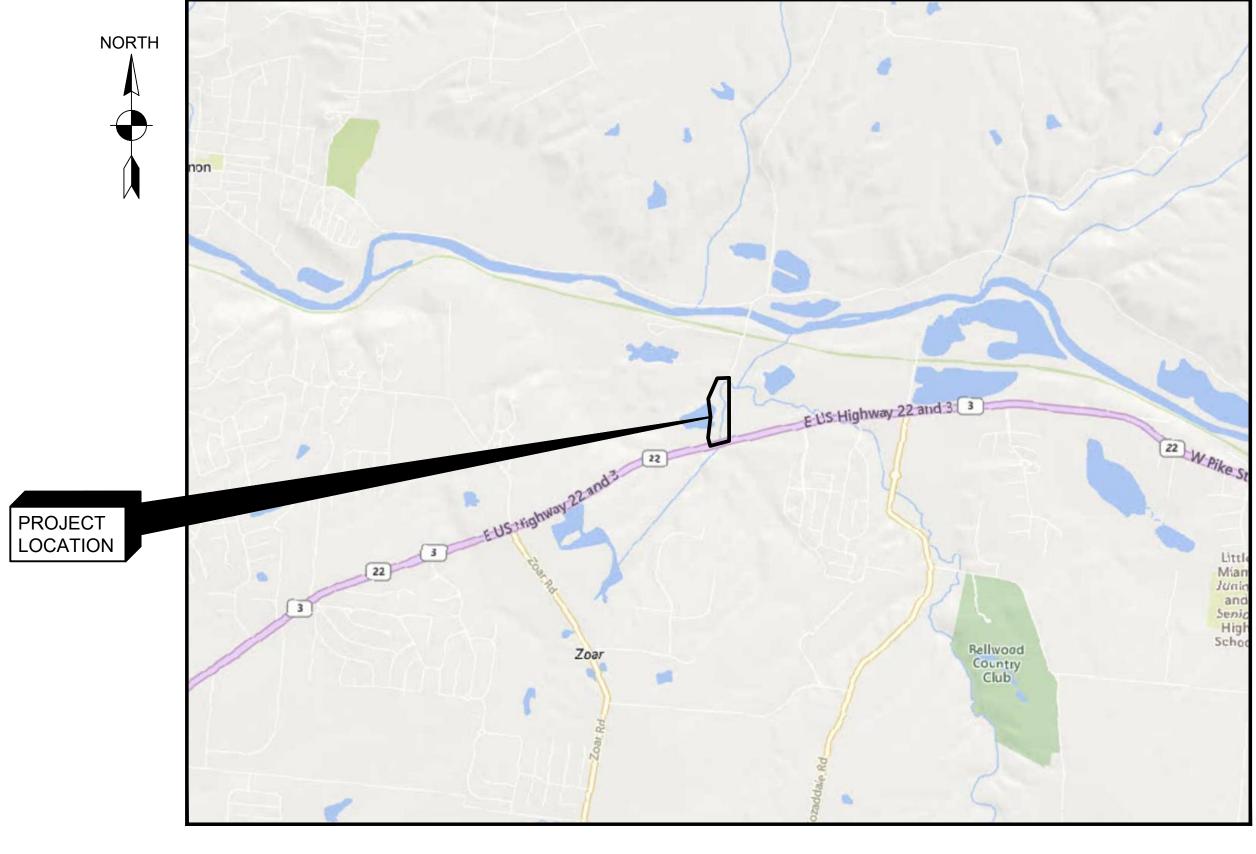
HAMILTON TOWNSHIP

MOUNTS PARK STREAM RESTORATION AND IMPROVEMENTS - PHASE 1 WITH PHASE 3 ALTERNATE

PROJECT NO. 173410744 SEPTEMBER 8, 2025



2 WORKING DAYS
BEFORE YOU DIG

CALL 800.362.2764 OHIO UTILITIES PROTECTION SERVICE

NON-MEMBERS MUST BE CONTACTED DIRECTLY

VICINITY MAP

NOT TO SCALE

JEFF WRIGHT
TOWNSHIP ADMINISTRATO
HAMILTON TOWNSHIP

BRYCE RIZZO, PE PROJECT ENGINEER

STANTEC CONSULTING SERVICES, INC

State of Ohio

State Board of Registration for Professional Engineers and Surveyors

2024 - 2025

Professional Engineer

Bryce Rizzo

PE.91671 Expiration Date: 12/31/2025

Megan O'Callaghan

BOARD CHAIRMAN

John Scenhage
EXECUTIVE DIRECTOR

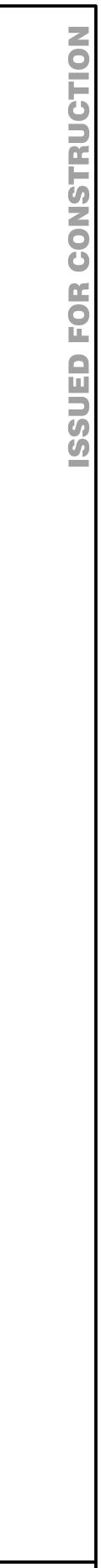


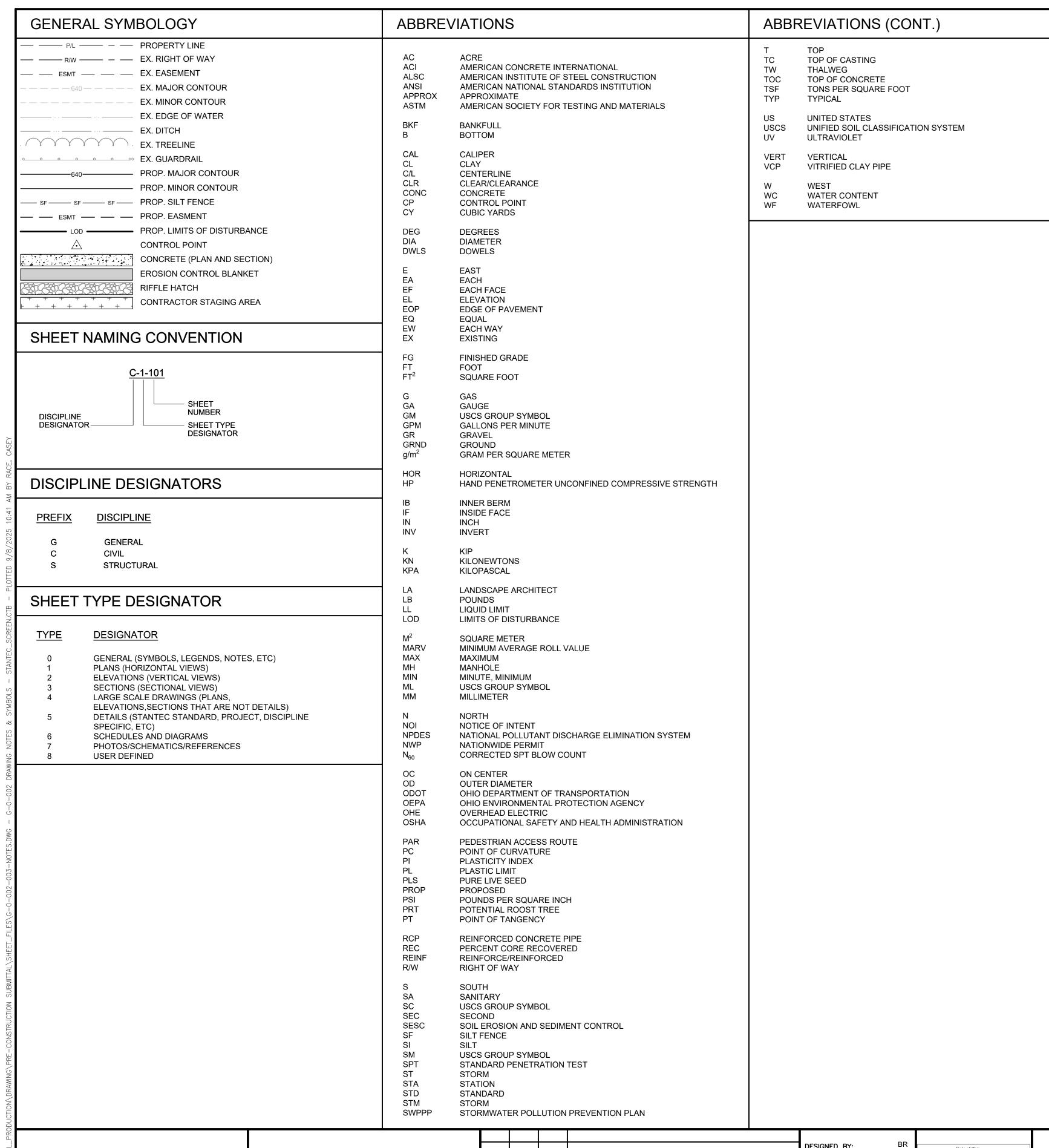
PROJECT SET: 01 OF 15

G SHEET: 01 OF 03

SHEET NO.:

G-0-001





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MOUNTS PARK STREAM RESTORATION AND IMPROVEMENTS - PHASE 1 PROJECT NO. 173410744

GENERAL
DRAWING NOTES & SYMBOLS



PROJECT SET: 02 of 15

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G SHEET: 02 OF 03

SHEET NO.:

G-0-002

ADDITIONAL COMPENSATION

THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES FOR A COMPLETE PROJECT AS SHOWN AND DESCRIBED IN THE PLANS AND SPECIFICATIONS. THE PRICE FOR ITEMS OF WORK OR MATERIALS SHOWN ON THE PLANS OR PROVIDED FOR IN THE SPECIFICATIONS FOR WHICH NO SEPARATE UNIT PRICE IS GIVEN SHALL BE DISTRIBUTED AMONG THE VARIOUS BID ITEMS. SUBMISSION OF A BID SHALL BE CONSIDERED EVIDENCE THAT THE BIDDER IS SATISFIED WITH THE PLANS AND CONDITIONS AS SHOWN. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COMPLIANCE WITH THE PLANS. SPECIFICATIONS.

