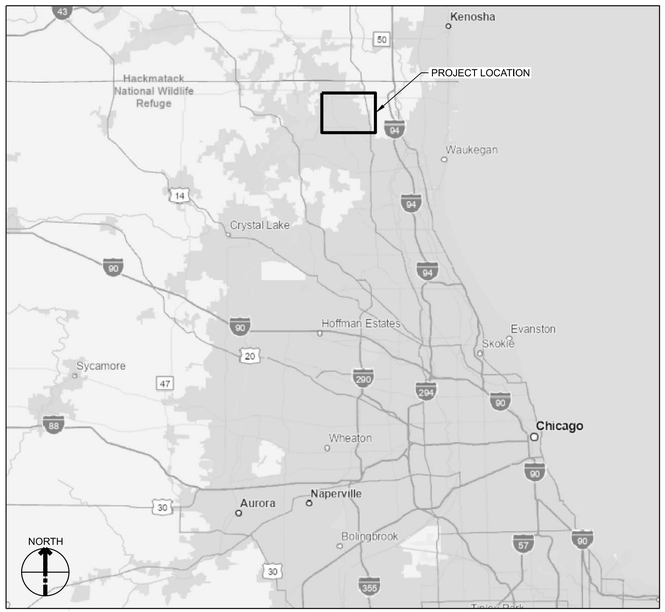
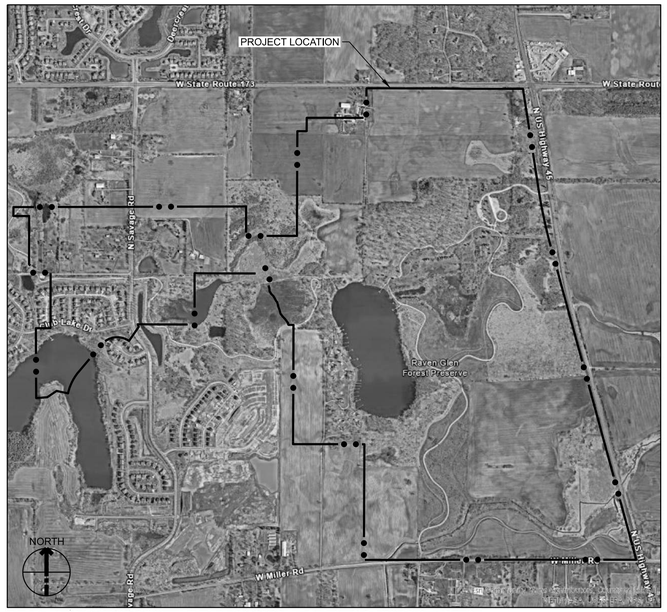
US Army Corps
of Engineers®
CHICAGO DISTRICT

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS



LOCATION MAP
(N.T.S)



VICINITY MAP
(N.T.S)

SOLICITATION NO.: W912P62-6-R-A009
CONTRACT NO.: TBD
ISSUE DATE: APRIL 2026
CERTIFIED FINAL DOCUMENTS - RTA

THIS PROJECT WAS DESIGNED BY THE CHICAGO DISTRICT CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152. SIGNATURES INDICATE OFFICIAL RECOMMENDATION OF ALL DRAWINGS IN THIS SET.

REVIEWED BY:

/S/ LOUIS D. WISLOCKI, P.E.
LOUIS D. WISLOCKI, P.E. DATE
DQC TEAM LEADER

SIGNATURE AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL FOR ALL DRAWINGS CONTAINED IN THE SHEET INDEX.

APPROVAL RECOMMENDED BY:

/S/ PATRICK KENNEDY
PATRICK KENNEDY DATE
PROJECT MANAGER

APPROVED BY:

/S/ JOHN GROBOSKI, P.E.
JOHN GROBOSKI, P.E. DATE
CHIEF, DESIGN BRANCH

US Army Corps
of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-6-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444504-66C987
FILE NAME:	444504-66C987_G-001.dgn

DESIGNED BY:	R. MUHAMMAD
DRAWN BY:	A. WILLIAMS
CHECKED BY:	R. MUHAMMAD
SUBMITTED BY:	A. KARR
SIZE:	ANSI D

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

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AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

COVER SHEET

SHEET ID
G-001

CERTIFIED FINAL DOCUMENTS - RTA

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US Army Corps of Engineers®

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DESIGNED BY: R. MUHAMMAD
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SUBMITTED BY: A. KARR
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CONTRACT NO.: TBD
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FILE NAME: 444304-66C987_G-002.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
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ANTIOCH, LAKE COUNTY, ILLINOIS

INDEX OF SHEETS

SHEET ID
G-002

CERTIFIED FINAL DOCUMENTS - RTA

PROJECT GENERAL NOTES:

1. THE CONTRACTOR SHALL FOLLOW ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. PERMITS SHALL BE OBTAINED AS REQUIRED PRIOR TO COMMENCING WITH CONSTRUCTION.

2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRCTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE OF ANY SIGNIFICANT DISCREPANCIES.

3. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) USING CURRENT GEOID, U.S. SURVEY FEET.

4. HORIZONTAL DATUM AND DISTANCES ARE REFERENCED TO ILLINOIS EAST STATE PLANE, U.S. SURVEY FEET.

5. OBSTRUCTIONS VISIBLE IN THE IMAGES MAY NOT BE IN THAT LOCATION AT THE TIME OF WORK, AS OBSTRUCTIONS MAY HAVE BEEN MOVED. SITE VISITS SHOULD BE MADE TO VERIFY ANY CURRENT OBSTRUCTIONS IN THE WORK AREA, AS DESCRIBED IN THE SPECIFICATIONS.

6. PLANIMETRICS, TOPOGRAPHICAL, BOUNDARY AND UTILITY SURVEYS WERE PERFORMED IN ACCORDANCE WITH UNITED STATES ARMY CORPS OF ENGINEERS ENGINEERING MANUALS, ASCE 38-02 STANDARD GUIDELINES.

7. THE CONTRACTOR SHALL CONSULT WITH ALL UTILITY SYSTEM OWNERS ON SITE. CONTRACTOR SHALL VERIFY UTILITIES TO PROCEED VIA THE FOLLOWING INFORMATION:

JULIE: CALL 811 OR (800)892-0123
SITE: HTTPS://WWW.ILLINOIS1CALL.COM/

8. THE LOCATION, SIZE, AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES AND THE LOCATION OF PROPERTY LINES SHOWN ON THESE PLANS ARE NOT WARRENTED TO BE EXACT, NOR IS IT WARRENTED THAT ALL ARE SHOWN. THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THERE BE OTHER THAN SHOWN.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES, AS WELL AS REPAIR AND/OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION WHETHER ABOVE OR BELOW GRADE AT NO ADDITIONAL COST TO THE GOVERNMENT.

10. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENT OF ANY SUBSURFACE UTILITY OR OTHER PIPE NOT SHOWN ON THE DRAWINGS THAT IS ENCOUNTERED DURING CONSTRUCTION, ALSO ADD TO AS-BUILTS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF EXCAVATED MATERIALS ONTO DESIGNATED AREAS IN THE PROJECT AREA.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL CONSTRUCTION DEBRIS OFF-SITE IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS AT NO ADDITIONAL COST TO THE GOVERNMENT.

13. EXISTING STRUCTURES, SIGNAGE, AND OTHER FACILITIES TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AND AT NO COST TO THE GOVERNMENT. ANY PAVEMENT, UTILITY, OR OTHER FACILITY WHICH IS REMOVED TO ACCOMMODATE CONSTRUCTION ACTIVITIY OR DAMAGED DURING CONSTRUCTION ACTIVITIY SHALL BE REPLACED IN KIND AT NO COST TO THE GOVERNMENT.

14. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH EM 385-1-1, DATED 15 MARCH 2024.

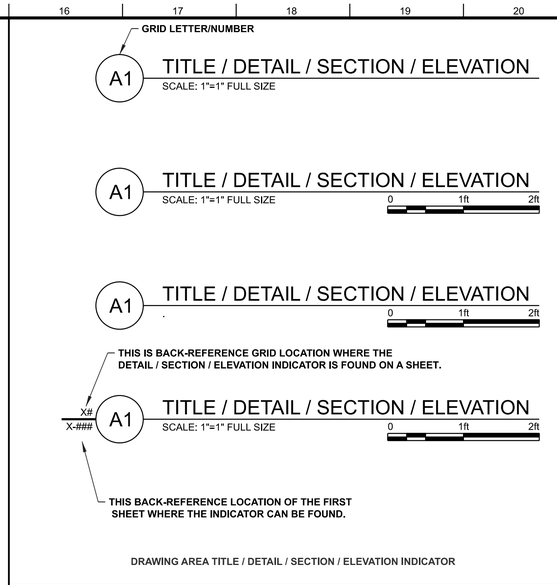
15. ALL STAGING, STORAGE AND TEMPORARY EASEMENT AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION GRADE AND CONDITIONS AT THE COMPLETION OF WORK.

16. THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATHS AND CULVERTS TO PREVENT FLOODING DUE TO CONSTRUCTION ACTIVITIES.

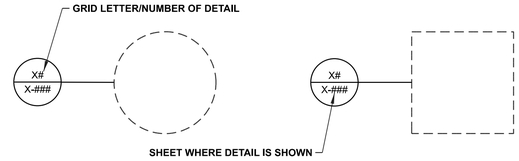
17. THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH FACILITIES OWNERS AS NEEDED.

18. CONTRACTOR SHALL PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

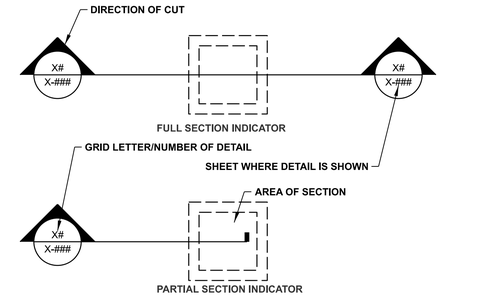
19. TRAFFIC INGRESS AND EGRESS FOR THE FACILITY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

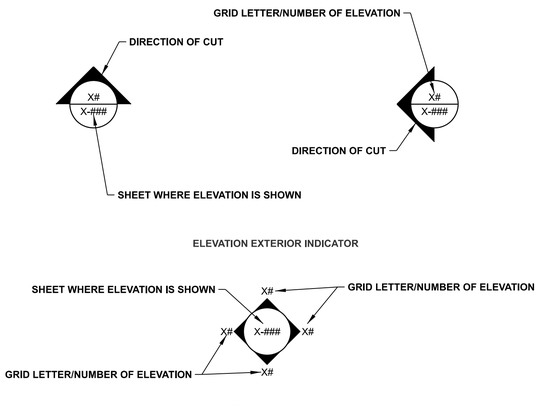


DRAWING AREA TITLE / DETAIL / SECTION / ELEVATION INDICATOR



DRAWING DETAIL INDICATOR





ELEVATION EXTERIOR INDICATOR

ELEVATION INTERIOR INDICATOR

MARK	DESCRIPTION	DATE

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CHECKED BY:	R. MUHAMMAD
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CHICAGO DISTRICT
231 S. LASALLE ST, SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

GENERAL NOTES, LEGEND AND SYMBOLS

SHEET ID

G-003

CERTIFIED FINAL DOCUMENTS - RTA

PROJECT GENERAL LINESTYLE SYMBOLS

INDUSTRIAL HOT WATER - RETURN	IHR
INDUSTRIAL HOT WATER - SUPPLY	IWS
INDUSTRIAL WASTE	INW
NON-POTABLE WATER	NPW
WASTE - ACID	AW
VENT - ACID	AV
LIQUID OXYGEN	LOX

GEOTEXTILE	
DITCH BARRIER	
DITCH AND BERM BARRIER	
RIPRAP - PLAN VIEW	
SHEET PILE	
SHEET PILE - HIDDEN	
FENCE	
FENCE - SECURITY - GENERIC	S
BARRIER - SECURITY - MASONRY	M
FENCE 2	
LAWN SPRINKLER	LS
TREE LINE	
UTILITY CONDUIT	CO
UTILITY LINE	UTIL
UG UTILITY LINE	UTIL
CHILLED WATER - RETURN	CHWR
CHILLED WATER - SUPPLY	CHWS
WATER LINE	W
WATER - COLD	CW
WATER - HOT	HW
WATER - PUBLIC MAIN	PW
FIRE PROTECTION WATER SUPPLY	F
SANITARY SEWER - FORCE	SS
DITCH	
CULVERT	CP
CULVERT PROFILE	
JET FUEL	JF
ELECTRICAL PRIMARY	E
UG ELECTRICAL PRIMARY	E
ELECTRICAL SECONDARY	ES
UG ELECTRICAL SECONDARY	ES
SGL PHASE PRIMARY	1ØP
2-PHASE PRIMARY	2ØP
3-PHASE PRIMARY	3ØP
SGL PHASE SECONDARY	1ØS
2-PHASE SECONDARY	2ØS
3-PHASE SECONDARY	3ØS
DUCT BANK	
SUB DRAIN	
ELEC PRIM AND COMM	E/C
UG ELEC PRIM AND COMM	E/C
ELEC PRIM AND FIBER	E/F
UG ELEC PRIM AND FIBER	E/F
ELEC PRIM COMM AND FIBER	E/C/F
UG ELEC PRIM COMM AND FIBER	E/C/F
ELEC PRIM SEC AND COMM	E/ES/C
UG ELEC PRIM SEC AND COMM	E/ES/C
ELEC PRIM SEC AND FIBER	E/ES/F
UG ELEC PRIM SEC AND FIBER	E/ES/F
ELEC SEC AND COMM	ES/C
UG ELEC SEC AND COMM	ES/C
ELEC SEC AND FIBER	ES/F
UG ELEC SEC AND FIBER	ES/F
ELEC SEC COMM AND FIBER	ES/C/F
UG ELEC SEC COMM AND FIBER	ES/C/F
COMM AND FIBER	C/F
UG COMM AND FIBER	C/F
GROUND SYSTEM CIRCUITS	GND
UG GROUND SYSTEM CIRCUITS	GND
APPROACH LIGHT SEMIFLUSH	
GUARDRAIL	
RAILROAD	
SHORE LINE	
NEW LEVEE	
FEDERAL LEVEE	
NON-FEDERAL LEVEE	
BERM	
ARGON	AR
HELIUM	HE
LIQUID NITROGEN	LN
NITROUS OXIDE	NO
HYDROGEN	HYD
OXYGEN	O
NITROGEN	N
CHEMICAL - SUPPLY	CS
FILL	FILL
INDUSTRIAL COLD WATER	ICW

GAS - LOW PRESSURE	MG
BRINE - RETURN	BR
BRINE - SUPPLY	BS
DUAL TEMPERATURE - RETURN	H/C R
DUAL TEMPERATURE - SUPPLY	H/C S
GLYCOL - RETURN	GR
GLYCOL - SUPPLY	GS
HOT WATER - HIGH TEMPERATURE - RETURN	HTWR
HOT WATER - HIGH TEMPERATURE - SUPPLY	HTWS
HOT WATER - LOW TEMPERATURE - RETURN	HWR
HOT WATER - LOW TEMPERATURE - SUPPLY	HWS
HOT WATER - MEDIUM TEMPERATURE - RETURN	MTWR
HOT WATER - MEDIUM TEMPERATURE - SUPPLY	MTWS
CONDENSER WATER - RETURN	CWR
CONDENSER WATER - SUPPLY	CWS
CONDENSATE FLOW	C
CONDENSATE - DRAIN	CD
STEAM CONDENSATE - HIGH PRESSURE	HPC
STEAM CONDENSATE - LOW PRESSURE	LPC
STEAM CONDENSATE - MEDIUM PRESSURE	MPC
PUMPED CONDENSATE	PC
STEAM - HIGH PRESSURE	HPS
STEAM - LOW PRESSURE	LPS
STEAM - MEDIUM PRESSURE	MPS
WATER - MAKE UP	MU
AIR RELIEF	ATV
REFRIGERANT - DISCHARGE	RD
REFRIGERANT LIQUID OVERFEED - RETURN	RLR
REFRIGERANT - LIQUID	RL
REFRIGERANT - SUCTION	RS
VACUUM PUMP DISCHARGE	VPD
BOILER BLOW DOWN	BBD
BOILER FEED WATER	BFW
COOLING TOWER WATER - RETURN	CTWR
COOLING TOWER WATER - SUPPLY	CTWS
HUMIDIFICATION	H
BUSWAY	B
CABLE LADDER	C
CONDUIT - FLEXIBLE	
CONDUIT - RIGID	RC
DIRECT CURRENT	DC
TROLLEY DUCT	T
WIREWAY	W
AUDIO - AES DIGITAL	AES
AUDIO - ANALOG	AUD
AUDIO - DIGITAL	DGA
AUDIO - MICROPHONE	MIC
COMMUNICATION	COMM
UG COMMUNICATION	COMM
DATA IP	IP
FIBEROPTICS	FO
HDMI	HDMI
INTERCOM	I
NURSE CALL	NC
RADIO FREQUENCY	RF
SPEAKER	SPKR
TELEPHONE	T
VIDEO - ASI DIGITAL	ASI
VIDEO - COMPONENT - RGBHV	RGBHV
VIDEO - SYNCRONIZED	SYNC
VIDEO - COMPOSITE - ANALOG	VID
VIDEO - SDI DIGITAL	SDI
CABLE TV	CATV
CLOSED CIRCUIT TV	CCTV
FIRE ALARM	FA
BANK - LEFT	
BANK - RIGHT	
GEOBAR	
GEOBLANKET	
GEOCELL	
GEOGRID	
GEOMAT	
GEONET	
GEOSPACER	
GEOSTRIP	
GEOSYNTHETIC ELECTROKINETIC	
GEOSYNTHETIC SURFICIAL EROSION CONTROL	

RIGHT OF WAY	R/W
CONSTRUCTION CONTRACT LIMIT	
CONSTRUCTION EASEMENT	C/E
GOVERNMENT TAKING LINE	
PROPERTY LINE	
MS1 DOT	
MEDIUM DASH	
MS3 LONG DASH	
MS4 DOT DASH	
MS5 SHORT DASH	
MS6 DASH DOT DOT	
FIRE-RATED SMOKE BARRIER - 4 HOUR	S
HIDDEN LINE	
CENTER LINE	
PHANTOM LINE	
BREAK LINE	
MASK	
SILT FENCE	SF
SUPER SILT FENCE	SSF
MER MULTIELECTRODE RESISTIVITY	
DEMOLITION LINE	
SLASH DEMOLITION LINE	
HAZARDOUS MATERIALS	HAZ
CONSTRUCTION JOINT	CJ
LONGITUDINAL CONTRACTION JOINT	LCJ
TRANSVERSE CONTRACTION JOINT	TCJ
EXPANSION JOINT/THICKENED EDGE	EJ/TE
EXPANSION JOINT	EJ
WELDED WIRE FABRIC	
FIRE-RATED - .5 HOUR	
FIRE-RATED - .75 HOUR	
FIRE-RATED - 1 HOUR	
070500-904 FIRE-RATED - 2 HOUR	
070500-905 FIRE-RATED - 3 HOUR	
070500-906 FIRE-RATED - 4 HOUR	
FIRE-RATED SMOKE BARRIER - .5 HOUR	S
FIRE-RATED SMOKE BARRIER - .75 HOUR	S
FIRE-RATED SMOKE BARRIER - 1 HOUR	S
FIRE-RATED SMOKE BARRIER - 2 HOUR	S
FIRE-RATED SMOKE BARRIER - 3 HOUR	S
FIRE-RATED SMOKE BARRIER - 4 HOUR	S
RESIST PASSAGE OF SMOKE	RPS
SMOKE BARRIER	S
VACUUM - CLEANING	VC
PNEUMATIC TUBE RUN	PN
FIRE PROTECTION - SUPPLY	SP
STANDPIPE - DRY	DSP
STANDPIPE - WET	WSP
STANDPIPE - COMBINATION	CSP
DOMESTIC WATER - COLD	DCW
WATER - DRINKING RETURN	DWR
WATER - DRINKING SUPPLY	DWS
DOMESTIC WATER - HOT - RETURN	DHWR
DOMESTIC WATER - HOT - SUPPLY	DHW
WATER - SOFT COLD	SW
DRAIN	D
DRAIN - INDIRECT	IW
GRAY WATER	GW
VENT	V
SANITARY WASTE	SAN
WASTE & VENT COMBINATION	SV
DRAIN - STORM	SD
AIR - COMPRESSED	A
WATER - TEMPERED RETURN	TWR
WATER - TEMPERED SUPPLY	TWS
VACUUM - AIR	VAC
WATER - DEIONIZED	DE
WATER - DISTILLED	DW
FUEL OIL DISCHARGE	FOD
FUEL OIL FILL	FOF
FUEL OIL GAUGE	FOG
FUEL OIL RETURN	FOR
FUEL OIL SUPPLY	FOS
FUEL OIL TANK VENT	FOV
GAS - HIGH PRESSURE	HG
GAS - LIQUEFIED PETROLEUM	LPG
GAS - LOW PRESSURE	G

NON-STANDARD (DISCIPLINE) SYMBOLS LEGEND

1. CUSTOM LINESTYLES NOT FOUND ON THIS SHEET REFER TO EACH ENGINEERING INDIVIDUAL DISCIPLINES LEGEND.

US Army Corps of Engineers®

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GENERAL LINESTYLES

SHEET ID
G-004

CERTIFIED FINAL DOCUMENTS - RTA

ABBREVIATIONS

L	ANGLE
A/C	AIR CONDITIONING
A/C UNIT	AIR CONDITIONING UNIT
AB	ANCHOR BOLT
ABV	ABOVE
AC	ALTERNATING CURRENT
ACC	ACCESSIBLE
ACI	AMERICAN CONCRETE INSTITUTE
ACR	ACRYLIC PLASTIC
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACSR	ALUMINUM CABLE STEEL REINFORCED
ACST	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
ADDM	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT, ADJOINING, ADJUSTABLE
ADO	AUTOMATIC DOOR OPERATOR
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHR	ANCHOR
AHU	AIR HANDLING UNIT
AI	AREA INLET
AIC	AMPERE INTERRUPTING CAPACITY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.L.	ACTIVE LEAF
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
AMP	AMPERE
ANOD	ANODIZE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
ARI	AMERICAN REFRIGERATION INSTITUTE
ASB	ASBESTOS
ASC	ABOVE SUSPENDED CEILING
ASPH	ASPHALT
ATC	ACOUSTICAL TILE CEILING
AUTO	AUTOMATIC
AVG	AVERAGE
AWG	AMERICAN WIRE GAUGE
AWT	ACOUSTICAL WALL TREATMENT
BB	BULLETIN BOARD
BC	BOOKCASE
BD	BOARD
BDRY	BOUNDARY
BEJ	BRICK EXPANSION JOINT
BEV	BEVEL
BITUM	BITUMINOUS
BJT	BED JOINT
BL	BUILDING LINE
BLDG	BUILDING
BLW	BELOW
BM	BENCHMARK
BO	BOTTOM OF
BOT	BOTTOM
BP	BACK PLASTER(ED)
BRCG	BRACING
BRDG	BRIDGING
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BRKT	BRACKET
BRZ	BRONZE
BS	BOTH SIDES
BSMT	BASEMENT
Btu	BRITISH THERMAL UNIT
BtuH	BTU PER HOUR
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CCT	CUBICLE CURTAIN TRACK
CCTV	CLOSED CIRCUIT TELEVISION
CE	COVER ELEVATION
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CFI	CONDUCTIVE FLOORING
CFLG	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CH BD	CHALKBOARD
CHFR	CHAMFER
CHIM	CHIMNEY
CHK	CHECK
CHR PL	CHROME PLATED
CI	CAST IRON
CI	CURB INLET
CIP	CAST-IN-PLACE
CIRC	CIRCULAR
CJ	CONTROL JOINT
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CL	CENTER LINE
CLG	CEILING
CLG HT	CEILING HEIGHT
CLGL	CLEAR GLASS
CLL	CONTRACT LIMIT LINE
CLO	CLOSET
CLOS	CLOSURE
CLR	CLEAR(ANCE)
CLWG	CLEAR WIRED GLASS
cm	CENTIMETER(S)
CMP	CORRUGATED METAL PIPE
CMPST	COMPOSITE
CMU	CONCRETE MASONRY UNIT
CNDT	CONDUIT
CNL	CONDUCTIVE NEOPRENE LATEX
CNR	CORNER
CNTR	COUNTER
CO	CLEANOUT
CO2	CARBON DIOXIDE
COL	COLUMN
COM	COMMON
COMB	COMBUSTION
COMPT	COMPARTMENT
CONC	CONCRETE
CONN	CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR
COV	COVER
CPRS	COMPRESSIBLE
CPT	CARPET
CRCMF	CIRCUMFERENCE
CRES	CORROSIVE RESISTANT STEEL
CRG	CROSS GRAIN
CRS	COURSE(S)
CS	CAST STONE
CSK	COUNTERSUNK
CSMT	CASEMENT
CT	CERAMIC TILE
CT	CURRENT TRANSFORMER
C TO C	CENTER TO CENTER
CTR	CENTER
CU	CONDENSING UNIT
Cu	COPPER
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CU YD	CUBIC YARDS
CV	CEILING VENT
CVH	CONDUCTIVE VINYL HOMOGENEOUS (SHEET TYPE)
CW	COLD WATER
CYL	CYLINDER
d	PENNY (AS IN NAIL - 10D)
DAT	DATUM
DB	DRY BULB
DBL	DOUBLE
DBL ACT DR	DOUBLE ACTING DOOR
DCJ	DOWELED CONTROL JOINT
DCJT	DUMMY CONTROL JOINT
DEG	DEGREE
DEMO	DEMOLITION
DEPR	DEPRESSION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DH	DUCT HEATER
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISC	DISCONNECT
DISP	DISPENSER
DISTR PNL	DISTRIBUTION PANEL
DIV	DIVISION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DMPR	DAMPER
DMT	DEMOUNTABLE
DN	DOWN
DR	DOOR
DR	DRAIN
DRB	DRAINBOARD
DR CL	DOOR CLOSER
DS	DOUBLE STRENGTH (GLASS)
DS	DOWNSPOUT
DT	DRAIN TILE
DVTL	DOVETAIL
DWG	DRAWING
DWLS	DOWELS
DWR	DRAWER
DWTR	DUMBWAITER
DX	DIRECT EXPANSION
E	EAST
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION - GRADE OR BUILDING
ELEC	ELECTRIC
EM	EXPANDED METAL
EMD	ESTIMATED MAXIMUM DEMAND
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
ENTR	ENTRANCE, ENTERING
EP	ELECTRICAL PANELBOARD
EPRF	EXPLOSION PROOF
EPY	EPOXY COATING
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EST	ESTIMATE(D)
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXC	EXCAVATE
EXH	EXHAUST
EXH A	EXHAUST AIR
EXST	EXISTING
EXP	EXPANSION
EXP	EXPOSED
EXP BT	EXPANSION BOLT
EXT	EXTERIOR
F	FAHRENHEIT
FA	FIRE ALARM
FA	FRESH AIR
FAC	FIRE APPARATUS CLOSET
FAI	FRESH AIR INTAKE
F BRK	FIRE BRICK
FC	FOOT CANDLE
FC BRK	FACE BRICK
FCG	FACING
FCJ	FLOOR CONSTRUCTION JOINT
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDMPR	FIRE DAMPER
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FGL	FIBERGLASS
FH	FIRE HYDRANT
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHR	FIRE HOSE RACK
FHS	FIRE HOSE STATION
FHWS	FLAT HEAD WOOD SCREW
FIG	FIGURE
FIN	FINISH
FIN FLR	FINISH FLOOR
FIXT	FIXTURE
FJT	FLUSH JOINT
FLASH	FLASHING
FLR	FLOOR
FLEX	FLEXIBLE
FLG	FLOORING
FLR PL	FLOOR PLATE
FLUOR	FLUORESCENT
FN	FENCE
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIRE PARTITION
FP	FIREPROOF
FPM	FEET PER MINUTE
FR	FIRE RESISTANT
FR	FRAME
FRG	FORGED
FRMG	FRAMING
FRT	FIRE-RETARDANT
FS	FULL SIZE
FSTNR	FASTEN(ER)
FT	FEET
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
FW	FIRE WATER
FWC	FABRIC WALL COVERING
G	NATURAL GAS
GA	GAGE
GAL	GALLON(S)
GALV	GALVANIZED
GALV STL	GALVANIZED STEEL
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GF	GROUND FACE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFE	GOVERNMENT-FURNISHED EQUIPMENT
GFE/CI	GOVERNMENT-FURNISHED EQUIPMENT CONTRACTOR INSTALLED
GI	GALVANIZED IRON
GIP	GALVANIZED IRON PIPE
GKT	GASKET(ED)
GL	GLASS
GL BLK	GLASS BLOCK
GLF	GLASS FIBER
GLZ	GLAZING
GLZ CMU	GLAZED CONCRETE MASONRY UNITS
G	GROUND
GOVT	GOVERNMENT
GPM	GALLONS PER MINUTE
GPT	GYPSUM TILE
GRAN	GRANITE
GR LN	GRADE LINE
GRTG	GRATING
GST	GLAZED STRUCTURAL TILE
GSU	GLAZED STRUCTURAL UNITS
GT	GROUT
GWT	GLAZED WALL TILE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
HB	HOSE BIBB
HC	HOLLOW CORE
HCD	HALON CONTAINMENT DAMPER
HCP	HANDICAPPED
HD	HEAD
HD	HEAVY DUTY
HDBD	HARDBOARD
HD JT	HEAD JOINT
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HES	HIGH EARLY-STRENGTH CEMENT
HEX	HEXAGON
HH	HANDHOLE
HK	HOOK(S)
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HP	HORSEPOWER
HPT	HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HSGYP	HIGH-STRENGTH GYPSUM PLASTER
HSKPG	HOUSEKEEPING
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HYDR	HYDRAULIC
Hz	HERTZ
IC	INTERCOM
ID	INSIDE DIAMETER
IESNA	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
ILK	INTERLOCK
IN	INCH
INCIN	INCINERATOR
INCL	INCLUDED
INSF	INSULATING FILL
INSUL	INSULATION
INT	INTERIOR
INTM	INTERMEDIATE
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
I.P.S.	INSIDE PIPE SIZE
JAN CLO	JANITOR'S CLOSET
J-BOX	JUNCTION BOX
JCT	JUNCTION
JST	JOIST
JT	JOINT
KIP	KILOPOUND (1000 POUNDS)
KIT	KITCHEN
KOP	KNOCKOUT PANEL
KPL	KICKPLATE
km	KILOMETER
kV	KILOVOLTS
kVA	KILOVOLT AMPERES
kVAR	KILOVOLT AMPERES REACTIVE
kW	KILOWATT
KWY	KEYWAY
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LAT	LEAVING AIR TEMPERATURE
LAU	LAUNDRY
LAV	LAVATORY
LB	LAG BOLT
LB	POUND
LBL	LABEL
LBR	LUMBER
LC	LIGHT CONTROL
LD	LOAD
LDG	LOADING
LG	LENGTH
LH	LEFT HAND(ED)
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LLD	LEAD-LINED DOOR
LM	LUMEN
LMST	LIMESTONE
LNTL	LINTEL
LONG	LONGITUDINAL
LP	LIGHTPROOF
LPD	LIGHTPROOF DOOR
LPL	LIGHTPROOF LOUVER
LPT	LOW POINT
LR	LIVING ROOM
LS	LAWN SPRINKLER
LT	LIGHT
LT WT	LIGHTWEIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
LWT	LEAVING WATER TEMPERATURE
m	METER(S)
M&B	MATCHED AND BEADED
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MB	MACHINE BOLTS
MBR	MEMBER
MC	MEDICINE CABINET
MCJ	MASONRY CONTROL JOINT
MCO	METAL-CASED OPENING
MDS	METAL DIVIDER STRIP
MECH	MECHANICAL
MECH RM	MECHANICAL ROOM
MED	MEDIUM
MEMB	MEMBRANE
MES	METAL EDGE STRIP
MFD	METAL FLOOR DECKING
MFG	MANUFACTURING
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MGT	MATTE-GLAZED TILE
MH	MANHOLE
MI	MALLEABLE IRON
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
ML	METAL LATH
ML	MONOLITHIC
MLDG	MOULDING
MLWK	MILLWORK
mm	MILLIMETER(S)
MNIC	MATERIAL NOT IN CONTRACT (INSTALLATION BY CONTRACTOR)
MO	MASONRY OPENING
MOD	MODULAR
MOD.	MODIFIED
MOT	MOTOR
MP	MOVABLE PARTITION
MR	MOP RECEPTOR
MRB	MARBLE BASE
MRD	METAL ROOF DECKING
MS	MACHINE SCREWS
MT	METAL THRESHOLD
MT	MOUNT
MTD	MOUNTED
MTFR	METAL FURRING
MTL	METAL
MVBL	MOVABLE
MULL	MULLION
N	NORTH
NAT	NATURAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NI	NICKEL
NIC	NOT IN CONTRACT
NL	NAILABLE
N.L.	NEOPRENE LATEX
NM	NONMETALLIC
NO	NORMALLY OPEN
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
N"REQD	NOT REQUIRED
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBSC	OBSCURE
OBW	OBSERVATION WINDOW
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFC	OFFICE
OGL	OBSCURE GLASS
OH	OVERHEAD
OHMS	OVALHEAD MACHINE SCREW
OHWS	OVALHEAD WOOD SCREW
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OPQ	OPAQUE
OPS	OPERATIONS
OS & Y	OUTSIDE SCREW AND YOKE
OWGL	OBSCURE WIRED GLASS
P	POLE
PA	PUBLIC ADDRESS
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLE BOARD
PBS	PUSH BUTTON STATION
PC	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	CEMENT PLASTER (PORTLAND)
PD	PAVEMENT DRAIN
PED	PEDESTAL
PERF	PERFORATE(D)
PERIM	PERIMETER
PH	PHASE
PHAR	PHARMACY
PI	POINT OF INTERSECTION
PIPU	PREFAB ISOLATION POWER UNIT
PIV	POST INDICATING VALVE
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLG	PILING
PL GL	PLATE GLASS
PLYWD	PLYWOOD
PNL	PANEL
PT	PAINT(ED)
POL	POLISHED
PORC	PORCELAIN
PORT	PORTABLE
PPGL	POLISHED PLATE GLASS
PPM	PARTS PER MILLION
PR	PAIR
PREFAB	PREFABRICATE(D)
PREFIN	PREFINISHED
PREFMD	PREFORMED
PRKG	PARKING
PROJ	PROJECT
PRV	PRESSURE-REGULATING VALVE
PS	PIPE SPACE
P.S.	PRESSED STEEL
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PNEUMATIC TUBE
PT.	POINT
PT CONC	POST-TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PV	PAVED
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PW	PASS WINDOW
QT	QUARRY TILE
QT.	QUART
QTR	QUARTER
1/4 RND	QUARTER ROUND
QTY	QUANTITY
R	RADIUS
R	RANGE
R	RISER
RA	RETURN AIR
RAB	RABBETED
RA GR	RETURN AIR GRILLE
RAR	RETURN AIR REGISTER
RB	RUBBER BASE, RESILIENT BASE
RBL	RUBBLE STONE
RBR	RUBBER
RC	REMOTE CONTROL
RCP	REINFORCED CONCRETE PIPE
RCVR	RECEIVER
RD	ROOF DRAIN
RDG INS	RIGID INSULATION
RECPT	RECEPTACLE
REC ROOM	RECREATION ROOM
RECT	RECTIFIER
REF	REFERENCE
REFL	REFLECT
REFR	REFRIGERATION
REG	REGISTER
REG	REGLET
REINF	REINFORCE
REM	REMOVE(ABLE)
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RFG	ROOFING
RH	RELATIVE HUMIDITY
RH	RIGHT HAND
RH	ROOF HATCH
RK	RACK
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RETRACTABLE PARTITION
RPM	REVOLUTIONS PER MINUTE
RPRT	RAISED PATTERN RUBBER TILE
RTF	RUBBER TILE FLOOR
RVS	REVERSE
RVT	RIVET
RWC	RAINWATER CONDUCTOR
S	SOUTH
SA	SUPPLY AIR
SB	SPLASH BLOCK
S.B.	SECURITY BARS
SC	SOLID CORE
SCHED	SCHEDULE
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	STORM DRAIN
SDI	STEEL DOOR INSTITUTE
SECT	SECTION
SEQ	SEQUENCE
SFGL	SAFETY GLASS
SFTU	STRUCTURAL FACING TILE UNIT
SFU	STRUCTURAL FACING UNIT
SG	SHEET GLASS
SHLDR	SHOULDER
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SKLT	SKYLIGHT
SLNT	SEALANT
SLV	SLEEVE
SM	SHEET METAL
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
SPC	SPACER
SPCL	SPECIAL
SPD	SOUNDPROOF DOOR
SPEC	SPECIFICATION
SPF	SOUNDPROOF
SP FIN	SPECIAL FINISH
SPH	SPACE HEATER
SPKR	SPEAKER
SQ	SQUARE
SQHD	SQUARE HEAD
S&R	SHELF AND ROD
SS	SERVICE SINK
SS	STANDING SEAM (ROOF)
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STG	SEATING
STL	STEEL
STOR	STORAGE
ST PR	STATIC PRESSURE
STR	STRINGER
STRUCT	STRUCTURAL
STWY	STAIRWAY
SUB FL	SUBFLOOR
SUSP	SUSPENDED
SV	SHEET VINYL
SW	SWITCH
SWBD	SWITCHBOARD
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
TAN	TANGENT
TB	TOWEL BAR
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
TER	TERRAZZO
TERM	TERMINAL
T&G	TONGUE AND GROOVE
TGL	TOGGLE
TH	TRUSS HEAD
THK	THICK(NESS)
THRES	THRESHOLD
TK BD	TACKBOARD
TKS	TACKSTRIP
TO	TOP OF
TOL	TOLERANCE
TOPO	TOPOGRAPHY
TOS	TOP OF SLAB
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TRANS	TRANSOM
TRANS	TRANSVERSE
TSTAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
UC	UNIT COOLER
UGND	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UPS	UNINTERRUPTABLE POWER SUPPLY
UR	URINAL
UTIL	UTILITY
UV	UNIT VENTILATOR
V	VOLT
VAR	VARNISH
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VCT	VITRIFIED CLAY TILE
VD	VAULT DOOR
VENT	VENTILATOR(TION)
VERT	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VG	VERTICAL GRAIN
VH	VINYL HOMOGENEOUS
VJ	V-JOINT(ED)
VNR	VENEER
VOL	VOLUME
VR	VAPOR RETARDER
VRM	VERMICULITE
VS	VENT STACK
V.T.	VOLTAGE TRANSFORMER
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
WB	WET BULB
WBL	WOOD BLOCKING
WC	WATER CLOSET
W/C	WHEELCHAIR
WCO	WOOD-CASED OPENING
WD	WOOD
WD	WOOD DOOR
WDSP	WASTE DISPOSER
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WALL HUNG
WH	WATER HEATER
WHB	WHEEL BUMPER
WHM	WATT-HOUR METER
WI	WROUGHT IRON
WKSH	WORK SHOP
WM	WIRE MESH
W/O	WITHOUT
WP	WATERPROOF(ING)
WP	WEATHERPROOF
WP	WORKING POINT
WR	WASTE RECEPTACLE
WRB	WARDROBE
WS	WATERSTOP
W.S.	WASTE STACK
WSCT	WAINSCOT
WT	WEIGHT
WTH	WIDTH
W/W	WALL TO WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WWR	WELDED WIRE REINFORCEMENT
XFMR	TRANSFORMER
YD	YARD
YD	YARD DRAIN

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
ANSI/D

ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_G-005.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) I - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

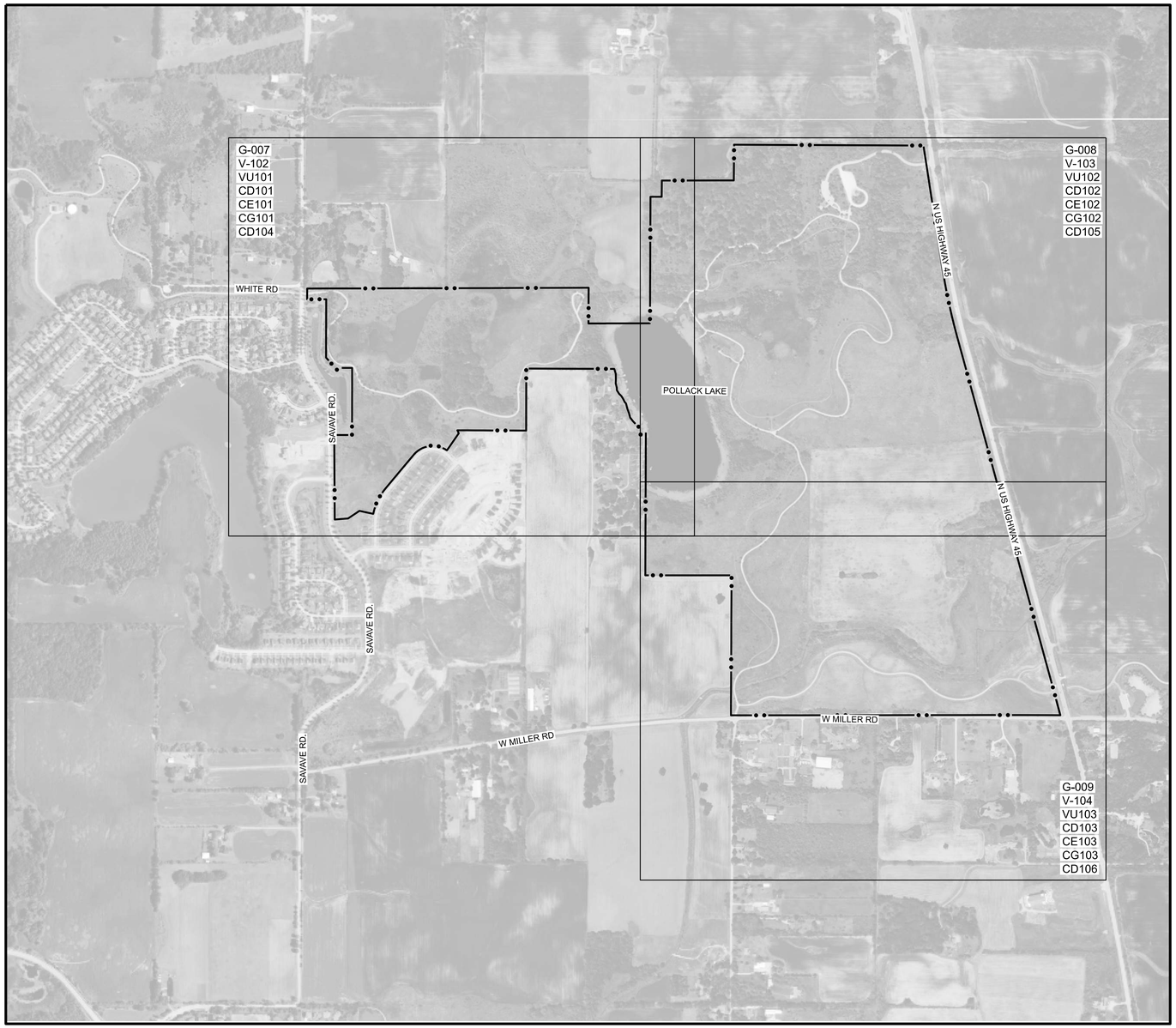
ABBREVIATIONS

SHEET ID
G-005

CERTIFIED FINAL DOCUMENTS - RTA

LEGEND

WORKLIMITS



PLAN NORTH

0 600' 1200'

A1 GENERAL PROJECT KEYMAP

SCALE: 1"=600'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	R. MUHAMMAD
DRAWN BY:	A. WILLIAMS
CHECKED BY:	R. MUHAMMAD
SUBMITTED BY:	A. KARR
SIZE:	ANSI D
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C987
FILE NAME:	444304-66C987_G-006.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

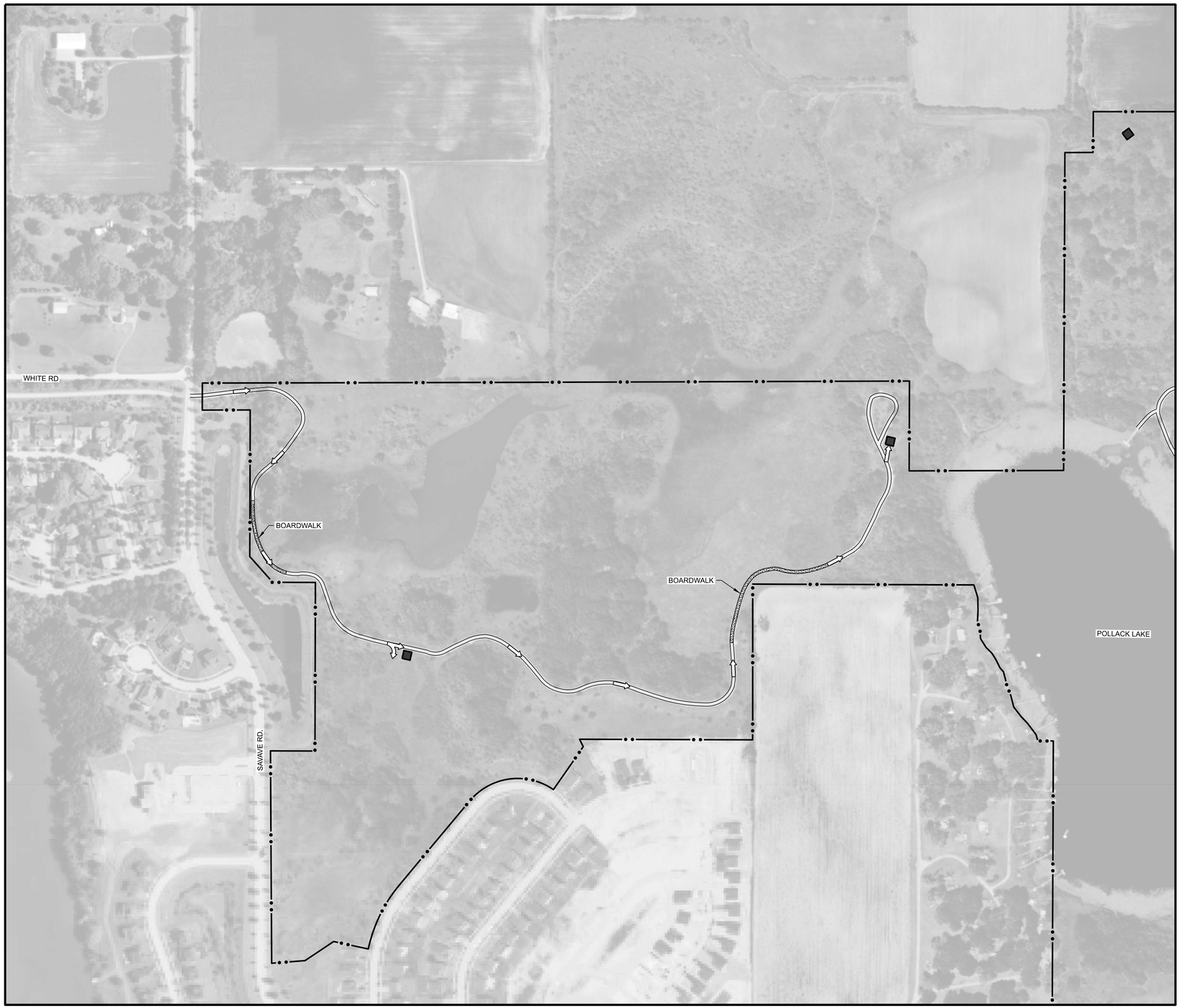
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

GENERAL PROJECT KEYMAP

SHEET ID

G-006

CERTIFIED FINAL DOCUMENTS - RTA



A1 OVERALL SITE STAGING AND STORAGE

SCALE: 1"=200'

STAGING AND STORAGE NOTES

1. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD83) U.S. FEET.
2. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). U.S. FEET.
3. CONTROL POINTS PROVIDED ARE TO BE USED FOR CONSTRUCTION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING LOAD RESTRICTIONS ON ALL ROADS USED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGES DURING CONSTRUCTION.
5. ALL TEMPORARY STAGING AREAS MAY BE ADJUSTED BUT MUST BE CONFIRMED WITH THE COR AND LAKE COUNTY FOREST PRESERVE. ALL TEMPORARY STAGING AREAS MUST BE RESTORED BACK TO THEIR ORIGINAL FORM.
6. BOARDWALKS AREAS HAVE A 10 TON LIMIT. CONTRACTOR IS TO VERIFY WEIGHT OF ALL EQUIPMENT PRIOR TO CROSSING THE BOARDWALK. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGES DURING CONSTRUCTION.
7. TRUCKS CARRYING A MAXIMUM AXLE LOAD UP TO 15,000 POUNDS MAY CROSS THE RIGHT-OF-AWAY ΔETER WEST SHORE PIPELINE COMPANY HAS CONFIRMED A MINIMUM COVER OF 48 INCHES OVER THE PIPE LINE. AT ALL CROSSING LOCATIONS, THE CROSSING PARTY WILL PROVIDE 12-INCH OF CLEAN AASHTO 1 STONE OVER THE PIPELINE RIGHT-OF-AWAY. WHEN TEMPORARY FILL MUST BE ADDED, COLORED SHEETS OF PLASTIC SHALL BE PLACED UNDER THE TEMPORARY FILL AT ORIGINAL GRADE SO THAT THE ORIGINAL GRADE WILL NOT BE DISTURBED WHEN THE TEMPORARY FILL IS REMOVED. CONTRACTOR SHALL PROVIDE SUBMITTAL "CONSTRUCTION EQUIPMENT LIST" TO COR PRIOR TO CONSTRUCTION TO SHARE WITH WEST SHORE PIPE LINE COMPANY. IF DEPTH COVER IS UNSATISFACTORY, ALL RIGHT-OF-AWAY CROSSINGS MUST BE PROTECTED WITH THE INSTALLATION OF TEMPORARY EARTHEN RAMPS. SEE SHEET R-001 AND SPECIFICATION SECTION 31 00 00 FOR FURTHER DETAILS.

