0.91 ft.

Pay Limits for Membrane Waterproofing System for Buried Structures Crown Elev. 695.56 Existing Opening Streambed Elev. 690.56 15'-0" Clear Span Precast Foundation (Typ.) Elev. 685.50

* Slab and wall thickness are approximate and to be determined by the manufacturer.

SECTION THRU BARREL

(At Right Angles to CL Structure)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Cobble for Bridges, 6"-16"	Sq. Yd.	107
Filter Fabric	Sq. Yd.	107
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	360
Granular Backfill for Structures	Cu. Yd.	382
Membrane Waterproofing System for Buried Structures	Sq. Yd.	30
Three-Sided Precast Concrete Structures (Special) 15 Ft.	Foot	16
Bicycle Railing	Foot	32
Rockfill	Cu. Yd.	26
Form Liner Textured Surface	Sq. Ft.	132
Staining Concrete Structures	Sq. Ft.	132

*** To be coordinated with the FPDDC.

> DREST PRESERVE DISTRIC OF DUPAGE COUNTY 3S580 NAPERVILLE ROAD WHEATON, IL 60189 (630) 933-7200

> > WBKENGINEERING LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755



PROJECT NO. 18-0181

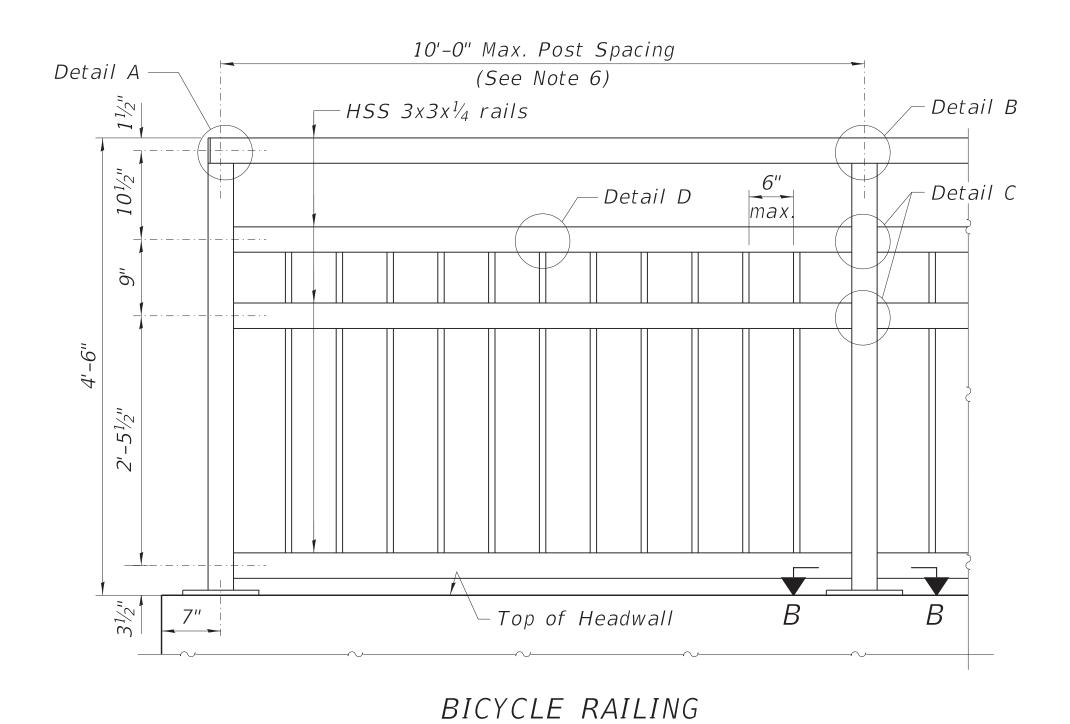
DATE: 02/24/25

SHEET 2 OF 4

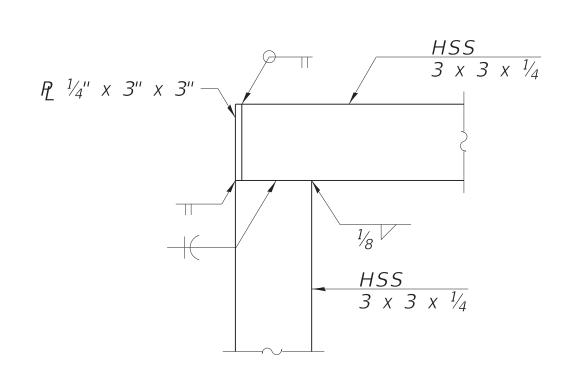
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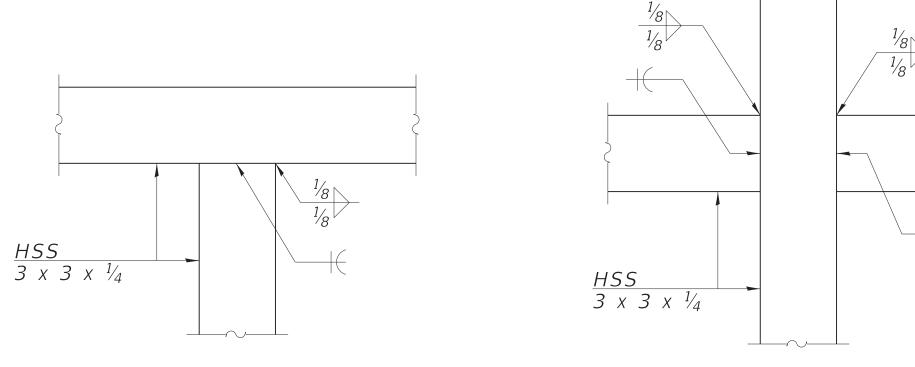
S2

^{**} Working Platform of Coarse Aggregate (If Necessary. See Note 4)



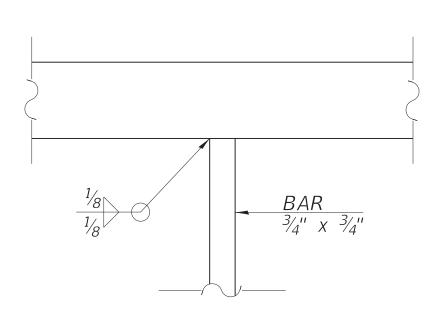
ELEVATION



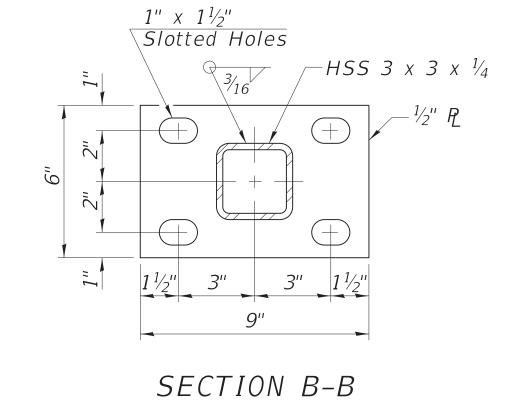


DETAIL B





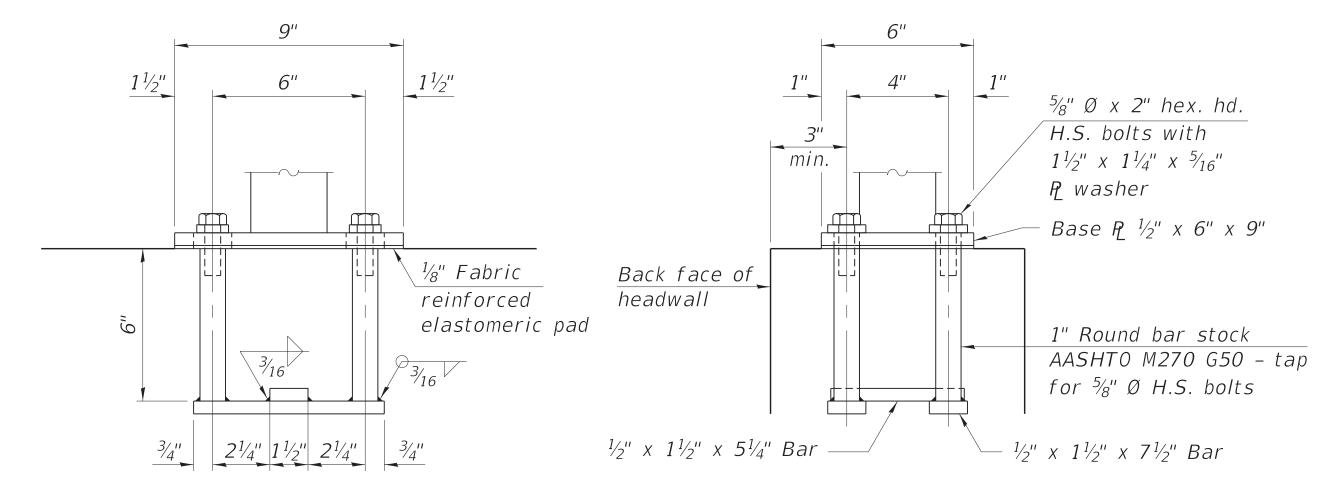
DETAIL A



DETAIL D



Item	Unit	Quantity
Bicycle Railing	Foot	32



ANCHORAGE ASSEMBLY

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $\frac{5}{8}$ " Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