CONTRACTOR REQUIREMENTS

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING SUBMITTALS 30 DAYS PRIOR TO STARTING WORK AT THE

CONTROL OF WATER PLAN

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY ACCESS TO THE WORK AREAS. DEWATERING OR ISOLATING THE WORK AREA FROM INFLOW AS NECESSARY, AND PROVIDING AND MAINTAINING EROSION CONTROL MEASURES IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

ALL DISCHARGE FROM DEWATERING ACTIVITIES SHALL PASS THROUGH A SEDIMENT CONTROL MEASURE SUCH AS A DEWATERING FILTER BAG OR APPROVED EQUAL PRIOR TO BEING DISCHARGED TO THE OPEN CHANNEL. BYPASS FLOW IS NOT REQUIRED TO BE UNTREATED. RELEASE OF WATER FROM DEWATERING ACTIVITIES IS NOT PERMITTED.

THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING FEATURES, INFRASTRUCTURE, AND UTILITIES WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL EXISTING FEATURES, INFRASTRUCTURE, AND UTILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.

THE CONTRACTOR SHALL DISPOSE OF ALL NON-ORGANIC WASTES SUCH AS OLD GUNITE, PIPING, ROCK RUBBLE ETC. AT AN APPROVED LANDFILL OR, OTHER SUITABLE DISPOSAL SITES AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, COURT ENTRIES, AND RIGHTS OF ENTRY OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY.

GRADES AND ELEVATIONS SHOWN ON THE PLANS SHALL NOT BE REVISED UNDER ANY CIRCUMSTANCES WITHOUT FIRST OBTAINING APPROVAL FROM ENGINEER. INVERT ELEVATIONS OF IN-STREAM STRUCTURES SHALL NOT DEVIATE FROM THE PLAN ELEVATIONS BY MORE THAN 0.1 FOOT.

NON-RUBBER TIRED VEHICLES: NON-RUBBER TIRED VEHICLES SHALL NOT BE OPERATED ON PUBLIC STREETS OR ROADS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADJACENT ROADWAYS IN GOOD DRIVING CONDITION THROUGHOUT THE DURATION OF THE PROJECT. HAMILTON TOWNSHIP MAY GRANT OTHER EXCEPTIONS WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE APPROPRIATE JURISDICTION.

SAFETY: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS. TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY, IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS ONSITE.

TEMPORARY CONSTRUCTION FILL: ANY TEMPORARY CONSTRUCTION ACCESS FILL WITHIN "WATERS OF THE US" (EG., STREAMS, WETLANDS) SUBJECT TO US ARMY CORPS OF ENGINEERS (USACE) REGULATORY JURISDICTION WILL REQUIRE AUTHORIZATION BY THE USACE PRIOR TO THE PLACEMENT OF TEMPORARY FILL VIA THE WATERWAY PERMITTING PROCESS (404/401). ALL TEMPORARY CONSTRUCTION ACCESS FILLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE WATERWAY PERMITS (404/401) AND SHALL NOT EXCEED THE QUANTITIES AND/OR SURFACE AREA OF TEMPORARY FILL THAT HAS BEEN PERMITTED. ADDITIONALLY, SOME TEMPORARY CONSTRUCTION ACCESS FILLS MAY ONLY BE ALLOWED IN SPECIFIC LOCATIONS. PER THE WATERWAY PERMITS (404/401) AND/OR OTHER ENVIRONMENTAL COMMITMENTS AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH ANY SUCH LOCATIONAL RESTRICTIONS TO AVOID ENVIRONMENTALLY SENSITIVE AREAS. THE WATERWAY PERMITS ARE INCLUDED AS PART OF CONTRACT

MATERIAL SHALL BE DISPOSED OF OFF-SITE AT A LOCATION ARRANGED BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS REGARDING THE DISPOSAL OF

CONSTRUCTION LIMITS

PROJECT LIMITS ARE SHOWN ON THE DRAWINGS.

NATIONWIDE PERMIT REQUIREMENTS

THE CONTRACTOR SHALL COMPLY WITH THE TERMS AND CONDITIONS FOR 401 AND 404 PERMITS AS ATTACHED IN THE CONTRACT DOCUMENTS.

NO TREES SHALL BE REMOVED OUTSIDE OF THE DISTURBANCE LIMITS AS SHOWN ON THE PLANS WITHOUT EXPLICIT WRITTEN PERMISSION PROVIDED TO THE CONTRACTOR BY HAMILTON TOWNSHIP.

A MIST-NET SURVEY WAS NOT PERFORMED FOR THIS PROJECT. THEREFORE, SEASONAL CLEARING RESTRICTIONS WILL APPLY. TREES GREATER THAN 3" DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED BETWEEN APRIL 1ST AND SEPTEMBER 30TH.

IF AT ANY TIME THERE ARE CHANGES TO THE SCOPE OF THE PROJECT THAT ARE NOT IN COMPLIANCE WITH THE PERMIT INVOLVING IMPACTS TO STREAMS OR WETLANDS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER BEFORE BEGINNING MODIFIED WORK.

NO WORK SHALL BE PERFORMED THAT WOULD REQUIRE OHIO EPA, ODNR, OR ADDITIONAL USACE PERMITTING WITHOUT PRIOR CONSENT FROM HAMILTON TOWNSHIP AND THE APPLICABLE REGULATORY AGENCIES.

ACCESS TO PROJECT

CONTRACTOR SHALL BE SUBJECT TO THE REQUIREMENTS OF THE TOWNSHIP REGARDING ACCEPTABLE HAUL ROUTES. ALL HAULING ROUTES SHALL BE COORDINATED WITH HAMILTON TOWNSHIP BY THE CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL PERMITS AND PROVIDING ALL NECESSARY MAINTENANCE OF TRAFFIC MEASURES THAT MAY BE REQUIRED BY HAMILTON TOWNSHIP INCLUDING ANY MEASURES ABOVE AND BEYOND THOSE SHOWN ON THE PLANS AT THE CONTRACTORS

SURVEY NOTES

- 1. HORIZONTAL DATUM IS OHIO STATE PLANE, SOUTH ZONE NAD83(2011) GRID NORTH
- 2. VERTICAL DATUM IS NAVD 1988.
- BASED ON GPS OBSERVATIONS PERFORMED IN MAY, 2024.
- PERTINENT RECORDS USED ARE AS SHOWN HEREON.
- 4. THIS MAP AND THE SURVEY ON WHICH IT IS BASED HAVE BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND ARE NOT INTENDED TO REFLECT ALL EASEMENTS, ENCUMBRANCES, OR OTHER CIRCUMSTANCES AFFECTING THE TITLE TO THE PROPERTY SHOWN HEREON.
- 5. THE UTILITIES, SEWERS AND THEIR LOCATIONS SHOWN HEREON ARE DERIVED FROM A COMBINATION OF FIELD SURVEYING OF VISIBLE UTILITY STRUCTURES, AVAILABLE PLANS AND A LEVEL C SUBSURFACE UTILITY INVESTIGATION. ACTUAL LOCATION OF UTILITIES MAY VARY FROM THE DEPICTED LOCATIONS OTHER UNKNOWN UTILITIES MAY EXIST AND NECESSARY PRECAUTIONS SHOULD BE FOLLOWED WHEN EXCAVATING. ADDITIONAL INVESTIGATION SUCH AS VIDEOTAPING PIPE RUNS, NON-DESTRUCTIVE EXPOSURE OF UTILITIES MAY DETERMINE THE UNKNOWN UTILITY INFORMATION. CONTACT OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 1-800-362-2764 PRIOR TO EXCAVATION.

<u>UTILITIES</u>

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO PREVENT DAMAGE DUE TO CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBSERVE THE LOCATION OF ALL OVERHEAD TELEPHONE AND ELECTRIC LINES IN THE WORK AREA AND TAKE ALL NECESSARY STEPS TO PREVENT DAMAGE TO THESE LINES, LOSS OF SERVICE, AND INJURY TO WORKERS.

PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES NOT LESS THAN 2 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. EXPECT AS NOTED BELOW FOR WORK ADJACENT TO UNDERGROUND GAS LINES.

THE CONTRACTOR SHALL MAKE THEIR OWN INVESTIGATION INTO THE LOCATION OF UTILITIES WITHIN THE PROJECT SITE AND ANY WORK ASSOCIATED WITH THESE UTILITIES MUST BE APPROVED BY THEIR RESPECTIVE OWNERS AND HAMILTON TOWNSHIP. CONTRACTOR SHALL CALL OUPS 2 DAYS BEFORE INITIATING WORK.

TREE PROTECTION

CONTRACTOR SHALL NOT DAMAGE TREES AND OTHER DESIRABLE VEGETATION OUTSIDE THE PROJECT WORK AREA DURING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL INSTALL TREE PROTECTION PER PLAN. ANY TREE OR AREA NOT DELINEATED FOR TREE CLEARING SHALL BE PROTECTED.

CONSTRUCTION PHASES

PHASE 1 OF THE MOUNTS PARK STREAM RESTORATION AND IMPROVEMENTS SHALL BE THE CONSTRUCTION OF TRIBUTARY 1, A CASCADE STEP-POOL CHANNEL CONVEYING FLOW FROM THE SOUTH OF THE SITE TO MOUNTS PARK LAKE. A BERM SHALL BE BUILT TO DISCOURAGE FLOWS FROM RETURNING TO THE ABANDONED CHANNEL

PHASE 2 SHALL NOT BE INCLUDED AS PART OF THIS CONTRACT AND CONSTITUTES THE CONSTRUCTION OF A FLOODPLAIN SWALE TO CAPTURE FLOOD FLOWS OVERFLOWING STUBBS MILLS RD FROM BIGFOOT RUN. THE LENGTH OF THE ABANDONED CHANNEL BETWEEN THE SWALE AND THE RELICT CONFLUENCE OF FLOOD FLOWS AT MOUNTS PARK LAKE SHALL BE FILLED TO DISCOURAGE FLOW FROM CONTINUING TO FOLLOW THE EXISTING PATH

PHASE 3 SHALL INCLUDED THE FILLING OF THE ABANDONED CHANNEL FROM THE BERM AT TRIBUTARY 1 TO THE EXTENTS OF FILL DELINEATES FOR PHASE 3 IN THE GRADING PLANS.