LEGEND

- WORKLIMITS
- BOARDWALK
- WEST SHORE PIPE LINE COMPANY EASEMENT AREA
- TEMPORARY STAGING AREAS

SHEET KEYNOTES

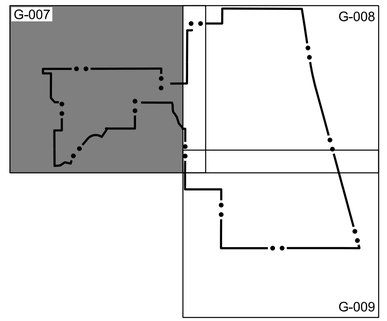
1. TEMPORARY ROAD CLOSURE. COORDINATE ROAD CLOSURE SIGNAGE WITH COR AND LAKE COUNTY FOREST PRESERVE PRIOR TO ROAD CLOSURE.
2. HEAVY EQUIPMENT CROSSING MUST BE COORDINATED WITH COR & WEST SHORE PIPE LINE COMPANY PRIOR TO CONSTRUCTION. CROSSINGS TO BE LIMITED. IF ADDITIONAL PROTECTION REQUIRED SEE SHEET R-001 FOR WEST SHORE PIPE LINE COMPANY TEMPORARY CONSTRUCTION RAMP

STAGING AND STORAGE LIMIT COORDINATES

HORIZONTAL DATUM: ILLINOIS EAST STATE PLANE NAD 83
VERTICAL DATUM: NAVD 88

POINT	NORTHING (N)	EASTING (E)
S1-01	2,106,590.19	1,070,013.05
S1-02	2,106,590.19	1,069,850.46
S1-03	2,106,932.23	1,069,423.84
S1-04	2,107,795.60	1,069,407.92
S1-05	2,107,804.56	1,069,894.13
S1-06	2,107,318.35	1,069,903.09
S2-01	2,106,415.39	1,069,334.69
S2-02	2,106,062.04	1,069,363.40
S2-03	2,106,067.08	1,069,813.56
S2-04	2,106,282.69	1,069,783.28
S2-05	2,106,395.45	1,069,649.48

OVERALL SITE KEY MAP



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SIZE: ANSI D

ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_G-007.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST, SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

PROJECT STAGING AND STORAGE - PLAN 1

SHEET ID

G-007

CERTIFIED FINAL DOCUMENTS - RTA



PLAN NORTH

0 600' 1200'

A1 OVERALL SITE STAGING AND STORAGE

SCALE: 1"=200'

STAGING AND STORAGE NOTES

1. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD83) U.S. FEET.
2. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). U.S. FEET.
3. CONTROL POINTS PROVIDED ARE TO BE USED FOR CONSTRUCTION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING LOAD RESTRICTIONS ON ALL ROADS USED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGES DURING CONSTRUCTION.
5. ALL TEMPORARY STAGING AREAS MAY BE ADJUSTED BUT MUST BE CONFIRMED WITH THE COR AND LAKE COUNTY FOREST PRESERVE. ALL TEMPORARY STAGING AREAS MUST BE RESTORED BACK TO THEIR ORIGINAL FORM.
6. BOARDWALKS AREAS HAVE A 10 TON LIMIT. CONTRACTOR IS TO VERIFY WEIGHT OF ALL EQUIPMENT PRIOR TO CROSSING THE BOARDWALK. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY DAMAGES DURING CONSTRUCTION.
7. TRUCKS CARRYING A MAXIMUM AXLE LOAD UP TO 15,000 POUNDS MAY CROSS THE RIGHT-OF-AWAY ΔETER WEST SHORE PIPELINE COMPANY HAS CONFIRMED A MINIMUM COVER OF 48 INCHES OVER THE PIPE LINE. AT ALL CROSSING LOCATIONS, THE CROSSING PARTY WILL PROVIDE 12-INCH OF CLEAN AASHTO 1 STONE OVER THE PIPELINE RIGHT-OF-AWAY. WHEN TEMPORARY FILL MUST BE ADDED, COLORED SHEETS OF PLASTIC SHALL BE PLACED UNDER THE TEMPORARY FILL AT ORIGINAL GRADE SO THAT THE ORIGINAL GRADE WILL NOT BE DISTURBED WHEN THE TEMPORARY FILL IS REMOVED. CONTRACTOR SHALL PROVIDE SUBMITTAL "CONSTRUCTION EQUIPMENT LIST" TO COR PRIOR TO CONSTRUCTION TO SHARE WITH WEST SHORE PIPE LINE COMPANY. IF DEPTH COVER IS UNSATISFACTORY, ALL RIGHT-OF-AWAY CROSSINGS MUST BE PROTECTED WITH THE INSTALLATION OF TEMPORARY EARTHEN RAMPS. SEE SHEET R-001 AND SPECIFICATION SECTION 31 00 00 FOR FURTHER DETAILS.

LEGEND

- WORKLIMITS
- BOARDWALK
- WEST SHORE PIPE LINE COMPANY EASEMENT AREA
- TEMPORARY STAGING AREAS

SHEET KEYNOTES

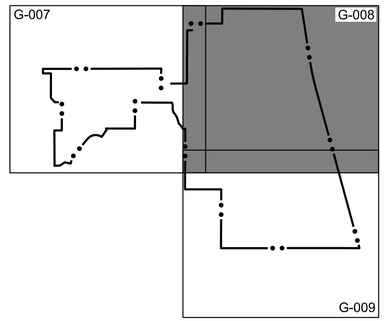
1. TEMPORARY ROAD CLOSURE. COORDINATE ROAD CLOSURE SIGNAGE WITH COR AND LAKE COUNTY FOREST PRESERVE PRIOR TO ROAD CLOSURE.
2. HEAVY EQUIPMENT CROSSING MUST BE COORDINATED WITH COR & WEST SHORE PIPE LINE COMPANY PRIOR TO CONSTRUCTION. CROSSINGS TO BE LIMITED. IF ADDITIONAL PROTECTION REQUIRED SEE SHEET R-001 FOR WEST SHORE PIPE LINE COMPANY TEMPORARY CONSTRUCTION RAMP

STAGING AND STORAGE LIMIT COORDINATES

HORIZONTAL DATUM: ILLINOIS EAST STATE PLANE NAD 83
VERTICAL DATUM: NAVD 88

POINT	NORTHING (N)	EASTING (E)
S1-01	2,106,590.19	1,070,013.05
S1-02	2,106,590.19	1,069,850.46
S1-03	2,106,932.23	1,069,423.84
S1-04	2,107,795.60	1,069,407.92
S1-05	2,107,804.56	1,069,894.13
S1-06	2,107,318.35	1,069,903.09
S2-01	2,106,415.39	1,069,334.69
S2-02	2,106,062.04	1,069,363.40
S2-03	2,106,067.08	1,069,813.56
S2-04	2,106,282.69	1,069,783.28
S2-05	2,106,395.45	1,069,649.48

OVERALL SITE KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
A/E: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_G-008.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

PROJECT STAGING AND STORAGE - PLAN 2

SHEET ID

G-008

CERTIFIED FINAL DOCUMENTS - RTA



PLAN NORTH

0 600' 1200'

A1 OVERALL SITE STAGING AND STORAGE

SCALE: 1"=200'

STAGING AND STORAGE NOTES

1. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD83) U.S. FEET.
2. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). U.S. FEET.
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7. TRUCKS CARRYING A MAXIMUM AXLE LOAD UP TO 15,000 POUNDS MAY CROSS THE RIGHT-OF-AWAY ΔFTER WEST SHORE PIPELINE COMPANY HAS CONFIRMED A MINIMUM COVER OF 48 INCHES OVER THE PIPE LINE, AT ALL CROSSING LOCATIONS, THE CROSSING PARTY WILL PROVIDE 12-INCH OF CLEAN AASHTO 1 STONE OVER THE PIPELINE RIGHT-OF-AWAY. WHEN TEMPORARY FILL MUST BE ADDED, COLORED SHEETS OF PLASTIC SHALL BE PLACED UNDER THE TEMPORARY FILL AT ORIGINAL GRADE SO THAT THE ORIGINAL GRADE WILL NOT BE DISTURBED WHEN THE TEMPORARY FILL IS REMOVED. CONTRACTOR SHALL PROVIDE SUBMITTAL "CONSTRUCTION EQUIPMENT LIST" TO COR PRIOR TO CONSTRUCTION TO SHARE WITH WEST SHORE PIPE LINE COMPANY. IF DEPTH COVER IS UNSATISFACTORY, ALL RIGHT-OF-AWAY CROSSINGS MUST BE PROTECTED WITH THE INSTALLATION OF TEMPORARY EARTHEN RAMPS. SEE SHEET R-001 AND SPECIFICATION SECTION 31 00 00 FOR FURTHER DETAILS.

LEGEND

- WORKLIMITS
- BOARDWALK
- WEST SHORE PIPE LINE COMPANY EASEMENT AREA
- TEMPORARY STAGING AREAS

SHEET KEYNOTES

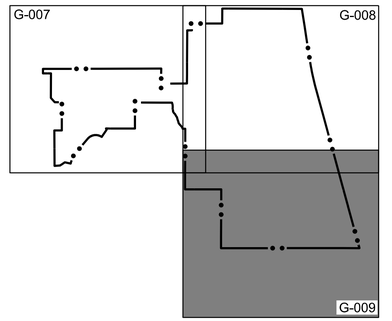
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STAGING AND STORAGE LIMIT COORDINATES

HORIZONTAL DATUM: ILLINOIS EAST STATE PLANE NAD 83
VERTICAL DATUM: NAVD 88

POINT	NORTHING (N)	EASTING (E)
S1-01	2,106,590.19	1,070,013.05
S1-02	2,106,590.19	1,069,850.46
S1-03	2,106,932.23	1,069,423.84
S1-04	2,107,795.60	1,069,407.92
S1-05	2,107,804.56	1,069,894.13
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S2-03	2,106,067.08	1,069,813.56
S2-04	2,106,282.69	1,069,783.28
S2-05	2,106,395.45	1,069,649.48

OVERALL SITE KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
QA/QC: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_G-009.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

PROJECT STAGING AND STORAGE - PLAN 3

SHEET ID

G-009

CERTIFIED FINAL DOCUMENTS - RTA

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
1	2110534.741	1069222.607	8	Quercus macrocarpa
2	2110550.833	1069246.254	5	Quercus macrocarpa
3	2110532.886	1069271.336	10	Quercus bicolor
4	2110496.18	1069288.735	9	Quercus macrocarpa
5	2110423.025	1069288.831	30	Gletri
6	2110411.609	1069313.013	4	Quercus macrocarpa
7	2110294.542	1069310.167	23	Gletri
8	2110224.742	1069303.436	31	Gletri
9	2110189.614	1069281.08	18	Quercus rubra
10	2110179.63	1069270.332	30	Gletri
11	2110167.911	1069260.707	27	Gletri
12	2110124.53	1069002.944	5	Quercus bicolor
13	2110270	1069040.651	10	Quercus rubra
14	2110039.767	1069045.294	5	Quercus bicolor
15	2110054.064	1069043.446	5	Quercus bicolor
16	2110043.599	1069066.921	5	Quercus bicolor
17	2110085.862	1069074.58	23	Gletri
18	2110075.368	1069085.36	24	Gletri
19	2110001.749	1069130.004	6	Quercus rubra
20	2109990.723	1069130.558	7	Quercus rubra
21	2109995.01	1069144.379	5	Quercus rubra
22	2109977.659	1069163.506	5	Quercus macrocarpa
23	2109951.988	1069158.333	5	Quercus macrocarpa
24	2109949.538	1069129.771	6	Quercus macrocarpa
25	2110108.066	1069308.345	4	Crataegus crus-galli stand
26	2109626.538	1069713.605	38	Popdel
27	2109598.048	1069776.821	27	Ulmus spp
28	2109622.802	1069888.223	31	Ulmus spp
29	2109639.082	1069846.293	38	Quercus macrocarpa
30	2109980.819	1069848.049	2	Carova
31	2110010.105	1069860.692	38	Quercus macrocarpa
32	2110090.765	1069884.251	4	Quercus macrocarpa
33	2110050.277	1069898.935	5	Quercus macrocarpa
34	2110050.277	1069898.935	5	Quercus macrocarpa
35	2110104.587	1069899.863	4	Quercus macrocarpa
36	2110102.769	1069893.419	3	Quercus macrocarpa
37	2110128.589	1069897.543	2	Quercus macrocarpa
38	2110128.788	1069895.853	2	Quercus macrocarpa
39	2110141.761	1069895.247	1	Quercus macrocarpa
40	2110499.034	1067684.528	57	Quercus rubra
41	2110464.221	1069344.338	7	Quercus macrocarpa
42	2110448.266	1069348.796	12	Quercus macrocarpa
43	2110435.455	1069354.915	4	Quercus macrocarpa
44	2110425.229	1069354.955	14	Quercus macrocarpa
45	2110394.703	1069335.36	7	Quercus macrocarpa
46	2110402.447	1069332.28	6	Quercus macrocarpa
47	2110417.744	1069377.567	11	Quercus macrocarpa
48	2110378.738	1069412.614	8	Quercus macrocarpa
49	2110445.072	1069419.643	43	Quercus macrocarpa
50	2110458.713	1069441.725	17	Quercus macrocarpa
51	2110457.226	1069452.148	8	Quercus macrocarpa
52	2110447.883	1069449.374	7	Quercus macrocarpa
53	2110441.716	1069465.239	9	Quercus macrocarpa
54	2110456.278	1069460.824	10	Quercus macrocarpa
55	2110468.116	1069456.079	11	Quercus macrocarpa
56	2110454.98	1069496.747	18	Quercus macrocarpa
57	2110429.797	1069477.519	8	Quercus macrocarpa
58	2110445.272	1069518.93	11	Quercus macrocarpa
59	2110480.273	1069685.267	34	Acer saccharinum
60	2110707.118	1069772.392	44	Catalpa speciosa
61	2110514.117	1069798.069	8	Quercus rubra
62	2110452.519	1069790.433	13	Quercus macrocarpa
63	2110448.694	1069779.778	15	Quercus macrocarpa
64	2110437.694	1069793.762	12	Quercus macrocarpa
65	2110439.209	1069786.69	13	Quercus macrocarpa
66	2110444.317	1069774.86	11	Quercus macrocarpa
67	2110430.657	1069820.502	15	Quercus macrocarpa
68	2110431.201	1069824.167	9	Quercus macrocarpa
69	2110442.605	1069821.661	14	Quercus macrocarpa
70	2110451.309	1069831.911	8	Quercus macrocarpa

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
71	2110448.56	1069837.484	6	Quercus macrocarpa
72	2110435.065	1069836.682	8	Quercus macrocarpa
73	2110432.941	1069848.414	6	Quercus macrocarpa
74	2110448.673	1069862.897	7	Quercus macrocarpa
75	2110443.424	1069868.32	6	Quercus macrocarpa
76	2110404.363	1069857.532	9	Quercus macrocarpa
77	2110397.877	1069853.83	8	Quercus macrocarpa
78	2110401.938	1069867.059	14	Quercus macrocarpa
79	2110400.756	1069878.837	15	Quercus macrocarpa
80	2110414.316	1069873.597	14	Quercus macrocarpa
81	2110373.39	1069842.205	17	Quercus macrocarpa
82	2110386.209	1069830.065	12	Quercus macrocarpa
83	2110381.725	1069838.745	7	Quercus macrocarpa
84	2110373.922	1069850.654	8	Quercus macrocarpa
85	2110374.685	1069854.789	9	Quercus macrocarpa
86	2110356.239	1069843.763	13	Quercus macrocarpa
87	2110351.225	1069853.69	8	Quercus macrocarpa
88	2110343.641	1069864.775	9	Quercus macrocarpa
89	2110323.049	1069889.855	15	Quercus macrocarpa
90	2110316.71	1069892.088	20	Quercus macrocarpa
91	2110279.106	1069865.172	13	Quercus macrocarpa
92	2110291.952	1069866.721	10	Quercus macrocarpa
93	2110306.635	1069860.962	11	Quercus macrocarpa
94	2110313.796	1069865.057	15	Quercus macrocarpa
95	2110316.196	1069855.687	14	Quercus macrocarpa
96	2110330.056	1069843.877	8	Quercus macrocarpa
97	2110339.737	1069828.517	12	Quercus macrocarpa
98	2110332.916	1069809.171	11	Quercus macrocarpa
99	2110321.812	1069826.604	12	Quercus macrocarpa
100	2110303.435	1069818.074	9	Quercus macrocarpa
101	2110301.462	1069809.6	7	Quercus macrocarpa
102	2110314.087	1069793.256	7	Quercus macrocarpa
103	2110317.273	1069779.349	7	Quercus macrocarpa
104	2110301.677	1069799.827	9	Quercus macrocarpa
105	2110296.074	1069795.128	13	Quercus macrocarpa
106	2110281.243	1069790.938	9	Quercus macrocarpa
107	2110267.338	1069771.814	12	Quercus macrocarpa
108	2110281.296	1069768.692	13	Quercus macrocarpa
109	2110249.462	1069739.349	14	Quercus macrocarpa
110	2110254.281	1069731.528	15	Quercus macrocarpa
111	2110269.783	1069737.683	9	Quercus macrocarpa
112	2110277.945	1069743.063	18	Quercus macrocarpa
113	2110275.284	1069736.198	12	Quercus macrocarpa
114	2110295.588	1069708.838	17	Quercus macrocarpa
115	2110300.431	1069710.252	11	Quercus macrocarpa
116	2110307.249	1069721.841	12	Quercus macrocarpa
117	2110305.782	1069715.574	12	Quercus macrocarpa
118	2110303.333	1069722.278	8	Quercus macrocarpa
119	2110324.505	1069701.101	7	Quercus macrocarpa
120	2110336.219	1069720.215	7	Quercus macrocarpa
121	2110346.828	1069722.835	7	Quercus macrocarpa
122	2110293.565	1069816.272	15	Quercus macrocarpa
123	2110297.208	1069814.293	7	Quercus macrocarpa
124	2110258.275	1069801.905	21	Quercus macrocarpa
125	2110248.211	1069826.451	10	Quercus macrocarpa
126	2110283.453	1069855.673	15	Quercus macrocarpa
127	2110282.043	1069857.555	15	Quercus macrocarpa
128	2110277.745	1069850.972	10	Quercus macrocarpa
129	2110251.48	1069882.129	12	Quercus macrocarpa
130	2110229.751	1069765.193	18	Quercus macrocarpa
131	2110222.118	1069771.885	14	Quercus macrocarpa
132	2110210.105	1069795.173	18	Quercus macrocarpa
133	2110213.355	1069800.065	14	Quercus macrocarpa
134	2110211.615	1069808.121	13	Quercus macrocarpa
135	2110231.622	1069859.091	31	Populus deltoides
136	2110224.385	1069883.705	8	Quercus macrocarpa
137	2110243.566	1069847.933	51	Populus deltoides
138	2110160.056	1069909.412	3	Carya ovata
139	2110924.244	1069593.092	15	Quercus macrocarpa
140	2109976.442	1067994.798	31	Quercus macrocarpa

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SCALE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
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U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING TREES TO BE PROTECTED
COORDINATE TABLE PLAN 1

SHEET ID
V-001

CERTIFIED FINAL DOCUMENTS - RTA

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
141	2109396.213	1068797.755	27	Carya ovata
142	2109997.093	1068952.986	5	Carya ovata
143	2110020.48	1068982.223	8	Populus tremuloides
144	2109997.109	1068993.221	7	Populus tremuloides
145	2109988.944	1069024.347	9	Populus tremuloides
146	2110101.456	1068946.405	9	Populus tremuloides
147	2110100.418	1068945.187	3	Carya ovata
148	2110026.113	1068895.896	24	Quercus palustris
149	2108511.116	1068324.972	3	Quercus macrocarpa
150	2108493.057	1068311.831	2	Quercus macrocarpa
151	2108505.069	1068288.961	1	Quercus macrocarpa
152	2108525.552	1068284.818	1	Quercus macrocarpa
153	2108566.874	1068277.397	1	Quercus macrocarpa
154	2108553.81	1068258.781	1	Quercus macrocarpa
155	2108557.198	1068236.273	2	Quercus macrocarpa
156	2108508.138	1068269.718	1	Quercus macrocarpa
157	2108548.177	1068219.043	1	Quercus rubra
158	2108553.217	1068200.524	2	Quercus macrocarpa
159	2108579.423	1068210.31	1	Quercus macrocarpa
160	2108615.463	1068266.507	1	Quercus macrocarpa
161	2108624.354	1068227.513	1	Quercus macrocarpa
162	2108631.054	1068188.963	8	Quercus rubra
163	2108646.646	1068190.199	2	Quercus macrocarpa
164	2108636.293	1068177.122	2	Quercus macrocarpa
165	2108594.115	1068195.218	8	Quercus rubra
166	2108586.091	1068185.213	2	Quercus macrocarpa
167	2108573.091	1068185.193	3	Quercus macrocarpa
168	2108581.023	1068158.348	8	Quercus rubra
169	2108554.881	1068181.749	2	Quercus macrocarpa
170	2108609.33	1068154.351	10	Quercus rubra
171	2108644.816	1068149.811	2	Quercus macrocarpa
172	2108680.861	1068147.548	7	Quercus rubra
173	2108667.638	1068131.62	2	Quercus macrocarpa
174	2108641.064	1068129.19	8	Quercus rubra
175	2108613.236	1068118.212	3	Quercus macrocarpa
176	2108581.923	1068119.966	1	Quercus rubra
177	2108600.165	1068110.965	2	Quercus macrocarpa
178	2108592.696	1068103.652	2	Quercus macrocarpa
179	2108604.332	1068088.157	2	Carya ovata
180	2108640.939	1068087.59	3	Quercus rubra
181	2108657.086	1068089.3	1	Quercus rubra
182	2108594.368	1068074.759	2	Carya ovata
183	2108536.217	1068027.894	34	Quercus macrocarpa
184	2108514.641	1068011.462	23	Quercus macrocarpa
185	2108504.987	1068034.311	15	Carya ovata
186	2108471.738	1068054.19	24	Quercus macrocarpa
187	2108437.645	1068043.26	33	Quercus macrocarpa
188	2108449.205	1068028.636	30	Quercus macrocarpa
189	2108421.51	1068053.528	44	Quercus macrocarpa
190	2108414.893	1068046.491	37	Quercus macrocarpa
191	2108463.485	1068082.803	26	Quercus macrocarpa
192	2108471.507	1068062.197	17	Quercus macrocarpa
193	2108482.497	1068045.564	17	Quercus alba
194	2108494.475	1068056.952	15	Quercus macrocarpa
195	2108528.007	1068053.145	28	Quercus alba
196	2108532.311	1068067.163	31	Quercus alba
197	2108535.983	1068059.373	29	Quercus alba
198	2108544.697	1068091.954	27	Quercus macrocarpa
199	2108544.394	1068085.435	22	Quercus alba
200	2108522.68	1068115.603	19	Quercus macrocarpa
201	2108587.824	1068062.423	2	Quercus alba
202	2108513.794	1068127.017	35	Quercus macrocarpa
203	2108597.677	1068065.572	3	Quercus macrocarpa
204	2108590.59	1068055.933	2	Carya ovata
205	2108594.871	1068021.767	2	Quercus macrocarpa
206	2108593.007	1068008.633	1	Carya ovata
207	2108620.472	1068032.857	1	Carya ovata
208	2108638.464	1068016.464	4	Quercus macrocarpa
209	2108660.013	1068019.367	2	Quercus macrocarpa
210	2108622.078	1067990.107	2	Quercus macrocarpa

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
211	2108611.264	1067991.84	2	Carya ovata
212	2108636.642	1067979.929	3	Carya ovata
213	2108652.298	1067971.886	6	Quercus macrocarpa
214	2108673.466	1067972.518	2	Quercus macrocarpa
215	2108676.194	1067990.457	2	Quercus macrocarpa
216	2108453.928	1068195.286	28	Quercus macrocarpa
217	2108472.786	1068202.824	32	Quercus macrocarpa
218	2108474.275	1068537.27	2	Quercus macrocarpa
219	2108451.402	1068642.239	42	Quercus macrocarpa
220	2108492.818	1068670.978	2	Quercus macrocarpa
221	2108379.291	1068214.585	7	Quercus macrocarpa
222	2108336.088	1068224.27	1	Quercus macrocarpa
223	2108101.339	1068280.641	2	Quercus macrocarpa
224	2108167.309	1068331.68	9	Quercus macrocarpa
225	2107750.225	1068141.037	2	Quercus macrocarpa
226	2107690.67	1068144.915	1	Quercus macrocarpa
227	2107667.855	1068194.619	2	Quercus macrocarpa
228	2107708.887	1068227.527	1	Quercus macrocarpa
229	2107649.882	1068187.192	6	Quercus macrocarpa
230	2107365.868	1067639.255	41	Quercus macrocarpa
231	2107815.222	1067676.065	27	Carya ovata
232	2107830.788	1067636.315	7	Quercus macrocarpa
233	2107848.469	1067614.394	6	Carya ovata
234	2107828.923	1067581.782	6	Carya ovata
235	2107864.262	1067541.354	25	Carya ovata
236	2107780.047	1067489.712	33	Carya ovata
237	2107815.947	1067456.862	25	Carya ovata
238	2107857.305	1067494.173	23	Carya ovata
239	2107834.853	1067419.35	34	Carya ovata
240	2107839.006	1067366.647	29	Carya ovata
241	2107894.481	1067316.806	8	Carya ovata
242	2107927.007	1067344.139	23	Carya ovata
243	2107905.25	1067359.071	13	Quercus rubra
244	2107863.175	1067297.542	8	Carya ovata
245	2107648.391	1067352.116	9	Carya ovata
246	2107648.667	1067407.153	1	Carya ovata
247	2107667.358	1067438.94	1	Carya ovata
248	2107349.068	1068991.576	29	Carya ovata
249	2107340.452	1069216.183	19	Cel occ
250	2107345.843	1069284.715	18	Cel occ
251	2107336.718	1069306.859	9	Cel occ
252	2107802.61	1070491.934	8	Carya ovata
253	2107963.428	1070453.268	30	Juglans nigra
254	2107961.281	1070392.002	29	Quercus macrocarpa
255	2109338.686	1070036.549	1	Quercus macrocarpa
256	2109500.407	1069714.477	11	Carya ovata
257	2110044.379	1069039.051	8	Populus tremuloides
258	2109830.084	1067592.485	42	Ace sai
259	2109766.901	1067589.654	8	Populus tremuloides
260	2109654.63	1067709.234	14	Populus tremuloides
261	2109658.588	1067738.384	9	Quercus macrocarpa
262	2109648.589	1067743.599	4	Quercus macrocarpa
263	2109635.37	1067761.375	5	Quercus palustris
264	2109640.291	1067780.804	13	Quercus palustris
265	2109661.748	1067807.919	6	Quercus macrocarpa
266	2109614.452	1067835.81	5	Carya ovata
267	2109650.854	1067852.027	15	Populus tremuloides
268	2109656.055	1067850.86	5	Carya ovata
269	2109670.787	1067863.624	7	Carya ovata
270	2109643.924	1067882.954	16	Populus tremuloides
271	2109632.592	1067953.254	17	Populus tremuloides
272	2109618.653	1067979.554	7	Quercus palustris
273	2109612.635	1067998	18	Populus tremuloides
274	2109566.563	1067675.258	14	Quercus macrocarpa
275	2109524.184	1067721.957	13	Quercus macrocarpa
276	2109523.757	1067716.974	8	Quercus macrocarpa
277	2109526.48	1067717.051	9	Quercus macrocarpa
278	2108506.427	1068134.49	35	Quercus macrocarpa
279	2108398.654	1068124.451	24	Quercus macrocarpa
280	2108408.964	1068118.879	24	Quercus macrocarpa

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SCALE: ANSI D

ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-002.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING TREES TO BE PROTECTED
COORDINATE TABLE PLAN 2

SHEET ID
V-002

CERTIFIED FINAL DOCUMENTS - RTA

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
281	2108417.126	1068116.041	13	Quercus macrocarpa
282	2108406.433	1068099.82	20	Quercus macrocarpa
283	2108393.891	1068139.382	27	Quercus macrocarpa
284	2108398.308	1068148.973	27	Quercus macrocarpa
285	2108399.32	1068158.926	22	Quercus macrocarpa
286	2108384.49	1068172.745	21	Quercus macrocarpa
287	2108424.74	1068166.494	19	Quercus macrocarpa
288	2108431.145	1068184.175	10	Quercus alba
289	2108426.284	1068187.115	28	Quercus macrocarpa
290	2108440.647	1068194.091	36	Quercus macrocarpa
291	2108448.688	1068205.548	40	Quercus macrocarpa
292	2108478.295	1068175.79	34	Quercus macrocarpa
293	2108425.674	1068656.989	41	Quercus macrocarpa
294	2108173.437	1068168.734	1	Quercus macrocarpa
295	2108179.078	1068256.206	4	Quercus macrocarpa
296	2108221.916	1068291.26	26	Carya ovata
297	2107723.849	1068167.67	41	Quercus macrocarpa
298	2107712.073	1068121.935	1	Quercus macrocarpa
299	2107707.59	1068133.489	1	Quercus macrocarpa
300	2107424.923	1067695.132	48	Quercus macrocarpa
301	2107880.93	1067599.63	30	Carya ovata
302	2107894.266	1067559.107	24	Carya ovata
303	2107942.211	1067513.13	20	Carya ovata
304	2107984.908	1067465.274	26	Carya ovata
305	2107872.907	1067400.806	8	Carya ovata
306	2107876.814	1067391.456	9	Carya ovata
307	2107871.802	1067380.858	11	Carya ovata
308	2107919.301	1067371.366	20	Quercus rubra
309	2107919.857	1067338.108	27	Carya ovata
310	2107927.772	1067331.016	17	Quercus rubra
311	2107981.349	1067305.052	17	Quercus rubra
312	2107931.115	1067308.482	22	Carya ovata
313	2107709.569	1067365.034	39	Quercus macrocarpa
314	2106813.13	1069494.86	40	Quercus macrocarpa
315	2106706.209	1069644.253	46	Quercus macrocarpa
316	2107816.602	1070485.735	19	Juglans nigra
317	2107870.177	1070442.348	29	Juglans nigra
318	2109763.917	1067628.194	7	Populus tremuloides
319	2109663.469	1067741.467	20	Quercus palustris
320	2109659.518	1067773.999	11	Populus tremuloides
321	2109631.07	1067781.561	10	Populus tremuloides
322	2109669.459	1067788.662	16	Pru ser
323	2109677.044	1067846.049	12	Populus tremuloides
324	2109603.368	1067804.657	12	Populus tremuloides
325	2109637.513	1067887.225	12	Populus tremuloides
326	2109645.489	1067881.591	13	Quercus palustris
327	2109655.966	1067911.562	18	Quercus palustris
328	2109645.688	1067989.592	15	Quercus palustris
329	2109591.457	1068063.363	12	Quercus palustris
330	2109555.238	1068129.015	14	Quercus palustris
331	2109504.76	1067693.461	19	Quercus macrocarpa
332	2108729.674	1066037.33	23	Carya ovata
333	2108790.847	1066061.422	23	Carya ovata
334	2108720.19	1065981.147	5	Quercus macrocarpa
335	2108738.041	1065916.881	8	Quercus macrocarpa
336	2108745.702	1065879.689	4	Quercus macrocarpa
337	2108775.764	1065807.971	5	Quercus macrocarpa
338	2108761.824	1065764.978	5	Quercus macrocarpa
339	2108788.099	1065716.87	5	Quercus macrocarpa
340	2108795.168	1065659.765	5	Quercus macrocarpa
341	2108838.686	1065945.326	8	Quercus macrocarpa
342	2109855.123	1066588.869	12	Quercus macrocarpa
343	2109898.135	1066581.949	10	Quercus macrocarpa
344	2109948.191	1066590.521	12	Quercus macrocarpa
345	2109930.962	1066548.886	11	Quercus macrocarpa
346	2109955.61	1066393.188	39	Quercus macrocarpa
347	2109891.67	1066437.428	36	Quercus macrocarpa
348	2109622.628	1066535.529	20	Carya ovata
349	2109637.325	1066527.446	19	Carya ovata
350	2109639.691	1066540.115	22	Carya ovata

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
351	2109573.128	1066501.36	38	Quercus alba
352	2109549.366	1066414.285	31	Quercus macrocarpa
353	2109485.79	1066426.116	28	Quercus macrocarpa
354	2109489.94	1066389.277	35	Quercus macrocarpa
355	2109471.58	1066410.051	28	Quercus macrocarpa
356	2109512.634	1066617.716	45	Quercus alba
357	2109473.043	1066643.035	36	Quercus macrocarpa
358	2109490.085	1066676.383	24	Quercus alba
359	2109485.217	1066703.502	42	Quercus alba
360	2109502.857	1066737.597	19	Carya ovata
361	2109425.872	1066756.119	47	Quercus macrocarpa
362	2109314.547	1066731.316	24	Quercus alba
363	2109336.804	1066722.057	30	Quercus alba
364	2109351.107	1066717.121	27	Quercus alba
365	2109347.783	1066675.406	25	Quercus alba
366	2109340.078	1066687.188	26	Quercus alba
367	2109313.121	1066684.339	22	Carya ovata
368	2109286.672	1066703.026	24	Quercus alba
369	2109327.566	1066673.769	29	Quercus macrocarpa
370	2109325.129	1066650.773	32	Quercus alba
371	2109359.102	1066627.251	34	Quercus alba
372	2109379.276	1066615.803	6	Carya ovata
373	2109403.443	1066649.183	6	Carya ovata
374	2109489.047	1066558.968	5	Quercus macrocarpa
375	2109416.247	1066460.731	5	Quercus macrocarpa
376	2109414.851	1066512.95	3	Quercus macrocarpa
377	2109389.095	1066480.477	7	Quercus macrocarpa
378	2109070.289	1066026.9	6	Quercus macrocarpa
379	2109071.359	1065982.094	8	Quercus macrocarpa
380	2109040.708	1066056.554	6	Quercus macrocarpa
381	2109004.166	1066043.129	5	Quercus macrocarpa
382	2108971.8	1066050.104	4	Quercus macrocarpa
383	2109654.735	1065598.157	40	Quercus macrocarpa
384	2109679.538	1065657.938	48	Quercus macrocarpa
385	2109843.149	1065591.76	20	Carya ovata
386	2109837.914	1065608.141	22	Carya ovata
387	2109856.711	1065587.03	18	Carya ovata
388	2109863.614	1065657.934	25	Carya ovata
389	2109848.451	1065653.631	19	Carya ovata
390	2109891.849	1065608.474	20	Carya ovata
391	2109690.326	1065350.272	19	Carya ovata
392	2109039.727	1064978.65	6	Quercus macrocarpa
393	2108993.81	1064952.96	6	Quercus macrocarpa
394	2108974.656	1064896.777	6	Quercus macrocarpa
395	2109193.351	1064497.082	11	Quercus macrocarpa
396	2109179.769	1064524.705	12	Quercus macrocarpa
397	2109119.345	1064517.105	8	Quercus macrocarpa
398	2109074.34	1064577.992	8	Quercus rubra
399	2109101.904	1064584.268	13	Quercus rubra
400	2109052.326	1064613.31	7	Quercus macrocarpa
401	2109025.928	1064659.994	5	Quercus rubra
402	2109062.08	1064687.137	10	Quercus rubra
403	2108664.189	1065324.028	38	Quercus macrocarpa
404	2108716.884	1065324.157	34	Quercus macrocarpa
405	2108772.558	1065309.504	10	Quercus rubra
406	2108788.829	1065246.088	10	Quercus rubra
407	2108845.793	1065261.549	8	Quercus rubra
408	2108886.111	1065358.091	9	Quercus macrocarpa
409	2108898.966	1065457.819	11	Quercus macrocarpa
410	2108852.526	1065435.245	8	Quercus macrocarpa
411	2108796.267	1065449.236	7	Quercus macrocarpa
412	2108759.08	1065427.914	8	Quercus rubra
413	2108767.894	1065478.461	9	Quercus rubra
414	2108847.27	1065500.676	5	Quercus macrocarpa

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
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SUBMITTED BY: A. KARR
SCALE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-003.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
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CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING TREES TO BE PROTECTED
COORDINATE TABLE PLAN 3

SHEET ID
V-003

CERTIFIED FINAL DOCUMENTS - RTA

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
415	2110799.418	1068931.048	3	Quercus rubra
416	2110802.753	1068935.495	1	Miscellaneous Unknown
417	2110827.692	1068926.047	3	Quercus rubra
418	2110853.332	1068935.494	3	Quercus bicolor
419	2110854.999	1068900.478	3	Quercus rubra
420	2110892.97	1068934.768	5	Thuja spp.
421	2110905.576	1068881.512	2	Quercus coccinea
422	2110921.18	1068905.488	3	Quercus coccinea
423	2110937.855	1068877.141	3	Quercus coccinea
424	2110971.655	1068919.177	6	Juniperus virginiana
425	2111028.507	1068893.07	12	Miscellaneous Unknown
426	2111018.502	1068928.643	19	Miscellaneous Unknown
427	2111046.293	1068931.422	2	Crataegus spp.
428	2111015.161	1068951.474	18	Picea glauca
429	2110983.485	1068979.222	3	Quercus rubra
430	2110932.906	1068993.118	3	Quercus rubra
431	2110909.561	1068999.232	3	Quercus rubra
432	2110897.596	1068990.78	3	Quercus rubra
433	2110840.902	1069004.12	10	Acer saccharinum
434	2110740.91	1069036.256	1	Crataegus spp.
435	2110748.189	1069026.633	1	Crataegus spp.
436	2110751.429	1069011.678	2	Crataegus spp.
437	2110747.591	1068999.843	2	Crataegus spp.
438	2110820.319	1069154.201	2	Crataegus spp.
439	2110822.542	1069188.106	1	Crataegus spp.
440	2110838.661	1069175.878	1	Crataegus spp.
441	2110943.33	1069208.15	10	Prunus serotina
442	2111011.695	1069254.839	3	Quercus rubra
443	2111107.878	1069274.771	3	Quercus rubra
444	2111153.889	1069265.309	3	Quercus rubra
445	2111119.984	1069253.081	2	Quercus rubra
446	2111063.291	1069153.034	17	Miscellaneous Unknown
447	2111066.07	1069109.68	11	Acer saccharinum
448	2111092.749	1069093.561	2	Crataegus spp.
449	2111077.186	1069011.3	3	Quercus rubra
450	2110963.942	1069134.388	3	Quercus rubra
451	2110943.933	1069163.291	3	Quercus rubra
452	2110748.717	1068935.078	3	Quercus coccinea
453	2111186.661	1068939.665	12	Picea glauca
454	2111164.947	1068905.206	13	Picea glauca
455	2111113.115	1068879.315	1	Miscellaneous Unknown
456	2111115.19	1068875.167	1	Miscellaneous Unknown
457	2111086.152	1068858.574	3	Quercus rubra
458	2111068.521	1068817.091	2	Quercus rubra
459	2111012.519	1068841.981	12	Picea glauca
460	2111003.185	1068818.128	2	Crataegus spp.
461	2110998	1068813.98	1	Populus deltoides
462	2111007.333	1068803.609	12	Picea glauca
463	2110986.592	1068787.015	3	Quercus rubra
464	2110961.021	1068786.678	5	Tilia americana
465	2110936.211	1068765.055	26	Tilia americana
466	2110905.427	1068784.431	3	Quercus coccinea
467	2110862.235	1068791.005	3	Ostrya virginiana
468	2110804.506	1068821.09	3	Quercus rubra
469	2110786.857	1068806.881	2	Quercus coccinea
470	2110800.353	1068766.092	2	Quercus macrocarpa
471	2110757.477	1068776.121	3	Quercus rubra
472	2110720.194	1068759.215	2	Crataegus spp.
473	2110712.367	1068779.53	2	Quercus rubra
474	2110718.179	1068824.724	2	Quercus rubra
475	2110710.935	1068849.359	3	Quercus rubra
476	2110737.806	1068878.203	4	Quercus macrocarpa
477	2110706.098	1068942.915	3	Quercus coccinea
478	2110679.533	1068961.891	3	Quercus coccinea
479	2110663.81	1068990.083	12	Picea pungens
480	2110669.232	1069093.094	3	Celtis occidentalis
481	2110699.593	1069082.793	3	Celtis occidentalis
482	2110697.572	1069122.072	16	Miscellaneous Unknown
483	2110735.423	1069080.761	3	Quercus rubra
484	2110936.35	1069141.643	3	Quercus rubra

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
485	2110764.061	1068848.538	3	Celtis occidentalis
486	2109425.214	1067848.71	2	Acer x freemanii
487	2109418.972	1067865.72	2	Acer spp.
488	2110224.418	1067762.646	3	Acer saccharum
489	2109739.699	1067591.39	3	Quercus rubra
TREES 490 TO 554 NOT IN PROJECT AREA				

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-004.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING TREES TO BE PROTECTED
COORDINATE TABLE PLAN 4

SHEET ID
V-004

CERTIFIED FINAL DOCUMENTS - RTA

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
TREES 555 TO 603 NOT IN PROJECT AREA				
604	2106360.159	1070877.72	2	Miscellaneous Unknown
605	2106423.648	1070847.268	2	Miscellaneous Unknown
606	2106520.099	1070779.574	2	Miscellaneous Unknown
607	2106502.041	1070655.345	2	Celtis occidentalis
608	2106415.125	1070570.777	2	Miscellaneous Unknown
609	2106442.198	1070531.732	2	Quercus rubra
610	2106439.078	1070507.656	2	Quercus rubra
611	2106401.225	1070409.544	2	Quercus bicolor
612	2106370.012	1070383.789	2	Quercus bicolor
613	2106325.741	1070434.425	2	Celtis occidentalis
614	2106329.514	1070501.507	2	Celtis occidentalis
615	2106349.713	1070540.368	2	Celtis occidentalis
616	2106401.92	1070651.816	2	Quercus bicolor
617	2106388.205	1070806.482	2	Miscellaneous Unknown
618	2106337.278	1070763.947	2	Miscellaneous Unknown
619	2106232.184	1070781.364	2	Miscellaneous Unknown
620	2106146.036	1070849.735	2	Miscellaneous Unknown
621	2106190.649	1070907.804	2	Miscellaneous Unknown
TREES 622 TO 624 NOT IN PROJECT AREA				

COORDINATE TABLE FOR EXISTING TREES TO BE PROTECTED				
POINT	IL EAST NAD 83 STATE PLANE COORDINATES		DIAMETER (IN)	SPECIES
	NORTHING (Y)	EASTING (X)		
TREES 625 TO 638 NOT IN PROJECT AREA				
639	2106487.168	1070827.011	2	Miscellaneous Unknown
640	2106551.399	1070827.307	2	Miscellaneous Unknown
641	2106493.02	1070694.687	2	Celtis occidentalis
642	2106482.572	1070632.857	2	Celtis occidentalis
643	2106346.767	1070581.485	2	Quercus rubra
644	2106295.961	1070623.065	2	Quercus rubra
645	2106437.54	1070675.837	2	Quercus bicolor
646	2106159.148	1070936.46	2	Miscellaneous Unknown
TREES 647 TO 652 NOT IN PROJECT AREA				

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P92-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-005.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING TREES TO BE PROTECTED
COORDINATE TABLE PLAN 5

SHEET ID

V-005

CERTIFIED FINAL DOCUMENTS - RTA

HORIZONTAL & VERTICAL CONTROL POINTS

POINT	IL EAST NAD83 STATEPLANE COORDINATES		ELEV. NAVD88	DESCRIPTION
	NORTHING (Y)	EASTING (X)		
AJ2904	2,108,804.42	1,070,259.49	759.25'	4" BRASS DISK MONUMENT
AJ2896	2,106,661.43	1,070,957.82	759.15'	4" BRASS DISK MONUMENT
DM4222	2,112,669.38	1,063,876,55	794.84'	4" BRASS DISK MONUMENT

PROJECT GENERAL SURVEY NOTES:

1. ALL COORDINATES SHOWN ARE REFERENCED TO THE ILLINOIS STATEPLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM (NAD83) U.S. FEET.
2. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) U.S. FEET.