- 1. Place reinforcement bars to miss anchor rod locations.
- 2. CVN testing is not required for the HSS tubing used in the Bicycle Railing.
- All fully threaded anchor rods shall be ASTM F1554 grade 105.
- 5. The post base plate shall be fastened to the headwall snug
- 6. The Contractor shall determine the final post spacing based on the headwall length provided by the selected fabricator of the Precast Three-Sided Structure. The post spacing shall not exceed 10'-0" and adhere to the details and dimensions provided herein.
 - using an Organic Zinc-Rich/ Expoy/ Urethane Paint System. The finish shall be powder coated in a color selected by the Forest Preserve District of DuPage County. The exact color and paint manufacturer shall be submitted to the Engineer in accordance with the Special Provisions for approval prior to painting any railing elements. This work shall be included in the unit cost per Foot for "Bridge Railing."

All heavy hex nuts shall be according to ASTM A 563 grade DH.

tight and given an additional $\frac{1}{8}$ " turn.

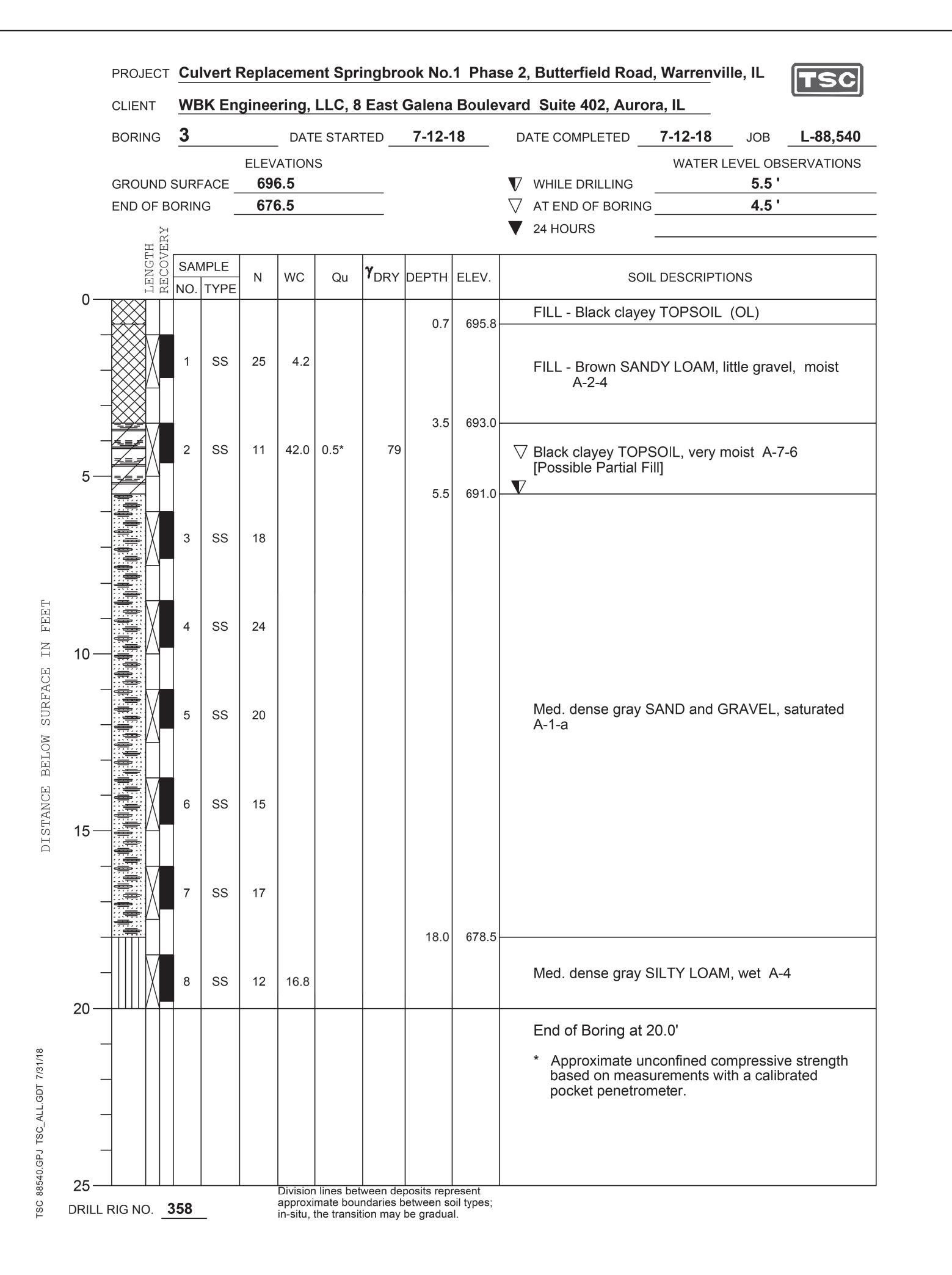
7. All post, railing, anchor devices, and bent plates shall be painted