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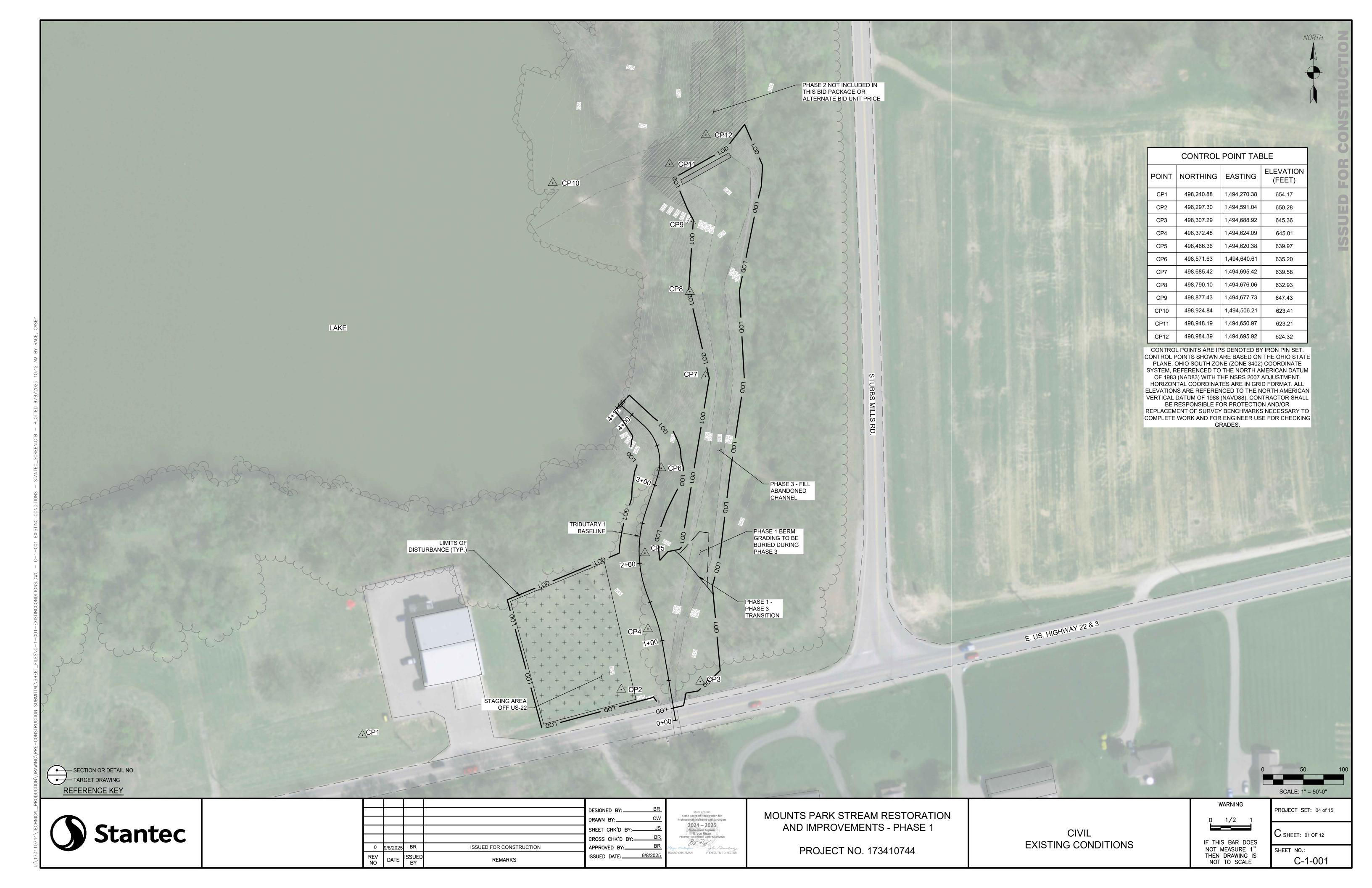
MOUNTS PARK STREAM RESTORATION AND IMPROVEMENTS - PHASE 1

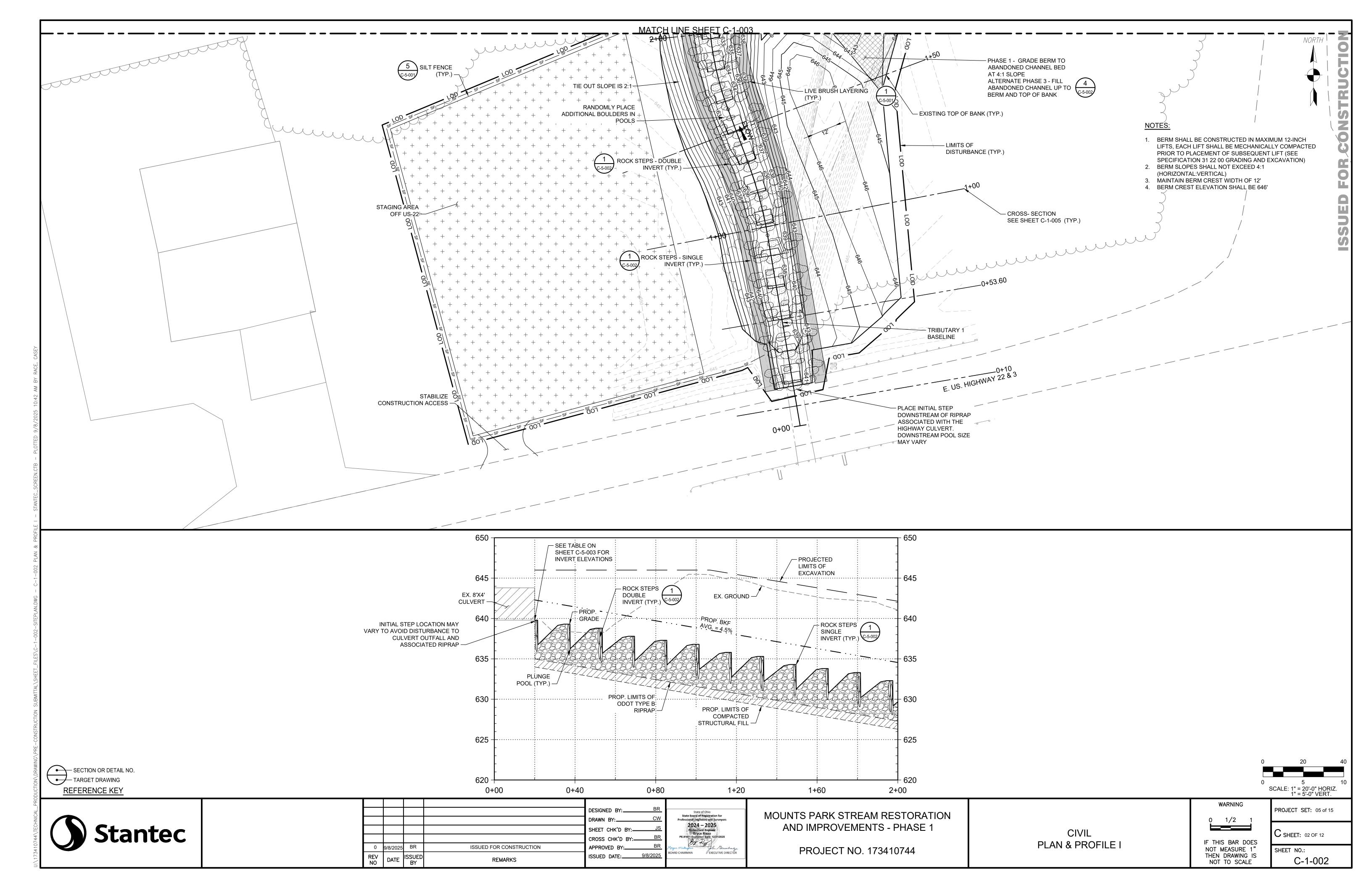
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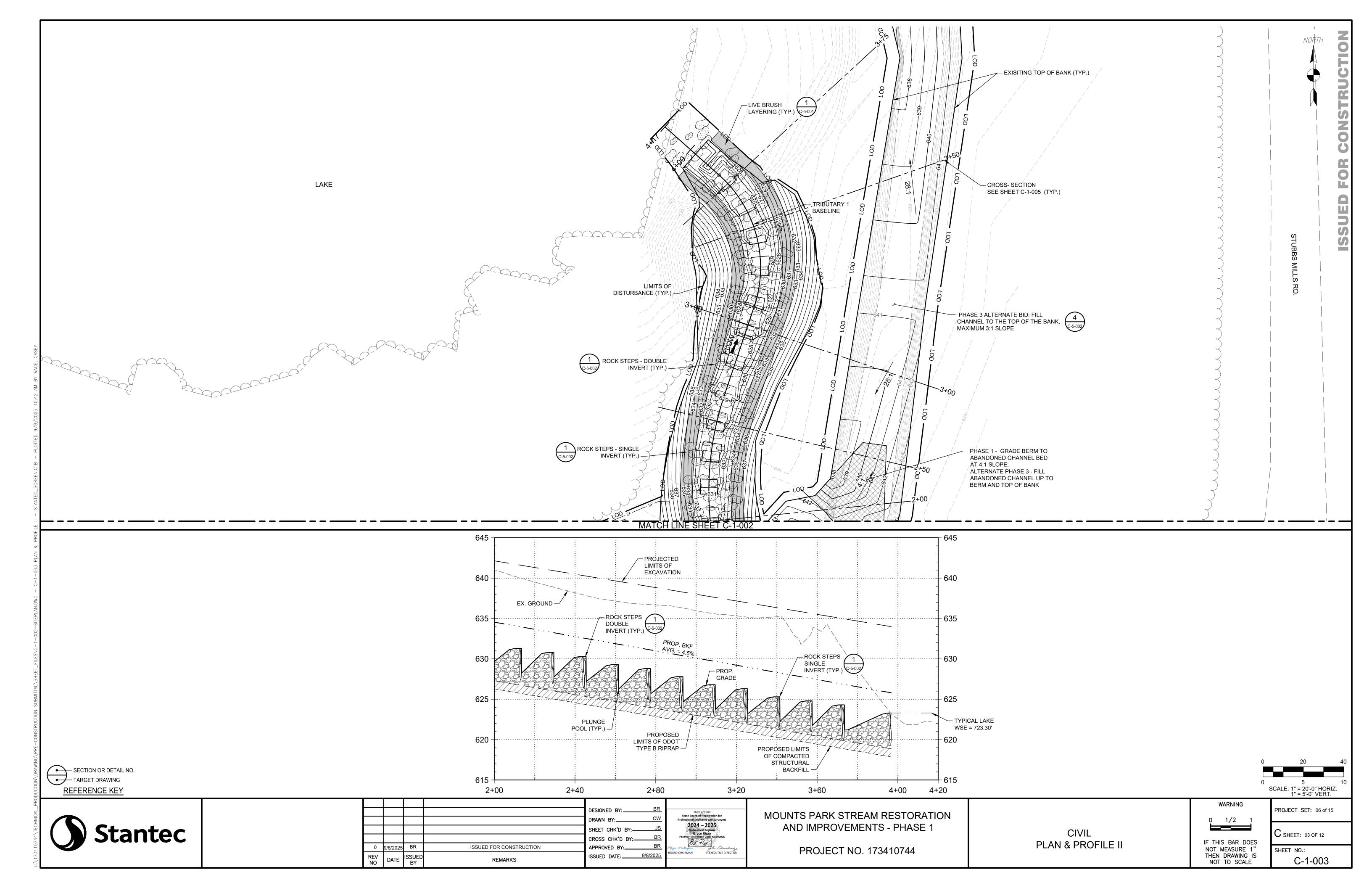
GENERAL GENERAL NOTES