USACE Survey Monument Archival & Retrieval Tool Datasheet FIUO: None Type: New

Designation: LAK45 1B
Project: Raven Glen Forest Preserve
Stamping: LAK45-1B
PID NGS: AI2904 ○ PPCP ○ LPCP
COE:
State: Illinois
County: LAKE
District: Chicago
Installations
Nearest Town: Antioch
USGS Quad: Antioch (2018)
T.R.S.:
Nearest Hwy/Mi: HW 45
Date Recovered:
By:
Condition/Stability: Good B
Setting/Monument Type: Flanged Encased Rod
Owner: ILDT
Boundary Monument: ○ Yes ◉ No
GPS Suitable: ◉ Yes ○ No
Obstructions: ☒ N ☐ E ☐ S ☐ W
Magnetic: ◉ Yes ○ No
Access:



- Horizontal -
Datum: NAD83 (2011)
Lat: 42 26 59.202 N
Lon: 88 09 43.426 W
Local Accuracy: 1-cm
NSRS Accuracy:
Survey/Computation Method: OPUS-DB
Date Observed:

- Vertical -
Datum: NAVD88 ( )
Elevation Ht: 231.421 UOM:M
Ellip Ht:
Local Accuracy: 2-cm
NSRS Accuracy:
Geoid Model: Geoid18
Survey/Computation Method: Geodetic Levels
Date Observed:

- Tidal/Hydraulic Gage Relationships -

Owner:	Gage ID:	- Elevation -	- Datum -	Epoch:

Local Coordinates: N 2,108,804.42 E 1,070,259.49 (usft) STATE PLANE IL E 1201

Description/Comments: STATION IS LOCATED 3.2 MI NORTH OF LINDENHURST, 2.4 MI NORTHWEST OLD MILL CREEK IN SECTION 24, T46N, R10E. TO REACH FROM THE JUNCTION OF US RT 45 AND IL RT 173 PROCEED SOUTH ON US RT 45 FOR 0.70 MI TO THE STATION LOCATED 56.3 FT WEST OF THE CENTERLINE OF US RT 45. STATION IS LOCATED 178.8 FT NORTHWEST OF POWERPOLE (PP), 97 FT WEST OF PP, 56.8 FT NORTH OF PP, 119 FT NORTH OF CENTERLINE OF AGGREGATE DRIVEWAY ADDRESS 911, 3 FT EAST OF BARBED WIRE FENCE, AND 2 FT EAST OF ORANGE FIBERGLASS WITNESS POST.

Zn1: N1: USFT E1: USFT UTM Zn1: N1: USFT E1: USFT
Zn2: N2: USFT E2: USFT UTM Zn2: N2: USFT E2: USFT

- Horizon/Setup View -



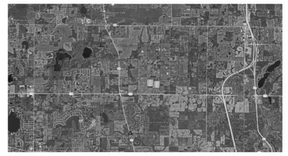
- Close-Up View-



Required Fields In Red | Reset Form | Submit | System Fields in Green | U-SMART ver 5.9 March 2020

USACE Survey Monument Archival & Retrieval Tool Datasheet FIUO: None Type: New

Designation: LAK45 1A
Project: Raven Glen Forest Preserve
Stamping: LAK45-1A
PID NGS: AI2896 ○ PPCP ○ LPCP
COE:
State: Illinois
County: Lake
District: Chicago
Installations
Nearest Town: Antioch
USGS Quad: Antioch (2018)
T.R.S.:
Nearest Hwy/Mi: Hwy 45
Date Recovered:
By:
Condition/Stability: Good B
Setting/Monument Type: Flange Encased Rod
Owner: ILDT
Boundary Monument: ○ Yes ◉ No
GPS Suitable: ◉ Yes ○ No
Obstructions: ☒ N ☐ E ☐ S ☐ W
Magnetic: ◉ Yes ○ No
Access:



- Horizontal -
Datum: NAD83 (2011)
Lat: 42 26 59.201 N
Lon: 88 09 43.426 W
Local Accuracy: 1-cm
NSRS Accuracy:
Survey/Computation Method: OPUS-DB
Date Observed:

- Vertical -
Datum: NAVD88 ( )
Elevation Ht: 231.394 UOM:M
Ellip Ht:
Local Accuracy: 1-cm
NSRS Accuracy:
Geoid Model: Geoid18
Survey/Computation Method: Geodetic Levels
Date Observed:

- Tidal/Hydraulic Gage Relationships -

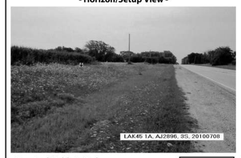
Owner:	Gage ID:	- Elevation -	- Datum -	Epoch:

Local Coordinates: N 2,106,661.43 E 326,428.605 (M) STATE PLANE IL 1201

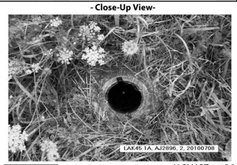
Description/Comments: STATION IS LOCATED 2.8 MI NORTH OF LINDENHURST, 1.9 MI NORTHWEST OLD MILL CREEK IN SECTION 24, T46N, R10E. TO REACH FROM THE JUNCTION OF US RT 45 AND IL RT 173 PROCEED SOUTH ON US RT 45 FOR 1.10 MI TO THE STATION LOCATED 53.5 FT EAST OF THE CENTERLINE OF US RT 45. STATION IS LOCATED 0.1 MI NORTH OF MILLER RD, 369.1 FT SOUTHEAST OF END OF GUARDRAIL, 123.9 FT NORTH OF POWERPOLE(PP), 119.4 FT SOUTH OF PP, 111.7 FT EAST OF PP, AND 2 FT WEST OF ORANGE FIBERGLASS WITNESS POST.

Zn1: N1: USFT E1: USFT UTM Zn1: N1: USFT E1: USFT
Zn2: N2: USFT E2: USFT UTM Zn2: N2: USFT E2: USFT

- Horizon/Setup View -



- Close-Up View-



Required Fields In Red | Reset Form | Submit | System Fields in Green | U-SMART ver 5.9 March 2020

USACE Survey Monument Archival & Retrieval Tool Datasheet FIUO: None Type: New

Designation: ML013
Project: Raven Glen Forest Preserve
Stamping: ML013 2010
PID NGS: DM4222 ○ PPCP ○ LPCP
COE:
State: Illinois
County: Lake
District: Chicago
Installations
Nearest Town: Antioch
USGS Quad: Antioch (2018)
T.R.S.:
Nearest Hwy/Mi: HWY 45
Date Recovered:
By:
Condition/Stability: Monumented B
Setting/Monument Type: Flange Encased Rod
Owner: UIL
Boundary Monument: ○ Yes ◉ No
GPS Suitable: ◉ Yes ○ No
Obstructions: ☒ N ☐ E ☐ S ☐ W
Magnetic: ○ Yes ◉ No
Access:



- Horizontal -
Datum: NAD83 (1986)
Lat: 42 27 59.1 N
Lon: 88 02 17.6 W
Local Accuracy: 10-m+
NSRS Accuracy:
Survey/Computation Method: Hand-Held GPS
Date Observed:

- Vertical -
Datum: NAVD88 ( )
Elevation Ht: 242.267 UOM:M
Ellip Ht:
Local Accuracy: 10-m+
NSRS Accuracy:
Geoid Model: Geoid18
Survey/Computation Method: Geodetic Levels
Date Observed:

- Tidal/Hydraulic Gage Relationships -

Owner:	Gage ID:	- Elevation -	- Datum -	Epoch:

Local Coordinates: N 643,952 E 324,270 (M) STATE PLANE IL 1201

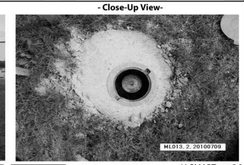
Description/Comments: THE STATION IS LOCATED ABOUT 8.4 MI (13.5 KM) NORTH OF GRAYSLAKE, 6.4 MI (10.3 KM) WEST-NORTHWEST OF WADSWORTH AND 3.0 MI (4.8 KM)EAST-SOUTHEAST OF ANTIOCH. OWNERSHIP - ROAD RIGHT-OF-WAY. TO REACH FROM THE INTERSECTION OF I-94 AND IL ROUTE 173, PROCEED WALONG IL ROUTE 173 FOR 3.6 MI (5.8 KM) TO THE INTERSECTION OF SAYAGE ROAD AND THE STATION ON THE RIGHT IN THE NORTHWEST QUADRANT, IT IS 61.1 FT (18.6 M) NORTH OF THE CENTERLINE OF IL ROUTE 173, 181.7 FT (55.4 M) WEST OF THE CENTERLINE OF SAYAGE ROAD, 11 FT (3.4 M) NORTHWEST OF A FIRE HYDRANT, 30.7 FT (9.4 M) WEST OF A CONCRETE PIPE CULVERT AND 1.3 FT (0.4 M) SOUTH OF AN ORANGE CARSONITE WITNESS POST.

Zn1: N1: USFT E1: USFT UTM Zn1: N1: USFT E1: USFT
Zn2: N2: USFT E2: USFT UTM Zn2: N2: USFT E2: USFT

- Horizon/Setup View -



- Close-Up View-



Required Fields In Red | Reset Form | Submit | System Fields in Green | U-SMART ver 5.9 March 2020

A1 SURVEY CONTROL INFORMATION
SCALE: 1"=800'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: R. MUHAMMAD
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-101.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

SURVEY CONTROL INFORMATION

SHEET ID
V-101

CERTIFIED FINAL DOCUMENTS - RTA



A1 EXISTING CONDITIONS PLAN SHEET 1

SCALE: 1"=200'

GENERAL SHEET NOTES

1. SURVEY DATA IS A COMBINATION OF USGS LIDAR DATA FROM 2017, AND USACE SURVEY CONDUCTED ON AUGUST AND NOVEMBER 2024.

WORKING LIMIT POINTS					
POINT NO.	COORDINATES		POINT NO.	COORDINATES	
	NORTHING	EASTING		NORTHING	EASTING
WL01	2106044.954	1067964.418	WL38	2108069.217	1064726.277
WL02	2107336.510	1067970.392	WL39	2107991.775	1064688.190
WL03	2107337.303	1067173.680	WL40	2107904.645	1064661.632
WL04	2108668.674	1067179.047	WL41	2107932.092	1064534.562
WL05	2108668.886	1067121.825	WL42	2107861.813	1064429.297
WL06	2108691.784	1067115.692	WL43	2107852.142	1064306.697
WL07	2108733.604	1067084.196	WL44	2108632.299	1064302.363
WL08	2108793.074	1067033.605	WL45	2108631.850	1064465.663
WL09	2108712.694	1067099.944	WL46	2109251.078	1064467.364
WL10	2108759.747	1067059.359	WL47	2109251.507	1064310.925
WL11	2108834.473	1067022.919	WL48	2109346.354	1064226.226
WL12	2108871.413	1067008.905	WL49	2109884.741	1064227.890
WL13	2108922.567	1066995.858	WL50	2109884.262	1064051.581
WL14	2108937.134	1066983.215	WL51	2109983.659	1064051.888
WL15	2108966.266	1066968.731	WL52	2109991.067	1066650.433
WL16	2108990.982	1066953.320	WL53	2109661.069	1066649.102
WL17	2109012.982	1066931.553	WL54	2109662.602	1067216.721
WL18	2109045.407	1066911.213	WL55	2110830.562	1067221.429
WL19	2109068.397	1066910.834	WL56	2110830.588	1067324.749
WL20	2109108.800	1066900.364	WL57	2110980.588	1067325.948
WL21	2109146.231	1066902.346	WL58	2110980.756	1067990.571
WL22	2109195.006	1066901.339	WL59	2111310.746	1067993.208
WL23	2109236.769	1066888.646	WL60	2111302.985	1069741.206
WL24	2109242.005	1066886.651	WL61	2110925.623	1069799.685
WL25	2109245.051	1066074.330	WL62	2110645.894	1069843.034
WL26	2108672.811	1066074.045	WL63	2110419.524	1069878.115
WL27	2108675.172	1065438.139	WL64	2110109.445	1069927.129
WL28	2108647.848	1065451.439	WL65	2109788.818	1069990.125
WL29	2108490.025	1065341.938	WL66	2109530.231	1070054.817
WL30	2108514.427	1065296.687	WL67	2109251.794	1070130.869
WL31	2108529.828	1065234.547	WL68	2108973.357	1070206.920
WL32	2108527.837	1065172.548	WL69	2108651.455	1070294.844
WL33	2108508.501	1065111.522	WL70	2108040.003	1070461.855
WL34	2108479.593	1065065.832	WL71	2107428.552	1070628.865
WL35	2108448.647	1065034.429	WL72	2106961.664	1070756.390
WL36	2108295.053	1064905.919	WL73	2106314.156	1070933.248
WL37	2108141.459	1064777.408	WL74	2106045.899	1071005.125

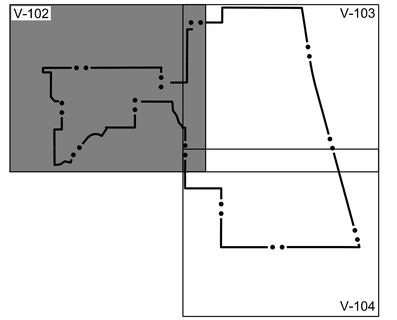
LEGEND

EXISTING MAJOR CONTOURS EVERY 5' ——————

EXISTING MINOR CONTOURS EVERY 1' - - - - - - - - - - - -

ELEVATION XXX.0'

EXISTING CONDITIONS KEY MAP



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: A. WILLIAMS
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-102.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST, SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING CONDITIONS PLAN 1

SHEET ID

V-102

CERTIFIED FINAL DOCUMENTS - RTA



A1 EXISTING CONDITIONS PLAN SHEET 2

SCALE: 1"=200'

NORTH

0 200' 400'

GENERAL SHEET NOTES

1. SURVEY DATA IS A COMBINATION OF USGS LIDAR DATA FROM 2017, AND USACE SURVEY CONDUCTED ON AUGUST AND NOVEMBER 2024.

WORKING LIMIT POINTS					
POINT NO.	COORDINATES		POINT NO.	COORDINATES	
	NORTHING	EASTING		NORTHING	EASTING
WL01	2106044.954	1067964.418	WL38	2108069.217	1064726.277
WL02	2107336.510	1067970.392	WL39	2107991.775	1064688.190
WL03	2107337.303	1067173.680	WL40	2107904.645	1064661.632
WL04	2108668.674	1067179.047	WL41	2107932.092	1064534.562
WL05	2108668.886	1067121.825	WL42	2107861.813	1064429.297
WL06	2108691.784	1067115.692	WL43	2107852.142	1064306.697
WL07	2108733.604	1067084.196	WL44	2108632.299	1064302.363
WL08	2108793.074	1067033.605	WL45	2108631.850	1064465.663
WL09	2108712.694	1067099.944	WL46	2109251.078	1064467.364
WL10	2108759.747	1067059.359	WL47	2109251.507	1064310.925
WL11	2108834.473	1067022.919	WL48	2109346.354	1064226.226
WL12	2108871.413	1067008.905	WL49	2109884.741	1064227.890
WL13	2108922.567	1066995.858	WL50	2109884.262	1064051.581
WL14	2108937.134	1066983.215	WL51	2109983.659	1064051.888
WL15	2108966.266	1066968.731	WL52	2109991.067	1066650.433
WL16	2108990.982	1066953.320	WL53	2109661.069	1066649.102
WL17	2109012.982	1066931.553	WL54	2109662.602	1067216.721
WL18	2109045.407	1066911.213	WL55	2110830.562	1067221.429
WL19	2109068.397	1066910.834	WL56	2110830.588	1067324.749
WL20	2109108.800	1066900.364	WL57	2110980.588	1067325.948
WL21	2109146.231	1066902.346	WL58	2110980.756	1067990.571
WL22	2109195.006	1066901.339	WL59	2111310.746	1067993.208
WL23	2109236.769	1066888.646	WL60	2111302.985	1069741.206
WL24	2109242.005	1066886.651	WL61	2110925.623	1069799.685
WL25	2109245.051	1066074.330	WL62	2110645.894	1069843.034
WL26	2108672.811	1066074.045	WL63	2110419.524	1069878.115
WL27	2108675.172	1065438.139	WL64	2110109.445	1069927.129
WL28	2108647.848	1065451.439	WL65	2109788.818	1069990.125
WL29	2108490.025	1065341.938	WL66	2109530.231	1070054.817
WL30	2108514.427	1065296.687	WL67	2109251.794	1070130.869
WL31	2108529.828	1065234.547	WL68	2108973.357	1070206.920
WL32	2108527.837	1065172.548	WL69	2108651.455	1070294.844
WL33	2108508.501	1065111.522	WL70	2108040.003	1070461.855
WL34	2108479.593	1065065.832	WL71	2107428.552	1070628.865
WL35	2108448.647	1065034.429	WL72	2106961.664	1070756.390
WL36	2108295.053	1064905.919	WL73	2106314.156	1070933.248
WL37	2108141.459	1064777.408	WL74	2106045.899	1071005.125

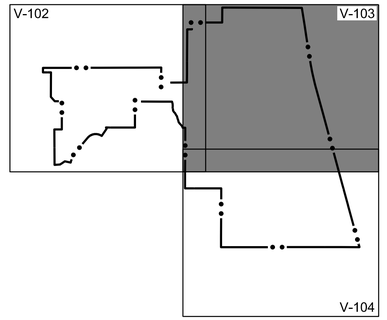
LEGEND

EXISTING MAJOR CONTOURS EVERY 5' ——————

EXISTING MINOR CONTOURS EVERY 1' - - - - - - - -

ELEVATION XXX.0'

EXISTING CONDITIONS KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: A. WILLIAMS
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
DATE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-103.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

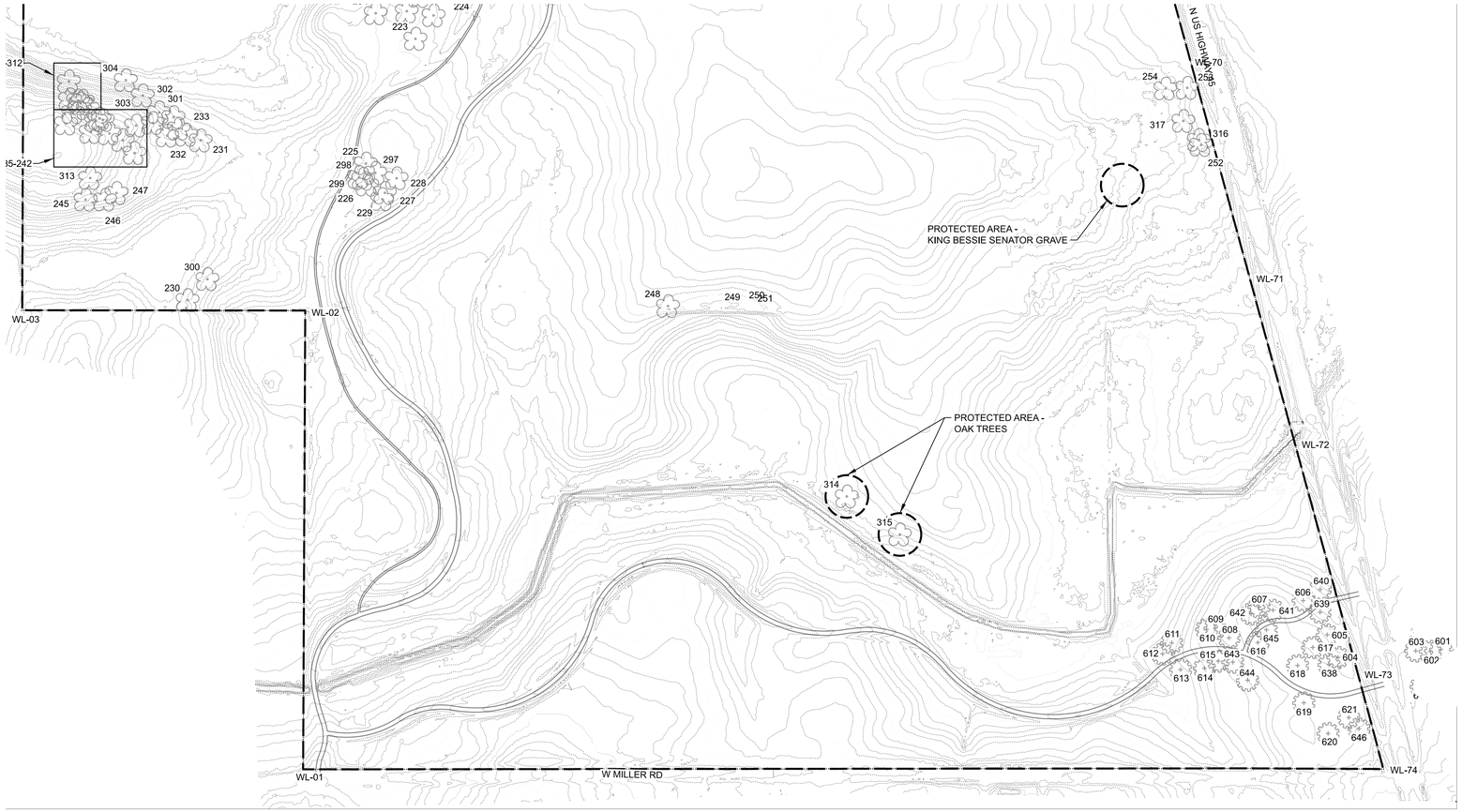
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) I - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING CONDITIONS PLAN 2

SHEET ID

V-103

CERTIFIED FINAL DOCUMENTS - RTA



GENERAL SHEET NOTES

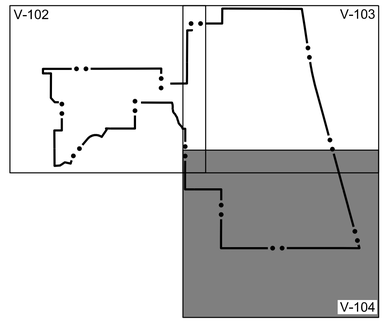
1. SURVEY DATA IS A COMBINATION OF USGS LIDAR DATA FROM 2017, AND USACE SURVEY CONDUCTED ON AUGUST AND NOVEMBER 2024.

WORKING LIMIT POINTS					
POINT NO.	COORDINATES		POINT NO.	COORDINATES	
	NORTHING	EASTING		NORTHING	EASTING
WL01	2106044.954	1067964.418	WL38	2108069.217	1064726.277
WL02	2107336.510	1067970.392	WL39	2107991.775	1064688.190
WL03	2107337.303	1067173.680	WL40	2107904.645	1064661.632
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WL35	2108448.647	1065034.429	WL72	2106961.664	1070756.390
WL36	2108295.053	1064905.919	WL73	2106314.156	1070933.248
WL37	2108141.459	1064777.408	WL74	2106045.899	1071005.125

LEGEND

EXISTING MAJOR CONTOURS EVERY 5'
EXISTING MINOR CONTOURS EVERY 1'
ELEVATION XXX.0'

EXISTING CONDITIONS KEY MAP



NORTH

NORTH

0 200' 400'

A1 EXISTING CONDITIONS PLAN SHEET 3
SCALE: 1"=200'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: A. WILLIAMS
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_V-104.dgn

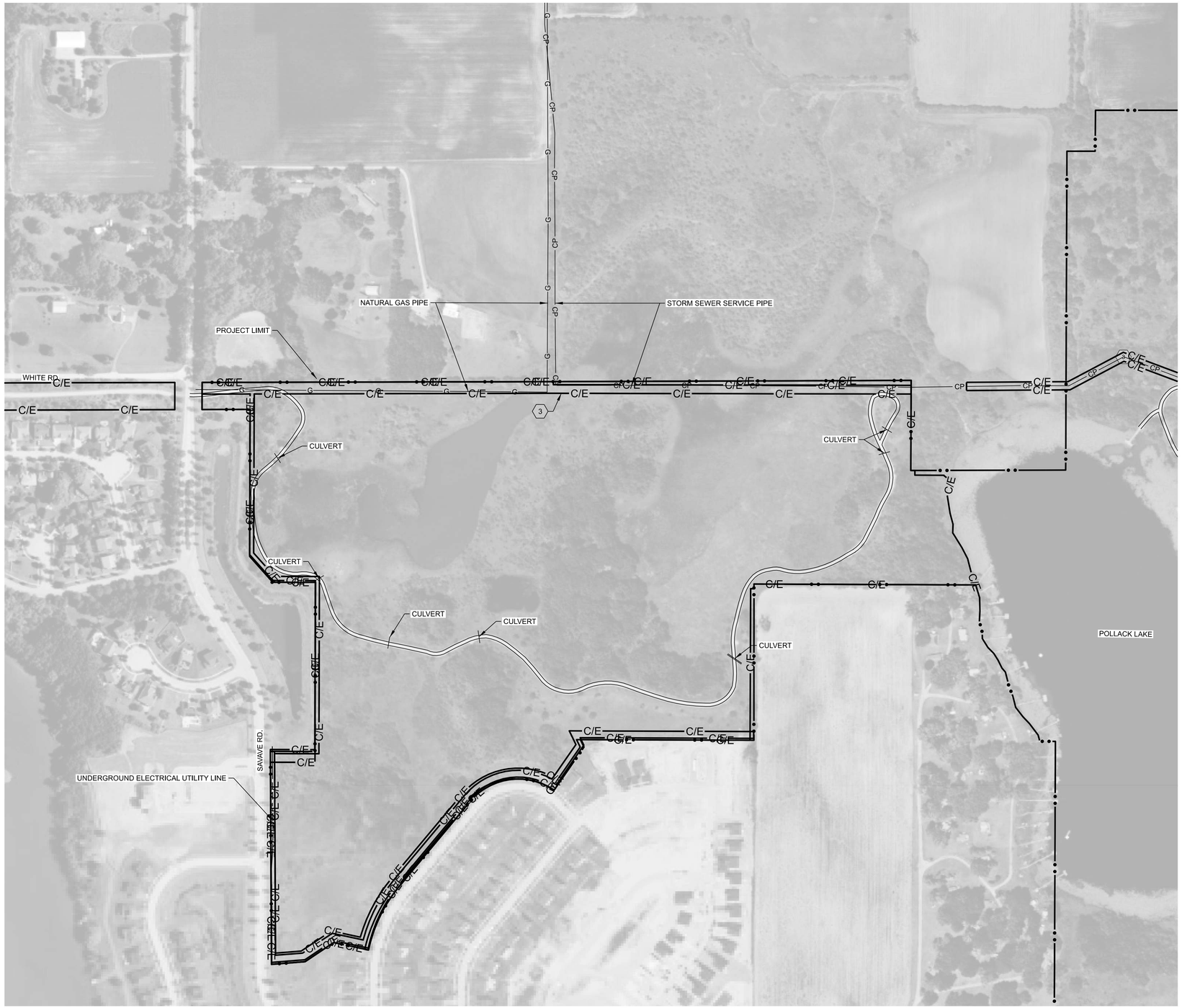
U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING CONDITIONS PLAN 3

SHEET ID
V-104

CERTIFIED FINAL DOCUMENTS - RTA



A1 EXISTING COMBINED UTILITIES PLAN 1

SCALE: 1"=200'

GENERAL UTILITY NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITIES AND FIELD VERIFYING ALL EXISTING UTILITIES. THE CONTRACTING OFFICER SHALL BE NOTIFIED OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO INSTALLATION.
2. LOCATIONS OF EXISTING UTILITIES PROVIDED FROM BASE MAPS AND VISIBLE FEATURES; ACTUAL LOCATION SHALL BE VERIFIED BY THE CONTRACTOR.
3. SOME UTILITES WERE LOCATED DURING USACE'S SITE SURVEY ON AUGUST 2024. ALL UTILITIES IN EXCAVATION AREAS WILL NEED TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. ANY DISCREPENCIES SHALL BE BROUGHT UP TO THE COR PRIOR TO CONSTRUCTION.
4. EXISTING LIQUEFIED PETROLEUM LINE IS A HIGH PRESSURE (800 LBS+) STEEL 16 INCH DIAMETER PIPE AND IS OWNED AND MANAGED BY WEST SHORE PIPE LINE COMPANY. AREA POC IS:

   BILL O' MALLEY
   847-878-3428
   WOMALLEY@BUCKEYE.COM

   FOR EMERGENCIES REACH OUT TO BUCKEYE PARTNERS HOTLINE (EASEMENT MANAGER) : 1-888-625-7310
5. ANY EXCAVATION NEAR LIQUEFIED PETROLEUM LINE EASEMENT MUST BE COORDINATED WITH COR AND WEST SHORE PIPE LINE COMPANY PRIOR TO THE START OF EXCAVATION.
6. EXCAVATION NEAR LIQUEFIED PETROLEUM LINE EASEMENT MUST BE COMPLETED DURING THE SUPERVISION OF COR AND WEST SHORE PIPE LINE COMPANY REPRESENTATIVE.

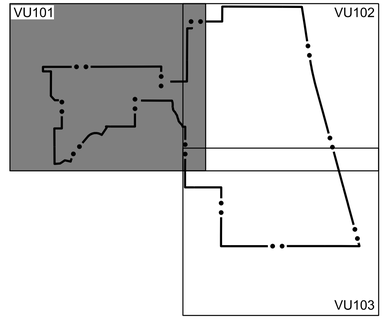
SHEET KEYNOTES

1. WEST SHORE PIPE LINE COMPANY
2. GRUBB DRAINAGE DISTRICT
3. CITY OF ANTIOCH

LEGEND

- WORKING LIMITS
- EASEMENT
- EXISTING STORM SEWER
- EXISTING NATURAL GAS
- EXISTING LIQUIFIED PETROLEUM
- EXISTING OVERHEAD ELECTRICAL

EXISTING UTILITIES KEY MAP



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD	ISSUE DATE: APRIL 2026
DRAWN BY: A. WILLIAMS	SOLICITATION NO.: W912P62-25-R-A009
CHECKED BY: R. MUHAMMAD	CONTRACT NO.: TBD
SUBMITTED BY: A. KARR	PROJECT ID: 444304-66C987
A/E: ANSLD	FILE NAME: 444304-66C987_VU101.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING COMBINED UTILITIES PLAN 1

SHEET ID

VU101

CERTIFIED FINAL DOCUMENTS - RTA



A1 EXISTING COMBINED UTILITIES PLAN 2

SCALE: 1"=200'

GENERAL UTILITY NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITIES AND FIELD VERIFYING ALL EXISTING UTILITIES. THE CONTRACTING OFFICER SHALL BE NOTIFIED OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO INSTALLATION.
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   BILL O' MALLEY
   847-878-3428
   WOMALLEY@BUCKEYE.COM

   FOR EMERGENCIES REACH OUT TO BUCKEYE PARTNERS HOTLINE (EASEMENT MANAGER) : 1-888-625-7310
5. ANY EXCAVATION NEAR LIQUEFIED PETROLEUM LINE EASEMENT MUST BE COORDINATED WITH COR AND WEST SHORE PIPE LINE COMPANY PRIOR TO THE START OF EXCAVATION.
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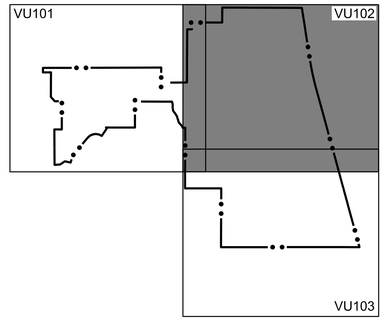
SHEET KEYNOTES

1. WEST SHORE PIPE LINE COMPANY
2. GRUBB DRAINAGE DISTRICT
3. CITY OF ANTIOCH

LEGEND

- WORKING LIMITS
- EASEMENT
- EXISTING STORM SEWER
- EXISTING NATURAL GAS
- EXISTING LIQUIFIED PETROLEUM
- EXISTING OVERHEAD ELECTRICAL

EXISTING UTILITIES KEY MAP



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD	ISSUE DATE: APRIL 2026		
DRAWN BY: A. WILLIAMS	SOLICITATION NO.: W912P62-25-R-A009		
CHECKED BY: R. MUHAMMAD	CONTRACT NO.: TBD		
SUBMITTED BY: A. KARR	PROJECT ID: 444304-66C987		
SIZE: ANSI D	FILE NAME: 444304-66C987_VU102.dgn		

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING COMBINED UTILITIES PLAN 2

SHEET ID

VU102

CERTIFIED FINAL DOCUMENTS - RTA



A1 EXISTING COMBINED UTILITIES PLAN 3

SCALE: 1"=200'

NORTH

0 200' 400'

GENERAL UTILITY NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITIES AND FIELD VERIFYING ALL EXISTING UTILITIES. THE CONTRACTING OFFICER SHALL BE NOTIFIED OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO INSTALLATION.
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   WOMALLEY@BUCKEYE.COM

   FOR EMERGENCIES REACH OUT TO BUCKEYE PARTNERS HOTLINE (EASEMENT MANAGER) : 1-888-625-7310
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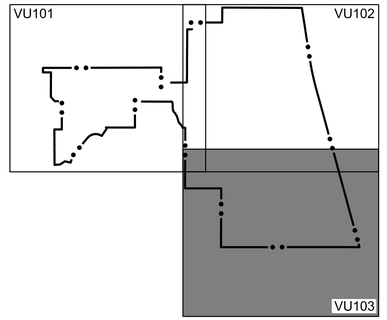
SHEET KEYNOTES

1. WEST SHORE PIPE LINE COMPANY
2. GRUBB DRAINAGE DISTRICT
3. CITY OF ANTIOCH

LEGEND

- WORKING LIMITS
- EASEMENT (C/E)
- EXISTING STORM SEWER (GP)
- EXISTING NATURAL GAS (G)
- EXISTING LIQUIFIED PETROLEUM (LPG)
- EXISTING OVERHEAD ELECTRICAL (E)

EXISTING UTILITIES KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD
DRAWN BY: A. WILLIAMS
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: A. KARR
SIZE: ANSI D

ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_VU103.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

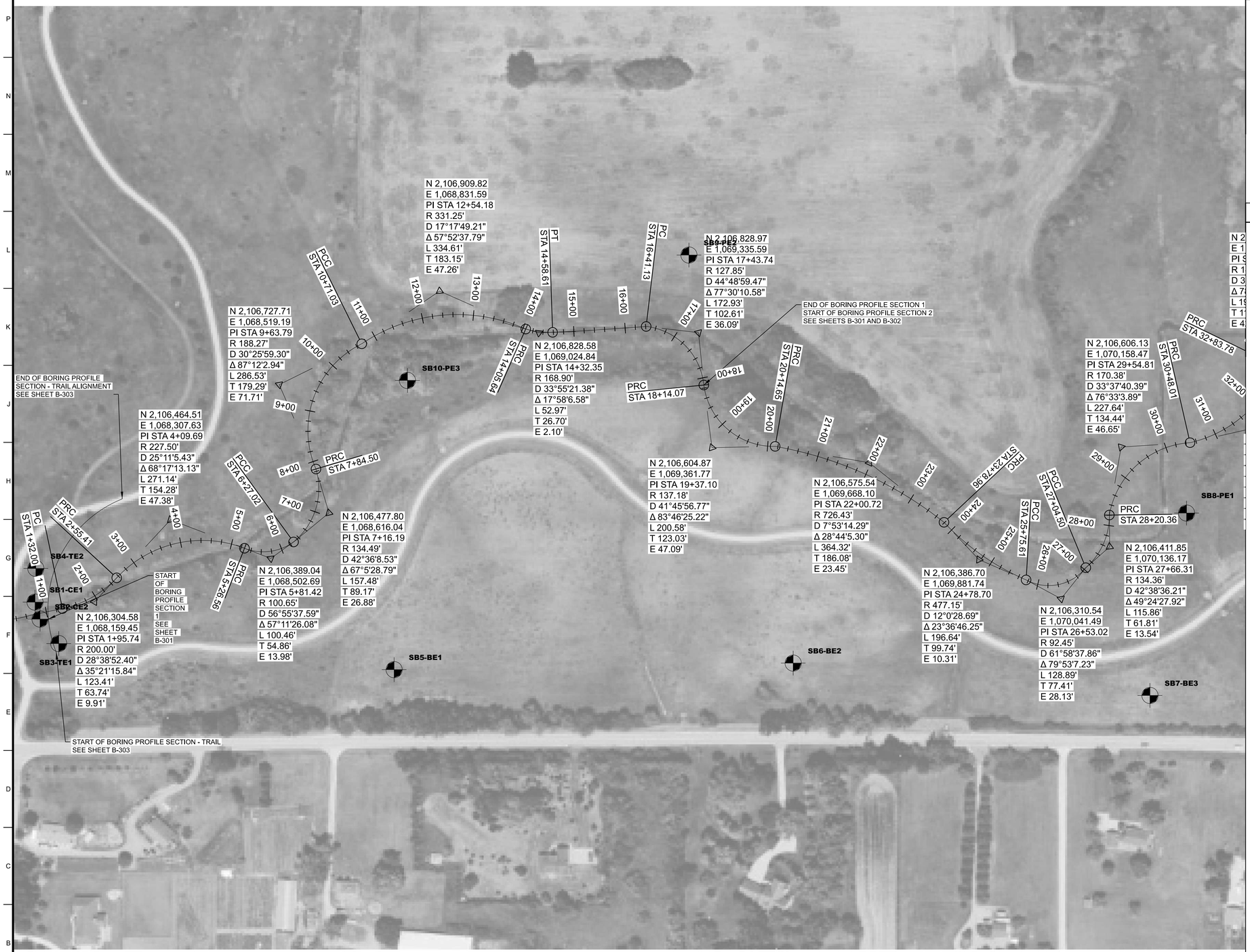
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

EXISTING COMBINED UTILITIES PLAN 3

SHEET ID

VU103

CERTIFIED FINAL DOCUMENTS - RTA



A1 GEOTECHNICAL BORING LOG PLAN OVERVIEW

SCALE: 1"=200'

GENERAL GEOTECHNICAL NOTES

1. GENERAL NOTES APPLY TO ALL BORING LOG SHEETS B-001 THROUGH B-302.
2. GENERAL: THE UNIFIED SOIL CLASSIFICATION SYSTEM IS USED TO IDENTIFY BASIC SOIL TYPE. THE LEGEND REPRESENTS ONLY THE BASIC SOILS. TO COMPLETE THE CLASSIFICATION, PERTINENT INFORMATION IS ADDED TO THE RIGHT AND LEFT OF THE BORING STAFF. NOTES PERTAINING TO A SPECIFIC BORING ARE SHOWN BELOW THE BORING STAFF.
3. MC: THE NATURAL MOISTURE CONTENT IN PERCENT OFDRY WEIGHT (W) IS SHOWN TO THE LEFT OF THE BORING STAFF.
4. N: NUMBER OF BLOWS TO DRIVE STANDARD SPLIT SPOON ONE FOOT WITH 140 LB HAMMER AND 30-INCH DROP IS SHOWN TO THE RIGHT OF THE BORING STAFF.
5. QP/QU: UNCONFINED COMPRESSIVE STRENGTH (TSF) FROM POCKET PENETROMETER AND UNCONFINED COMPRESSIVE STRENGTH TESTS ARE SHOWN TO THE RIGHT OF THE BORING STAFF.
6. INFORMATION SHOWN IS LIMITED DATA ONLY. FOR ADDITIONAL SUBSURFACE DATA BASED ON FIELD AND LAB TESTING RESULTS, PLEASE REFER TO BORING LOGS INCLUDED WITH 31 00 00 EARTHWORK SPECIFICATION.