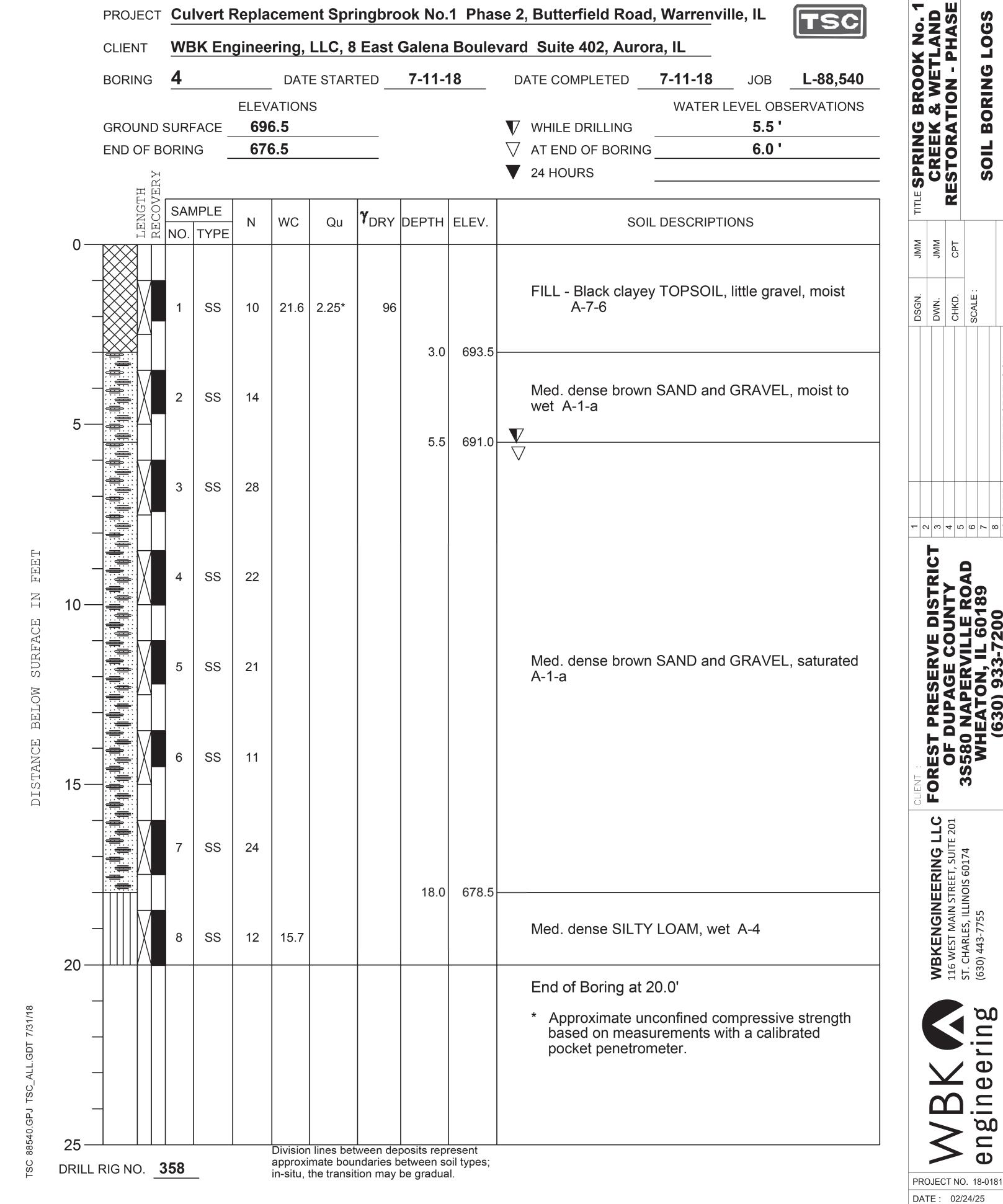
WB engine PROJECT NO. 18-0181 DATE: 02/24/25 SHEET 3 OF 4 DRAWING NO.

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S3







DATE NAME NAME

DRAWING NO. **S4**

SHEET 4 OF 4

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