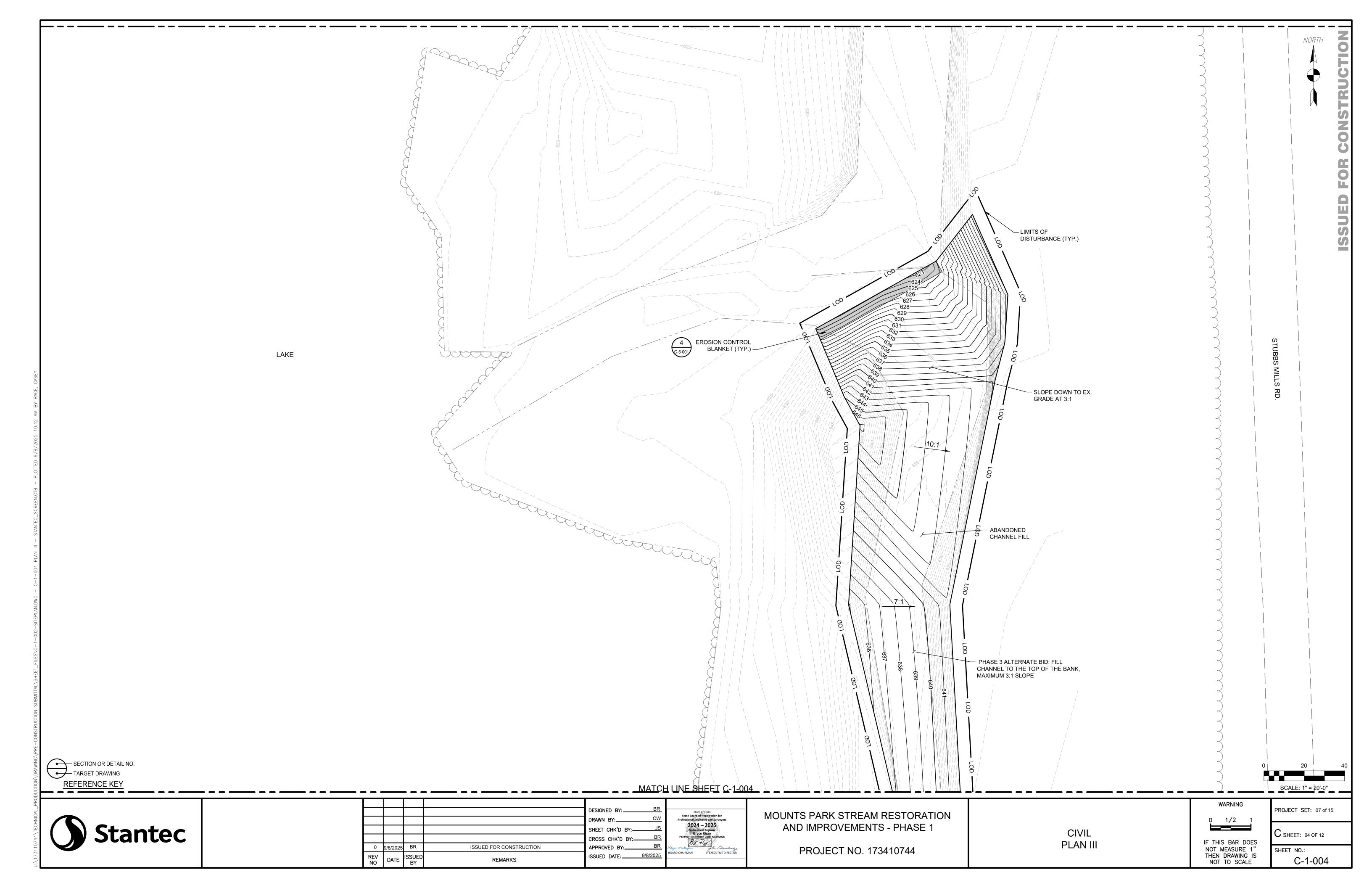
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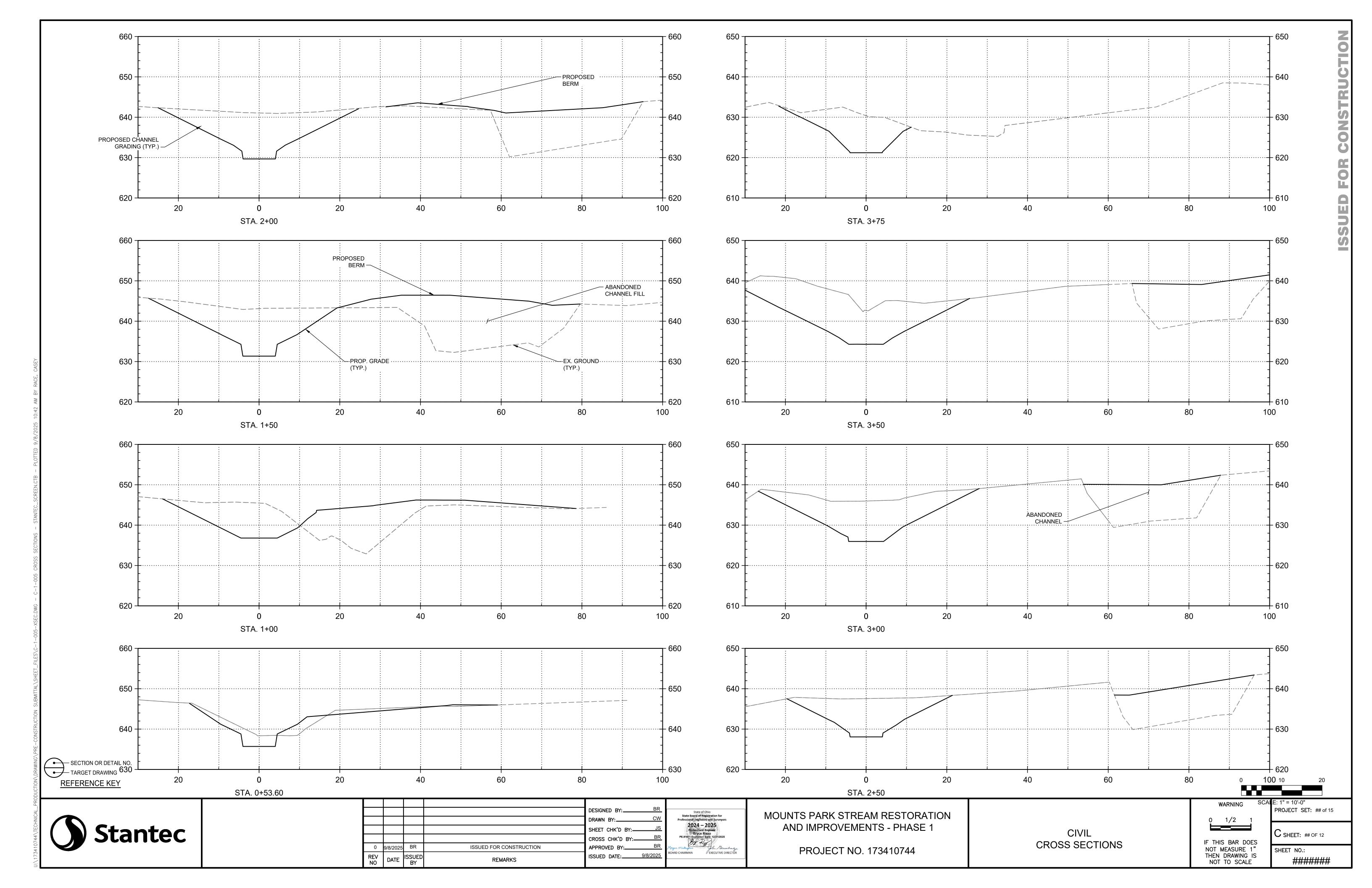
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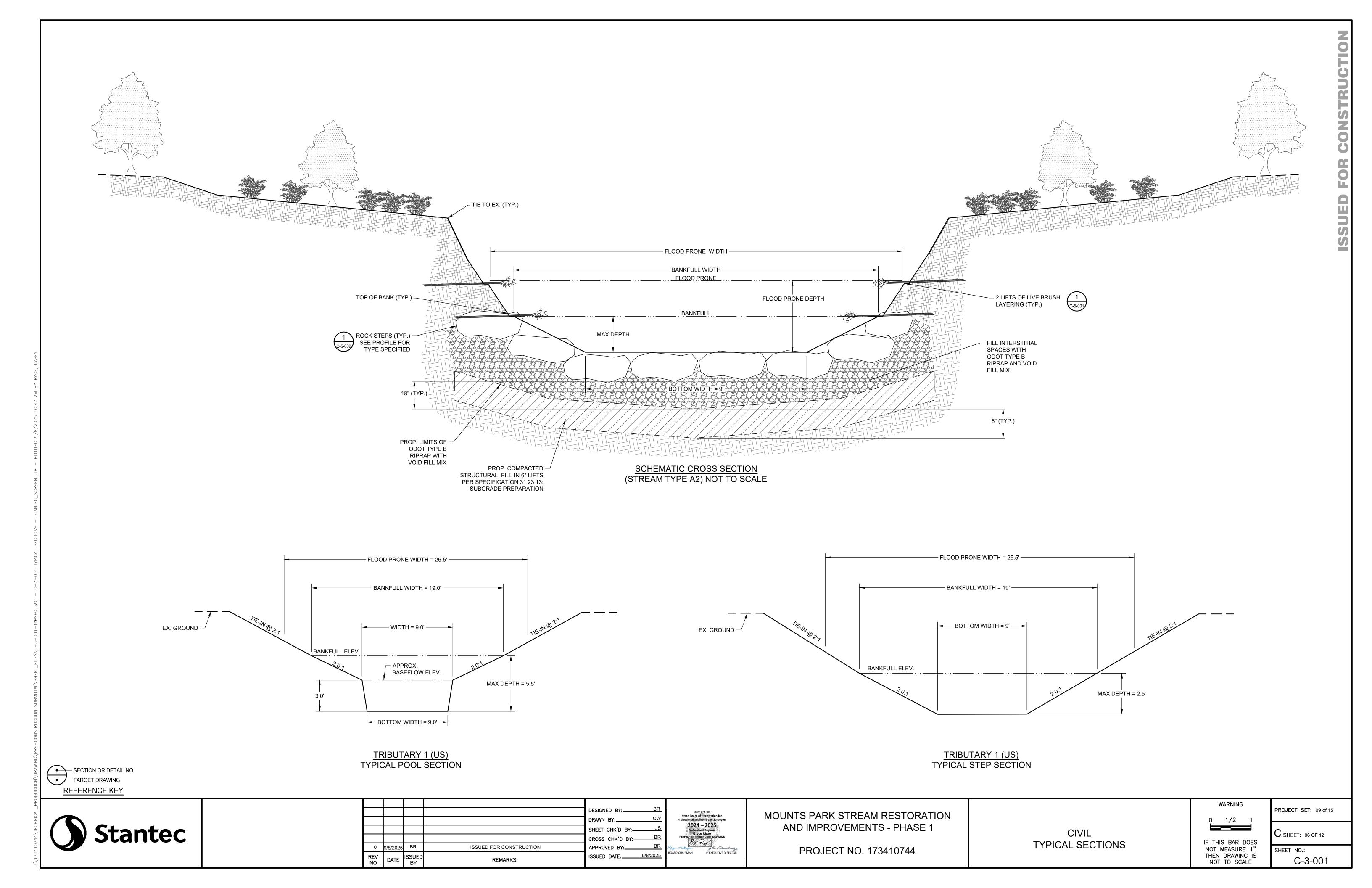