GEOTECHNICAL LEGEND

1. LEGEND APPLIES TO ALL BORING LOG SHEETS B-301THROUGH B-302.

- Boulders and Cobbles
- CH - Fat Clay
- CL - Lean Clay
- CL-ML - Silty Clay
- Concrete
- Fill
- GC - Clayey Gravel
- GC-GM - Silty Clayey Gravel
- GM - Silty Gravel
- GP - Poorly Graded Gravel
- GP-GC - Poorly Graded Gravel with Clay
- GP-GM - Poorly Graded Gravel with Silt
- GW - Well Graded Gravel
- GW-GC - Well Graded Gravel with Clay
- GW-GM - Well Graded Gravel with Silt
- Limestone
- MH - Elastic Silt
- ML - Silt
- OH - Organic Fat Clay
- OL - Organic Lean Clay
- OL/OH - Organic Soil
- PT - Peat
- Sandstone
- SC - Clayey Sand
- SC-SM - Silty Clayey Sand
- Shale
- SM - Silty Sand
- SP - Poorly Graded Sand
- SP-SC - Poorly Graded Sand with Clay
- SP-SM - Poorly Graded Sand with Silt
- SW - Well Graded Sand
- SW-SC - Well Graded Sand with Clay
- SW-SM - Well Graded Sand with Silt
- Topsoil
- Water

BORING LOCATION (ILLINOIS EAST STATE PLANE NAD 83)			
BORING ID	NORTHING	EASTING	ELEVATION
SB10-PE3	2106740	1068771	754.4
SB1-CE1	2106308	1068046	757.4
SB2-CE2	2106275	1068056	755.4
SB3-TE1	2106228	1068092	756.5
SB4-TE2	2106374	1068047	756.1
SB5-BE1	2106177	1068745	770.2
SB6-BE2	2106189	1069522	763.9
SB7-BE3	2106126	1070217	756.1
SB8-PE1	2106482	1070288	749.2
SB9-PE2	2106984	1069319	751.5

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	C. ANICHINI SCHAAL
DRAWN BY:	R. MUHAMMAD
CHECKED BY:	L. VANDEN BERG P.E.
SUBMITTED BY:	J. SCHMIDT, P.E.
SIZE:	ANSI D
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
FILE NAME:	444304-66C9B7_B-001.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

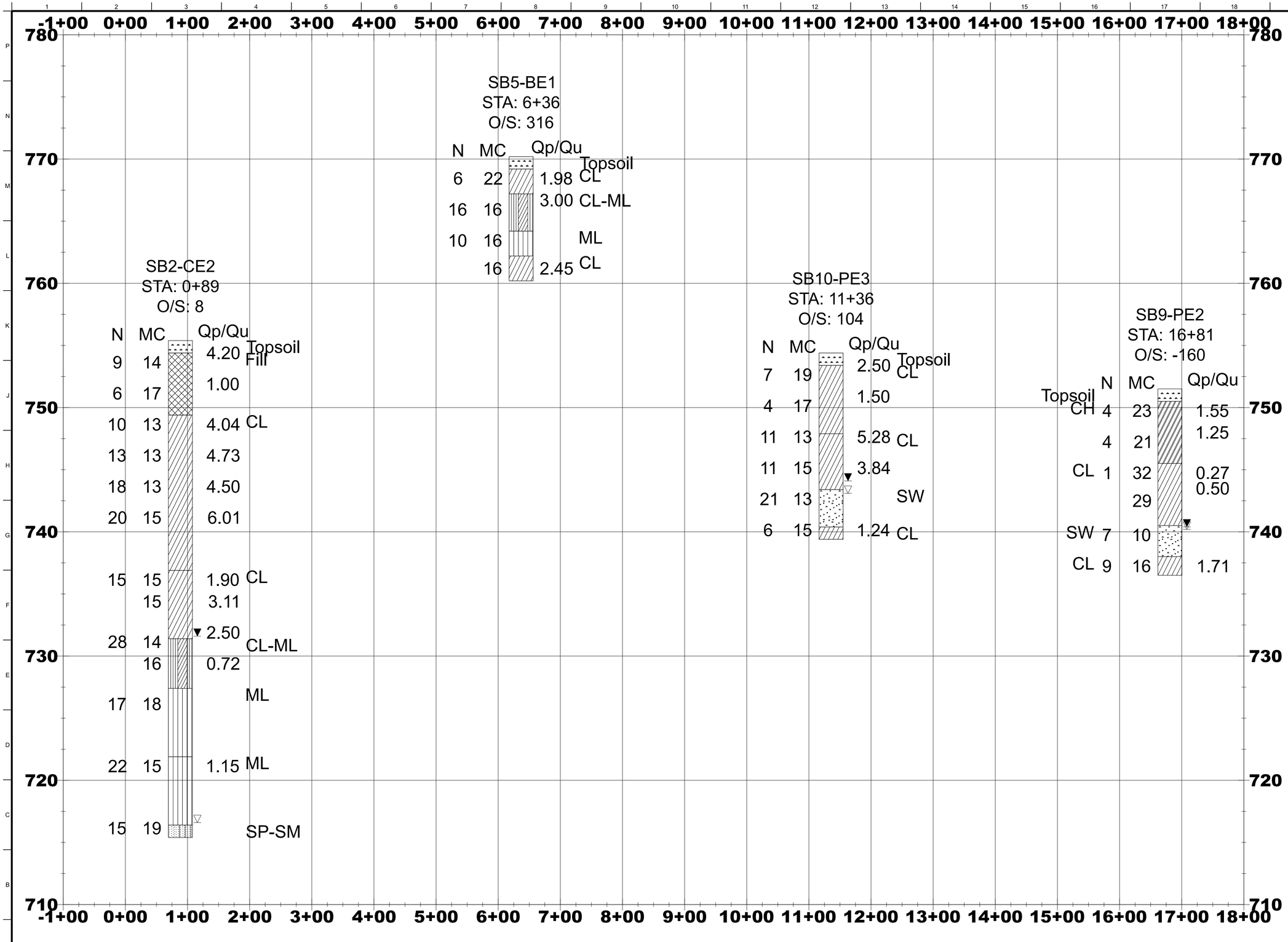
BORING LOCATION PLAN

SHEET ID

B-001

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7_B-001.dgn
PD:
11:53:03 AM 4/7/2026



A1 SOIL BORING PROFILE SECTION 1

SCALE: 1"=75', VERTICAL EXAGGERATION 20X

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: C. ANICHINI SCHAAL
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY:
SCHEMATIC FILE NAME: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7_B-301.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

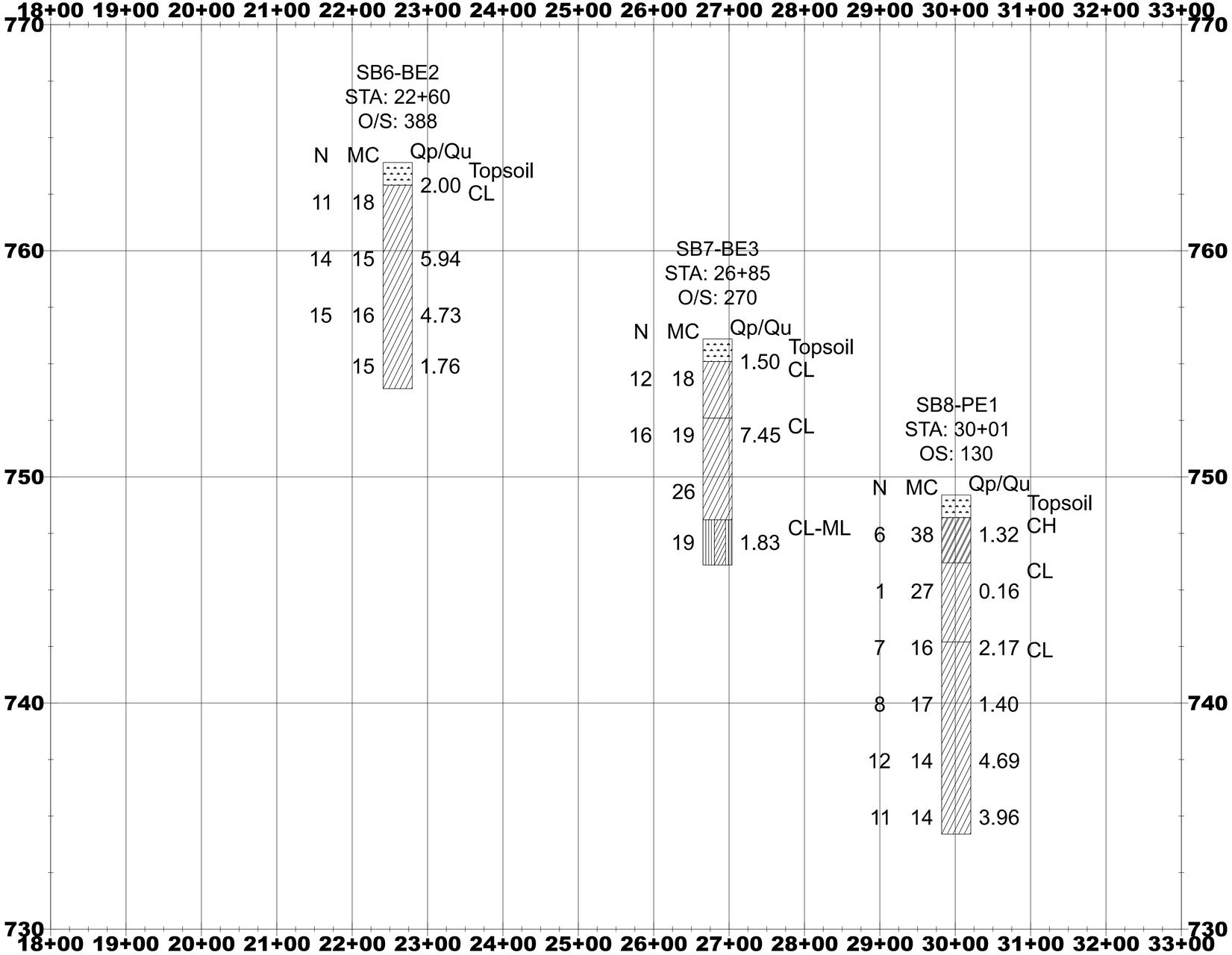
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

BORING LOCATION SECTIONS 1

SHEET ID
B-301

DS: 444304-66C9B7_B-301.dgn
PD:
11:54:30 AM 4/7/2026

CERTIFIED FINAL DOCUMENTS - RTA



A1 SOIL BORING PROFILE SECTION 2

SCALE: 1"=75', VERTICAL EXAGGERATION 20X

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: C. ANICHINI SCHAAL	ISSUE DATE: APRIL 2026
DRAWN BY: R. MUHAMMAD	SOLICITATION NO.: W912P62-25-R-A009
CHECKED BY: L. VANDEN BERG P.E.	CONTRACT NO.: TBD
SUBMITTED BY: SCHMIDT P.E.	PROJECT ID: 444304-66C9B7
SIZE: ANSI D	FILE NAME: 444304-66C9B7_B-302.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

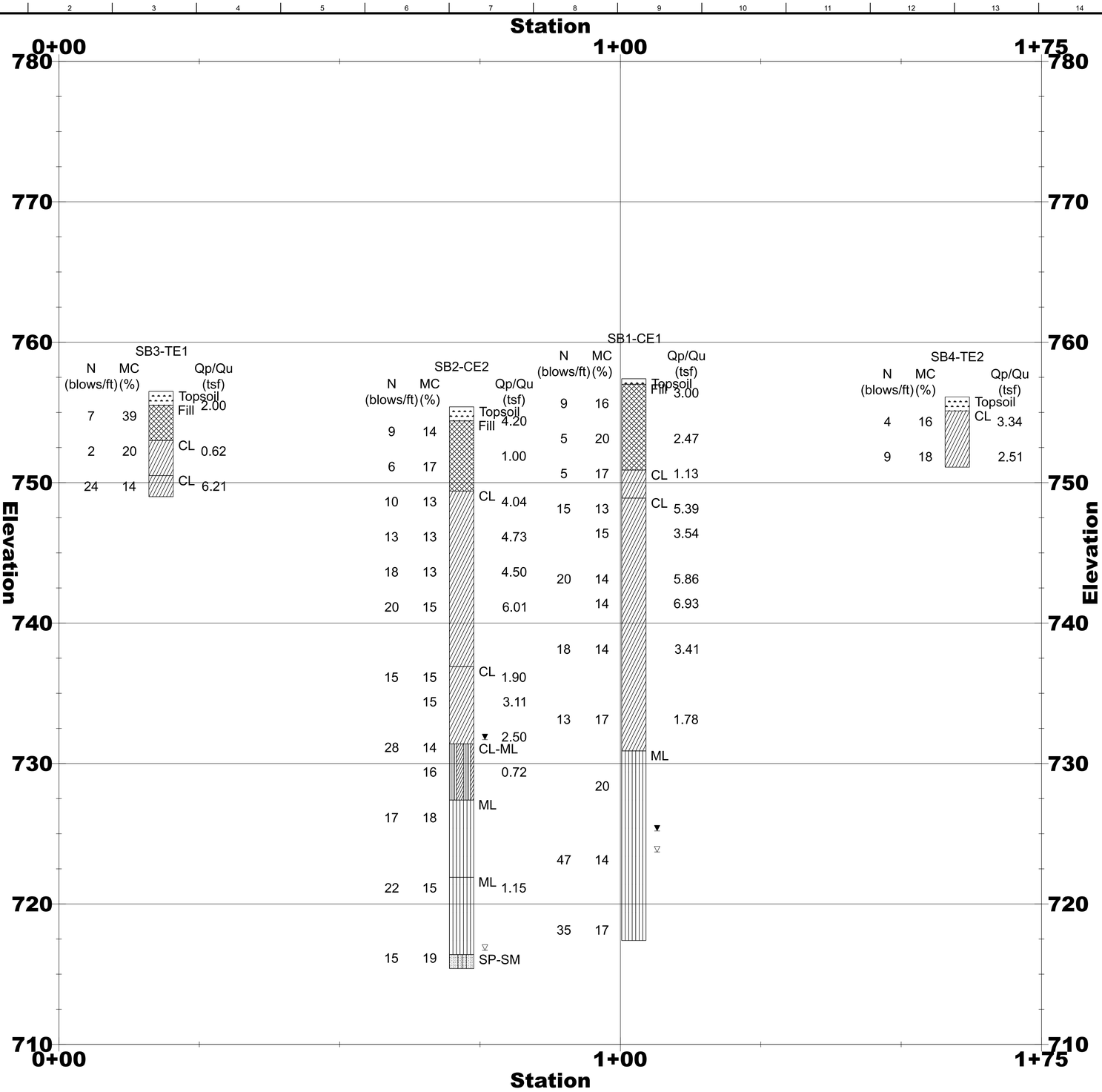
BORING LOCATION SECTIONS 2

SHEET ID

B-302

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7_B-302.dgn
PD:
11:55:12 AM 4/7/2026



A1 SOIL BORING PROFILE SECTION - TRAIL ALIGNMENT

SCALE: 1"=10'

0 10' 20'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: C. ANICHINI SCHAAL	ISSUE DATE: APRIL 2026
DRAWN BY: A. WILLIAMS	SOLICITATION NO.: W912P62-25-R-A009
CHECKED BY: L. VANDEN BERG P.E.	CONTRACT NO.: TBD
SUBMITTED BY: SCHMIDT P.E.	PROJECT ID: 444304-66C9B7
SIZE: ANSI D	FILE NAME: 444304-66C9B7_B-303.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

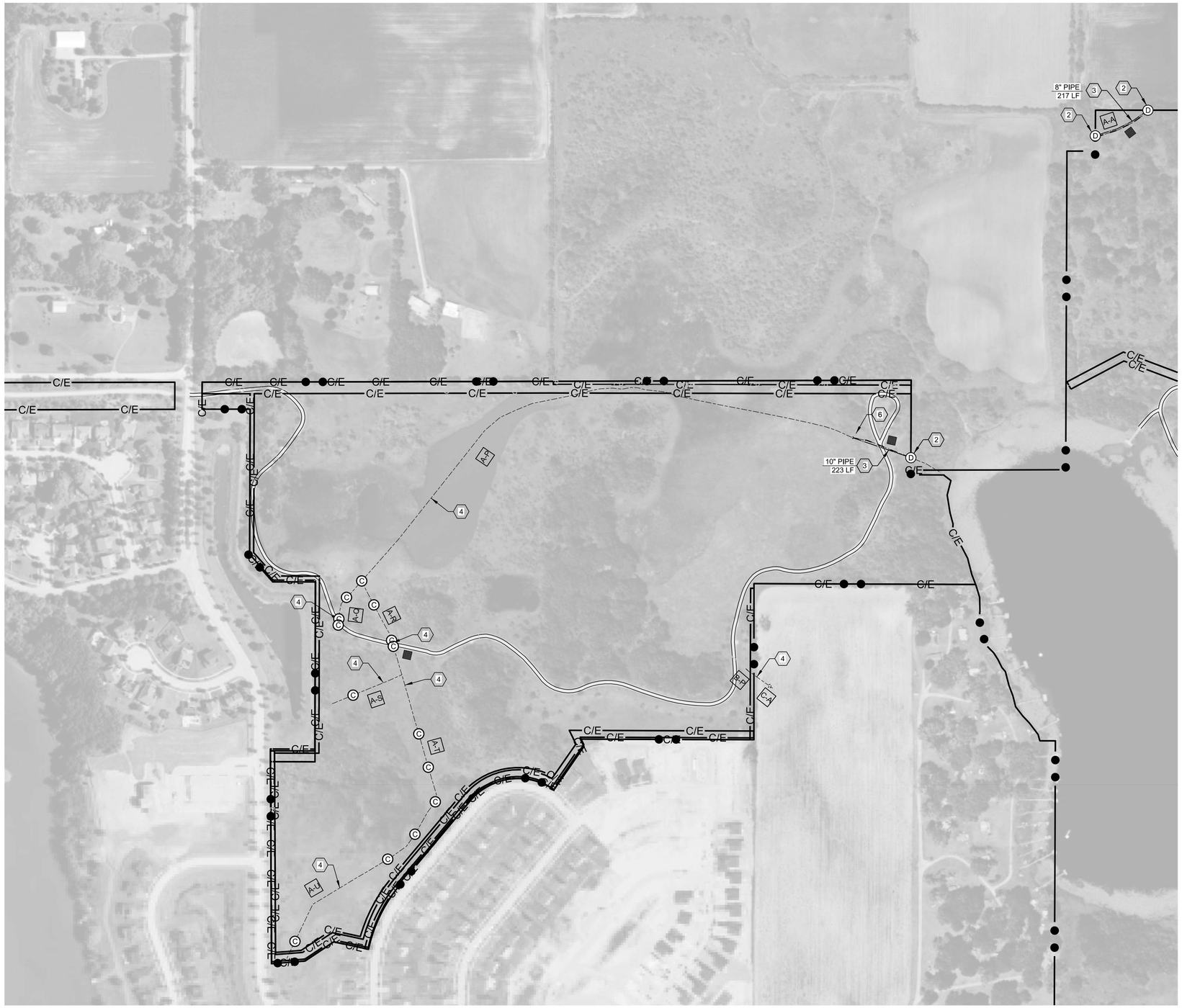
BORING LOCATION SECTIONS 3

SHEET ID

B-303

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7_B-303.dgn
PD:
11:55:51 AM 4/7/2026



A1 DISABLEMENT PLAN SHEET 1
SCALE: 1"=200'

PROJECT GENERAL NOTES

1. THE CONTRACTOR SHALL FOLLOW ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. PERMITS SHALL BE OBTAINED AS REQUIRED PRIOR TO COMMENCING WITH CONSTRUCTION.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE OF ANY SIGNIFICANT DISCREPANCIES.
3. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) USING CURRENT GEOID, U.S. SURVEY FEET.
4. HORIZONTAL DATUM AND DISTANCES ARE REFERENCED TO LOCAL STATE PLANE, U.S. SURVEY FEET.
5. OBSTRUCTIONS VISIBLE IN THE IMAGES MAY NOT BE IN THAT LOCATION AT THE TIME OF WORK, AS OBSTRUCTIONS MAY HAVE BEEN MOVED. SITE VISITS SHOULD BE MADE TO VERIFY ANY CURRENT OBSTRUCTIONS IN THE WORK AREA, AS DESCRIBED IN THE SPECIFICATIONS.
6. EXISTING DRAIN TILE DATA WAS OBTAINED FROM A SURVEY DONE BY HEY AND ASSOCIATES, INC. COMPLETED IN NOVEMBER 2013 AND A SURVEY DONE BY HUDDLESTON MCBRIDE COMPLETED IN SEPTEMBER 2014.
7. ANY EXCAVATION NEAR LIQUEFIED PETROLEUM LINE EASEMENT MUST BE COORDINATED WITH COR AND WEST SHORE PIPE LINE COMPANY PRIOR TO THE START OF EXCAVATION.
8. EXCAVATION NEAR LIQUEFIED PETROLEUM LINE EASEMENT MUST BE COMPLETED DURING THE SUPERVISION OF COR AND WEST SHORE PIPE LINE COMPANY REPRESENTATIVE.
9. LINE B-O, B-P, AND C-A ARE TO BE ABANDONED IN PLACE.

SHEET KEYNOTES

1 INSTALL ROCK CHECK DAM.

2 INSTALL OBSERVATION RISER STRUCTURE TO CONNECT SOLID PIPE TO EXISTING TILE AT PROPERTY LINE. RISER DEPTH TO BE CONFIRMED AFTER EXPOSURE OF LINE.

3 INSTALL SOLID PIPE. LENGTH AND DIAMETER PER PLAN.

4 ABANDON DRAIN TILE UNDER EXISTING TRAIL, PETROLEUM LINE, BERM OR PERMANENTLY PONDED WETLAND AREAS. SEE DETAIL H8 ON CD501.

5 VERIFY CULVERT INVERT ELEVATIONS WITH SURVEY.

6 INSTALL NEW STORMWATER INLET/METAL END SECTION STRUCTURE. SEE DETAIL G1 ON CD502.

7. REPLACE RIPRAP OUTLET PROTECTION. SEE DETAIL A12 ON CD502.

LEGEND

- DRAIN TILE
- DEMO DRAIN TILE
- (C) CRIMP (SEE DETAIL A1 ON CD-501)
- (D) PROPOSED OBSERVATION RISER STRUCTURE (SEE DETAIL J1 ON CD-501)
- SD PROPOSED SOLID PIPE (SEE DETAIL A13 ON CD-501)
- PROPOSED ROCK CHECK DAM (SEE DETAIL A1 AND D1 ON CD-502)
- CONSTRUCTION LIMITS
- C/E EASEMENTS
- TEMPORARY STAGING AREAS

Label	Material	Width (in.)	Length (ft.)	Depth (in.)
A-A	Clay	8	246	-
A-B	Clay	2.5	195	38
A-C	Clay	8	734	-
A-D	Clay	3	178	36
A-E	Clay	2.5	17	-
A-F	Clay	2	812	32
A-G	Clay	3	1107	30
A-H	Clay	3	572	25
A-I	Clay	5	496	36
A-J	Clay	3	379	32
A-K	Clay	3	542	48
A-L	Clay	2	144	50
A-M	Clay	2	242	22
A-N	Clay	4	245	42
A-O	Clay	2	292	31
A-P	Clay	10	2485	60
A-Q	Clay	5	209	-
A-R	Clay	8	119	44
A-S	Clay	4	277	21
A-T	Clay	10	957	67
A-U	Clay	6	610	67
B-A	Poly	6	358	32
B-B	Poly	6	613	29
B-C	Poly	6	1217	36
B-D	Poly	6	2359	50
B-E	Poly	6	871	37
B-F	Poly	4	638	33
B-G	Poly	4	277	44
B-H	Poly	4	234	34
B-I	Poly	5	547	45
B-J	Poly	6	761	47
B-K	Poly	4	446	44
B-L	Poly	8	402	39
B-M	Poly	4	297	35
B-N	Poly	12	521	46
B-O	Poly	5	560	-
B-P	Poly	8	27	34
C-A	Concrete	8	85	-

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CD101.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

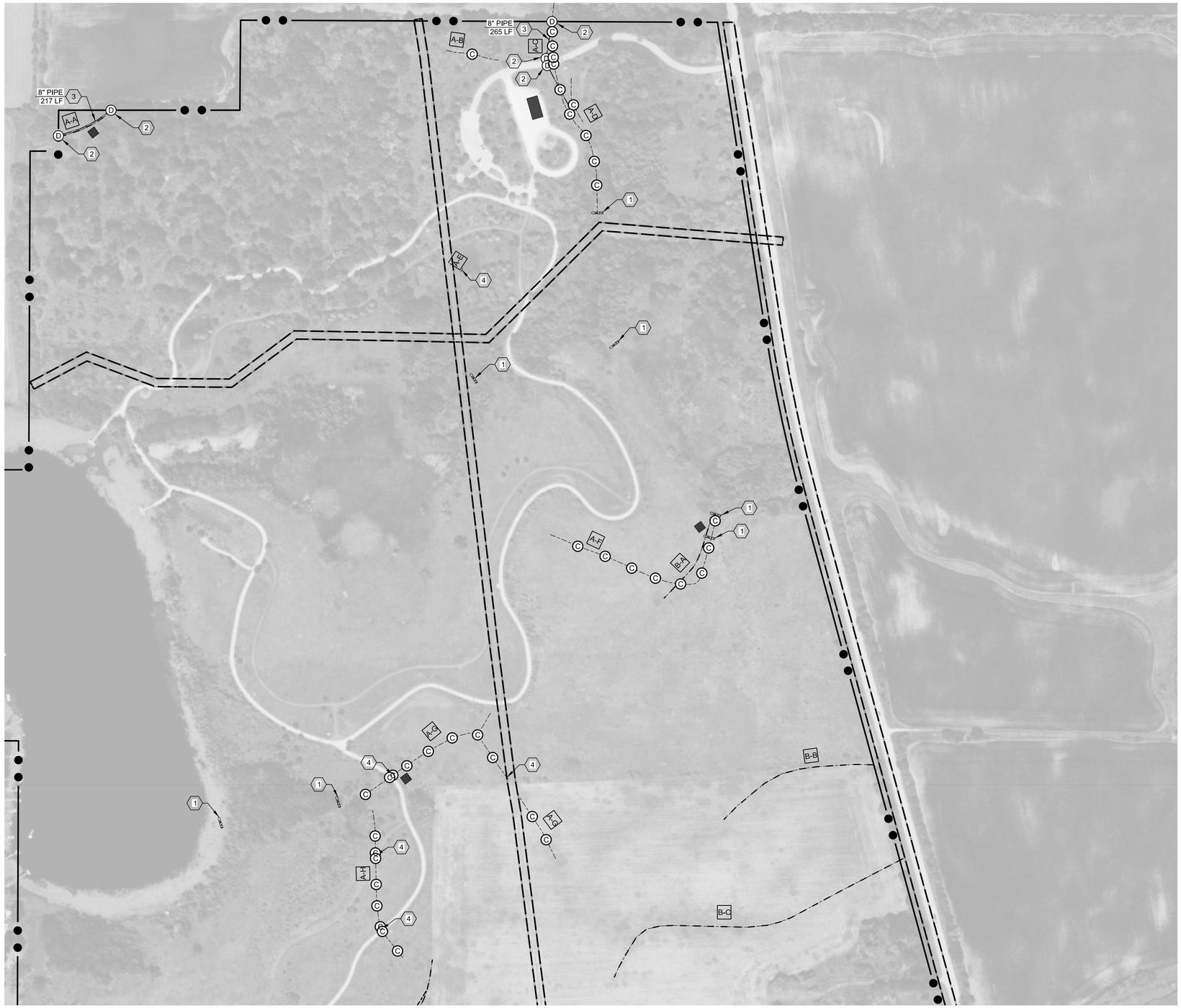
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DISABLEMENT PLAN 1

SHEET ID
CD101

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD101.dgn
PD: 11:56:37 AM 4/7/2026



A1 DISABLEMENT PLAN SHEET 2
SCALE: 1"=200'

PROJECT GENERAL NOTES

1. THE CONTRACTOR SHALL FOLLOW ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. PERMITS SHALL BE OBTAINED AS REQUIRED PRIOR TO COMMENCING WITH CONSTRUCTION.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS AND ELEVATIONS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S AUTHORIZED REPRESENTATIVE OF ANY SIGNIFICANT DISCREPANCIES.
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8. EXCAVATION NEAR LIQUEFIED PETROLEUM LINE EASEMENT MUST BE COMPLETED DURING THE SUPERVISION OF COR AND WEST SHORE PIPE LINE COMPANY REPRESENTATIVE.
9. LINE B-O, B-P, AND C-A ARE TO BE ABANDONED IN PLACE.

SHEET KEYNOTES

1 INSTALL ROCK CHECK DAM.

2 INSTALL OBSERVATION RISER STRUCTURE TO CONNECT SOLID PIPE TO EXISTING TILE AT PROPERTY LINE. RISER DEPTH TO BE CONFIRMED AFTER EXPOSURE OF LINE.

3 INSTALL SOLID PIPE. LENGTH AND DIAMETER PER PLAN.

4 ABANDON DRAIN TILE UNDER EXISTING TRAIL, PETROLEUM LINE, BERM OR PERMANENTLY PONDED WETLAND AREAS. SEE DETAIL H8 ON CD501.

5 VERIFY CULVERT INVERT ELEVATIONS WITH SURVEY.

6 INSTALL NEW STORMWATER INLET/METAL END SECTION STRUCTURE. SEE DETAIL G1 ON CD502.

7. REPLACE RIPRAP OUTLET PROTECTION. SEE DETAIL A12 ON CD502.

LEGEND

- DRAIN TILE
- DEMO DRAIN TILE
- (C) CRIMP (SEE DETAIL A1 ON CD-501)
- (D) PROPOSED OBSERVATION RISER STRUCTURE (SEE DETAIL J1 ON CD-501)
- SD PROPOSED SOLID PIPE (SEE DETAIL A13 ON CD-501)
- PROPOSED ROCK CHECK DAM (SEE DETAIL A1 AND D1 ON CD-502)
- CONSTRUCTION LIMITS
- C/E EASEMENTS
- TEMPORARY STAGING AREAS

Label	Material	Width (in.)	Length (ft.)	Depth (in.)
A-A	Clay	8	246	-
A-B	Clay	2.5	195	38
A-C	Clay	8	734	-
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B-N	Poly	12	521	46
B-O	Poly	5	560	-
B-P	Poly	8	27	34
C-A	Concrete	8	85	-

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CD102.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

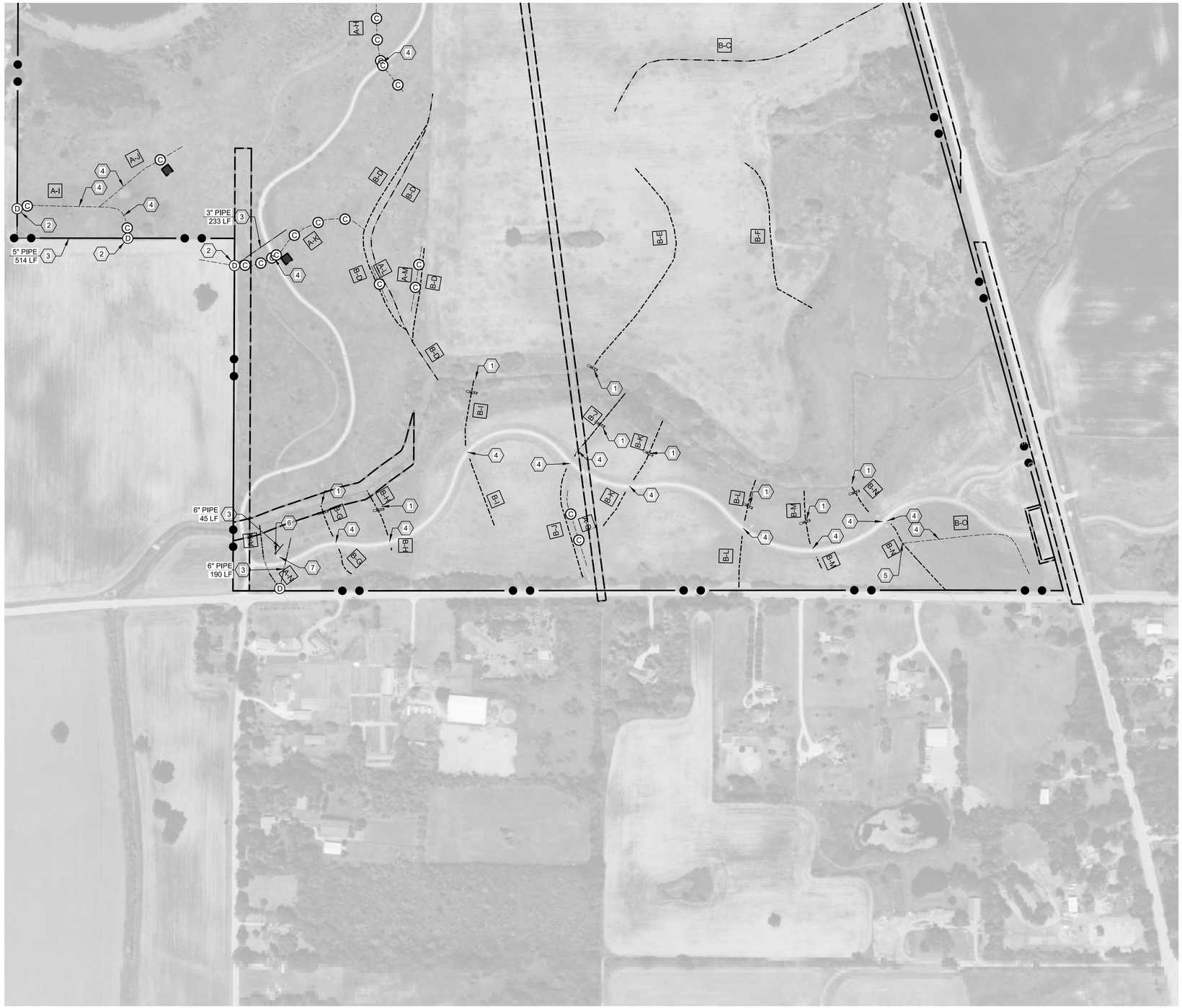
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DISABLEMENT PLAN 2

SHEET ID
CD102

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD102.dgn
PD: 11:57:51 AM 4/7/2026



A1 DISABLEMENT PLAN SHEET 3

SCALE: 1"=200'

NORTH

0 200' 400'

PROJECT GENERAL NOTES

1. THE CONTRACTOR SHALL FOLLOW ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. PERMITS SHALL BE OBTAINED AS REQUIRED PRIOR TO COMMENCING WITH CONSTRUCTION.
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SHEET KEYNOTES

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2 INSTALL OBSERVATION RISER STRUCTURE TO CONNECT SOLID PIPE TO EXISTING TILE AT PROPERTY LINE. RISER DEPTH TO BE CONFIRMED AFTER EXPOSURE OF LINE.

3 INSTALL SOLID PIPE. LENGTH AND DIAMETER PER PLAN.

4 ABANDON DRAIN TILE UNDER EXISTING TRAIL, PETROLEUM LINE, BERM OR PERMANENTLY PONDED WETLAND AREAS. SEE DETAIL H8 ON CD501.

5 VERIFY CULVERT INVERT ELEVATIONS WITH SURVEY.

6 INSTALL NEW STORMWATER INLET/METAL END SECTION STRUCTURE. SEE DETAIL G1 ON CD502.

7. REPLACE RIPRAP OUTLET PROTECTION. SEE DETAIL A12 ON CD502.

LEGEND

- DRAIN TILE
- DEMO DRAIN TILE
- (C) CRIMP (SEE DETAIL A1 ON CD-501)
- (D) PROPOSED OBSERVATION RISER STRUCTURE (SEE DETAIL J1 ON CD-501)
- SD PROPOSED SOLID PIPE (SEE DETAIL A13 ON CD-501)
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- CONSTRUCTION LIMITS
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Label	Material	Width (in.)	Length (ft.)	Depth (in.)
A-A	Clay	8	246	-
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B-O	Poly	5	560	-
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C-A	Concrete	8	85	-

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
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CONTRACT NO.: TBD
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FILE NAME: 444304-66C9B7-CD103.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I - FOREST PRESERVE ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DISABLEMENT PLAN 3

SHEET ID
CD103

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD103.dgn
PD: 11:58:47 AM 4/7/2026



NORTH

0 200' 400'

A1 DEMOLITION PLAN SHEET 1

SCALE: 1"=200'

CIVIL DEMOLITION NOTES

1. DEPICTIONS FOR TREE AND SHRUB CLEARING DESIGNATED ON DRAWINGS WITH HATCHING OR SYMBOLS ARE APPROXIMATE AND MEANT ONLY AS A GUIDE. CLEARING WILL CONSIST OF THE REMOVAL OF ALL TREES AND SHRUBS WITHIN PROJECT LIMITS, INCLUDING INVASIVE WOODY SPECIES LISTED WITHIN SPECIFICATION SECTION 31 31 19.13 CHEMICAL VEGETATION CONTROL, EXCEPT THOSE TREES AND SHRUBS SHOWN ON DRAWINGS TO REMAIN AND IN LOCATIONS IDENTIFIED BY THE COR. TREES AND SHRUBS FLAGGED WITH GREEN TAPE IN THE FIELD BY THE GOVERNMENT MUST ALSO REMAIN. CLEARING ALSO INCLUDES THE REMOVAL OF WOODY DEBRIS RESULTING FROM CLEARING ACTIVITIES IN ALL AREAS TO BE CLEARED.
2. ANY TREES SHOWN ON THE DRAWINGS TO REMAIN WHICH ARE LOCATED OUTSIDE OF TREE GRUBBING AREAS, BUT WHERE THEIR TREE ROOT ZONE (DRIPLINE) ARE WITHIN GRADING LIMITS, MUST BE IDENTIFIED BY THE CONTRACTOR AND PROTECTED FROM GRADING ACTIVITIES. ALL TREES IDENTIFIED BY THE CONTRACTOR TO BE PROTECTED FROM GRADING ACTIVITIES MUST HAVE A TEMPORARY FENCE ERECTED OUTSIDE THE PERIMETER OF EACH TREE'S ROOT ZONE (DRIPLINE) TO ENSURE TREES ARE PROTECTED DURING GRADING ACTIVITIES.
3. THE CRITICAL ROOT ZONE (CRZ) OF ALL OAKS (QUERCUS SPP.) > 41" DBH AND ALL HICKORY (CARYA SPP.) > 25" DBH LOCATED OUTSIDE OF AREAS DESIGNATED ON THE DRAWINGS AS EXISITING WOODLAND MUST BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY ERECTING A TEMPORARY FENCE OUTSIDE THE PERIMETER OF EACH TREE'S CRITICAL ROOT ZONE (CRZ) TO ENSURE TREES ARE PROTECTED FROM HEAVY EQUIPMENT AND VEHICLES ACCESSING PROJECT AREAS. TEMPORARY FENCES DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR TREATING INVASIVE SPECIES AND MEETING PERFORMANCE CRITERIA WITHIN TEMPORARY FENCED AREAS.
4. ALL OAKS (QUERCUS SPP.) AND HICKORY (CARYA SPP.) WITHIN PROJECT BOUNDARIES MUST BE PROTECTED BY THE CONTRACTOR REGARDLESS OF THEIR PRESENCE ON, OR ABSENCE FROM, THE DRAWINGS INCLUDING AREAS DESIGNATED ON THE DRAWINGS AS EXISTING WOODLAND. THE CONTRACTOR IS RESPONSIBLE FOR POSITIVELY IDENTIFYING ALL WOODY SPECIES BEFORE THEY ARE CUT, REMOVED, AND HERBICIDED.
5. ALL TREES AND SHRUBS FLAGGED IN THE FIELD WITH GREEN TAPE BY THE GOVERNMENT MUST BE LEFT STANDING AND PROTECTED.
6. ANY TREE GREATER THAN 8" DBH FLAGGED BY THE GOVERNMENT WITH BLUE TAPE MUST BE GIRDLED PER SPECIFICATION SECTION 31 13 13 SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL. THE GOVERNMENT WILL FLAG WITH BLUE TAPE NO MORE THAN 40 TREES TO BE GIRDLED.
7. ALL TREE AND SHRUB CLEARING ACTIVITIES MUST BE CONDUCTED IN ACCORDANCE WITH SPECIFICATION SECTION 31 13 13 SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL.
8. TREE AND SHRUB CLEARING MUST NOT OCCUR BETWEEN APRIL 1 - SEPTEMBER 30 WITHOUT PRIOR WRITTEN APPROVAL FROM THE COR.
9. KING BESSIE SENATOR'S GRAVE MUST BE PROTECTED BY ERECTING A TEMPORARY FENCE OUTSIDE THE PERIMETER OF THE GRAVE TO ENSURE GRAVE SITE IS PROTECTED FROM HEAVY EQUIPMENT AND VEHICLES ACCESSING PROJECT AREAS. A " DO NOT DISTURB" SIGN MUST BE PLACED ON TEMPORARY FENCE. TEMPORARY FENCING TO BE ERECTED AT A MINIMUM 50 FEET AWAY FROM THE GRAVE SITE.
10. ALL STREAM GRADING ACTIVITIES AND GROUND DISTURBING WORK WITHIN WETLANDS MUST NOT OCCUR BETWEEN MARCH 1 - OCTOBER 31, UNLESS APPROVED BY THE COR.

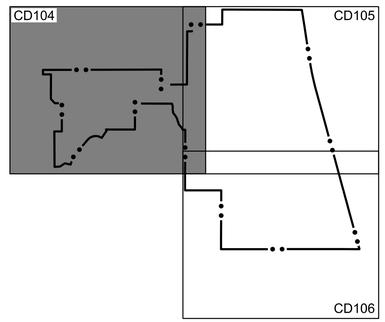
CIVIL DEMOLITION LEGEND

PROPOSED HASTINGS CREEK

PROTECTED AREA

DEMOLITION WORK

DEMOLITION KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	I. NAVARRO
DRAWN BY:	A. WILLIAMS
CHECKED BY:	L. VANDEN BERG P.E.
SUBMITTED BY:	L. VANDEN BERG P.E.
SIZE:	11" X 17"
ANSI D	

ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
FILE NAME:	444304-66C9B7-CD104.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DEMOLITION PLAN 1

SHEET ID

CD104

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD104.dgn

PD: 12:00:35 PM 4/7/2026



NORTH

0 200' 400'

A1 DEMOLITION PLAN SHEET 2

SCALE: 1"=200'

CIVIL DEMOLITION NOTES

1. DEPICTIONS FOR TREE AND SHRUB CLEARING DESIGNATED ON DRAWINGS WITH HATCHING OR SYMBOLS ARE APPROXIMATE AND MEANT ONLY AS A GUIDE. CLEARING WILL CONSIST OF THE REMOVAL OF ALL TREES AND SHRUBS WITHIN PROJECT LIMITS, INCLUDING INVASIVE WOODY SPECIES LISTED WITHIN SPECIFICATION SECTION 31 31 19.13 CHEMICAL VEGETATION CONTROL, EXCEPT THOSE TREES AND SHRUBS SHOWN ON DRAWINGS TO REMAIN AND IN LOCATIONS IDENTIFIED BY THE COR. TREES AND SHRUBS FLAGGED WITH GREEN TAPE IN THE FIELD BY THE GOVERNMENT MUST ALSO REMAIN. CLEARING ALSO INCLUDES THE REMOVAL OF WOODY DEBRIS RESULTING FROM CLEARING ACTIVITIES IN ALL AREAS TO BE CLEARED.
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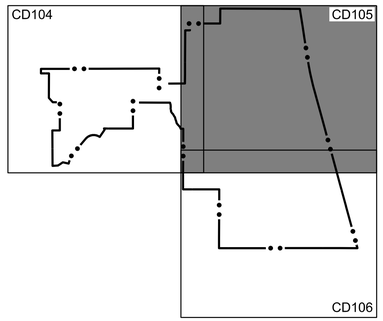
CIVIL DEMOLITION LEGEND

PROPOSED HASTINGS CREEK

PROTECTED AREA

DEMOLITION WORK

DEMOLITION KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	I. NAVARRO
DRAWN BY:	A. WILLIAMS
CHECKED BY:	L. VANDEN BERG P.E.
SUBMITTED BY:	L. VANDEN BERG P.E.
SIZE:	ANSI D
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
FILE NAME:	444304-66C9B7-CD105.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DEMOLITION PLAN 2

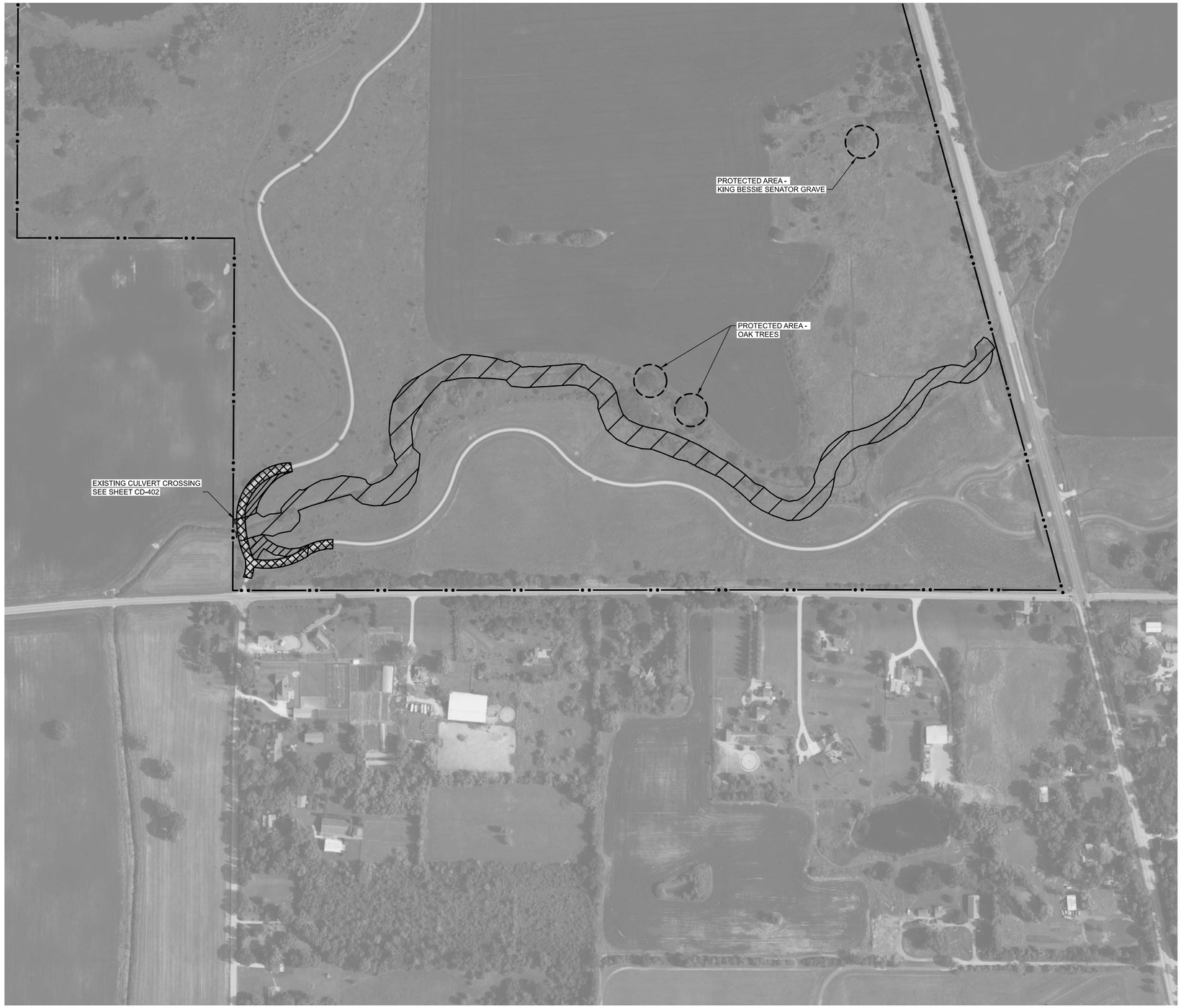
SHEET ID

CD105

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD105.dgn

PD: 12:02:48 PM 4/7/2026



NORTH

0 200' 400'

A1 DEMOLITION PLAN SHEET 3

SCALE: 1"=200'

CIVIL DEMOLITION NOTES

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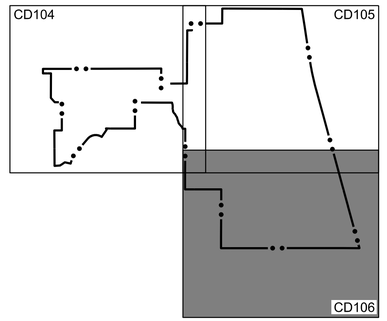
CIVIL DEMOLITION LEGEND

PROPOSED HASTINGS CREEK

PROTECTED AREA

DEMOLITION WORK

DEMOLITION KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L. NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG, P.E.
SUBMITTED BY: L. VANDEN BERG, P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CD106.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DEMOLITION PLAN 3

SHEET ID
CD106

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD106.dgn
PD: 12:04:20 PM 4/7/2026



H1 WATER CONTROL STRUCTURE - DOWNSTREAM
SCALE: NTS



H11 WATER CONTROL STRUCTURE - EAST WALL
SCALE: NTS



A1 WATER CONTROL STRUCTURE - UPSTREAM
SCALE: NTS



A11 WATER CONTROL STRUCTURE - UPSTREAM - ENGULFING TREE
SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DS: 444304-66C9B7-CD401.dgn
PD: 12:06:11 PM 4/7/2026