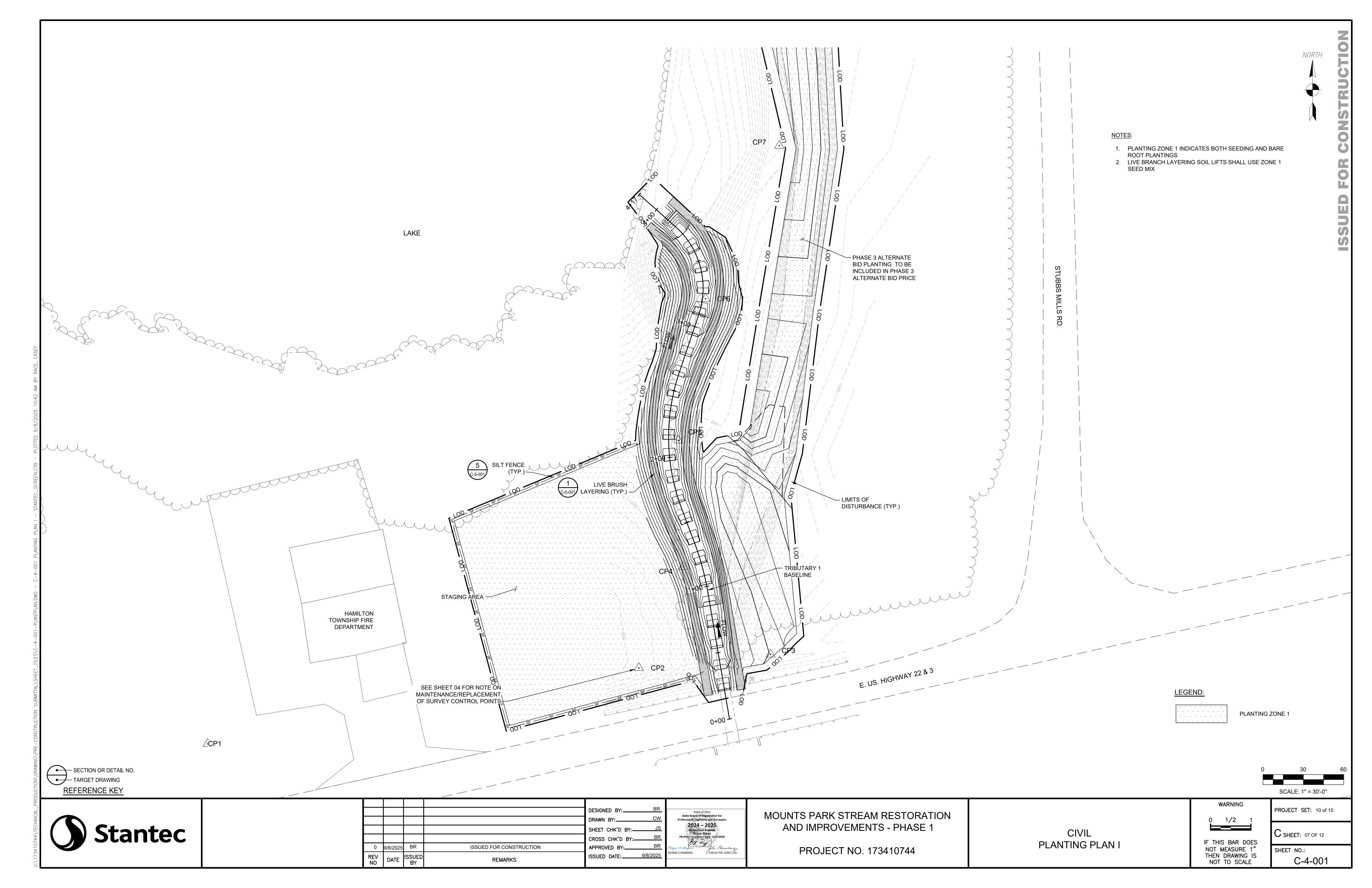


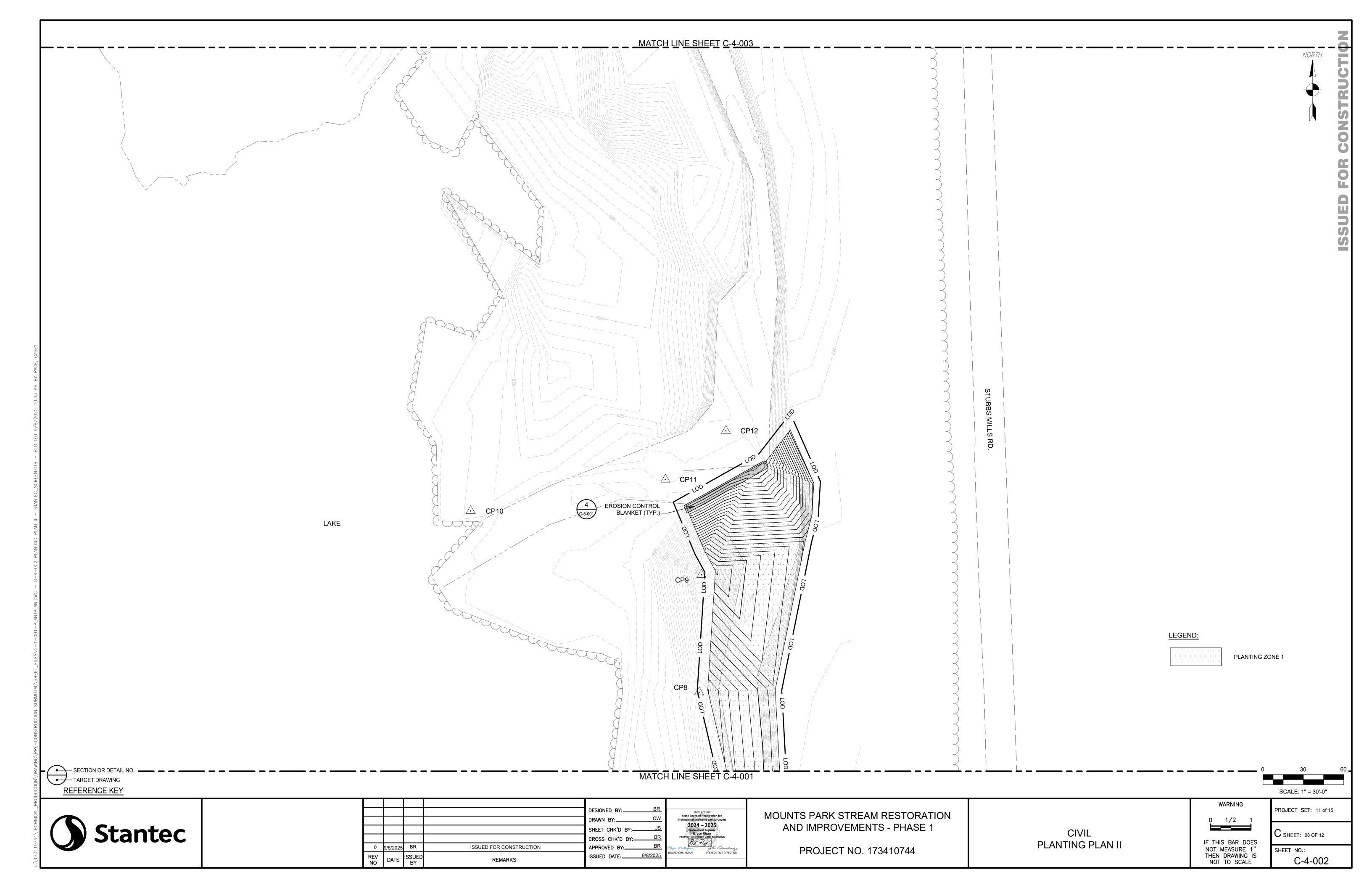




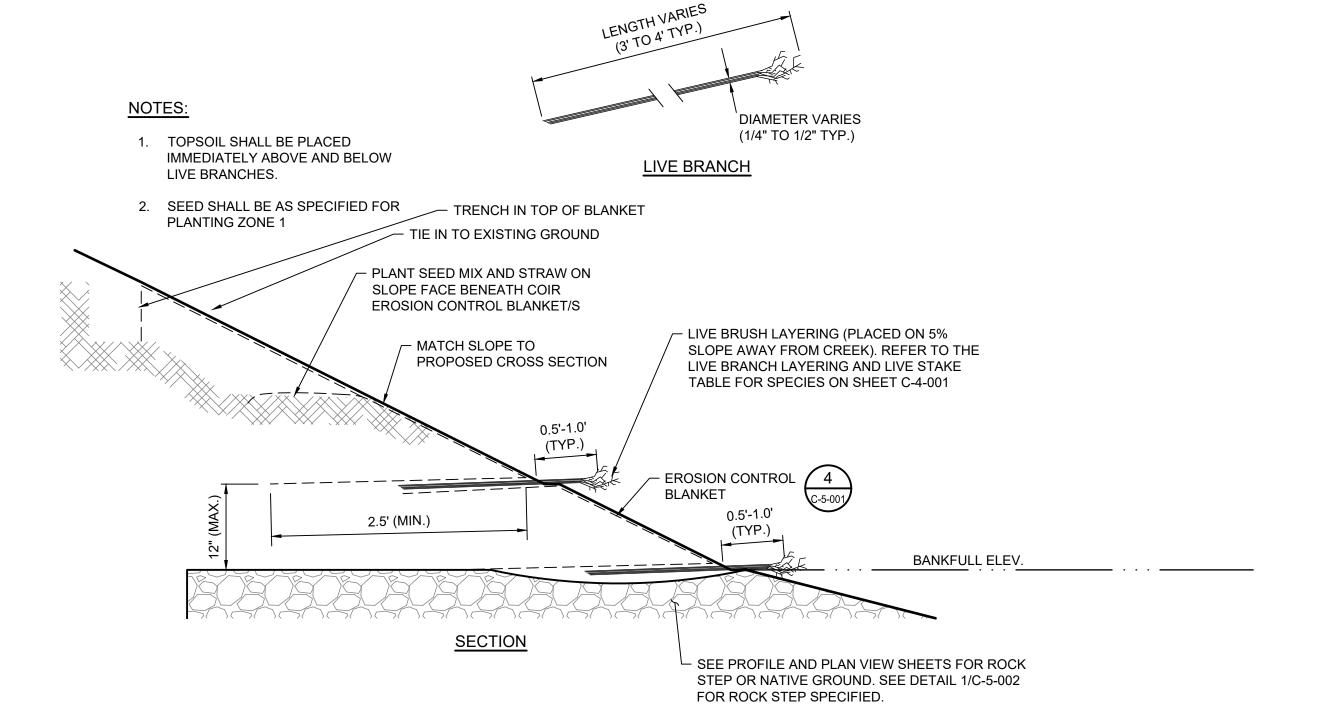








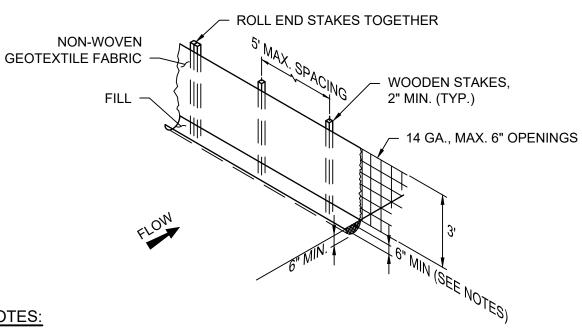
PLAN - SYMBOL



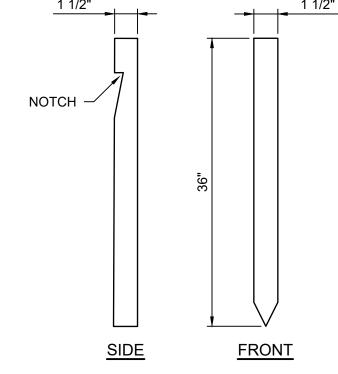
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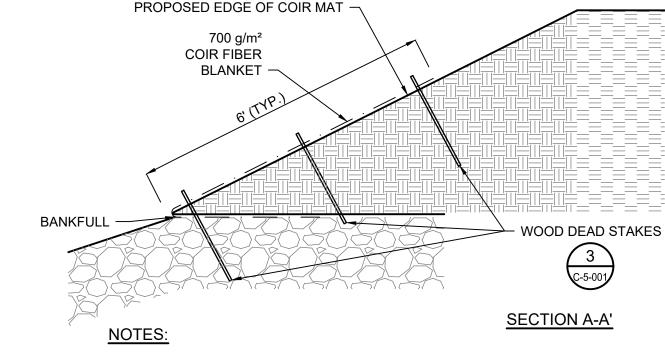
- 1. EROSION CONTROL BLANKET DELINEATED ON SHEET C-1-0003 SHALL HAVE LIVE BRUSH LAYERING UNDER NEATH BEFORE PLACEMENT IN ACCORDANCE WITH THIS
- 2. BACKFILL ON TOP OF BANK TREATMENT WITH 3 INCHES OF TOPSOIL TO CREATE A PLANTING SURFACE SLOPED APPROXIMATELY 5% AWAY FROM CREEK. WIDTH OF PLANTING SURFACE SHOULD BE A MINIMUM OF 2.5 FEET. PLACE TOPSOIL ON PLANTING SURFACE AND PLACE LIVE BRUSH SUCH THAT 2/3 OF THE BRUSH WILL BE COVERED WITH SOIL AND 1/3 OF THE BRUSH IS EXPOSED, EXTENDING BEYOND THE FACE OF THE BANK. PLACE A MINIMUM OF 5 STEMS PER RUNNING FOOT OF BANK IN A SLIGHT CRISS-CROSS PATTERN. BACKFILL ABOVE LIVE BRUSH WITH A 3 INCH LAYER OF TOPSOIL.
- 3. USING A 6.5-FOOT WIDE STRIP OF EROSION CONTROL BLANKET (700 g/m²), LAY THE BLANKET OVER THE LIVE BRUSH LAYERING SUCH THAT A MINIMUM OF TWO AND A HALF FEET OF BLANKET IS OVER THE NEWLY PLACED LIVE BRUSH AND TOPSOIL. LAY THE BLANKET DOWN-SLOPE AND PLACE A ONE-FOOT-THICK LAYER OF SOIL OVER THE BLANKET. GENTLY COMPACT THIS SOIL BY USING THE EXCAVATOR BUCKET SO THAT THE UNDERLYING BRUSH AND BANK TREATMENT ARE NOT DISPLACED OR DAMAGED. WHEN STARTING TO PLACE THE FILL, OFFSET THE FILL APPROXIMATELY 3 TO 4 INCHES BACK FROM THE FACE OF THE SLOPE TO CREATE A SLIGHT TERRACE. ON THE OUTER FACE OF THE SLOPE, WHICH WILL BE EXPOSED TO FLOW, PLACE 2 INCHES OF TOPSOIL, SEED AND COVER WITH STRAW MULCH TO REDUCE LOSS OF SOIL THROUGH OPENINGS IN THE BLANKET. WRAP THE EROSION CONTROL BLANKET OVER THE FACE OF THE SLOPE AND CREATE A NEW PLANTING SURFACE FOR THE NEXT LAYER OF LIVE BRUSH ON A 5% SLOPE AWAY FROM THE CREEK. SOIL WRAP CAN BE COMPLETED WITH SOD MAT HARVEST ON SITE. SOD MATS SHALL BE STAKED IN A SIMILAR MATTER AND MATS SHOULD BE A MINIMUM OF 1 SQUARE YARD IN SIZE.
- 4. REPEAT STEP 2 ABOVE TO BUILD THE NEXT SOIL WRAP AND LIVE BRUSH LAYER.
- 5. RECONSTRUCT THE SLOPES SUCH THAT THE OVERALL SLOPE MATCHES THE PROPOSED CROSS SECTION SHAPE.
- 6. ABOVE THE LAST LIVE BRUSH LAYER, PLACE THE EROSION CONTROL BLANKET ON TOP OF THE LAST LIFT IN THE LIVE BRUSH TRENCH, SIMILAR TO STEP 2, AND ADDITIONAL EROSION CONTROL BLANKET ON THE FACE OF THE SLOPE AND EXTEND THE BLANKET 6 FEET UP THE SLOPE FROM THE BANKFULL ELEVATION UP ONTO THE BANKFULL BENCH AREA. BURY THE TOP EDGE OF THE BLANKET IN A TRENCH 6 INCHES DEEP. SECURE THE FABRIC WITH STAKES PER THE PLANS. IF NECESSARY, INSTALL A SECOND ROLL OF EROSION CONTROL BLANKET ON THE BANKFULL BENCH.
- 7. IF LIVE BRANCHES ARE NOT INSTALLED (CONSTRUCTION OUTSIDE OF DORMANCY) OR DO NOT SURVIVE, LIVE STAKES SHALL BE INSTALLED ALONG THE STRUCTURE BETWEEN THE INNER BERM AND BANKFULL AT A DENSITY OF 2 STAKES PER SQUARE YARD.SUPPLEMENTAL LIVE STAKES SHALL BE INSTALLED DURING THE FIRST DORMANT PERIOD AFTER CONSTRUCTION, TYPICALLY OCTOBER 31 - MARCH
- 8. STRUCTURE MAY BE MODIFIED IN FIELD BY ENGINEER.