DESIGNED BY:	ISSUE DATE:
I. NAVARRO	APRIL 2026
DRAWN BY:	SOLICITATION NO.:
R. MUHAMMAD	W912P82-25-R-A009
CHECKED BY:	CONTRACT NO.:
L. VANDEN BERG P.E.	TBD
SUBMITTED BY:	PROJECT ID:
L. VANDEN BERG P.E.	444304-66C9B7
SIZE: FILE NAME:	
ANSI D	444304-66C9B7-CD401.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

PROJECT DEMOLITION PHOTOGAPHS 1

SHEET ID
CD401

CERTIFIED FINAL DOCUMENTS - RTA



H1 DOWNSTREAM OF CULVERT CROSSING AT CREEK
SCALE: NTS



H11 TOP OF EXISTING CULVERT CROSSING
SCALE: NTS



A1 RAVEN GLEN - HASTINGS CREEK TRAIL
CULVERT EAST SIDE (OUTFALL)
SCALE: NTS



A11 RAVEN GLEN - HASTINGS CREEK TRAIL
CULVERT - WEST SIDE
SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
I. NAVARRO	APRIL 2026
DRAWN BY:	SOLICITATION NO.:
R. MUHAMMAD	W912P62-25-R-A009
CHECKED BY:	CONTRACT NO.:
L. VANDEN BERG, P.E.	TBD
SUBMITTED BY:	PROJECT ID:
L. VANDEN BERG, P.E.	444304-66C9B7
SIZE:	FILE NAME:
ANSI D	444304-66C9B7-CD402.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

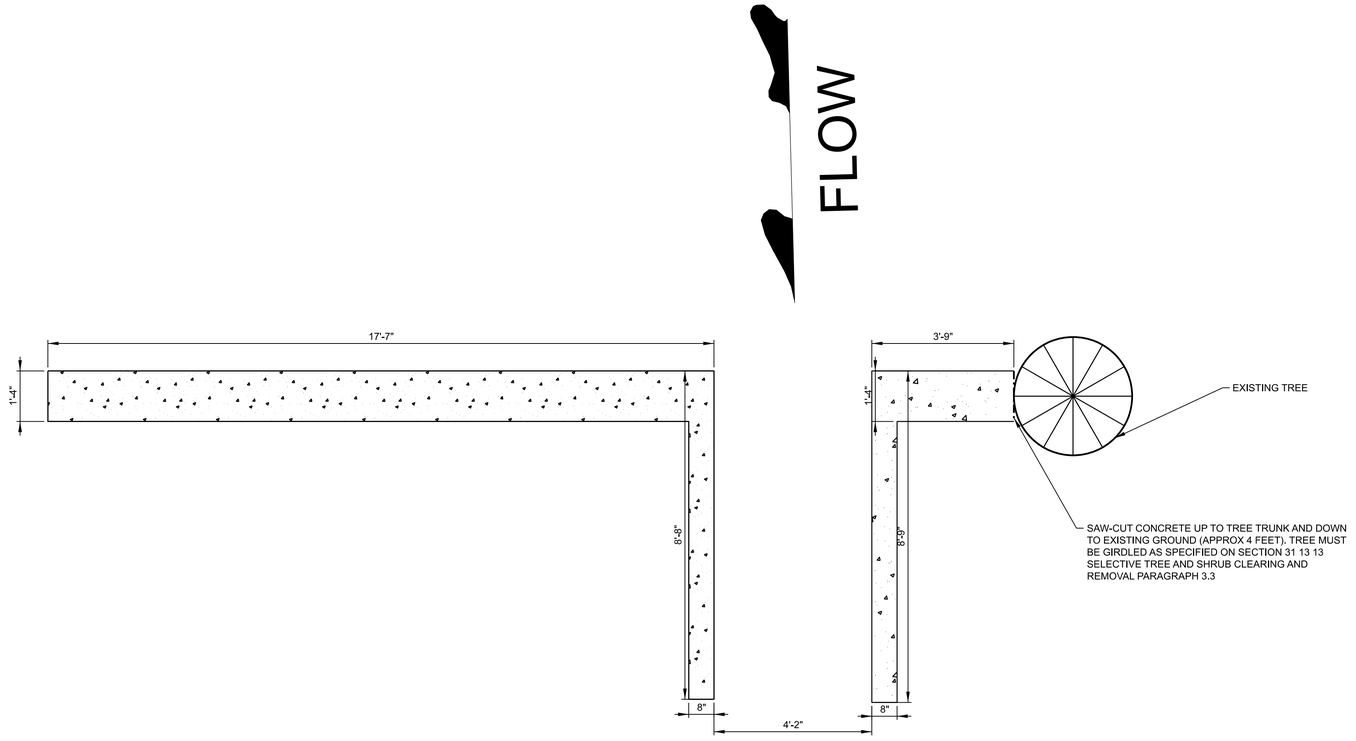
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

PROJECT DEMOLITION PHOTOGRAPHS 2

SHEET ID
CD402

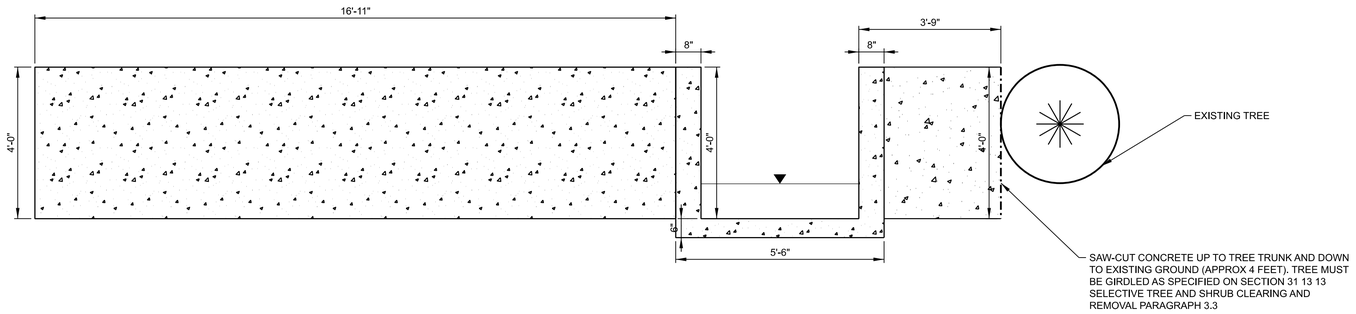
CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD402.dgn
PD: 12:07:14 PM 4/7/2026



F1 WATER CONTROL STRUCTURE PLAN

SCALE: N.T.S



A1 WATER CONTROL STRUCTURE SECTION

SCALE: N.T.S

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO	ISSUE DATE: APRIL 2026
DRAWN BY: R. MUHAMMAD	SOLICITATION NO.: W912P62-25-R-A009
CHECKED BY: L. VANDEN BERG P.E.	CONTRACT NO.: TBD
SUBMITTED BY: L.VANDEN BERG P.E.	PROJECT ID: 444304-66C9B7
SIZE: ANSI D	FILE NAME: 444304-66C9B7-CD500.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

WATER CONTROL STRUCTURE PLAN AND SECTION

SHEET ID

CD500

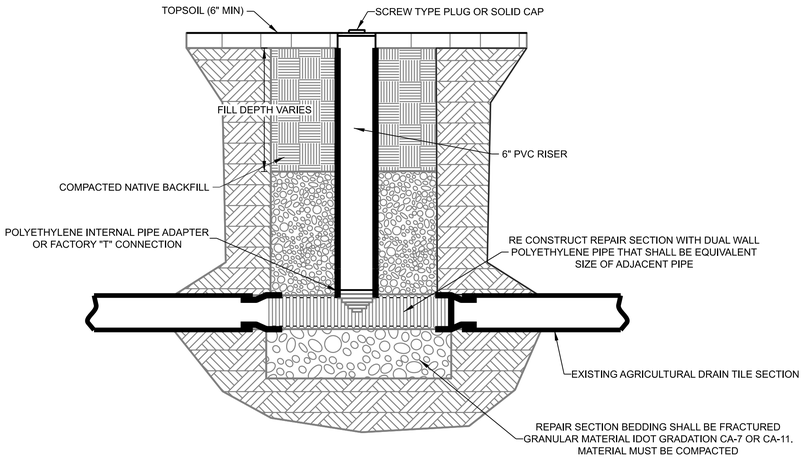
CERTIFIED FINAL DOCUMENTS - RTA

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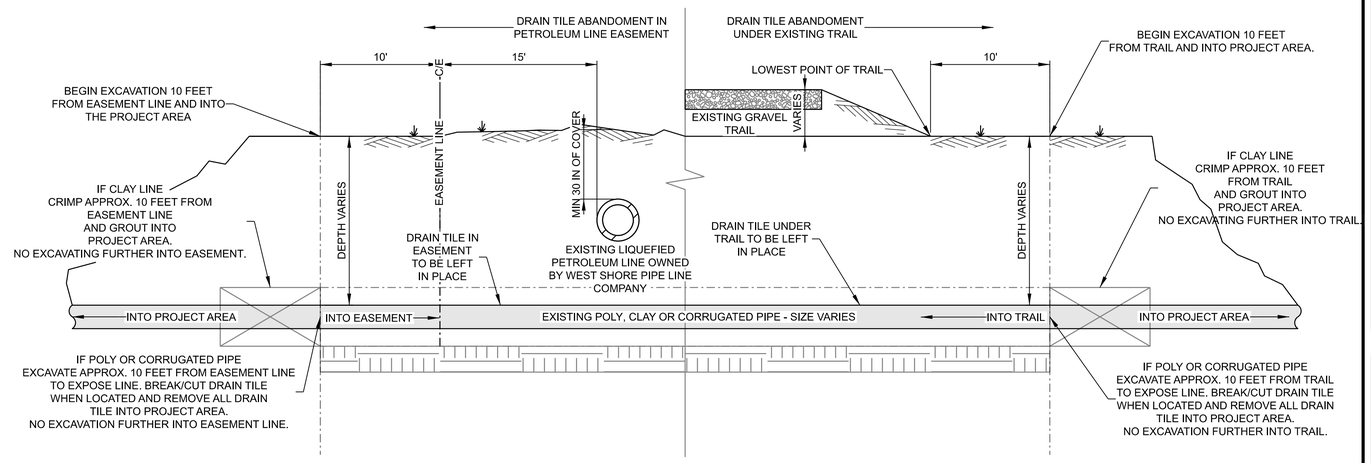
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GENERAL NOTES

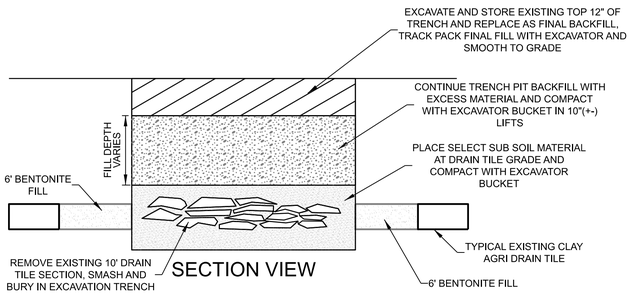
1. THESE DETAILS MAY BE ADJUSTED WITH THE APPROVAL OF THE COR. ALL CHANGES SHALL BE RECORDED ON FINAL AS-BUILT DRAWINGS.



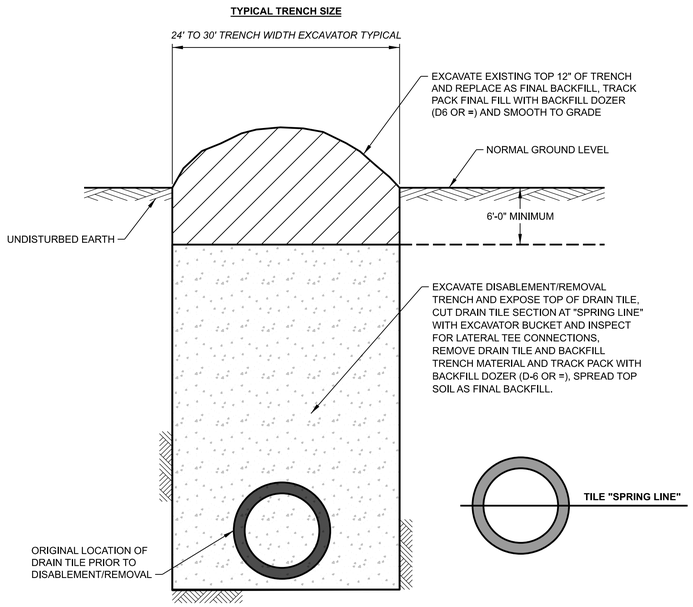
J1 TYPICAL OBSERVATION RISER STRUCTURE
SCALE: 3/4"=1'-0"



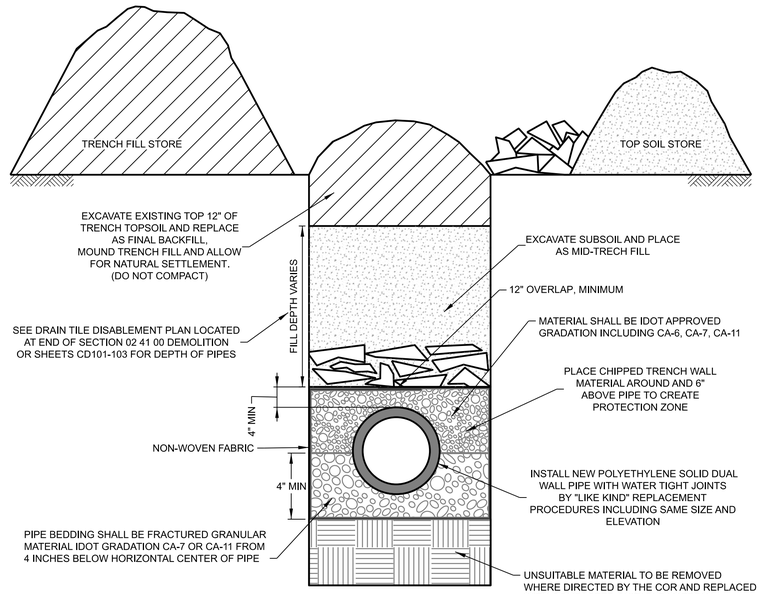
H8 TYPICAL ABANDOMENT SECTION VIEW
SCALE: NTS



A1 EX CLAY DRAIN TILE CRIMP SECTION
SCALE: 1/2"=1'-0"



A7 EX. CLAY DRAIN TILE ABANDONMENT SECTION
SCALE: 3/16"=1'-0"



A13 EX. CLAY DRAIN TILE REPLACEMENT SECTION
SCALE: 1/2"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CD501.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DEMOLITION DETAILS

SHEET ID
CD501

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CD501.dgn
PD: 12:08:58 PM 4/7/2026

GENERAL NOTES

1. THESE DETAILS MAY BE ADJUSTED WITH THE APPROVAL OF THE COR. ALL CHANGES SHALL BE RECORDED ON FINAL AS-BUILT DRAWINGS.

SHEET NO.	TOTAL SHEETS

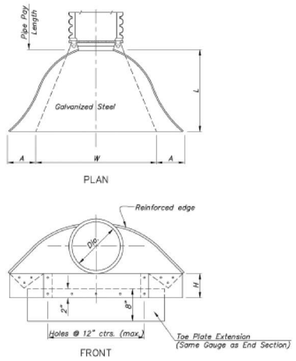
END SECTIONS FOR HDPE PIPE

Dia.	Gauge	Weight	* A	* H	* L	* W	Slope	Overall Width
6"	18	10	4	3	8	12	2	20"
8"	18	14	5 3/4	4	14 1/2	16	2 1/4	27 1/2"
10"	18	17	7 5/8	6	14 1/2	20	2 1/2	35 1/4"
12"	16	25	7	6	21	24	2 1/2	38"
15"	16	33	8	6	26	30	2 1/2	46"
18"	16	42	8	6	31	36	2 1/2	52"
21"	16	49	9	6	36	42	2 1/2	60"
24"	16	65	10	6	41	48	2 1/2	68"
30"	14	123	12	8	51	60	2 1/2	84"
36"	14	184	14	9	60	72	2 1/2	100"
42"	12	320	16	11	69	84	2 1/2	116"
48"	12	375	18	12	78	90	2 1/4	126"
54"	12	440	18	12	84	102	2 1/4	138"
60"	12/10	610	18	12	87	114	2	150"

Toe plate extensions where specified, to be punched to match holes in apron lip. 3/8" bolts to be furnished. The length of toe plate to be as follows: W + 10" for 12" to 30" diameter pipes inclusive.
W + 20" for 36" to 60" diameter pipes inclusive.

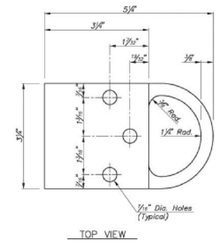
Multiple panel end sections shall have lap seams which are to be tightly jointed by bolts. Corner plate, and toe plate to be same gauge as end section.

* – Dimensions in Inches Plus or Minus Standard Shop Tolerance.

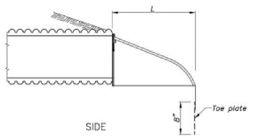


PLAN

FRONT

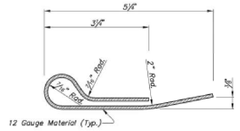


TOP VIEW



TYPE 2 CONNECTIONS
(12" & Larger)

SIDE



SIDE VIEW

"D" RING SIDE LUG
TYPE 2 ATTACHMENT DETAILS

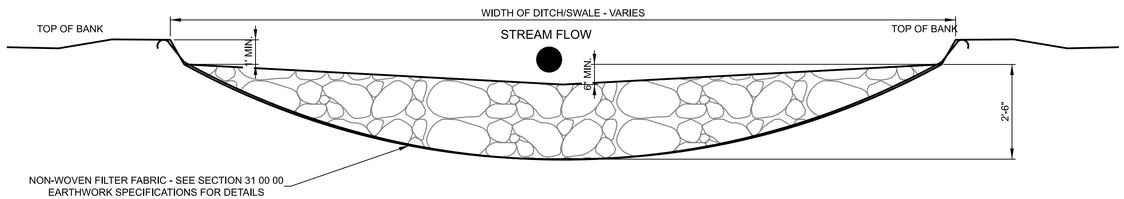
No.	Date	Revisions

STANDARD END SECTION
FOR HDPE PIPES

J & J DRAINAGE PRODUCTS CO.
Hutchinson, Kansas
1-800-331-7465
JJDrainage.com

G1 METAL END SECTION FOR PIPE CULVERTS DETAIL (<12") DETAIL

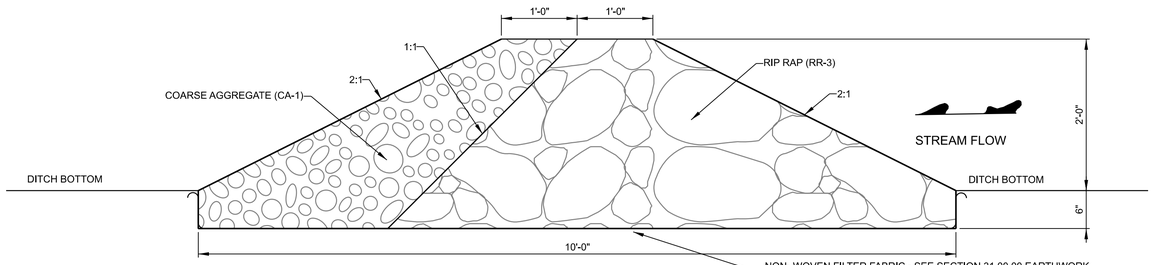
SCALE: NTS



D1 DISABLEMENT ROCK CHECK DAM CROSS SECTION

SCALE: 1/2"=1'-0"

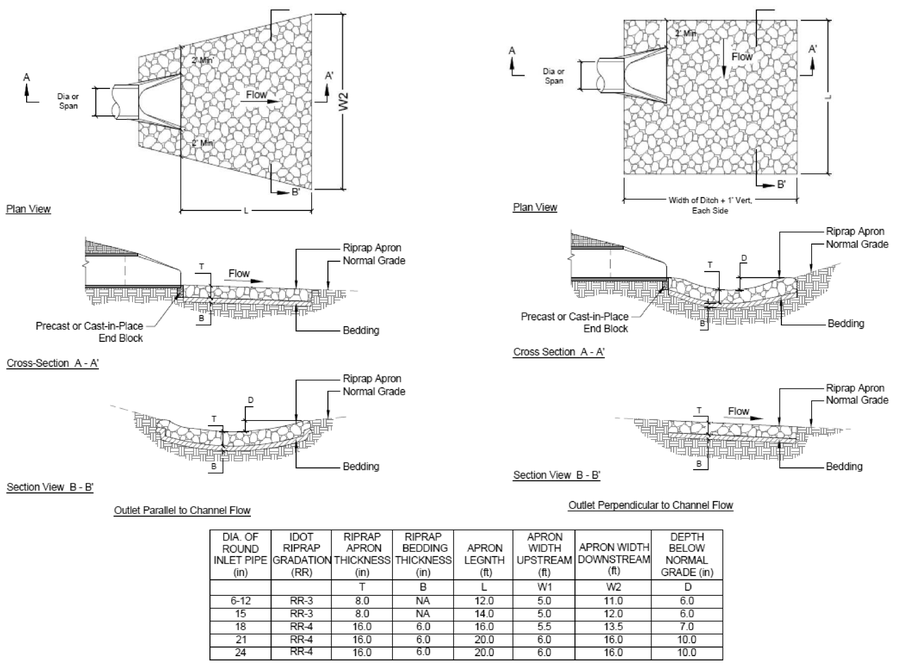
0 1' 0" 2' 0" 4' 0"



A1 DISABLEMENT ROCK CHECK DAM PROFILE

SCALE: 1"=1'-0"

0 6" 1' 0" 2' 0"



DIA. OF ROUND INLET PIPE (in)	IDOT RIPRAP GRADATION (RR)	RIPRAP APRON THICKNESS (in)	RIPRAP BEDDING THICKNESS (in)	APRON LEGNTH (ft)	APRON WIDTH UPSTREAM (ft)	APRON WIDTH DOWNSTREAM (ft)	DEPTH BELOW NORMAL GRADE (in)
		T	B	L	W1	W2	D
6-12	RR-3	8.0	NA	12.0	5.0	11.0	6.0
15	RR-3	8.0	NA	14.0	5.0	12.0	6.0
18	RR-4	16.0	6.0	16.0	5.5	13.5	7.0
21	RR-4	16.0	6.0	20.0	6.0	16.0	10.0
24	RR-4	16.0	6.0	20.0	6.0	16.0	10.0

A12 RIPRAP OUTLET PROTECTION DETAIL

SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CD502.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL DEMOLITION DETAILS

SHEET ID
CD502

CERTIFIED FINAL DOCUMENTS - RTA

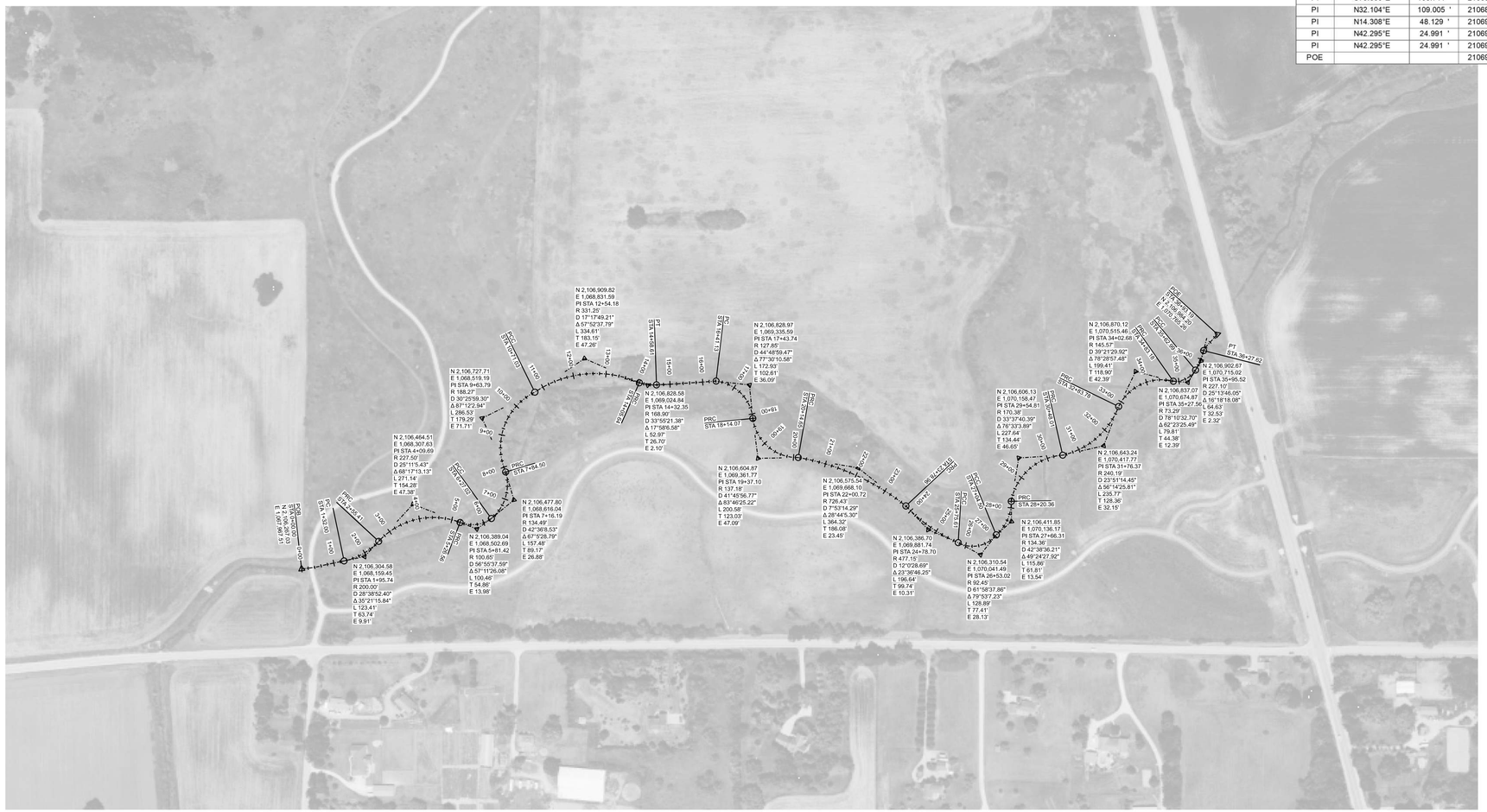
DS: 444304-66C9B7-CD502.dgn
PD: 12:09:42 PM 4/7/2026

HASTING CREEK ALIGNMENT
HORIZONTAL DATUM ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM NAVD 88

POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
POB	N83.405°E	11.818 '	2106267.032	1067967.506		0+00					
PI	N83.405°E	11.818 '	2106268.389	1067979.246		0+12					
PI	N82.985°E	7.410 '	2106269.747	1067990.986		0+24					
PI	N82.985°E	7.410 '	2106270.652	1067998.34		0+31					
PI	N78.706°E	7.409 '	2106271.557	1068005.694		0+38					
PI	N78.706°E	7.409 '	2106273.008	1068012.96		0+46					
PI	N74.775°E	7.212 '	2106274.459	1068020.225		0+53					
PI	N74.775°E	7.212 '	2106276.352	1068027.184		0+60					
PI	N78.045°E	20.000 '	2106278.246	1068034.143		0+68					
PI	N78.045°E	20.000 '	2106282.389	1068053.709		0+88					
PI	N78.171°E	12.168 '	2106286.532	1068073.275		1+08					
PI	N78.171°E	12.138 '	2106289.026	1068085.184		1+20					
PI	N42.817°E	424.055 '	2106304.581	1068159.452	1+32	1+96	2+55	35.354°	-200.000 '	123.410 '	63.740 '
PI	S68.896°E	434.032 '	2106464.507	1068307.631	2+55	4+10	5+27	68.287°	227.501 '	271.143 '	154.282 '
PI	N54.099°E	395.496 '	2106389.037	1068502.686	5+27	5+81	6+27	57.191°	-100.648 '	100.463 '	54.864 '
PI	N16.487°W	402.407 '	2106477.803	1068616.037	6+27	7+16	7+85	67.091°	-134.490 '	157.483 '	89.171 '
PI	N63.685°E	513.896 '	2106727.706	1068519.194	7+85	9+64	10+71	87.201°	188.268 '	286.532 '	179.287 '
PI	S66.206°E	236.118 '	2106909.822	1068831.59	10+71	12+54	14+06	57.877°	331.247 '	334.608 '	183.149 '
PI	N88.017°E	86.315 '	2106828.577	1069024.844	14+06	14+32	14+59	17.968°	-168.901 '	52.969 '	26.704 '
PI	N86.203°E	55.401 '	2106832.428	1069111.07		15+18					
PI	N85.917°E	51.520 '	2106836.097	1069166.35		15+74					
PI	N85.678°E	15.990 '	2106839.766	1069217.739		16+25					
PI	S5.779°E	402.929 '	2106828.968	1069335.591	16+41	17+44	18+14	77.503°	127.845 '	172.934 '	102.612 '
PI	N88.827°E	564.763 '	2106604.871	1069361.767	18+14	19+37	20+15	83.774°	-137.184 '	200.580 '	123.031 '
PI	S51.409°E	444.528 '	2106575.537	1069668.101	20+15	22+01	23+79	28.735°	726.431 '	364.317 '	186.075 '
PI	S66.753°E	363.073 '	2106386.695	1069881.74	23+79	24+79	25+76	23.613°	-477.148 '	196.643 '	99.737 '
PI	N38.491°E	321.638 '	2106310.539	1070041.493	25+76	26+53	27+05	79.885°	-92.447 '	128.895 '	77.414 '
PI	N0.619°W	408.354 '	2106411.854	1070136.174	27+05	27+66	28+20	49.408°	-134.360 '	115.863 '	61.810 '
PI	N86.384°E	414.589 '	2106606.127	1070158.465	28+20	29+55	30+48	76.551°	170.382 '	227.642 '	134.441 '
PI	N20.870°E	360.299 '	2106643.239	1070417.765	30+48	31+76	32+84	56.241°	-240.193 '	235.770 '	128.360 '
PI	S75.600°E	198.711 '	2106870.122	1070515.463	32+84	34+03	34+83	78.483°	145.575 '	199.405 '	118.903 '
PI	N32.104°E	109.005 '	2106837.075	1070674.872	34+83	35+28	35+63	62.390°	-73.291 '	79.808 '	44.378 '
PI	N14.308°E	48.129 '	2106902.666	1070715.025	35+63	35+96	36+28	16.305°	-227.099 '	64.627 '	32.533 '
PI	N42.295°E	24.991 '	2106947.228	1070731.623		36+43					
PI	N42.295°E	24.991 '	2106965.713	1070748.441		36+68					
POE			2106984.199	1070765.258		36+93					

HASTING CREEK ALIGNMENT
HORIZONTAL DATUM ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM NAVD 88

	STATION	ELEVATION	NORTHING (Y)	EASTING (X)
Element: Linear				
POB	0+00	748.425	2106267.032	1067967.506
POE	36+93	743.659	2106984.096	1070765.164



PLAN NORTH

0 600' 1200'

A1 HASTING CREEK ALIGNMENT
SCALE: 1"=200'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: A. KARR
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: -
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_C-001.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

HASTING CREEK ALIGNMENT

SHEET ID
C-001

CERTIFIED FINAL DOCUMENTS - RTA



A1 TRAIL ALIGNMENTS
SCALE: 1"=60'

PLAN NORTH

0 600' 1200'

NORTH TRAIL ALIGNMENT

HORIZONTAL DATUM: ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM: NAVD 88

POINT ID	BEARING	DISTANCE (FT)	NORTHING (N)	EASTING (E)	PC STA.	PI STA.	PT STA.	DELTA (Δ)	RADIUS (R)	LENGTH (L)	TANGENT (T)
PI	N22°32'27.632"E	289.002 '	2106294.145	1068016.136	0	104.14	181.513	70°14'46.484"	148.050 '	181.513 '	104.140 '
PI	N78°38'52.127"E		2106480.27	1068099.017	181.513	281.187	366.375	53°06'59.139"	199.407 '	184.861 '	99.674 '

NORTH TRAIL ALIGNMENT

HORIZONTAL DATUM: ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM: NAV 88

	STATION	ELEVATION (FT)	NORTHING (N)	EASTING (E)
Element: Linear				
POB	0	757.97	2106224.064	1068093.168
PVI	40.312	757.97	2106254.893	1068067.387
Element: Linear				
PVI	40.312	757.97	2106254.893	1068067.387
PVI	104.594	758.623	2106314.951	1068045.923
Element: Linear				
PVI	104.594	758.623	2106314.951	1068045.923
POE	366.375	761.312	2106499.89	1068196.741

SOUTH TRAIL ALIGNMENT

HORIZONTAL DATUM: ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM: NAVD 88

POINT ID	BEARING	DISTANCE (FT)	NORTHING (N)	EASTING (E)	PC STA.	PI STA.	PT STA.	DELTA (Δ)	RADIUS (R)	LENGTH (L)	TANGENT (T)
PI	N43°38'51.701"E		2106152.529	1068024.932	0	98.861	191.968	33°45'32.362"	325.809 '	191.968 '	98.861 '

SOUTH TRAIL ALIGNMENT

HORIZONTAL DATUM: ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM: NAV 88

	STATION	ELEVATION (FT)	NORTHING (N)	EASTING (E)
Element: Linear				
POB	0	764.997	2106055.137	1068007.954
POE	191.968	757.969	2106224.064	1068093.168

EAST TRAIL ALIGNMENT

HORIZONTAL DATUM: ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM: NAVD 88

POINT ID	BEARING	DISTANCE (FT)	NORTHING (N)	EASTING (E)	PC STA.	PI STA.	PT STA.	DELTA (Δ)	RADIUS (R)	LENGTH (L)	TANGENT (T)
PI	N60°18'13.183"E	189.751 '	2106150.962	1068174.827	0	109.6	189.959	71°31'53.923"	-152.155 '	189.959 '	109.600 '
PI	S88°57'31.941"E		2106220.481	1068307.696	189.959	230.584	270.111	23°02'54.576"	199.246 '	80.151 '	40.625 '

EAST TRAIL ALIGNMENT

HORIZONTAL DATUM: ILLINOIS EAST STATE PLAN NAD 83
VERTICAL DATUM: NAV 88

	STATION	ELEVATION (FT)	NORTHING (N)	EASTING (E)
Element: Linear				
POB	0	757.97	2106224.064	1068093.168
POE	270.111	763.984	2106219.743	1068348.315

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: A. KARR
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: LAUNDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987_C-002.dgn

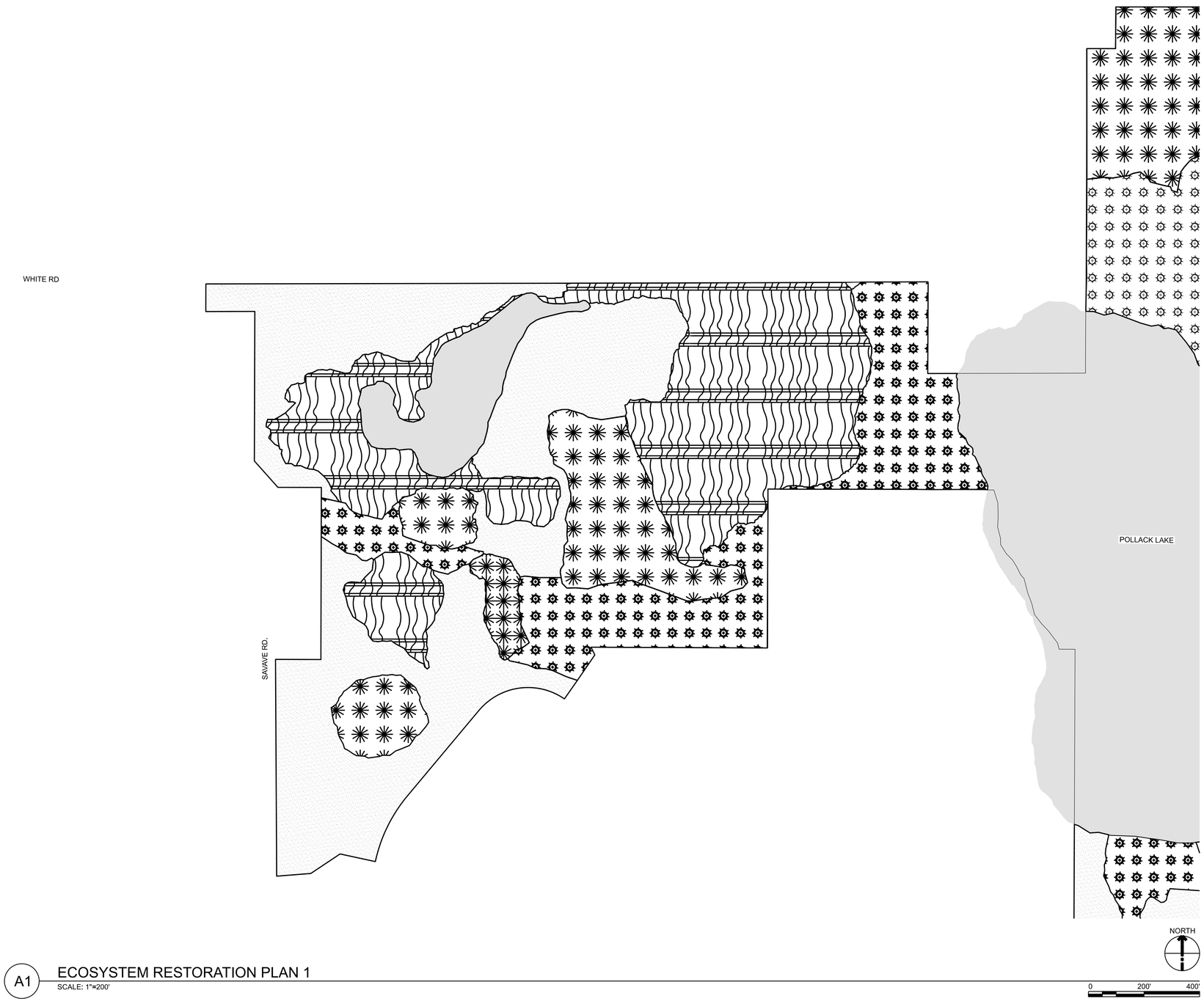
U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

TRAIL ALIGNMENTS

SHEET ID
C-002

CERTIFIED FINAL DOCUMENTS - RTA



A1 ECOSYSTEM RESTORATION PLAN 1
SCALE: 1"=200'

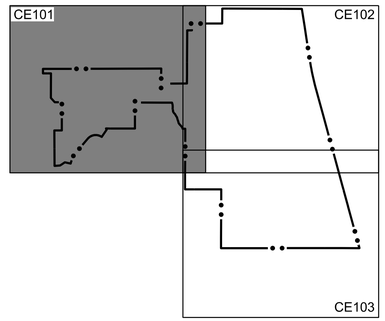
ECO-RESTORATION GENERAL NOTES

1. INVASIVE SPECIES TREATMENTS AND CONTROL MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 31 19.13 CHEMICAL VEGETATION CONTROL AND SPECIFICATION SECTION 32 01 90.45 ESTABLISHMENT OF NATIVE PLANT COMMUNITIES TO MEET PERFORMANCE CRITERIA.
2. SEEDING AND PLANTING MUST OCCUR IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 19.10 NATIVE PLANTS AND SPECIFICATION SECTION 32 01 90.45 ESTABLISHMENT OF NATIVE PLANT COMMUNITIES.
3. PRESCRIBED BURNS MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 31 19.16 PRESCRIPTION BURNING.
4. SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 13 13 SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL.
5. DEPICTIONS FOR RESTORATION WORK DESIGNATED ON DRAWINGS WITH HATCHING OR SYMBOLS ARE APPROXIMATE AND MEANT ONLY AS A GUIDE. THE CONTRACTOR MUST COORDINATE WITH THE COR AND LANDOWNER TO PROVIDE PLANS OF RESTORATION WORK INCLUDED IN VARIOUS SUBMITTALS FOR APPROVAL REQUIRED UNDER THE SPECIFICATIONS LISTED ABOVE AND SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION AND COORDINATED WITH ALL OTHER CONSTRUCTION ACTIVITIES AND SPECIFICATIONS.
6. COBBLE BARS AND COBBLE BARS WITH BOULDER CLUSTERS ARE TO BE PLACED IN THE INSIDE BEND OF THE CHANNEL UNLESS OTHERWISE NOTED.

ECO-RESTORATION LEGEND

- HASTINGS CREEK
- SAVANNA
- WETLAND
- WOODLAND
- OLD FIELD / DEGRADED PRAIRIE
- TURF
- AG / PRAIRIE CONVERSION
- WATER
- COBBLE BAR (SEE SHEET CE501 - DETAIL H1)
- COBBLE BAR WITH BOULDER CLUSTER (SEE SHEET CE501 - DETAIL A1)
- RIFFLE (SEE SHEET CE501 - DETAIL H11)

ECOSYSTEM RESTORATION KEY MAP



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
FILE NAME: 444304-66C9B7-CE101.dgn
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CE101.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

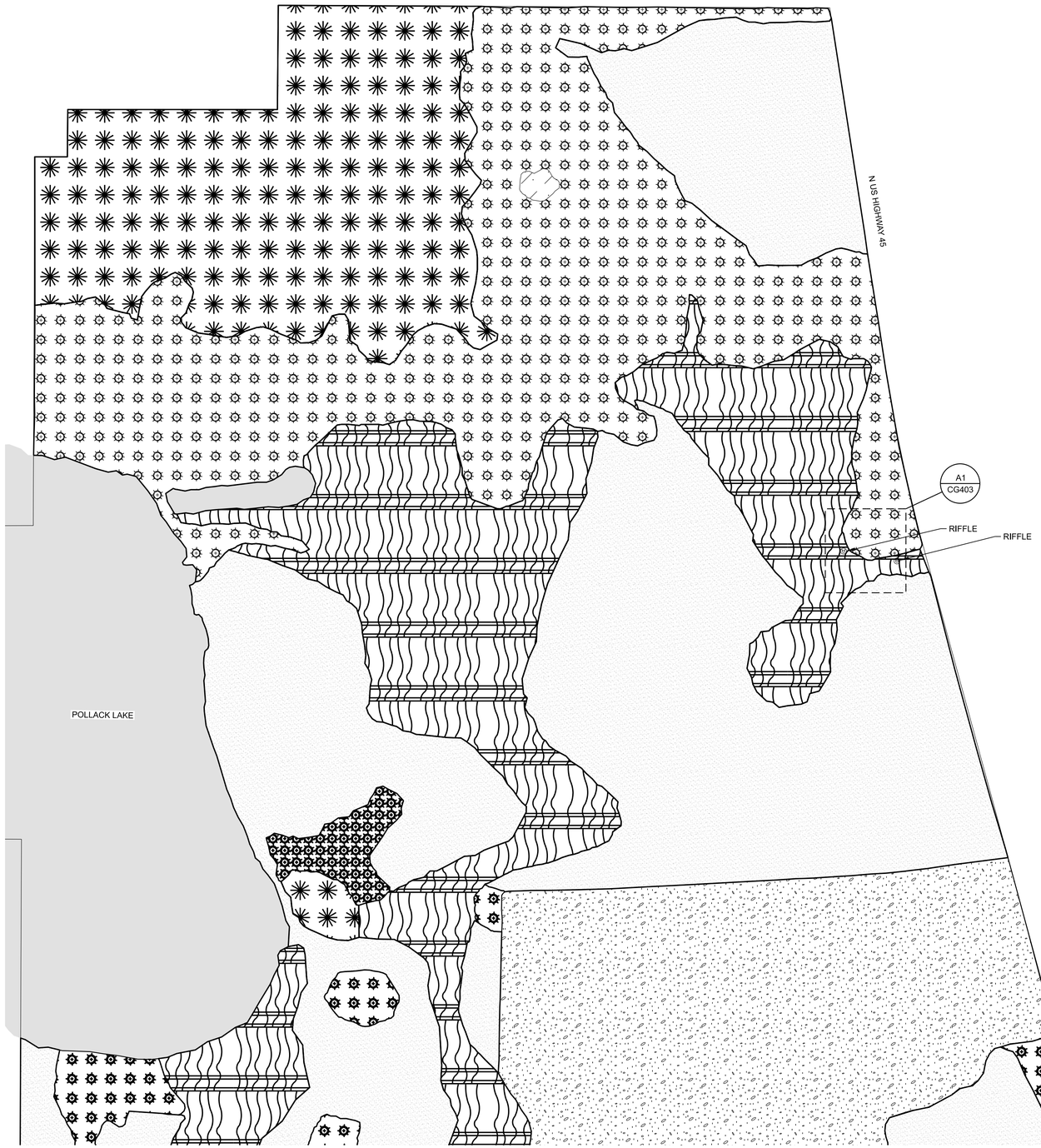
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION PLAN 1

SHEET ID
CE101

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CE101.dgn
PD: 12:13:13 PM 4/7/2026



A1 ECOSYSTEM RESTORATION PLAN 2
SCALE: 1"=200'

NORTH
0 200' 400'

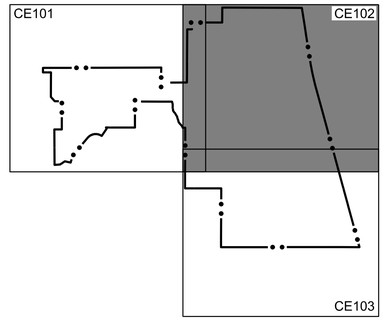
ECO-RESTORATION GENERAL NOTES

1. INVASIVE SPECIES TREATMENTS AND CONTROL MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 31 19.13 CHEMICAL VEGETATION CONTROL AND SPECIFICATION SECTION 32 01 90.45 ESTABLISHMENT OF NATIVE PLANT COMMUNITIES TO MEET PERFORMANCE CRITERIA.
2. SEEDING AND PLANTING MUST OCCUR IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 19.10 NATIVE PLANTS AND SPECIFICATION SECTION 32 01 90.45 ESTABLISHMENT OF NATIVE PLANT COMMUNITIES.
3. PRESCRIBED BURNS MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 31 19.16 PRESCRIPTION BURNING.
4. SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 13 13 SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL.
5. DEPICTIONS FOR RESTORATION WORK DESIGNATED ON DRAWINGS WITH HATCHING OR SYMBOLS ARE APPROXIMATE AND MEANT ONLY AS A GUIDE. THE CONTRACTOR MUST COORDINATE WITH THE COR AND LANDOWNER TO PROVIDE PLANS OF RESTORATION WORK INCLUDED IN VARIOUS SUBMITTALS FOR APPROVAL REQUIRED UNDER THE SPECIFICATIONS LISTED ABOVE AND SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION AND COORDINATED WITH ALL OTHER CONSTRUCTION ACTIVITIES AND SPECIFICATIONS.
6. COBBLE BARS AND COBBLE BARS WITH BOULDER CLUSTERS ARE TO BE PLACED IN THE INSIDE BEND OF THE CHANNEL UNLESS OTHERWISE NOTED.

ECO-RESTORATION LEGEND

- HASTINGS CREEK
- SAVANNA
- WETLAND
- WOODLAND
- OLD FIELD / DEGRADED PRAIRIE
- TURF
- AG / PRAIRIE CONVERSION
- WATER
- COBBLE BAR (SEE SHEET CE501 - DETAIL H1)
- COBBLE BAR WITH BOULDER CLUSTER (SEE SHEET CE501 - DETAIL A1)
- RIFFLE (SEE SHEET CE501 - DETAIL H11)

ECOSYSTEM RESTORATION KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L. NAVARRO
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CE102.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

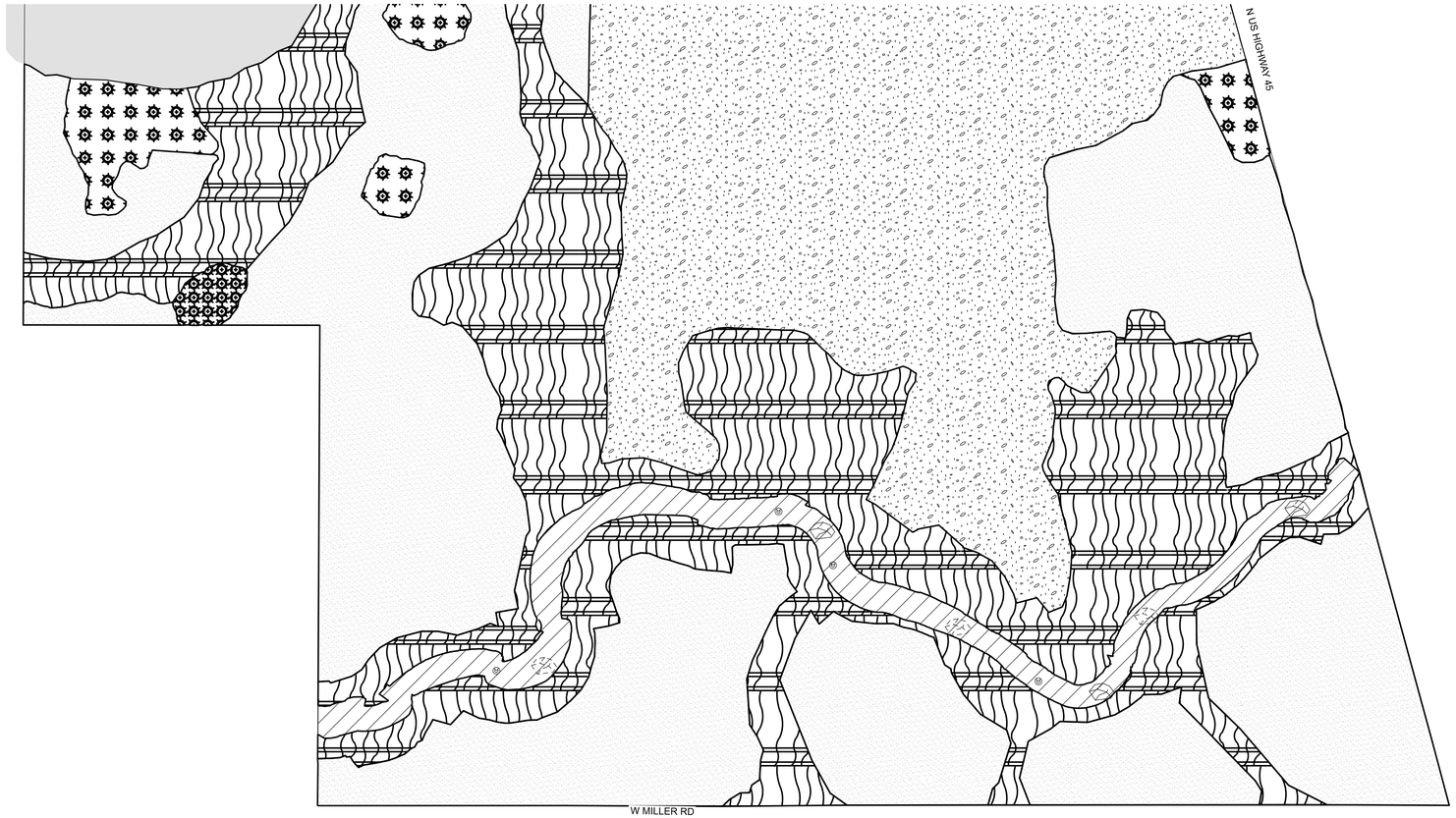
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION PLAN 2

SHEET ID
CE102

DS: 444304-66C9B7-CE102.dgn
PD: 12:13:36 PM 4/7/2026

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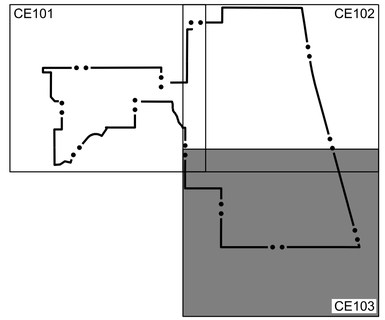
ECO-RESTORATION GENERAL NOTES

1. INVASIVE SPECIES TREATMENTS AND CONTROL MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 31 19.13 CHEMICAL VEGETATION CONTROL AND SPECIFICATION SECTION 32 01 90.45 ESTABLISHMENT OF NATIVE PLANT COMMUNITIES TO MEET PERFORMANCE CRITERIA.
2. SEEDING AND PLANTING MUST OCCUR IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 19.10 NATIVE PLANTS AND SPECIFICATION SECTION 32 01 90.45 ESTABLISHMENT OF NATIVE PLANT COMMUNITIES.
3. PRESCRIBED BURNS MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 31 19.16 PRESCRIPTION BURNING.
4. SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL MUST BE PERFORMED IN ALL AREAS WITHIN PROJECT LIMITS AND IN ACCORDANCE WITH SPECIFICATION SECTION 31 13 13 SELECTIVE TREE AND SHRUB CLEARING AND REMOVAL.
5. DEPICTIONS FOR RESTORATION WORK DESIGNATED ON DRAWINGS WITH HATCHING OR SYMBOLS ARE APPROXIMATE AND MEANT ONLY AS A GUIDE. THE CONTRACTOR MUST COORDINATE WITH THE COR AND LANDOWNER TO PROVIDE PLANS OF RESTORATION WORK INCLUDED IN VARIOUS SUBMITTALS FOR APPROVAL REQUIRED UNDER THE SPECIFICATIONS LISTED ABOVE AND SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION AND COORDINATED WITH ALL OTHER CONSTRUCTION ACTIVITIES AND SPECIFICATIONS.
6. COBBLE BARS AND COBBLE BARS WITH BOULDER CLUSTERS ARE TO BE PLACED IN THE INSIDE BEND OF THE CHANNEL UNLESS OTHERWISE NOTED.

ECO-RESTORATION LEGEND

- HASTINGS CREEK
- SAVANNA
- WETLAND
- WOODLAND
- OLD FIELD / DEGRADED PRAIRIE
- TURF
- AG / PRAIRIE CONVERSION
- WATER
- COBBLE BAR (SEE SHEET CE501 - DETAIL H1)
- COBBLE BAR WITH BOULDER CLUSTER (SEE SHEET CE501 - DETAIL A1)
- RIFFLE (SEE SHEET CE501 - DETAIL H11)

ECOSYSTEM RESTORATION KEY MAP



NORTH

NORTH

0 200' 400'

A1 ECOSYSTEM RESTORATION PLAN 3
SCALE: 1"=200'

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MARK	DESCRIPTION	DATE

DESIGNED BY: L. NAVARRO
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U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

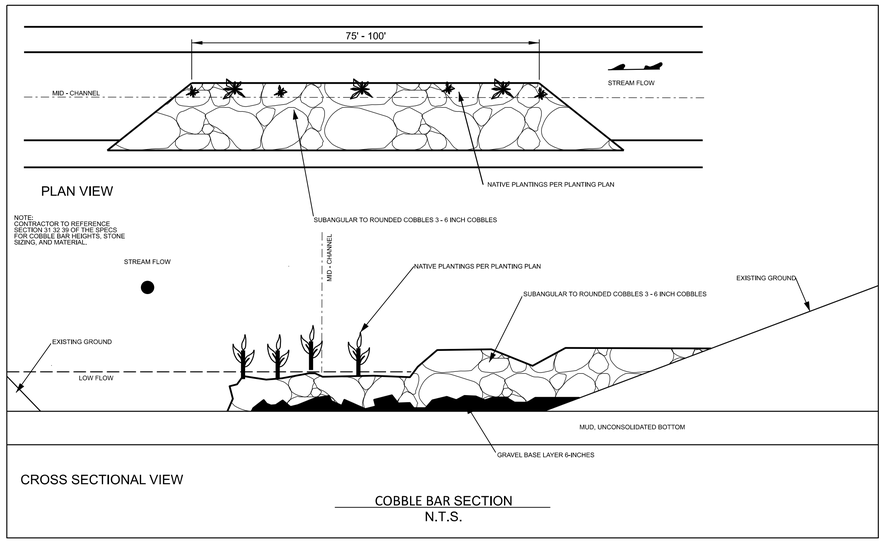
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION PLAN 3

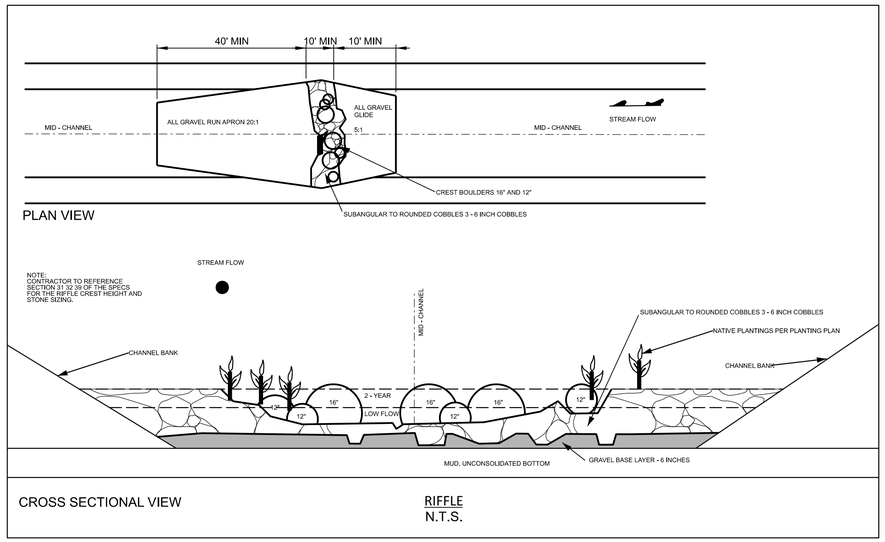
SHEET ID
CE103

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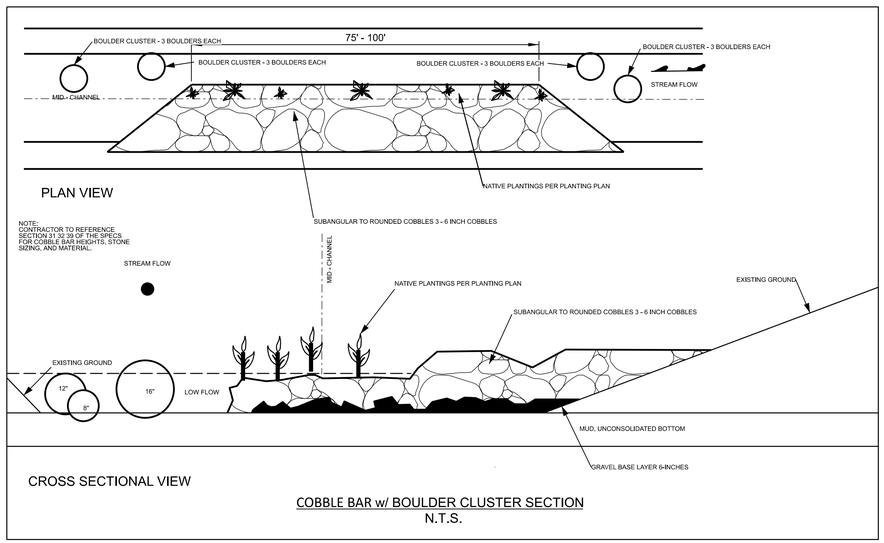
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PD: 12:14:04 PM 4/7/2026



H1 TYPICAL COBBLE BAR
SCALE: NTS



H11 TYPICAL RIFFLE
SCALE: NTS



A1 TYPICAL COBBLE BAR W/ BOULDER CLUSTERS
SCALE: NTS

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MARK	DESCRIPTION	DATE

DESIGNED BY:	
L. NAVARRO	
DRAWN BY:	
A. WILLIAMS	
CHECKED BY:	
L. VANDEN BERG, P.E.	
SUBMITTED BY:	
L. VANDEN BERG, P.E.	
SIZE:	FILE NAME:
ANSI D	444304-66C9B7-CE501.dgn

ISSUE DATE:	
APRIL 2026	
SOLICITATION NO.:	
W912P62-25-R-A009	
CONTRACT NO.:	
TBD	
PROJECT ID:	
444304-66C9B7	

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CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

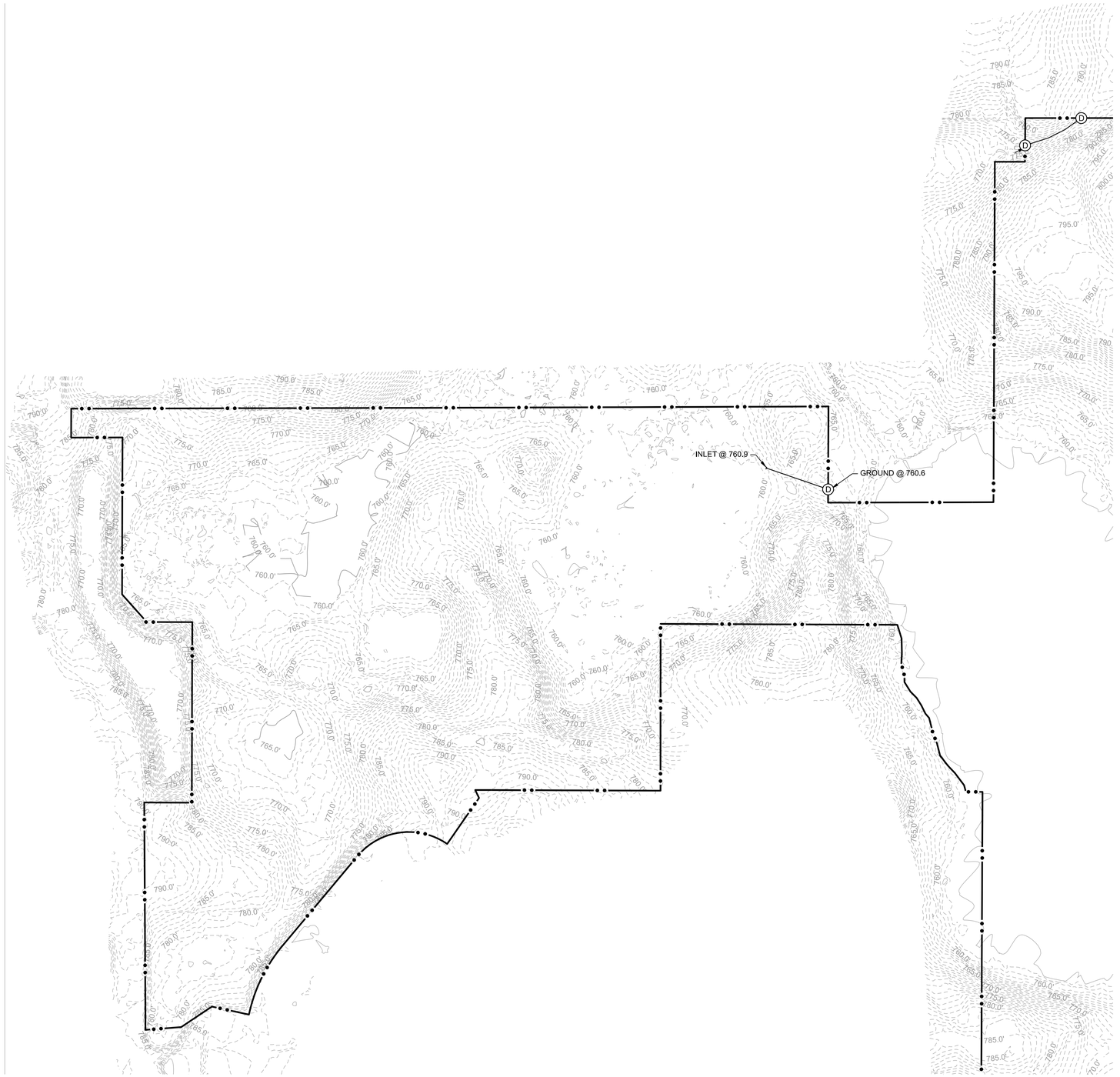
ECOSYSTEM RESTORATION DETAILS

SHEET ID

CE501

CERTIFIED FINAL DOCUMENTS - RTA

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PD: 12:15:05 PM 4/7/2026



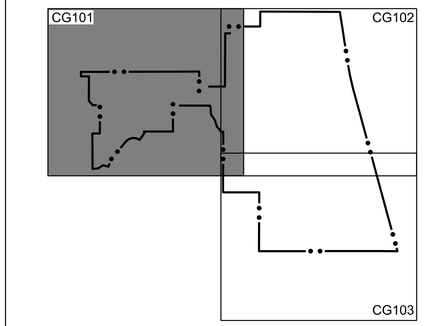
A1 PROJECT CIVIL GRADING PLAN 1

SCALE: 1"=200'

GRADING NOTES:

1. ALL STREAM GRADING ACTIVITIES AND GROUND DISTURBING WORK WITHIN WETLANDS MUST NOT OCCUR BETWEEN MARCH 1- OCTOBER 31, UNLESS APPROVED BY THE COR.
2. PRIOR TO COMMENCING WORK IN THE EXISTING CHANNEL, SUBMIT EXCAVATION PLAN DETAILING THE SEQUENCE OF CONSTRUCTION AND TEMPORARY MEASURES FOR IN-CHANNEL WORK.
3. EARTHWORK AND EXCAVATION MUST BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 31 00 00.
4. REFER TO SHEETS V-102 TO V-104 FOR WORK LIMIT COORDINATES.
5. LOCATIONS OF IN-STREAM FEATURES ARE APPROXIMATE. SUBMIT PROPOSED LOCATIONS PER SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION.
6. SEE SHEET CE-501 FOR IN-STREAM FEATURES DETAILS.
7. EXCESS EXCAVATED MATERIAL NOT USED WILL BE PLACED ON DESIGNATED SPOIL PILE AREA.

CIVIL GRADING KEY MAP



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L. NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CG101.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL GRADING PLAN 1

SHEET ID
CG101

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PD: 12:15:39 PM 4/7/2026



GRADING NOTES:

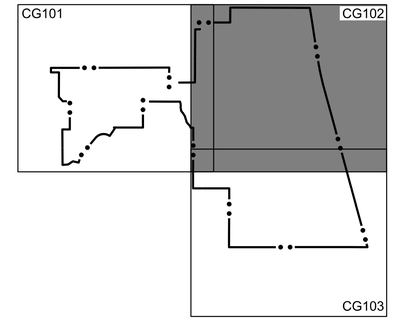
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PLAN NORTH

0 200' 400'

A1 PROJECT CIVIL GRADING PLAN 2
SCALE: 1"=200'

CIVIL GRADING KEY MAP



NORTH

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
L. NAVARRO	APRIL 2026
DRAWN BY:	SOLICITATION NO.:
A. WILLIAMS	W912P62-25-R-A009
CHECKED BY:	CONTRACT NO.:
L. VANDEN BERG P.E.	TBD
SUBMITTED BY:	PROJECT ID:
VANDEN BERG P.E.	444304-66C9B7
SIZE:	FILE NAME:
ANSI D	444304-66C9B7-CG102.dgn

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CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL GRADING PLAN 2

SHEET ID

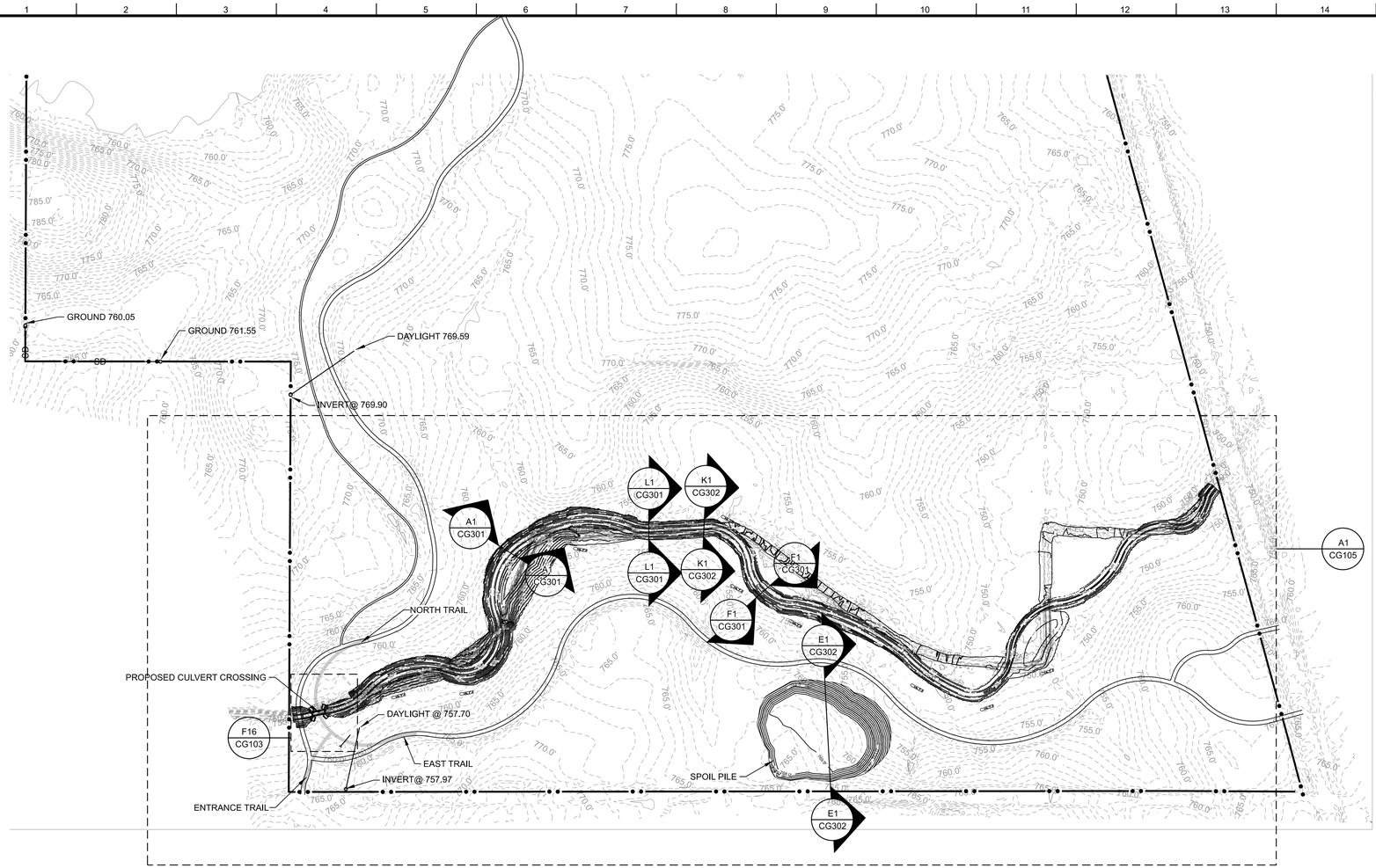
CG102

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DS: 444304-66C9B7-CG102.dgn
PD: 12:16:09 PM 4/7/2026

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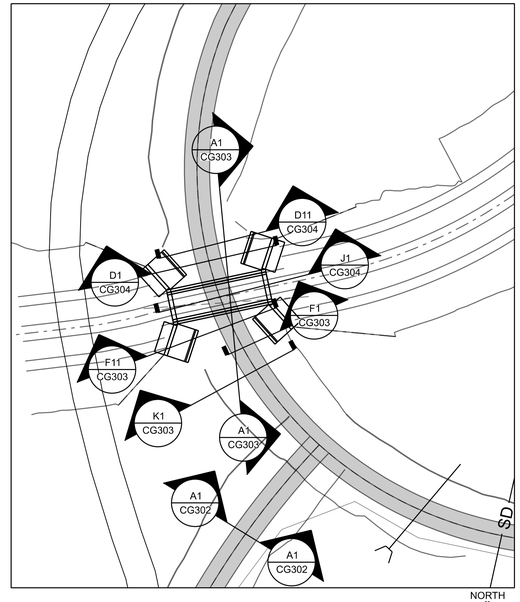
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6. SEE SHEET CE-501 FOR IN-STREAM FEATURES DETAILS.
7. EXCESS EXCAVATED MATERIAL NOT USED WILL BE PLACED ON DESIGNATED SPOIL PILE AREA.



A1 PROJECT CIVIL GRADING PLAN 3
SCALE: 1"=200'

PLAN NORTH

0 200' 400'

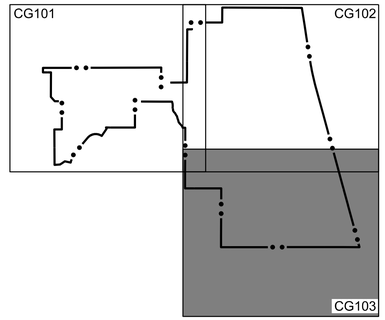


NORTH

F16 TRAIL OVER CREEK CROSSING
SCALE: 1"=30'

0 30' 60'

CIVIL GRADING KEY MAP



NORTH

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DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: VANDEN BERG P.E.
ANSI D

ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987-CG103.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

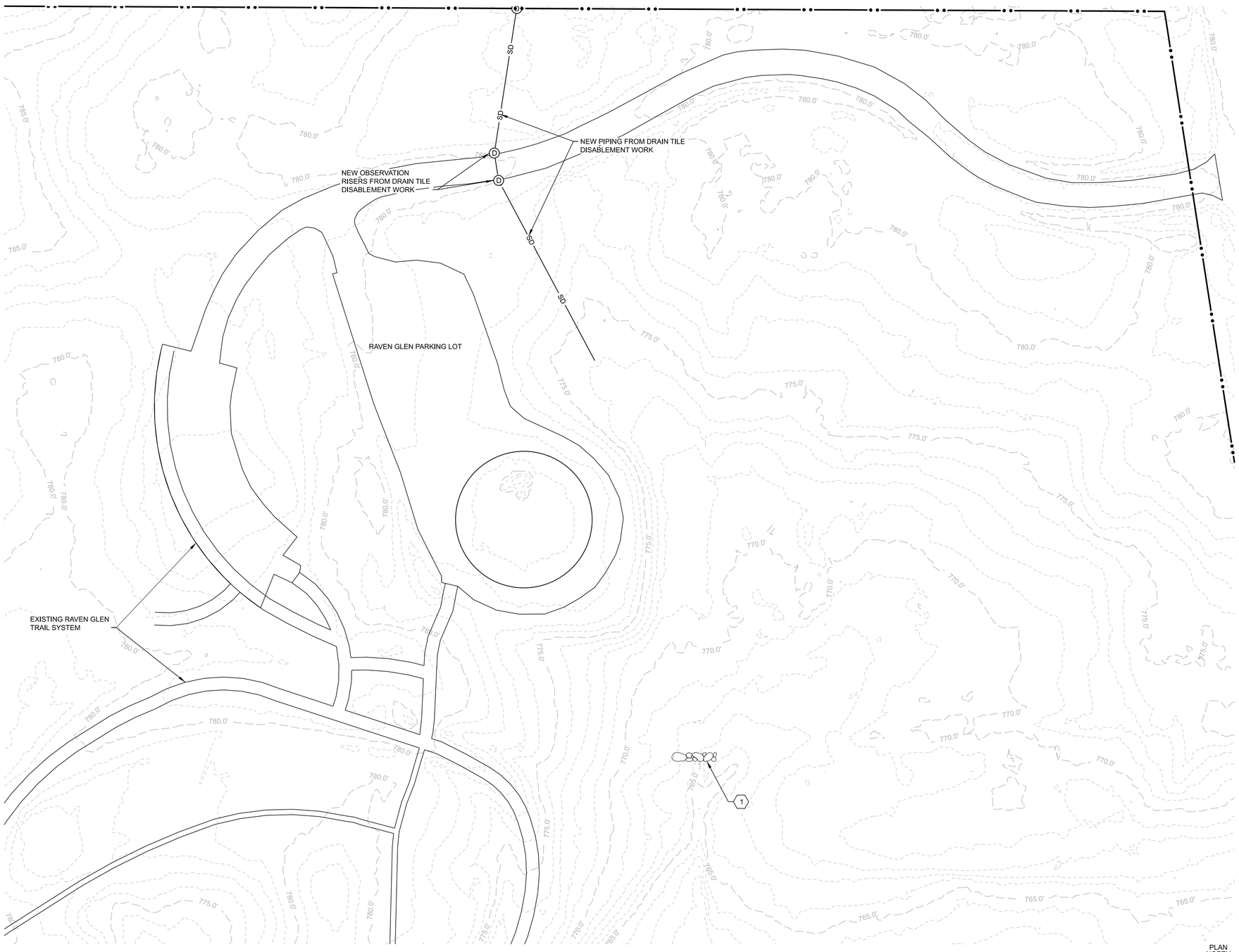
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL GRADING PLAN 3

SHEET ID
CG103

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A1 SWALE & CHANNEL GRADING PLAN 1

SCALE: 1"=50'

PLAN NORTH

0 50' 100'

SWALE & CHANNEL GRADING PLAN NOTES

1. REFER TO SHEETS V-102 TO V-104 FOR WORK LIMIT COORDINATES.
2. LOCATIONS OF IN-STREAM FEATURES ARE APPROXIMATE. SUBMIT PROPOSED LOCATIONS PER SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION.
3. SEE SHEET CE-501 FOR IN-STREAM FEATURES DETAILS.

SHEET KEYNOTES

1. INSTALL ROCK CHECK DAM PER DETAIL A1 AND D1 ON SHEET CD-502.

LEGEND

- PROPOSED MAJOR CONTOURS EVERY 5'
- PROPOSED MINOR CONTOURS EVERY 1'
- EXISTING MAJOR CONTOURS EVERY 5'
- EXISTING MINOR CONTOURS EVERY 1'
- XXX.0' ELEVATION
- EXISTING CHANNEL FILL AREA

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MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: JVANDEN BERG P.E.
SURVEY FILE NAME: 444304-66C987
ANSI D

ISSUE DATE: APRIL 2026
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CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987-CG104.dgn

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231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CHANNEL GRADING PLAN 1

SHEET ID

CG104

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SWALE & CHANNEL GRADING PLAN NOTES

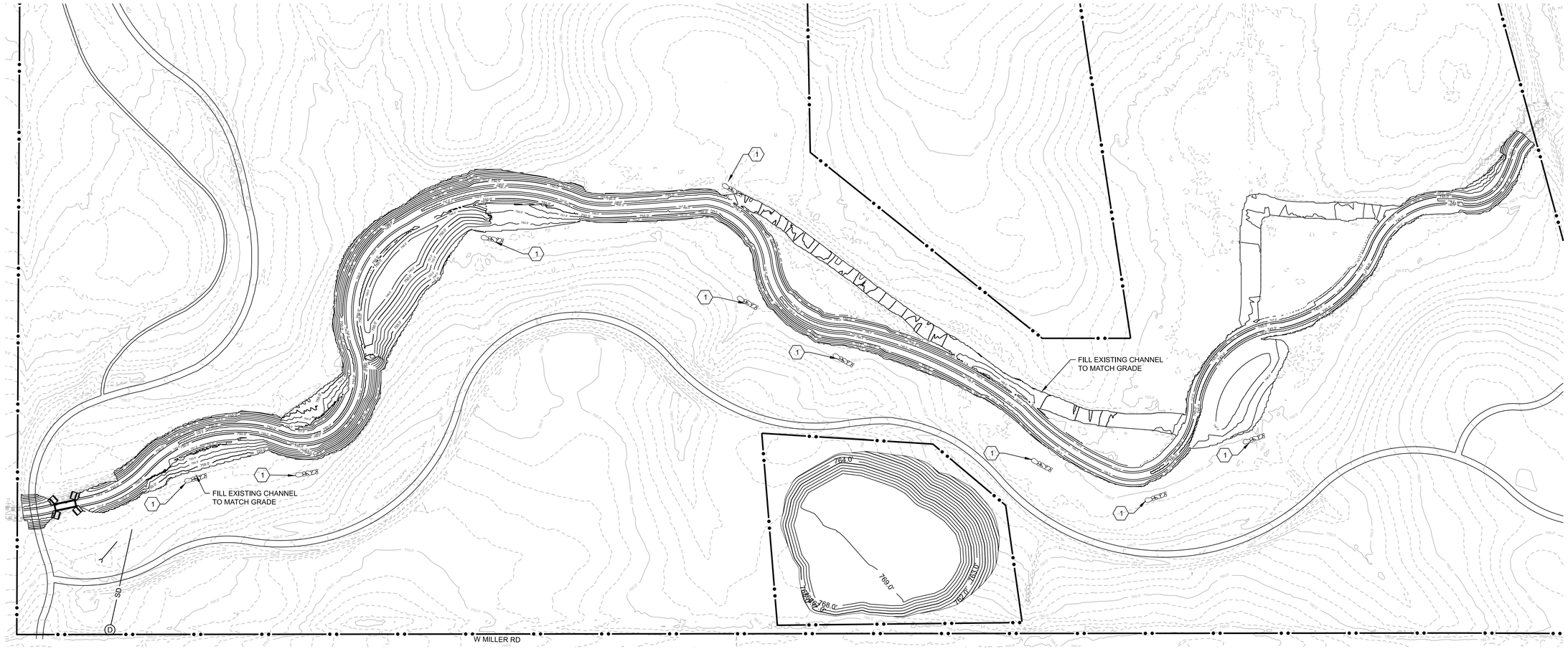
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SHEET KEYNOTES

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LEGEND

- PROPOSED MAJOR CONTOURS EVERY 5'
- PROPOSED MINOR CONTOURS EVERY 1'
- EXISTING MAJOR CONTOURS EVERY 5'
- EXISTING MINOR CONTOURS EVERY 1'
- XXX.0' ELEVATION
- EXISTING CHANNEL FILL AREA



A1 SWALE & CHANNEL GRADING PLAN 2
SCALE: 1"=100'

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MARK	DESCRIPTION	DATE

DESIGNED BY:	L NAVARRO
DRAWN BY:	A. VILLIAMS
CHECKED BY:	R. MUHAMMAD
SUBMITTED BY:	
SUZANNE BERG, P.E.	
ANSI D	

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SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C987
FILE NAME: 444304-66C987-CG105.dgn

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CHICAGO DISTRICT
231 S. LASALLE ST, SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CHANNEL GRADING PLAN 2

SHEET ID
CG105

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A1 PROJECT CIVIL GRADING PROFILE

SCALE: 1" = 20'

0 20' 40'

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DESIGNED BY: L.NAVARRO	ISSUE DATE: APRIL 2026
DRAWN BY: R. MUHAMMAD	SOLICITATION NO.: W912P62-24-R-A009
CHECKED BY: L. VANDEN BERG, P.E.	CONTRACT NO.: TBD
SUBMITTED BY: L. VANDEN BERG, P.E.	PROJECT ID: 444304-66C987
SIZE: ANSI D	FILE NAME: 444304-66C987-CG201.dgn

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CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL GRADING PROFILE 1

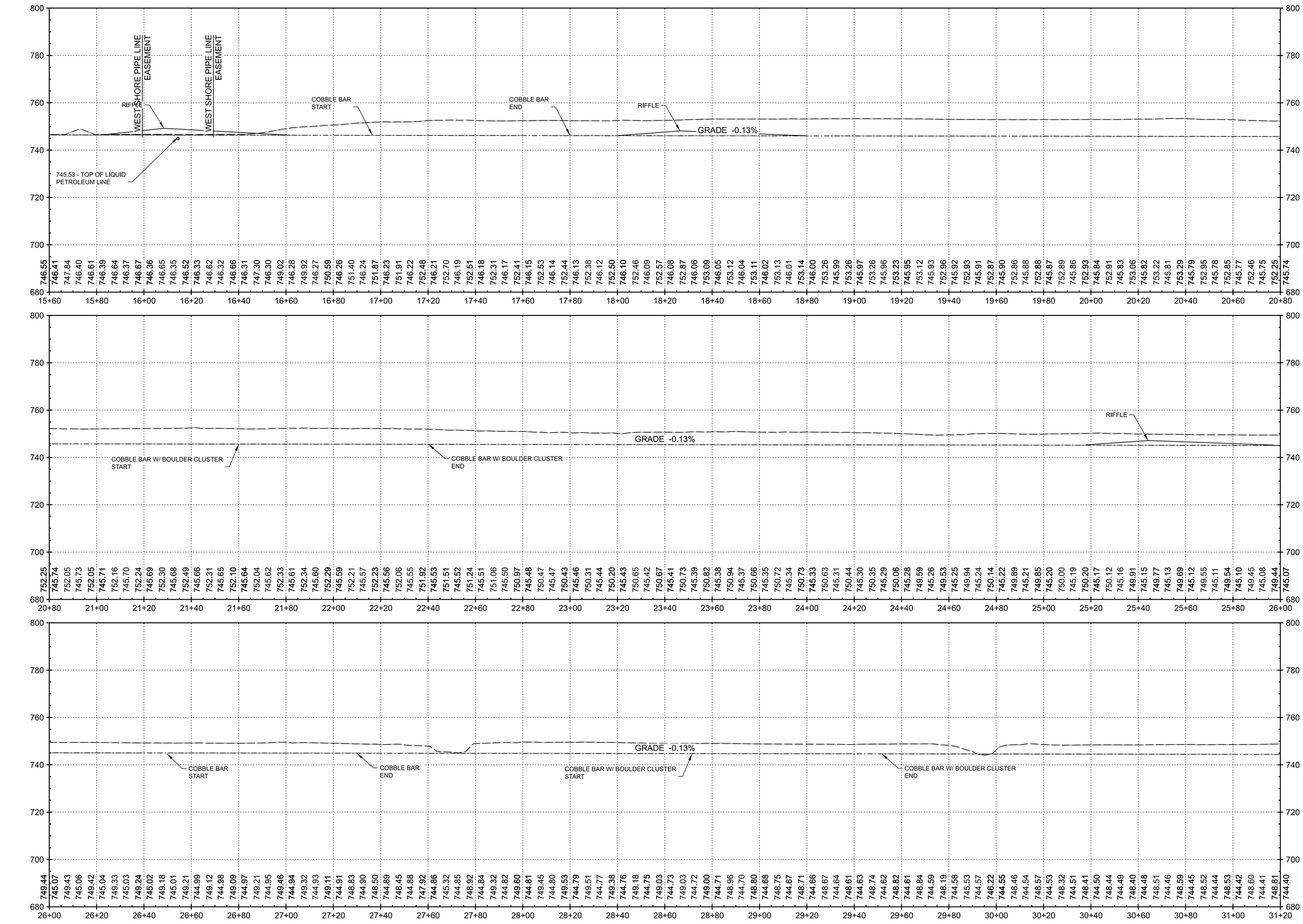
SHEET ID

CG201

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A1 PROJECT CIVIL GRADING PROFILE

SCALE: 1" = 20'

0 20' 40'

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L.NAVARRO	APRIL 2026
DRAWN BY:	SOLICITATION NO.:
R. MUHAMMAD	W912P82-25-R-A009
CHECKED BY:	CONTRACT NO.:
L. VANDEN BERG P.E.	TBD
SUBMITTED BY:	PROJECT ID:
L. VANDEN BERG P.E.	444304-66C9B7
SIZE:	FILE NAME:
ANSI D	444304-66C9B7-CG202.dgn

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CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL GRADING PROFILE 2

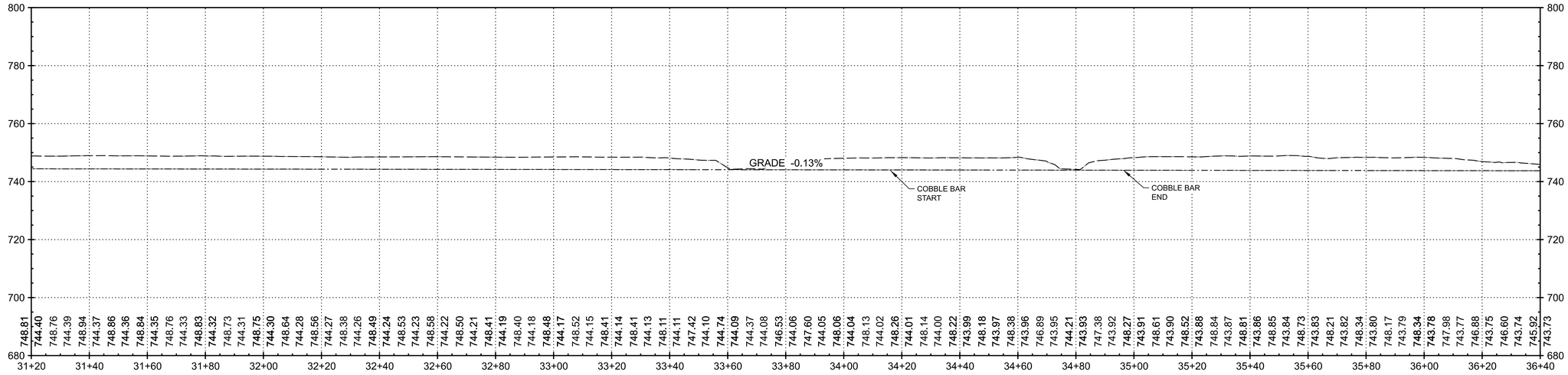
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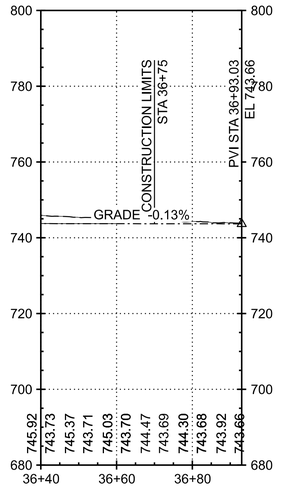
CG202

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CG202.dgn

PD: 12:18:47 PM 4/7/2026





A1 PROJECT CIVIL GRADING PROFILE
SCALE: 1" = 20'

0 20' 40'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO	ISSUE DATE: APRIL 2026
DRAWN BY: R. MUHAMMAD	SOLICITATION NO.: W912P62-25-R-A009
CHECKED BY: L. VANDEN BERG P.E.	CONTRACT NO.: TBD
SUBMITTED BY: L. VANDEN BERG P.E.	PROJECT ID: 444304-66C9B7
SIZE: ANSI D	FILE NAME: 444304-66C9B7-CG203.dgn

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CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

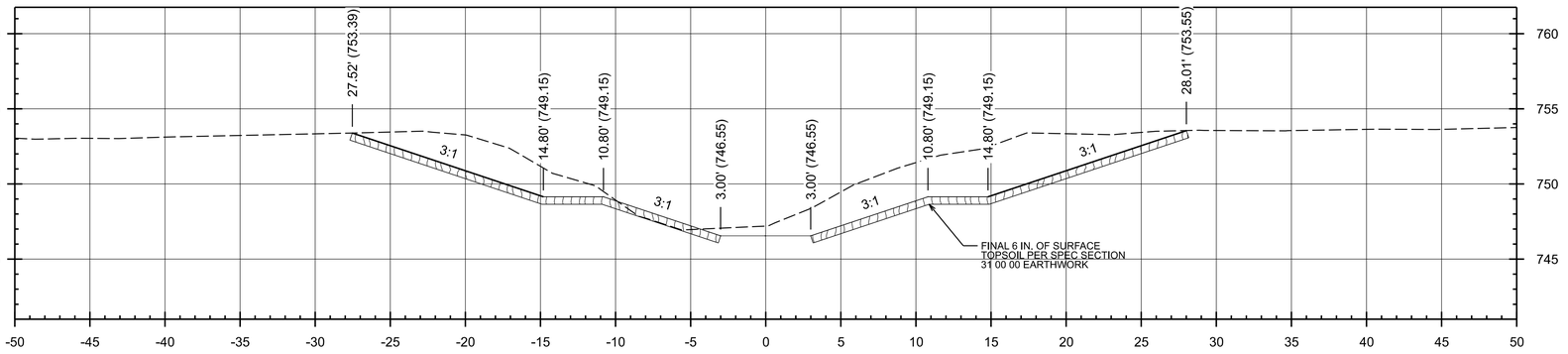
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL GRADING PROFILE 3

SHEET ID
CG203

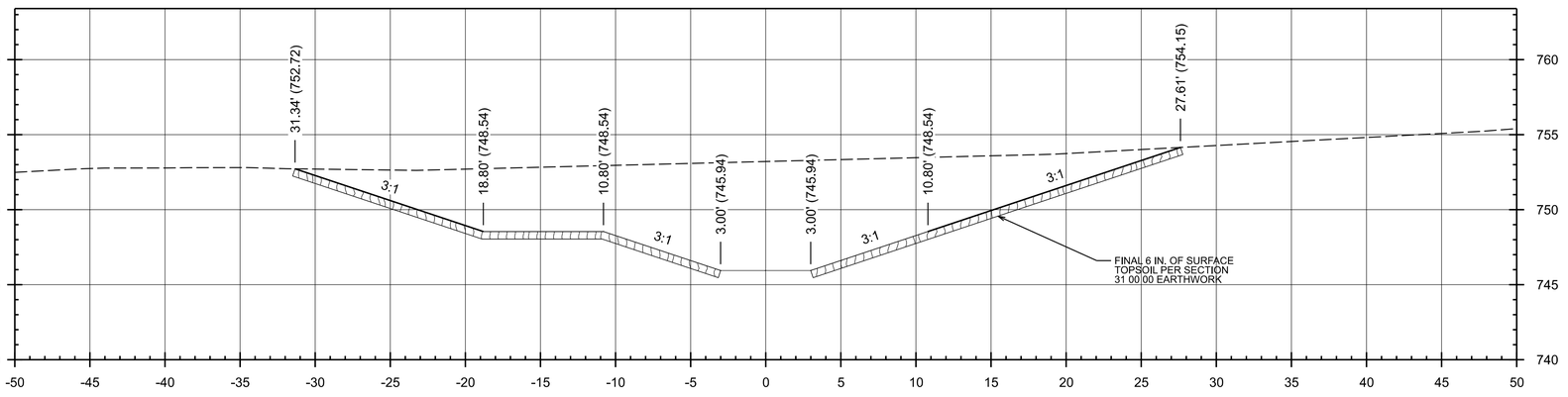
CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CG203.dgn
PD: 12:19:08 PM 4/7/2026



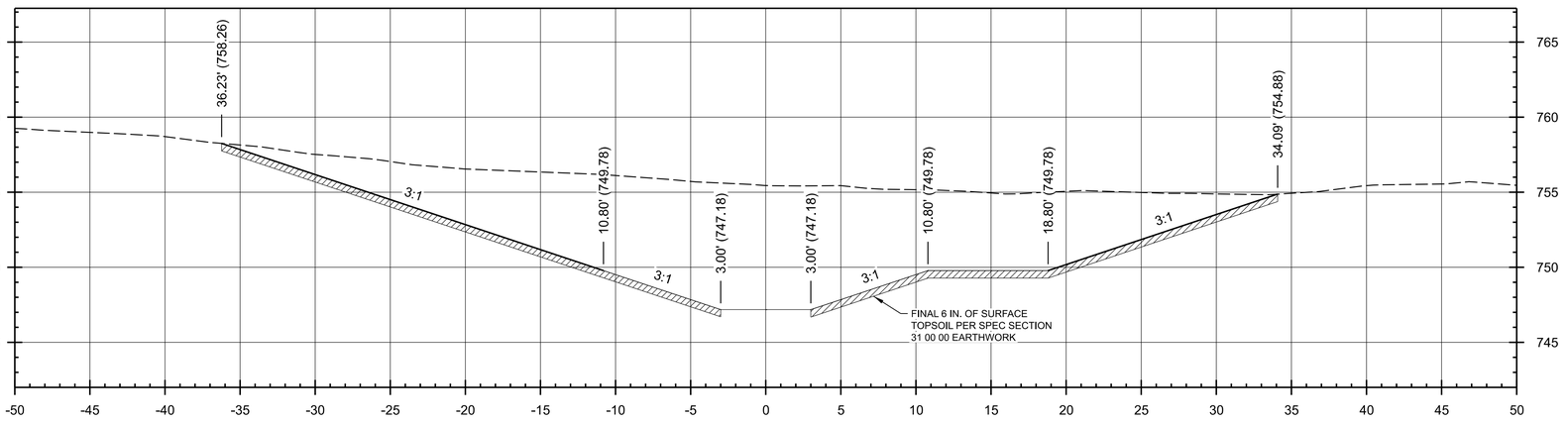
L1 TYPICAL STRAIGHT CHANNEL CROSS SECTION

SCALE: 1"=5'



F1 TYPICAL LEFT INSIDE BEND CROSS SECTION

SCALE: 1"=5'



A1 TYPICAL RIGHT INSIDE BEND CROSS SECTION

SCALE: 1"=5'

GENERAL NOTES

1. PROPOSED SWALES ARE LOCATED ON TOP OF EXISTING DRAIN TILES TO BE REMOVED/EXPOSED. SWALES NEAR HASTINGS CREEK TO FLOW FROM MILLER ROAD TO HASTINGS CREEK. PARKING LOT SWALE TO FLOW FROM PARKING LOT ROAD TO POND. ALL SWALES TO HAVE 4 FOOT BOTTOM, AND 10% TIE IN SLOPES.
2. TYPICAL CROSS SECTION FOR ALL SWALES IS SHOWN ON CG-301. PROFILE AND ELEVATIONS VARY BY LOCATION TO TIE INTO EXISTING ADJACENT GRADES AS SHOWN.