∖DETAIL - LIVE BRUSH LAYERING

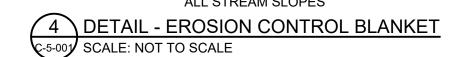


NOTES:





- EROSION CONTROL BLANKET SHALL BE INSTALLED IN THE LOCATIONS DETAILED IN THE LANDSCAPING PLAN.
- COIR FIBER TOP BLANKET 2. BANK SLOPES SHALL RECEIVE EROSION CONTROL BLANKET FROM BANKFULL TO 6 FEET UP THE SLOPE FROM BANKFULL INCLUDING THE PROPOSED LIFTS.
 - RAKE SOIL SMOOTH, ADD SEED, AND MULCH BEFORE INSTALLING COIR FIBER BLANKET.
 - 4. BLANKET SHALL BE LAID PARALLEL TO FLOW. OVERLAP BETWEEN ADJACENT RUNS OF BLANKET SHALL BE A MINIMUM OF SIX (6) INCHES. BLANKET SHALL OVERLAP IN THE DOWNSTREAM DIRECTION PARALLEL TO FLOW AND DOWN-SLOPE PERPENDICULAR TO FLOW.
 - 5. ALL MATERIALS ARE TO BE APPROVED BY ENGINEER OR OWNER'S ONSITE CONSTRUCTION
 - 6. ADDITIONAL STAKING SHALL BE APPLIED IF THE EROSION CONTROL BLANKET SEPARATES FROM THE SOIL MORE THAN 6 INCHES UNDER A REASONABLE PULL.
 - 7. ALL EXPOSED EDGES OF BLANKET SHALL BE BURIED AND STAKED IN A TRENCH 6 INCHES
 - 8. BLANKET SHALL BE PLACED WITH SUFFICIENT TIGHTNESS AS TO AVOID MOVEMENT DURING A FLOOD FLOW EVENT.
 - 9. FOLLOW LIVE BRUSH LAYERING DETAIL FOR EXACT DENOTATION OF SOIL LIFTS PLACED ON



- 700 g/m² NON-WOVEN

WITH A CONTINUOUS

WEAVE COIR FIBER



ISSUED FOR CONSTRUCTION ISSUED DATE: 9/8/2025 DATE ISSUED BY REMARKS



AND IMPROVEMENTS - PHASE 1

PROJECT NO. 173410744

6" MIN. VERTICAL OVERLAP

DETAILS I

0 1/2

WARNING

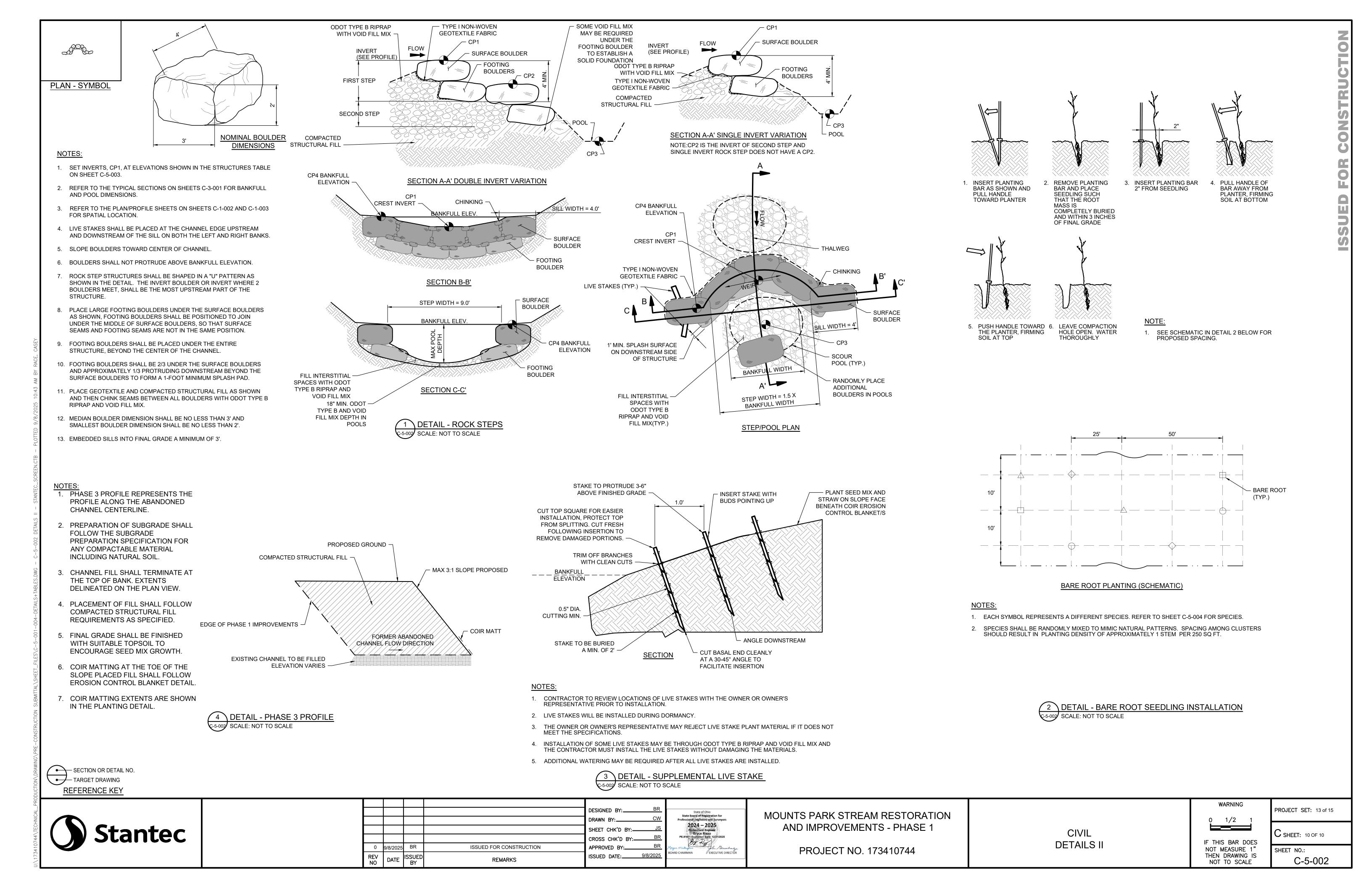
PROJECT SET: 12 of 15 **○** SHEET: 10 OF 12 SHEET NO.:

C-5-001

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BOTTOM BLANKET 1. ALL EARTHWORK ACTIVITY SHALL BE LOCATED UPHILL OF SILT FENCE. NOTES: 6" MIN. HORIZONTAL OVERLAP -2. SILT FENCE SHALL BE INSTALLED ACROSS SLOPES. DEAD STAKES SHALL BE OF MINIMUM DIMENSIONS SHOWN AND SHALL BE GENERALLY FREE OF KNOTS. 3. ATTACH FILTER FABRIC TO WOODEN STAKES WITH STAPLES, HOGRINGS OR OTHER MATERIALS APPROVED BY THE ENGINEER. 6" MIN. HORIZONTAL 2. ALL DEAD STAKES SHALL BE RELATIVELY STRAIGHT AND WITHOUT ANY ROT OR WATER OVERLAP DAMAGE. 4. WOODEN STAKES SHALL BE INSTALLED ON THE DOWNHILL SIDE OF FILTER FABRIC. 3. DEAD STAKES SHALL BE NOTCHED 1" TO 2" BELOW THE TOP OF THE STAKE TO ENGAGE 5. BURY THE BOTTOM 12 INCHES OF FILTER FABRIC IN A 6"X6" TRENCH (TO PREVENT SEDIMENT EROSION CONTROL BLANKET WHEN INSTALLED. FROM ESCAPING UNDER THE FENCE) AND BACK FILL WITH SOIL. **BLANKET STAKING VIEW** 3' LONG WOOD DEAD STAKES -4. STAKES SPLIT DURING NOTCHING OR INSTALLATION SHALL BE DISCARDED FOR 6. JOIN SILT FENCE SECTIONS BY ROLLING END STAKES TOGETHER TO CREATE AN UNBROKEN UNDAMAGED STAKES. SEDIMENT BARRIER. 5. ALL VARIATIONS FROM THE STAKING DETAIL MUST BE APPROVED BY THE ENGINEER. SECTION OR DETAIL NO. ALL STREAM SLOPES TARGET DRAWING 5 DETAIL - SILT FENCE 3 DETAIL - DEAD STAKE REFERENCE KEY C-5-001 SCALE: NOT TO SCALE SCALE: NOT TO SCALE DESIGNED BY: _ MOUNTS PARK STREAM RESTORATION DRAWN F SHEET CHK'D BY: CIVIL CROSS CHK'D BY