#	CROSS SECTION	START	STOP	LENGTH (FT)
1	STRAIGHT	0+8.06	0+62.50	54.44
2	CULVERT	0+62.50	1+15.00	52.5
3	STRAIGHT	1+15.00	1+50.00	35
4	STRAIGHT	1+50.00	3+00.00	150
				10
5	RIGHT INSIDE BEND	3+10.00	4+40.00	130
				10
6	STRAIGHT	4+50.00	5+90.00	140
				10
7	LEFT INSIDE BEND	6+00.00	7+00.00	100
				10
8	STRAIGHT	7+10.00	8+50.00	140
				10
9	RIGHT INSIDE BEND	8+60.00	12+00.00	340
				10
10	STRAIGHT	12+10.00	16+70.00	460
				10
11	RIGHT INSIDE BEND	16+80.00	17+60.00	80
				10
12	STRAIGHT	17+70.00	18+80.00	110
				10
13	LEFT INSIDE BEND	18+90.00	19+60.00	70
				10
14	STRAIGHT	19+70.00	20+90.00	120
				10
15	RIGHT INSIDE BEND	21+00.00	23+00.00	200
				10
16	STRAIGHT	23+10.00	26+40.00	330
				10
17	LEFT INSIDE BEND	26+50.00	27+40.00	90
				10
18	STRAIGHT	27+50.00	28+60.00	110
				10
19	RIGHT INSIDE BEND	28+70.00	29+40.00	70
				10
20	STRAIGHT	29+50.00	31+00.00	150
				10
21	LEFT INSIDE BEND	31+10.00	32+20.00	110
				10
22	STRAIGHT	32+30.00	33+50.00	120
				10
23	RIGHT INSIDE BEND	33+60.00	34+50.00	90
				10
24	STRAIGHT	34+60.00	35+20.00	60
				10
25	LEFT INSIDE BEND	35+30.00	35+70.00	40
				10
26	STRAIGHT	35+80.00	36+60.00	80
	TOTAL LINEAR LENGTH			3651.94

D17 TYPICAL SECTION REACHES

SCALE: NTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CG-301.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

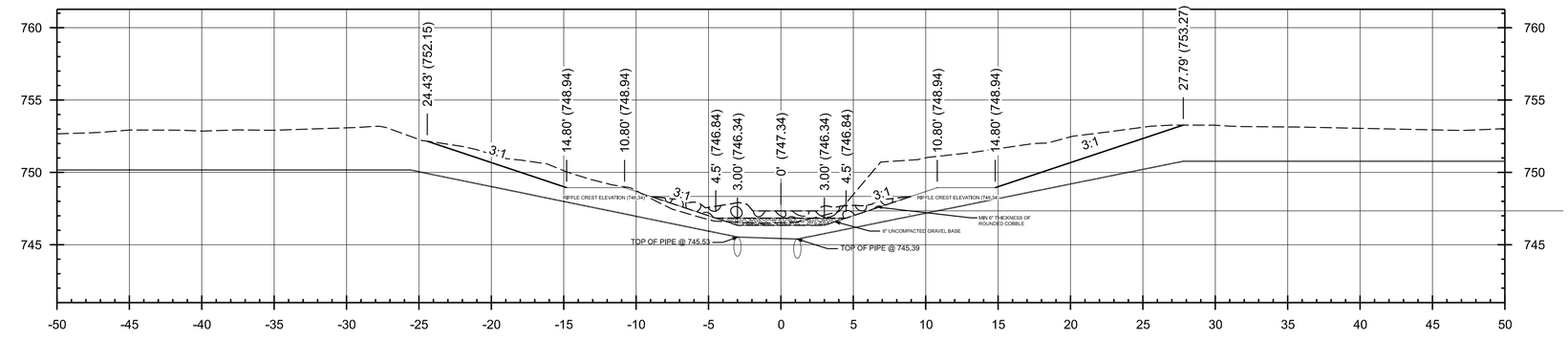
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION SECTION PLAN 1

SHEET ID
CG301

CERTIFIED FINAL DOCUMENTS - RTA

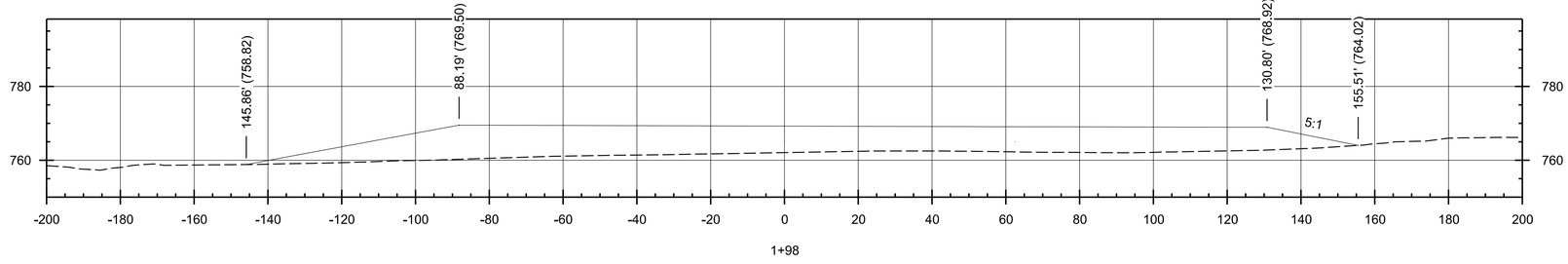
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K1 TYPICAL GAS EASEMENT CROSS SECTION

SCALE: 1"=20'

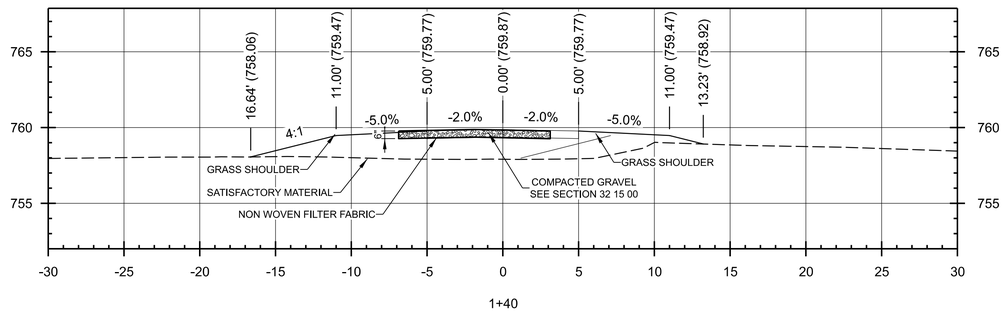
0 20' 40'



E1 SPOIL PILE CROSS SECTION

SCALE: 1"=20'

0 20' 40'



A1 TYPICAL TRAIL CROSS SECTION - SOUTH TRAIL

SCALE: 1"=5'

0 5' 10'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P82-24-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
ESG P.E. NAME:	444304-66C9B7-CG-302.dgn
ANSI D	

DESIGNED BY:	L.NAVARRO
DRAWN BY:	A. WILLIAMS
CHECKED BY:	L. VANDEN BERG P.E.
SUBMITTED BY:	L. VANDEN BERG P.E.
SIZE	FILE NAME
E	444304-66C9B7-CG-302.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST, SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION SECTION PLAN 2

SHEET ID

CG302

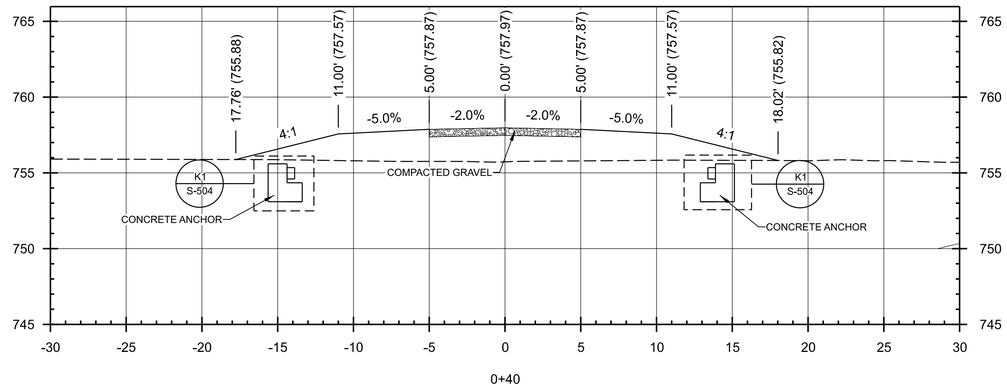
CERTIFIED FINAL DOCUMENTS - RTA

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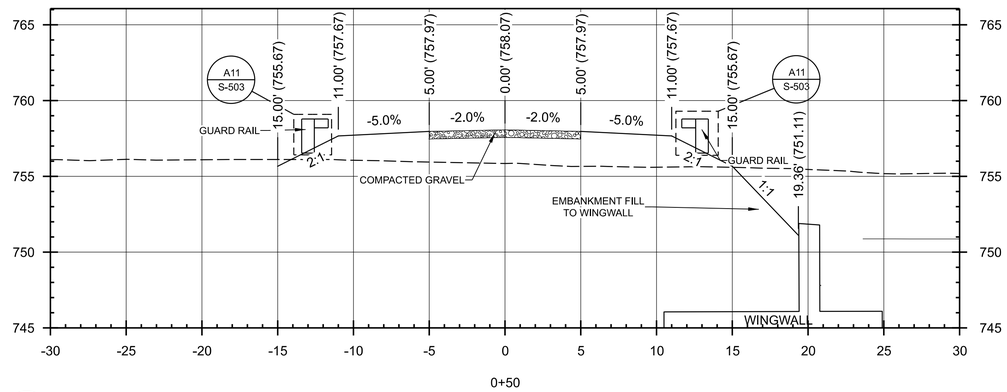
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GENERAL NOTES

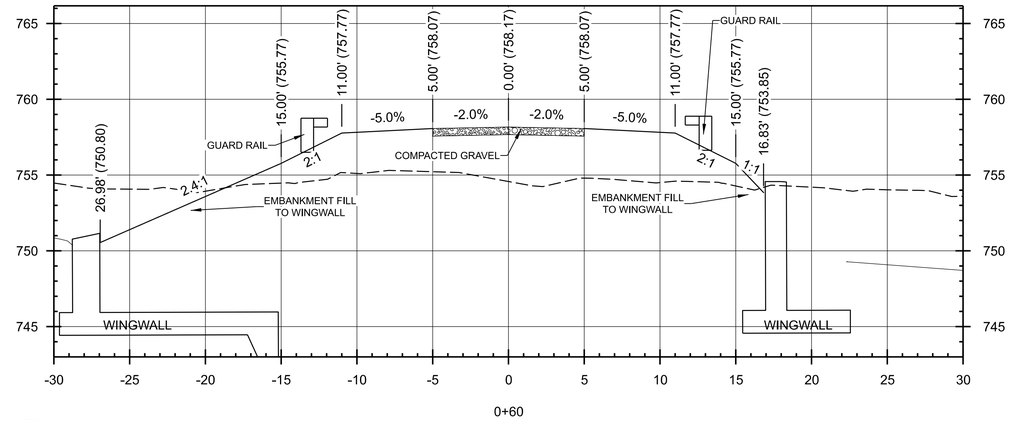
1. TRAIL CROSS SECTIONS CUT FROM "NORTH TRAIL ALIGNMENT" . SEE SHEET C-002 FOR ALIGNMENT STATIONING AND LOCATION.
2. TRAIL CROSS SECTIONS ARE CUT PERPENDICULAR TO TRAIL ALIGNMENT. CULVERT AND WINGWALLS ARE SHOWN SKEWED DUE TO FEATURES NOT BEING PERPENDICULAR TO THE TRAIL ALIGNMENT. SEE STRUCTURAL SHEETS FOR CULVERT AND WINGWALL DIMENSIONS.
3. EMBANKMENT FILL AREAS MUST BE SEEDED IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 19.10 NATIVE PLANTS



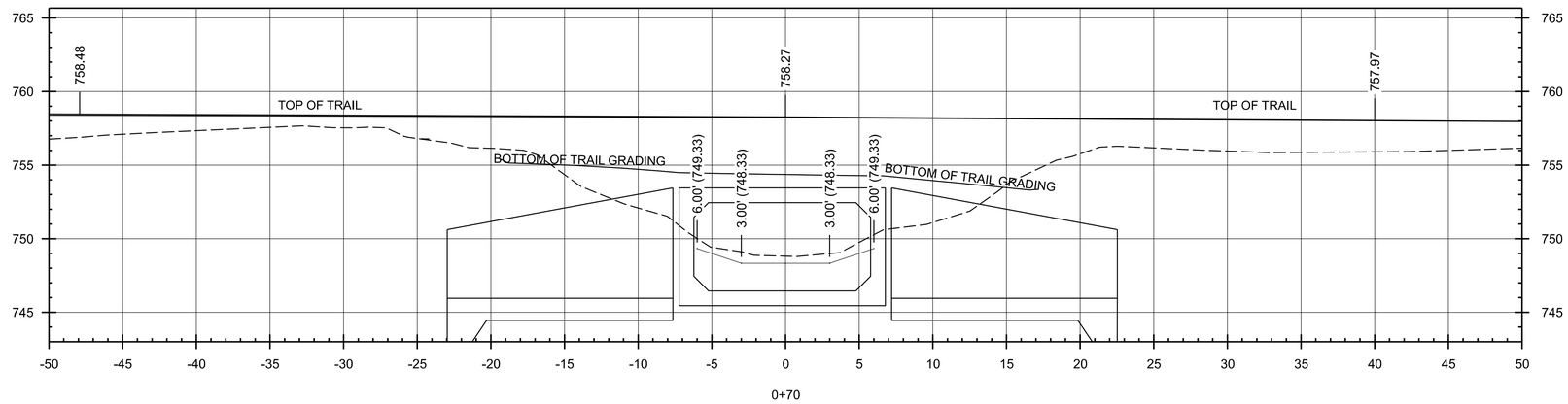
K1 TRAIL OVER CULVERT SECTION 1
SCALE: 1"=5'



F1 TRAIL OVER CULVERT SECTION 2
SCALE: 1"=5'



F11 TRAIL OVER CULVERT SECTION 3
SCALE: 1"=5'



A1 CULVERT UNDER TRAIL CROSS SECTION
SCALE: 1"=5'

MARK	DESCRIPTION	DATE

US Army Corps of Engineers®

DESIGNED BY:	L. NAVARRO
DRAWN BY:	A. WILLIAMS
CHECKED BY:	L. VANDEN BERG P.E.
SUBMITTED BY:	L. VANDEN BERG P.E.
SIZE:	ANSI D
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P82-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
FILE NAME:	444304-66C9B7-CG-303.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION SECTION PLAN 3

SHEET ID

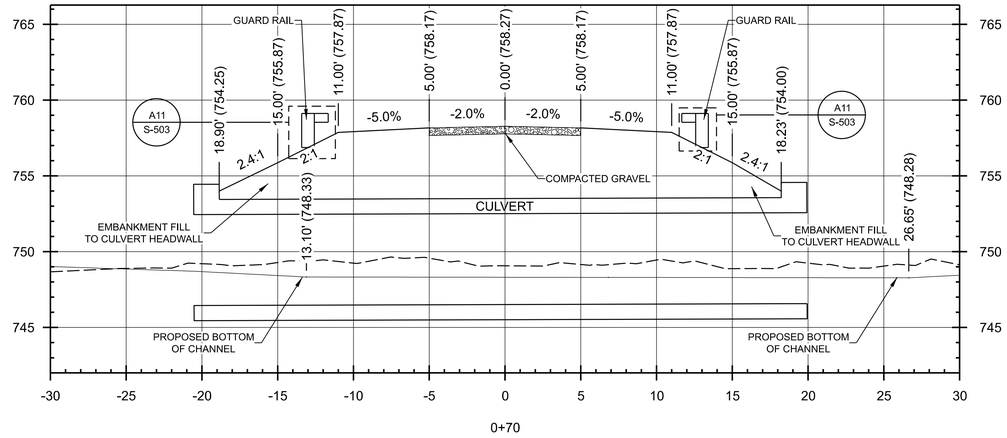
CG303

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7-CG-303.dgn
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GENERAL NOTES

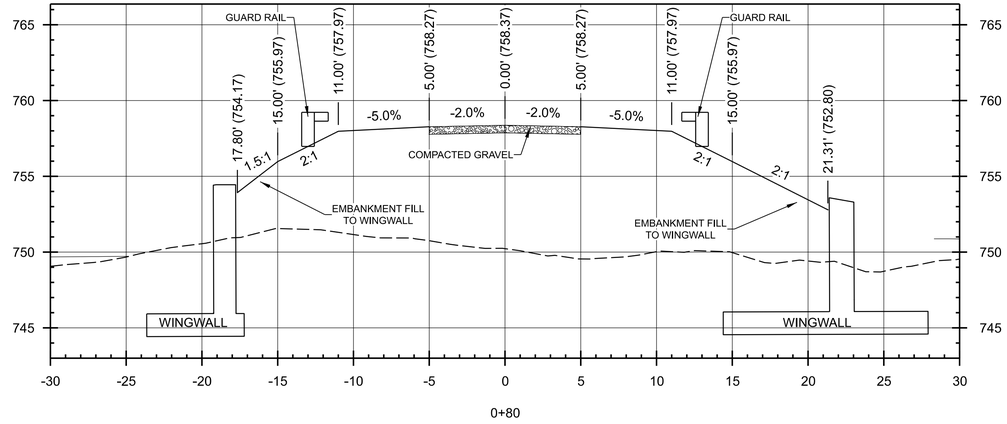
1. TRAIL CROSS SECTIONS CUT FROM "NORTH TRAIL ALIGNMENT" . SEE SHEET C-002 FOR ALIGNMENT STATIONING AND LOCATION.
2. TRAIL CROSS SECTIONS ARE CUT PERPENDICULAR TO TRAIL ALIGNMENT. CULVERT AND WINGWALLS ARE SHOWN SKEWED DUE TO FEATURES NOT BEING PERPENDICULAR TO THE TRAIL ALIGNMENT. SEE STRUCTURAL SHEETS FOR CULVERT AND WINGWALL DIMENSIONS.
3. EMBANKMENT FILL AREAS MUST BE SEEDED IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 19.10 NATIVE PLANTS



J1 TRAIL OVER CULVERT CROSS SECTION 4

SCALE: 1"=5'

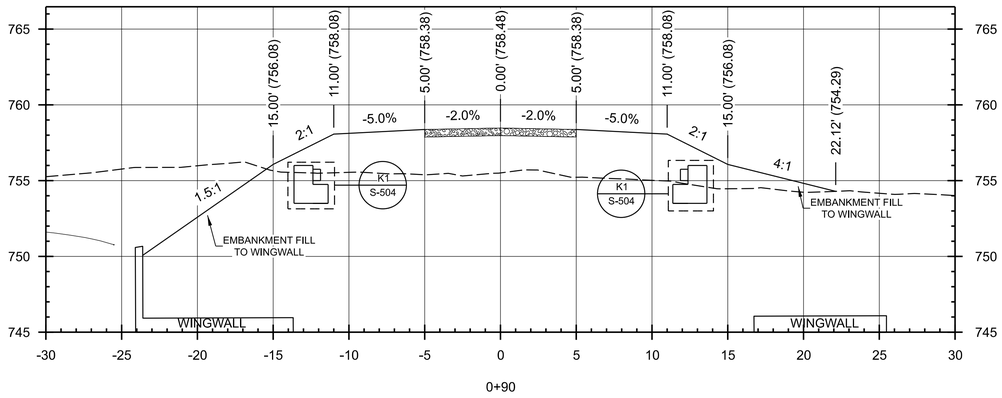
0 5' 10'



D1 TRAIL OVER CULVERT CROSS SECTION 5

SCALE: 1"=5'

0 5' 10'



D11 TRAIL OVER CULVERT CROSS SECTION 6

SCALE: 1"=5'

0 5' 10'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P82-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
ENG FILE NAME:	444304-66C9B7-CG-304.dgn

DESIGNED BY:	L.NAVARRO
DRAWN BY:	A. WILLIAMS
CHECKED BY:	L. VANDEN BERG,P.E.
SUBMITTED BY:	L. VANDEN BERG,P.E.
SIZE:	ANSI D

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

ECOSYSTEM RESTORATION SECTION PLAN 4

SHEET ID

CG304

CERTIFIED FINAL DOCUMENTS - RTA

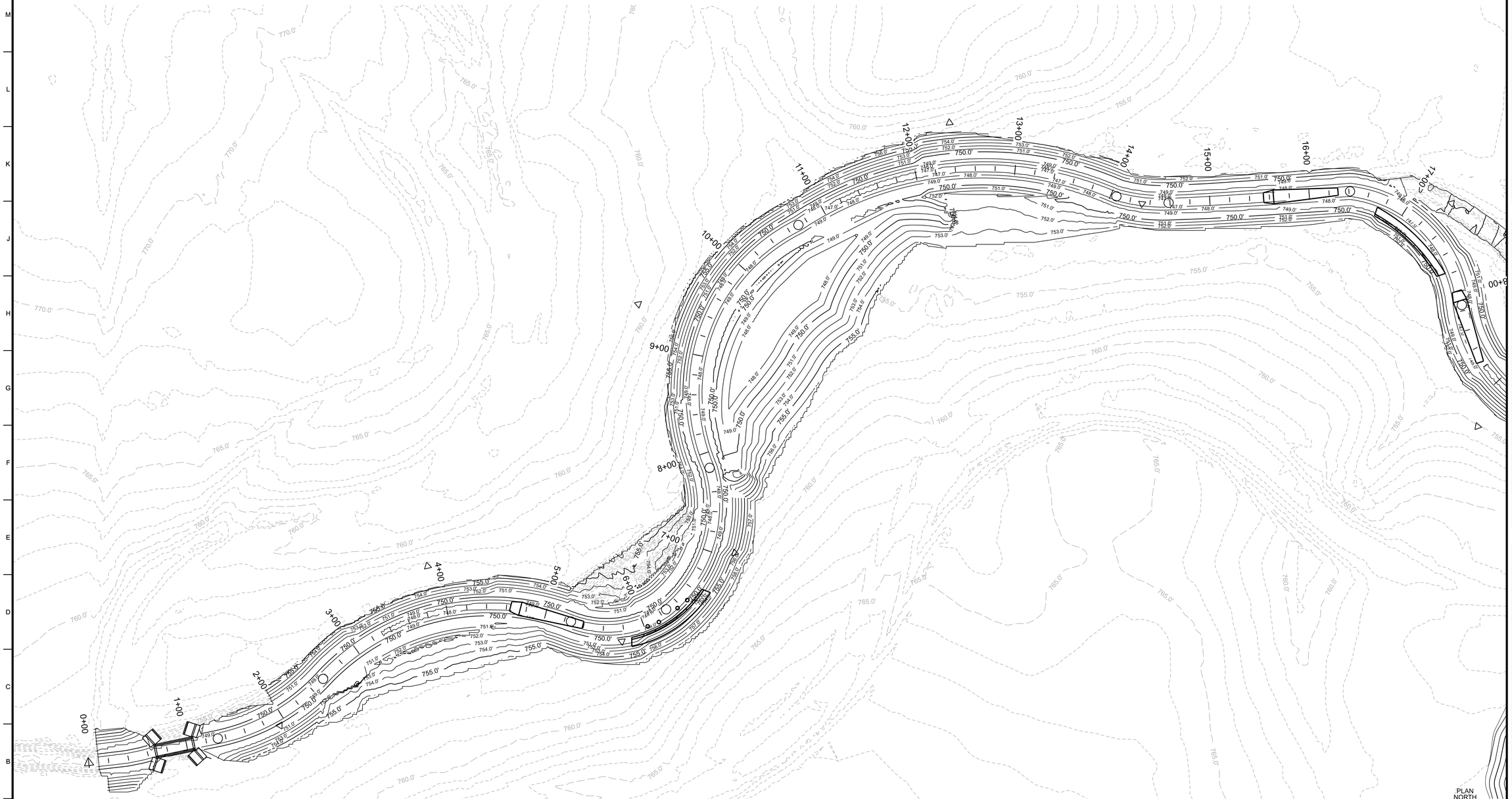
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LEGEND

- EXISTING GRADE
- ALIGNMENT LINE
- PROPOSED GRADE
- RIFFLE
- COBBLE BAR
- COBBLE BAR WITH BOULDER CLUSTER

LOCATIONS OF IN-STREAM FEATURES ARE APPROXIMATE. SUBMIT PROPOSED LOCATIONS PER SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION.



A1 PROPOSED RIFFLES AND COBBLES BARS 1

SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	ISSUE DATE:
L.NAVARRO	APRIL 2026
DRAWN BY:	SOLICITATION NO.:
A. WILLIAMS	W912P82-25-R-A009
CHECKED BY:	CONTRACT NO.:
L. VANDEN BERG P.E.	TBD
SUBMITTED BY:	PROJECT ID:
L. VANDEN BERG P.E.	444304-66C9B7
SIZE:	FILE NAME:
ANSI D	444304-66C9B7-CG401.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL ENGLARGED GRADING PLAN 1

SHEET ID

CG401

CERTIFIED FINAL DOCUMENTS - RTA

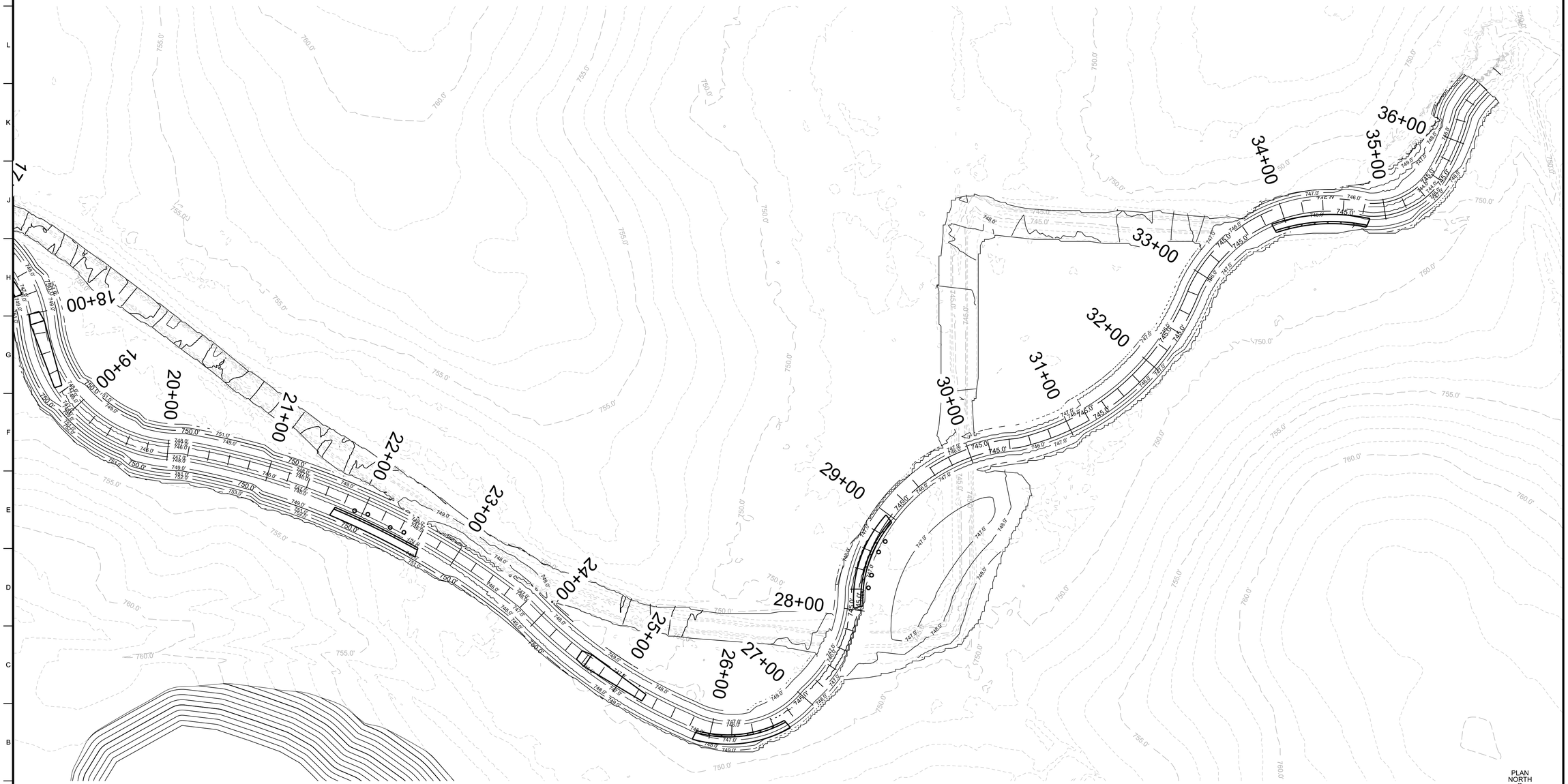
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PD: 12:21:42 PM 4/7/2026

LEGEND

- EXISTING GRADE
- ALIGNMENT LINE
- PROPOSED GRADE
- RIFFLE
- COBBLE BAR
- COBBLE BAR WITH BOULDER CLUSTER

LOCATIONS OF IN-STREAM FEATURES ARE APPROXIMATE. SUBMIT PROPOSED LOCATIONS PER SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION.



A1 PROPOSED RIFFLES AND COBBLE BARS 2

SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL ENLARGED GRADING PLAN 2

SHEET ID

CG402

DESIGNED BY:	I. NAVARRO
DRAWN BY:	A. WILLIAMS
CHECKED BY:	L. VANDEN BERG P.E.
SUBMITTED BY:	L. VANDEN BERG P.E.
SIZE:	ANSI D
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
FILE NAME:	444304-66C9B7-CG402.dgn

DS: 444304-66C9B7-CG402.dgn
PD: 12:22:13 PM 4/7/2026

CERTIFIED FINAL DOCUMENTS - RTA

LEGEND

- EXISTING GRADE
- ALIGNMENT LINE
- TOP OF CHANNEL
- BOTTOM OF CHANNEL
- RIFFLE
- COBBLE BAR
- COBBLE BAR WITH BOULDER CLUSTER

LOCATIONS OF IN-STREAM FEATURES ARE APPROXIMATE. SUBMIT PROPOSED LOCATIONS PER SPECIFICATION SECTION 31 32 39 STREAM HABITAT RESTORATION.



A1 PROPOSED RIFFLES AND COBBLE BARS 3

SCALE: 1"=50'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L. NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG, P.E.
SUBMITTED BY: L. VANDEN BERG, P.E.
SIZE: ANSI D

ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7-CG403.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

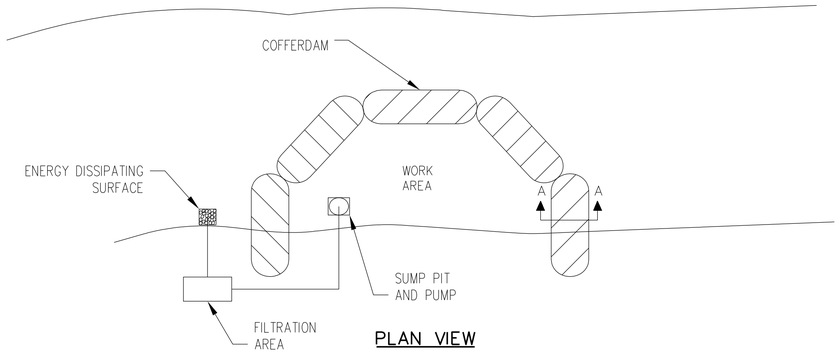
CIVIL ENLARGED GRADING PLAN 3

SHEET ID

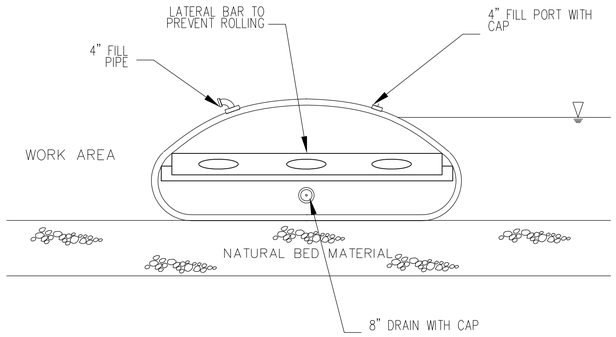
CG403

CERTIFIED FINAL DOCUMENTS - RTA

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PLAN VIEW

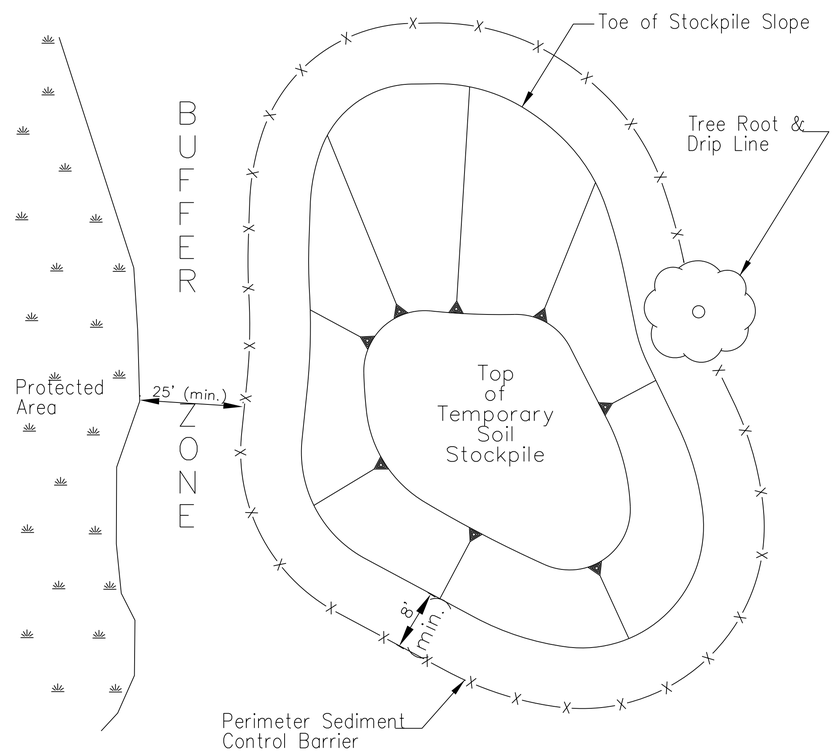


COFFERDAM PROFILE

NOTES:
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.

2. LOCATIONS FOR THE SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.

A1 BLADDER PARTIAL COFFERDAM
SCALE: NTS



NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access to the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on impervious surfaces.
7. Linear sediment trap surrounding the stockpile base may be used to control sediment.