PPROVED BY



ROCK STEP TABLE						
TRIBUTARY 1 ALIGNMENT						
	ELEVATIONS (FT)					
STATION	STRUCTURE	CP1 (1ST STEP INVERT	CP2 (2ND STEP INVERT)	CP3 (PLUNGE POOL)	CP4 (BANKFULL)	
0+20	Single Invert	639.8	_	636.3	642.3	
0+35	Single Invert	639.3	_	635.8	641.8	
0+50	Double Invert	638.8	638.3	635.3	641.3	
0+66	Single Invert	637.8	_	634.3	640.3	
0+82	Single Invert	637.3	_	633.8	639.8	
0+98	Double Invert	636.8	636.3	633.3	639.3	
1+14	Single Invert	635.8	_	632.3	638.3	
1+30	Double Invert	635.3	634.8	631.8	637.8	
1+46	Single Invert	634.3	_	630.8	636.8	
1+62	Single Invert	633.8	_	630.3	636.3	
1+78	Double Invert	633.3	632.8	629.8	635.8	
1+95	Double Invert	632.3	631.8	628.8	634.8	
2+10	Single Invert	631.3	_	627.8	633.8	
2+26	Single Invert	630.8	_	627.3	633.3	
2+42	Double Invert	630.3	629.8	626.8	632.8	
2+58	Single Invert	629.3	628.8	625.8	631.8	
2+74	Double Invert	628.8	628.3	625.3	631.3	
2+90	Double Invert	627.8	627.3	624.3	630.3	
3+06	Single Invert	626.8	_	623.3	629.3	
3+22	Double Invert	626.3	625.8	622.8	628.8	
3+38	Single Invert	625.3	_	621.8	627.8	
3+55	Single Invert	624.8	_	621.3	627.3	
3+71	Double Invert	624.3	623.8	620.8	626.8	
3+95	Single Invert	623.3	_	619.8	625.8	



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0	9/8/2025	BR	ISSUED FOR CONSTRUCTION	APPROVED BY:	-
REV	DATE	ISSUED	DEMANG	ISSUED DATE:	9/8/20
NO	DATE	BY	REMARKS		



MOUNTS PARK STREAM RESTORATION AND IMPROVEMENTS - PHASE 1 PROJECT NO. 173410744

CIVIL STRUCTURE TABLE

	WARNING
o	1/2

PROJECT SET: 10 of 12

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE SHEET NO.:

C SHEET: 11 OF 12 C-5-003

		DATE OZIA ODE	
BOTANICAL NAME	COMMON NAME	RATE OZ/ACRE	QUANTIT
PERMANENT GRASSES/SEDGES			
ANDROPOGON GERARDII	BIG BLUESTEM	16.00	10.34
CALAMAGROSTIS CANADENSIS	BLUEJOINT GRASS	1.00	0.65
CAREX LURIDA	BOTTLEBRUSH SEDGE	3.00	1.94
CAREX STRICTA	COMMON TUSSOCK SEDGE	0.75	0.48
CAREX VULPINOIDEA	BROWN FOX SEDGE	2.00	1.29
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	24.00	15.50
JUNCUS DUDLEYI	DUDLEY'S RUSH	0.25	0.16
PANICUM VIRGATUM	SWITCH GRASS	2.00	1.29
SCIRPUS ATROVIRENS	DARK GREEN RUSH	1.00	0.65
SORGHASTRUM NUTANS	INDIAN GRASS	8.00	5.17
SPARTINA PECTINATA	PRAIRIE CORD GRASS	2.00	1.29
TEMPODA DV GOVED	TOTAL	60.00	38.76
TEMPORARY COVER		540.00	000.75
AVENA SATIVA	COMMON OAT	512.00	330.75
FORRE	TOTAL	512.00	330.75
FORBS ASCLEPIAS INCARNATA	SWAMP MILKWEED	2.00	1.29
ASCLEPIAS INCARNATA ASCLEPIAS SYRIACA	COMMON MILKWEED	2.00	1.29
BAPTISIA LACTEA	WHITE WILD INDIGO	1.00	0.65
CHAMAECRISTA FASCICULATA		<u> </u>	
	PARTRIDGE PEA	8.00	5.17
COREOPSIS LANCEOLATA	SAND COREOPSIS	4.00	2.58
COREOPOSIS TRIPTERIS	TALL COREOPSIS	1.00	0.65
DESMODIUM ILLINOENSE	ILLINOIS TICK TREFOIL	0.50	0.32
DOELLINGERIA UMBELLATA	FALT-TOP ASTER	0.50	0.32
ECHINACEA PURPUREA	BROAD-LEAVED PURPLE CONEFLOWER	4.00	2.58
ERYNGIUM YUCCIFOLIUM	RATTLESNAKE MASTER	2.00	1.29
HELENIUM AUTUMNALE	SNEEZEWEED	1.00	0.65
HELIANTHUS GROSSESERRATUS	SAWTOOTH SUNFLOWER	0.50	0.32
LESPEDEZA CAPITATA	ROUND-HEADED BUSH CLOVER	1.50	0.97
LIATRIS SPICATA	MARSH BLAZING STAR	1.00	0.65
MONARDA FISTULOSA	WILD BERGAMOT	1.00	0.65
OLIGONEURON RIGIDUM	STIFF GOLDENROD	1.00	0.65
PARTHENIUM INTEGRIFOLIUM	WILD QUININE	1.00	0.65
PENSTEMON DIGITALIS	FOXGLOVE BEARD TONGUE	1.00	0.65
PHYSOSTEGIA VIRGINIANA	OBEDIENT PLANT	0.25	0.16
PYCNANTHEMUM VIRGINIANUM	COMMON MOUNTAIN MINT	0.50	0.32
RATIBIDA PINNATA	YELLOW CONEFLOWER	4.00	2.58
RUDBECKIA HIRTA	BLACK-EYED SUSAN	4.00	2.58
RUDBECKIA LACINIATA	WILD GOLDEN GLOW	1.00	0.65
RUDBECKIA SUBTOMENTOSA	SWEET BLACK-EYED SUSAN	0.50	0.32
SENNA HEBECARPA	WILD SENNA	2.25	1.45
SILPHIUM INTEGRIFOLIUM	ROSIN WEED	1.00	0.65
SILPHIUM LACINIATUM	COMPASS PLANT	3.00	1.94
SILPHIUM PERFOLIATUM	CUP PLANT	2.00	1.29
SILPHIUM TEREBINTHINACEUM	PRAIRIE DOCK	1.00	0.65
SOLIDAGO JUNCEA	EARLY GOLDENROD	0.25	0.16
SOLIDAGO RUGOSA	ROUGH GOLDENROD	0.25	0.16
SYMPHYOTRICHUM LANCEOLATUM	PANICLED ASTER	0.50	0.32
SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	0.50	0.32
TRADESCANTIA OHIENSIS	COMMON SPIDERWORT	1.25	0.81
VERNONIA FASCICULATA	COMMON IRONWEED	3.00	1.94
VERONICASTRUM VIRGINICUM	CULVER'S ROOT	0.25	0.16
ZIZIA AUREA	GOLDEN ALEXANDERS	1.00	0.65
	TOTAL	59.50	38.44

	SH LAYERING OR LIVE STAKES	
SCIENTIFIC NAME	COMMON NAME	STEMS
LIVE BRUSH AND LIVE STAKE SPECIE	e	
		2,513
CORNUS AMOMUM	SILKY DOGWOOD	, ,
SALIX SPP	WILLOW	2,513
SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	2,513
B	ARE ROOT SEEDLINGS	
SCIENTIFIC NAME	COMMON NAME	QUANTITY
BARE ROOT		
ACER RUBUM	RED MAPLE	35
CERCIS CANDENSIS	RED BUD	35
LINDERA BENZOIN	SPICE BUSH	35
PRUNUS AMERICANA	AMERICAN PLUM	35
QUERES BICOLOR	SWAMP WHITE OAK	35
CARYA OVATA	SHAGBARK HICKORY	35
CELTIS OCCIDENTALIS	HACKBERRY	35
		35

NOTE: BARE ROOT SEEDLINGS APPLIED AT APPROXIMATELY ONE STEM PER 250 FT² AND LIVE STAKES ARE 5 STEMS PER FOOT PER LIFT.

PHASE III ALTERNATE BID PLANTING QUANTITIES

- AN ADDITIONAL 96 BARE ROOT SEEDLINGS WILL BE REQUIRED TO PLANT THE ADDITIONAL AREA DISTURBED BY PHASE III
- AN ADDITIONAL 113 OUNCES OF ZONE 1 WET TO MESIC SEED MIX WILL LIKEWISE BE REQUIRED

NOTE: SPECIES MIX AND PLANTING DENSITY FOR PHASE III ALTERNATE BID SHALL BE EQUIVALENT TO PHASE I



				DESIGNED BY:	BR
				DRAWN BY:	CW
				SHEET CHK'D BY:-	JS
				CROSS CHK'D BY:-	BR
0	9/8/2025	BR	ISSUED FOR CONSTRUCTION	APPROVED BY:	BR
REV NO	DATE	ISSUED BY	REMARKS	ISSUED DATE:	9/8/2025



MOUNTS PARK STREAM RESTORATION AND IMPROVEMENTS - PHASE 1

CIVIL PLANTING QUANTITIES PROJECT NO. 173410744

0 1/2 1

PROJECT SET: 15 of 15

C SHEET: 12 OF 12 IF THIS BAR DOES NOT MEASURE 1"

SHEET NO.: THEN DRAWING IS NOT TO SCALE C-5-004