A12 TEMPORARY SOIL STOCKILE
SCALE: CUSTOM 1:24.576958

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L.VANDEN BERG P.E.
ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-68C9B7
FILE NAME: 444304-68C9B7-CG-501.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

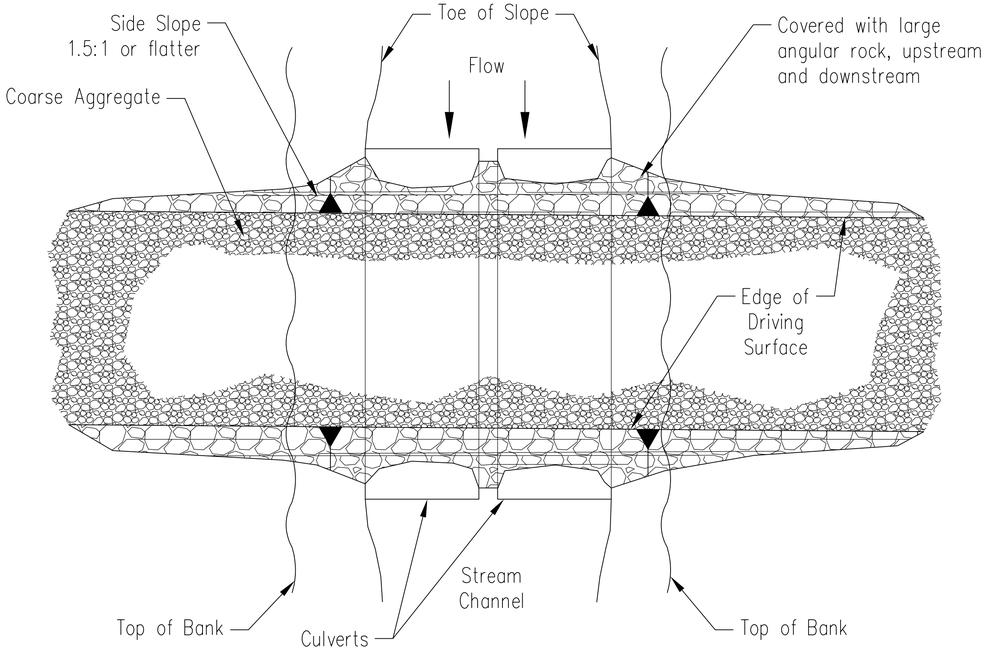
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL PROPOSED ECOSYSTEM FEATURES DETAILS 1

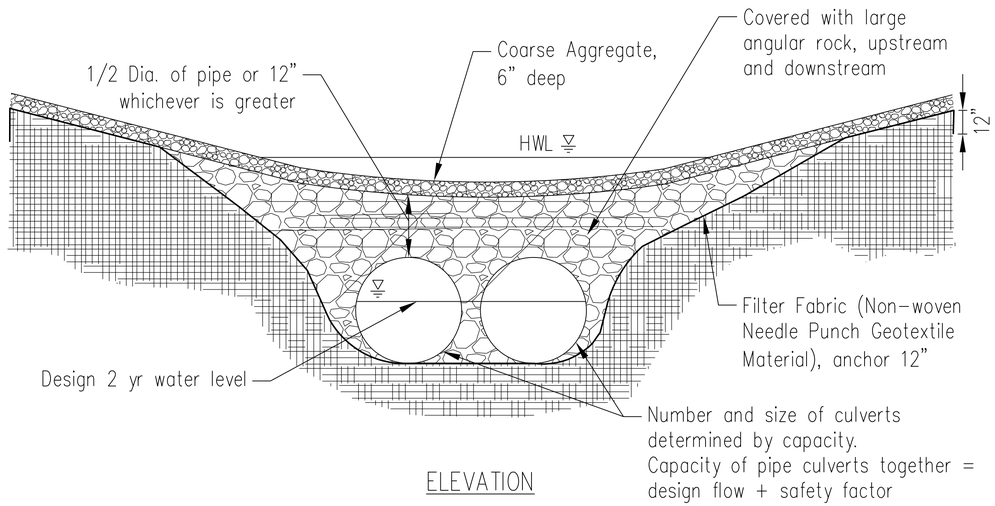
SHEET ID
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CERTIFIED FINAL DOCUMENTS - RTA

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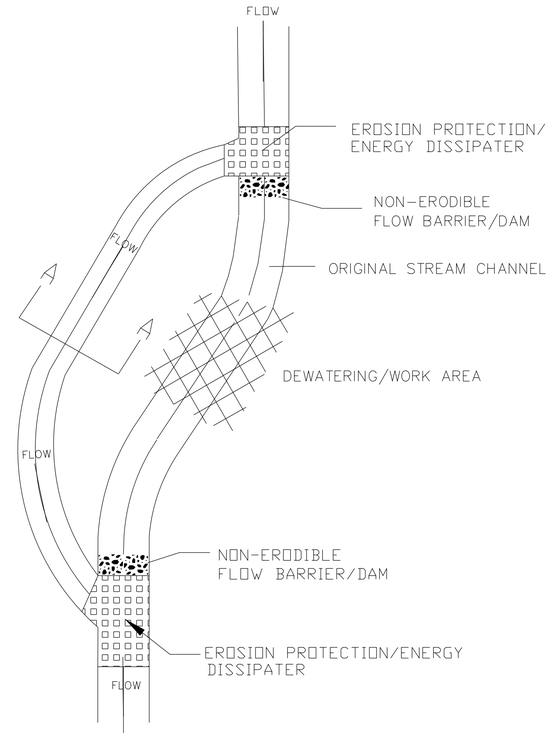
PLAN



ELEVATION

A1 TEMPORARY STREAM CROSSING

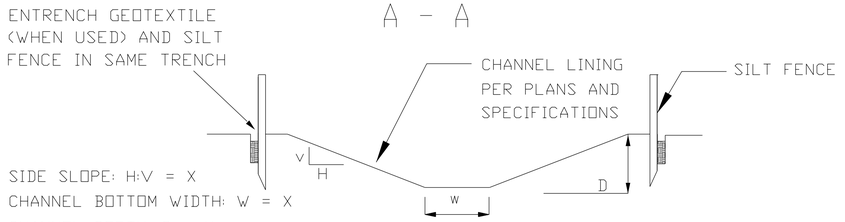
SCALE: NTS



EROSION PROTECTION/
ENERGY DISSIPATOR
DETAILS:

X

TYPICAL DIVERSION CHANNEL PLAN



TYPICAL DIVERSION CHANNEL CROSS SECTION

A12 TEMPORARY STREAM DIVERSION

SCALE: 1/2"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L.NAVARRO
DRAWN BY: R. MUHAMMAD
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-68C9B7
FILE NAME: 444304-68C9B7-CG-502.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

CIVIL PROPOSED ECOSYSTEM FEATURES DETAILS 2

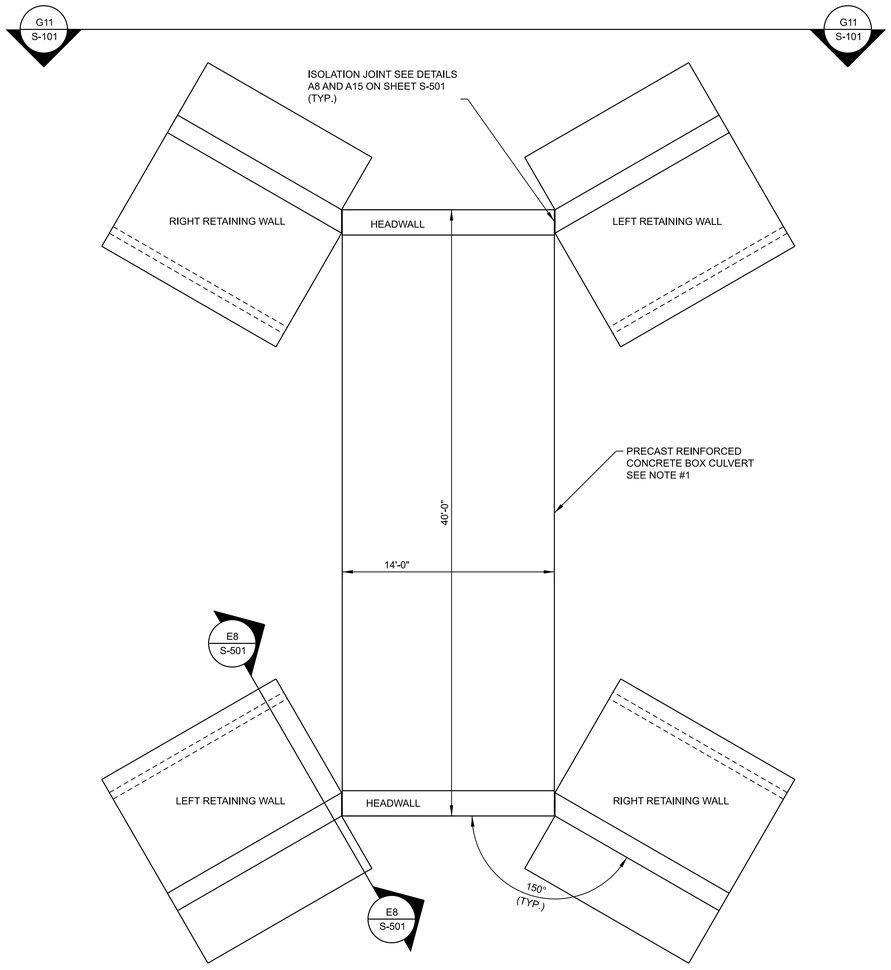
SHEET ID
CG502

CERTIFIED FINAL DOCUMENTS - RTA

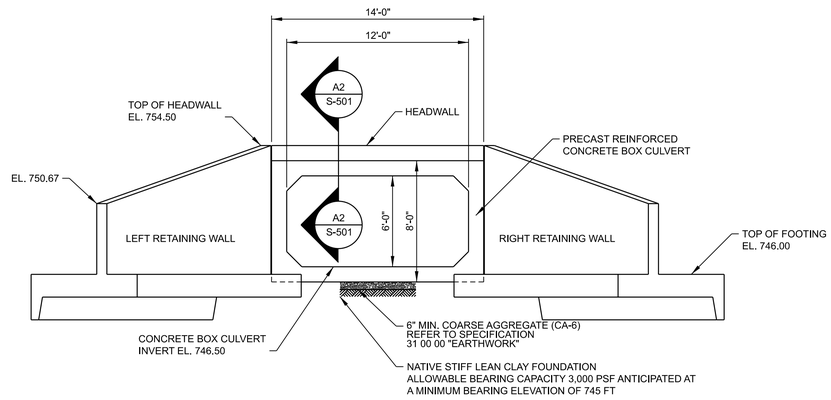
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PD: 12:23:16 PM 4/7/2026

GENERAL SHEET NOTES

1. CONTRACTOR MUST SUPPLY AND INSTALL THE PRECAST REINFORCED CONCRETE BOX CULVERT ACCORDING TO SPECIFACTION 33 40 00 "STORMWATER UTILITIES"
2. REFER TO CIVIL SHEETS FOR LOCATION AND ELEVATION OF BOX CULVERT AND RETAINING WALLS
3. EMBED CULVERT AT LEAST 42 INCHES BELOW GROUND FOR FROST PROTECTION



C2 BOX CULVERT PLAN VIEW
SCALE: 1"=5'
0 2' 6" 5' 0" 10' 0"



G11 BOX CULVERT ELEVATION
SCALE: 1"=5'
0 2' 6" 5' 0" 10' 0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	N. MCLEMORE
DRAWN BY:	A. WILLIAMS
CHECKED BY:	R. MUHAMMAD
SUBMITTED BY:	
SIGNATURE & P.E.	
SCALE:	AS NOTED
FILE NAME:	444304-66C9B7_S-101.dgn
ANSI D	
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P82-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

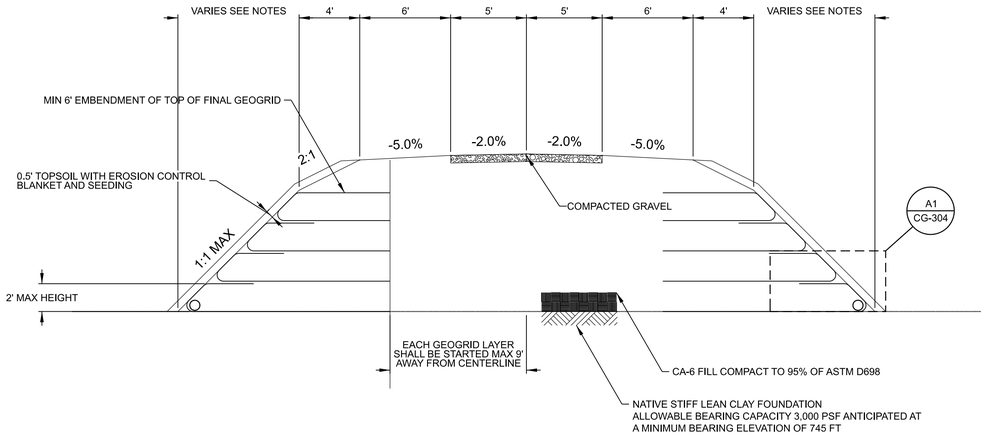
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

STRUCTURAL PLAN & ELEVATION 1

SHEET ID
S-101

CERTIFIED FINAL DOCUMENTS - RTA

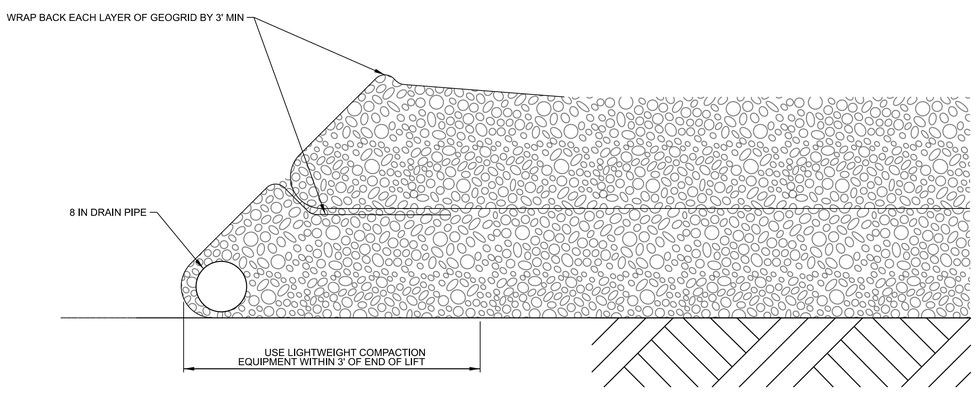
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H1 EMBANKMENT FOR CULVERT TRAIL - TYPICAL CROSS SECTION

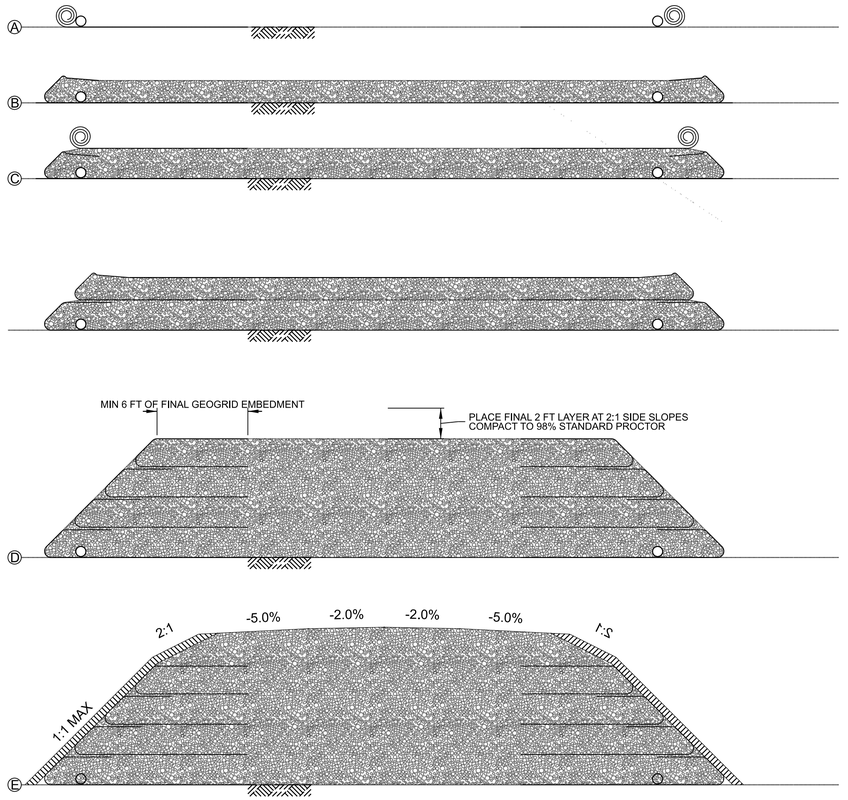
SCALE: 1"=5'

0 5' 10'



A1 DETAIL OF END TREATMENT OF WRAPPED FACE GEOGRID

N.T.S.



A11 CONSTRUCTION SEQUENCE - TYPICAL GEOGRID EMBANKMENT

N.T.S.

GENERAL NOTES

1. TYPICAL CROSS SECTIONS SHOWN INDICATE HIGHEST AND STEEPEST EMBANKMENT DESIGNED. FOLLOW GRADE AND ELEVATION IN PLANS CG-301 THROUGH CG-303. WHERE SLOPES ARE STEEPER THAN 2:1, GEOTEXTILE REINFORCED SLOPES AS SHOWN MUST BE USED.

2. CONSTRUCTION SEQUENCE OF REINFORCED SLOPE IS AS FOLLOWS. SEE DETAIL A11 FOR SEQUENCE:
   A. PLACE PRIMARY GEOGRID REINFORCEMENT ON SUBGRADE STARTING NO MORE THAN 9 FT FROM THE CENTERLINE OF THE EMBANKMENT. LEAVE SUFFICIENT GEOGRID TO WRAP THE FACE OF THE 2 FT HIGH SECTION AND EMBED INTO THE TOP OF THE SECTION A MINIMUM OF 3 FT. PLACE DRAINAGE PIPING FOR FIRST LAYER ONLY.
   B. PLACE AND COMPACT CA-6 FILL IN 6-8 INCH LIFTS TO 95% STANDARD PROCTOR. USE LIGHTWEIGHT COMPACTION EQUIPMENT FOR FINAL 3 FT ON OUTER EDGE OF EACH LIFT. WRAP OUTER EDGE OF SECTION AND SHAPE TO NECESSARY GRADIENT (SEE SHEETS CG-301 THRU CG-303 FOR PROPOSED GRADES). PLACE REMAINING MIN 3FT OF GEOGRID ONTO TOP OF SECTION AND ENSURE SUFFICIENT INTERLOCK WITH SOIL.
   C. PLACE SECOND LAYER OF GEOGRID ON TOP OF PREVIOUS SECTION, STARTING MAX 9 FT FROM THE CENTERLINE AND WITH SUFFICIENT EXTRA LENGTH TO WRAP THE FACE AND EMBED MIN 3 FT.
   D. REPEAT STEPS A THRU C UNTIL 2 FT FROM TOP OF PROPOSED EMBANKMENT. THE FINAL GEOGRID LAYER SHALL BE MINIMUM 6 FT LONG.
   E. PLACE FINAL 2 FT OF CA-6 FILL AT 2:1 SLOPE FROM EDGE, UNTIL START OF GRASS SHOULDER. COMPACT FINAL 2 FT OF CA-6 FILL TO 98% STANDARD PROCTOR.
   F. CONSTRUCT FACING OF 6 IN OF TOPSOIL AND EROSION CONTROL BLANKET.

3. EMBANKMENT FILL AREAS MUST BE SEEDED IN ACCORDANCE WITH SPECIFICATION SECTION 32 92 19.10 NATIVE PLANTS

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: L NAVARRO
DRAWN BY: A. WILLIAMS
CHECKED BY: L. VANDEN BERG P.E.
SUBMITTED BY: L. VANDEN BERG P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P62-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7_S-501.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

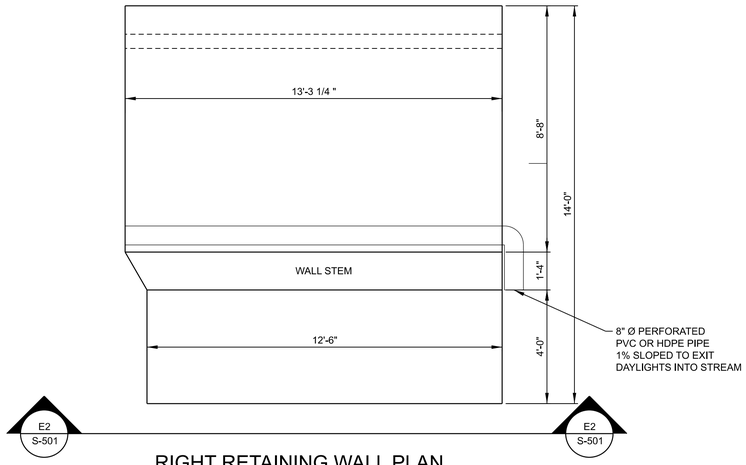
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

GEOGRID DETAILS

SHEET ID
S-501

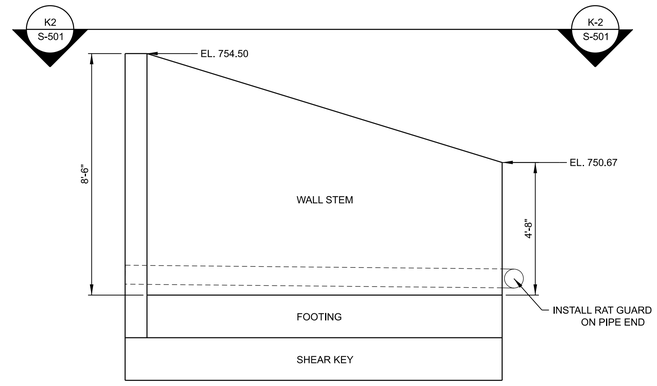
CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7_S-501.dgn
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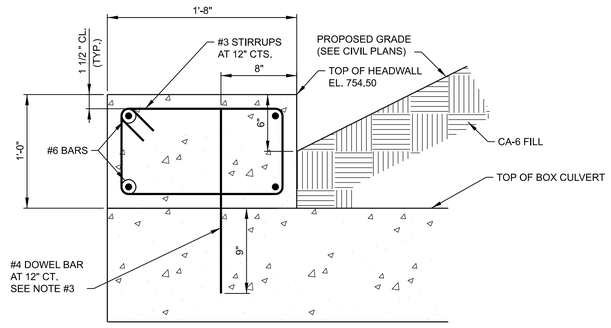
RIGHT RETAINING WALL PLAN LEFT OPPOSITE HAND

K2 SCALE: 3/8"=1'-0" 0 2' 0" 4' 0" 8' 0"



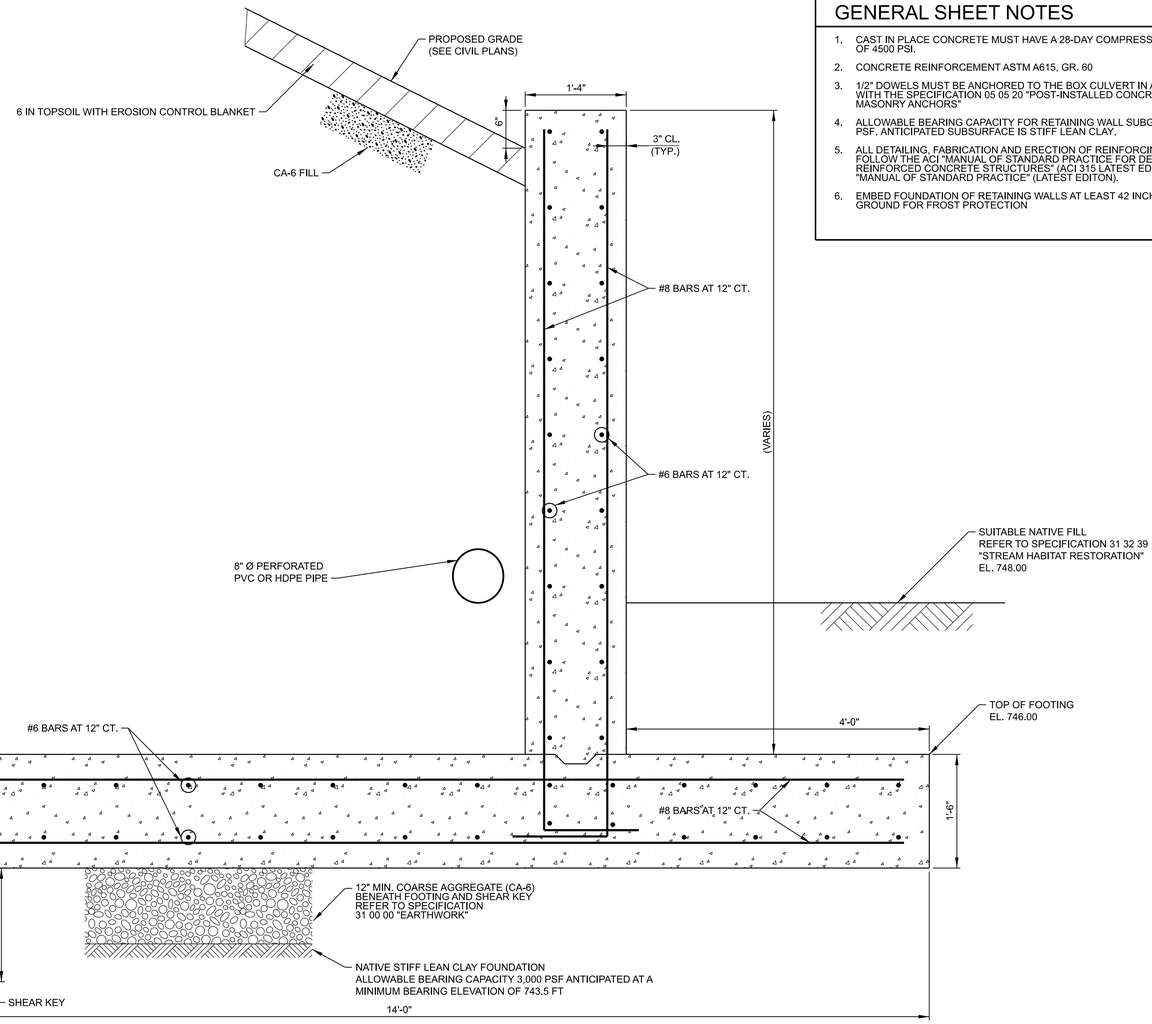
RIGHT RETAINING WALL ELEVATION LEFT OPPOSITE HAND

E2 SCALE: 3/8"=1'-0" 0 2' 0" 4' 0" 8' 0"



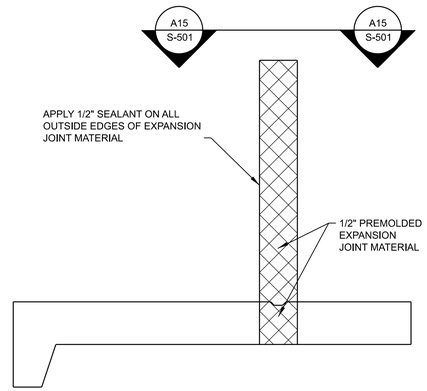
HEADWALL SECTION

A2 SCALE: 1 1/2"=1'-0" 0 6" 1' 0" 2' 0"



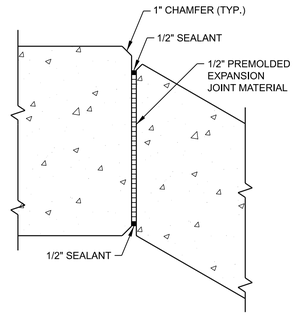
RETAINING WALL TYPICAL SECTION

E8 SCALE: 1"=1'-0" 0 6" 1' 0" 2' 0"



ISOLATION JOINT

A8 SCALE: 3/8"=1'-0" 0 2' 0" 4' 0" 8' 0"



ISOLATION JOINT SECTION

A15 SCALE: 1 1/2"=1'-0" 0 6" 1' 0" 2' 0"

GENERAL SHEET NOTES

1. CAST IN PLACE CONCRETE MUST HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI.
2. CONCRETE REINFORCEMENT ASTM A615, GR. 60
3. 1/2" DOWELS MUST BE ANCHORED TO THE BOX CULVERT IN ACCORDANCE WITH THE SPECIFICATION 05 05 20 "POST-INSTALLED CONCRETE AND MASONRY ANCHORS"
4. ALLOWABLE BEARING CAPACITY FOR RETAINING WALL SUBGRADE IS 3,000 PSF. ANTICIPATED SUBSURFACE IS STIFF LEAN CLAY.
5. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315 LATEST EDITION) AND CRSI "MANUAL OF STANDARD PRACTICE" (LATEST EDITON).
6. EMBED FOUNDATION OF RETAINING WALLS AT LEAST 42 INCHES BELOW GROUND FOR FROST PROTECTION

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: N. MCLEMORE
DRAWN BY: K. GONZALEZ
CHECKED BY: R. MUHAMMAD
SUBMITTED BY: C. JAYE LEFLER, P.E.
SIZE: ANSI D
ISSUE DATE: APRIL 2026
SOLICITATION NO.: W912P82-25-R-A009
CONTRACT NO.: TBD
PROJECT ID: 444304-66C9B7
FILE NAME: 444304-66C9B7_S-502.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

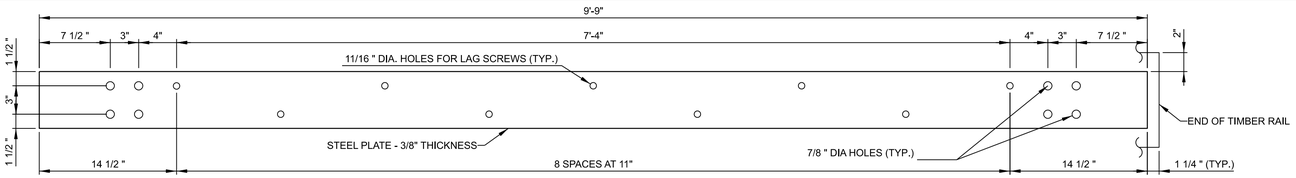
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

STRUCTURAL DOWEL DETAIL

SHEET ID
S-502

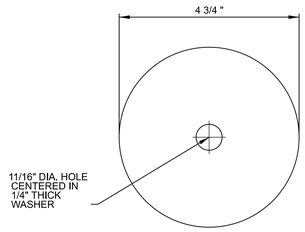
CERTIFIED FINAL DOCUMENTS - RTA

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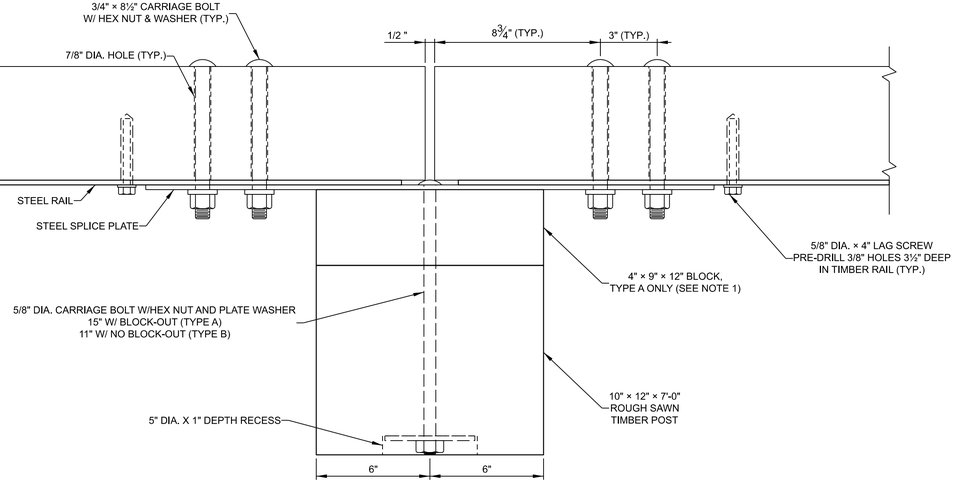
N1 STEEL RAIL

SCALE: 1 1/2"=1'-0"



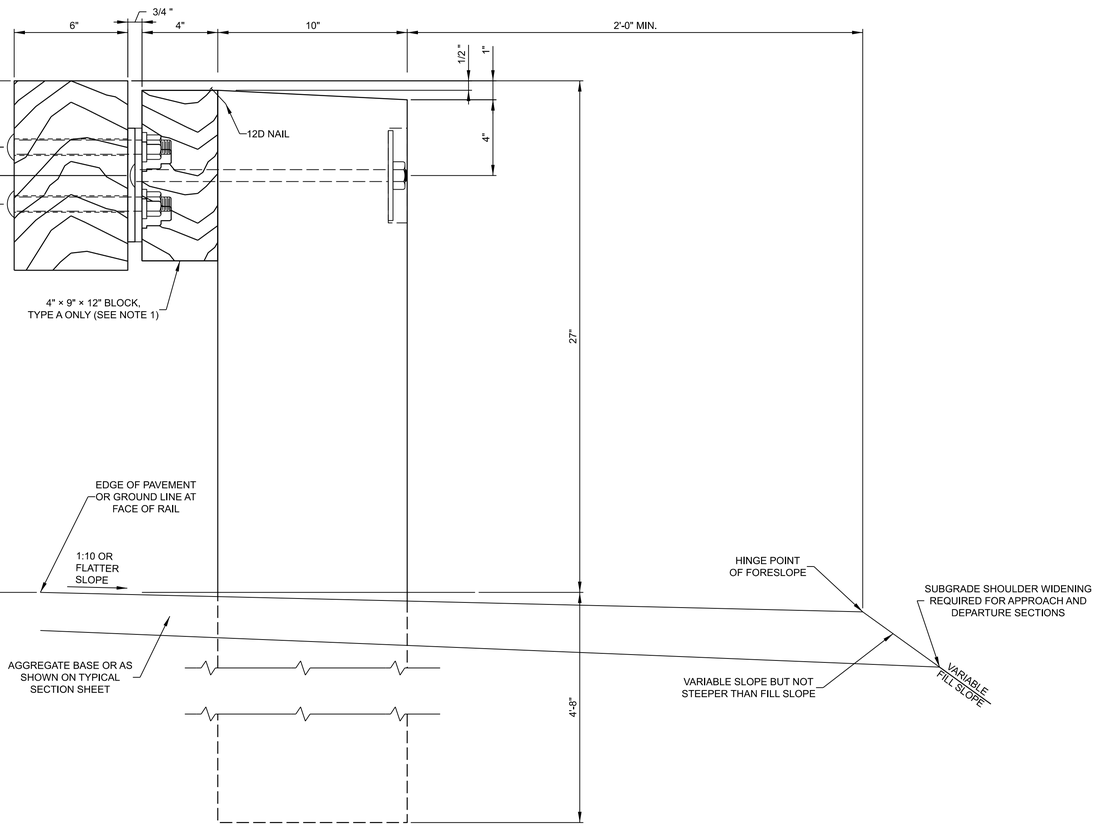
M13 PLATE WASHER

SCALE: 6"=1'-0"



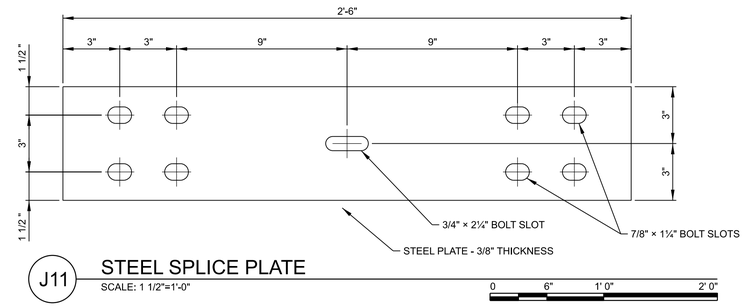
H1 POST CONNECTION - PLAN VIEW

SCALE: 3"=1'-0"



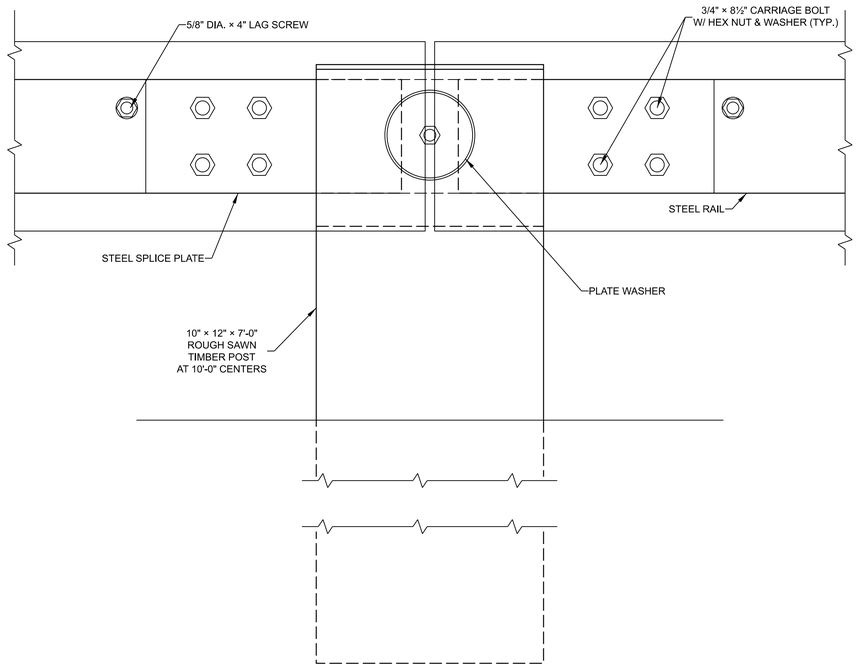
A11 TYPICAL GUARD RAIL CROSS SECTION

SCALE: 3"=1'-0"



J11 STEEL SPLICE PLATE

SCALE: 1 1/2"=1'-0"



A1 POST CONNECTION - ELEVATION VIEW

SCALE: 3"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DS: 444304-66C9B7_S-503.dgn

PD: 12:25:25 PM 4/7/2026

DESIGNED BY:	N. MCLEMORE
DRAWN BY:	A. WILLIAMS
CHECKED BY:	R. MUHAMMAD
SUBMITTED BY:	FAYE LIFFLER, P.E.
SIZE	ANSI D
FILE NAME:	444304-66C9B7_S-503.dgn
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P62-25-R-A009
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PROJECT ID:	444304-66C9B7

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

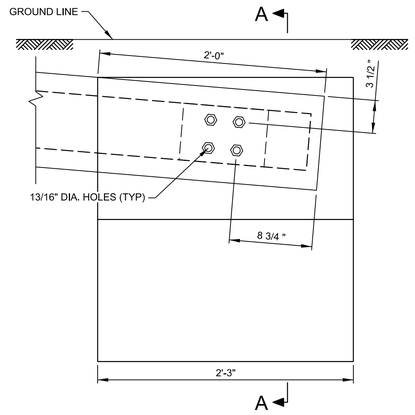
UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

STRUCTURAL GUARD RAIL DETAILS 1

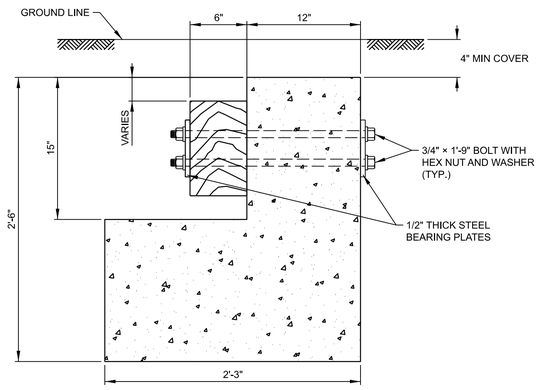
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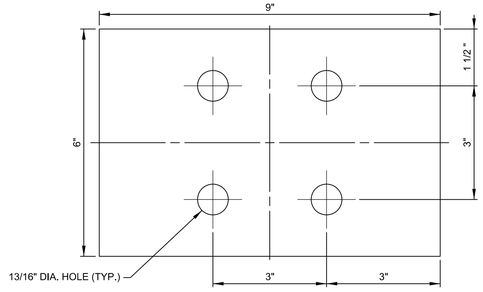
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DETAIL A



SECTION A-A



L12 STEEL BEARING PLATE

SCALE: 6"=1'-0"

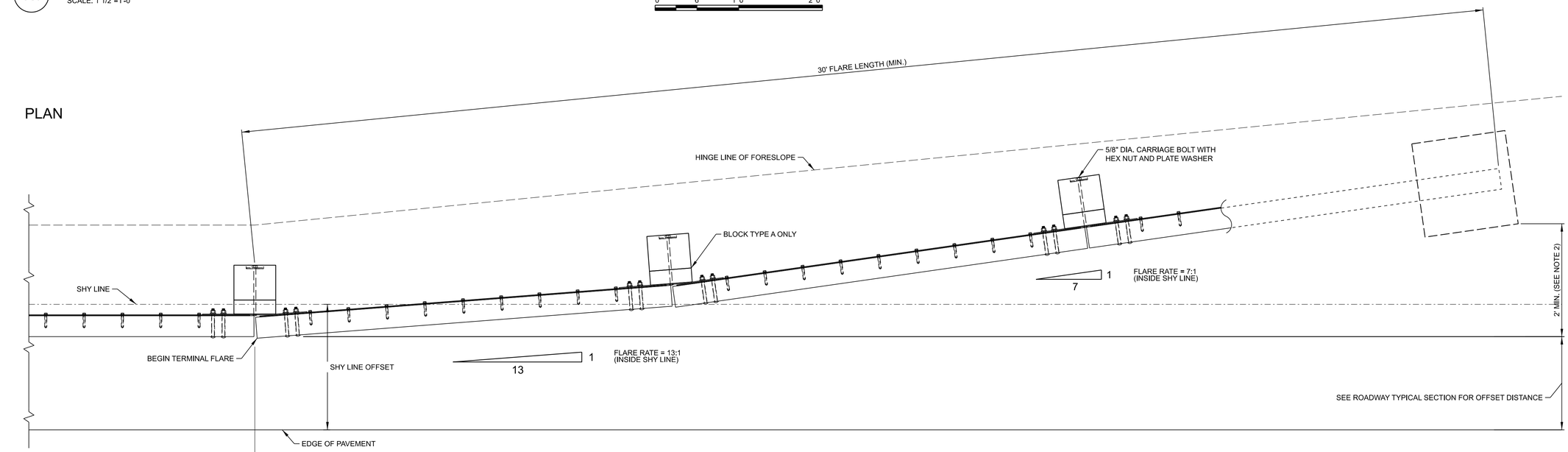
0 1 1/2" 3" 6"

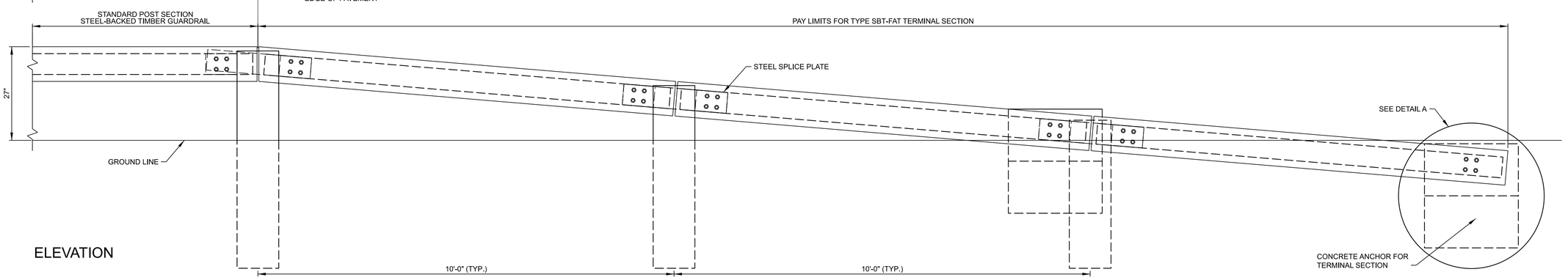
K1 CONCRETE ANCHOR

SCALE: 1 1/2"=1'-0"

0 6" 1' 0" 2' 0"

PLAN





ELEVATION

A1 APPROACH & DEPARTURE FLARE WITH FLARED ANCHOR TERMINAL (FAT)

SCALE: 3/4"=1'-0"

0 1' 0" 2' 0" 4' 0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P82-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7
PE: P.E.	
FILE NAME:	444304-66C9B7_S-504.dgn
ANSI D	

DESIGNED BY:	A. GUTIERREZ
DRAWN BY:	N. MCLEMORE
CHECKED BY:	A. WILLIAMS
SUBMITTED BY:	R. MUHAMMAD
QA/QC BY:	KAYE LIFFLER, P.E.
SIZE	ANSI D

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST., SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) / FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

STRUCTURAL GUARD RAIL DETAILS 2

SHEET ID

S-504

CERTIFIED FINAL DOCUMENTS - RTA

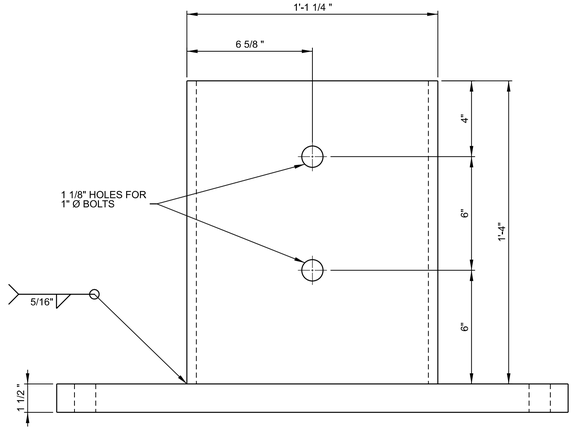
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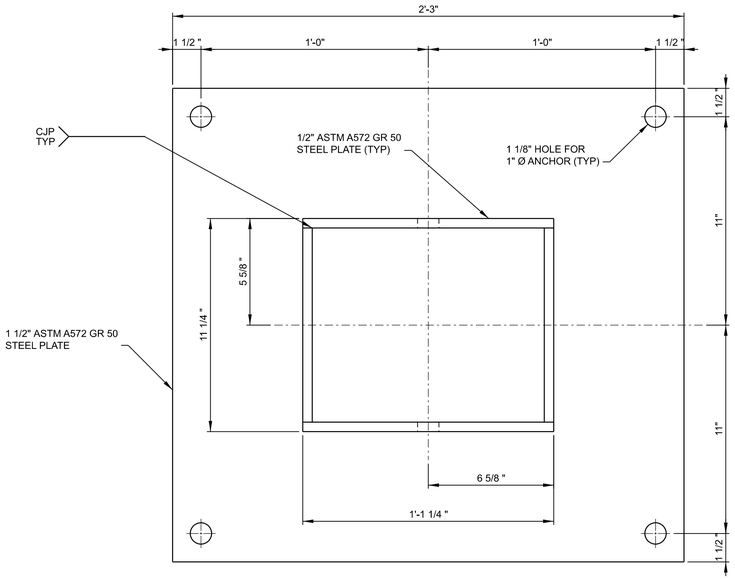
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GENERAL SHEET NOTES

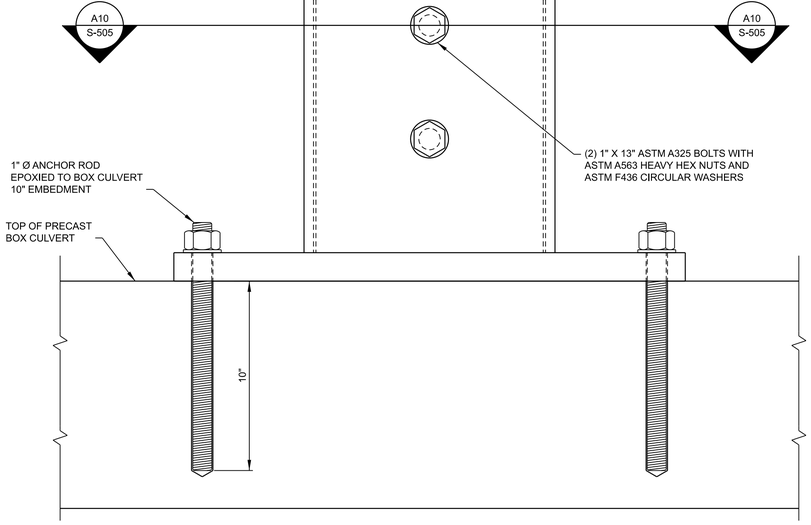
1. CONTRACTOR MUST VERIFY THE LOCATION OF STEEL REINFORCING IN THE PRECAST CONCRETE BOX CULVERT PRIOR ANCHORING POST BASE PLATE TO AVOID DAMAGING REINFORCING BARS DURING ANCHOR INSTALLATION.
2. REFER TO CIVIL SHEETS FOR LOCATION OF WOOD GUARDRAIL POST TO BE ANCHORED TO PRECAST BOX CULVERT.
3. CONTRACTOR MUST FABRICATE POST BASE PLATES TO ANCHOR ALL GUARDRAIL POSTS DIRECTLY ABOVE THE PRECAST BOX CULVERT.
4. GUARDRAIL POST BASE MUST BE HOT DIP GALVANIZED AFTER FABRICATION.
5. ALL ANCHOR RODS, BOLTS, NUTS, AND WASHERS SPECIFIED ON THIS SHEET TO BE HOT DIP GALVANIZED.
6. SURFACE OF PRECAST BOX CULVERT BENEATH GUARDRAIL POST BASE TO BE GROUND SMOOTH PRIOR TO POST BASE INSTALLATION TO THE SATISFACTION OF THE COR.



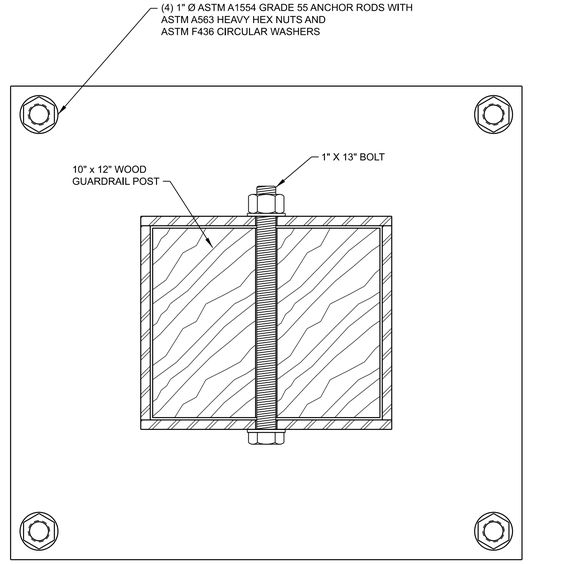
J2 GUARDRAIL POST BASE (ELEVATION VIEW)
SCALE: 1 1/2"=1'-0"



H10 GUARDRAIL POST BASE (PLAN VIEW)
SCALE: 1 1/2"=1'-0"



A1 GUARDRAIL POST CONNECTION ABOVE CULVERT (ELEVATION VIEW)
SCALE: 1 1/2"=1'-0"



A10 GUARDRAIL POST CONNECTION ABOVE CULVERT (SECTION VIEW)
SCALE: 1 1/2"=1'-0"

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY:	N. MCLEMORE
DRAWN BY:	A. WILLIAMS
CHECKED BY:	R. MUHAMMAD
SUBMITTED BY:	
SIGNATURE, TITLE, P.E.	
FILE NAME:	444304-66C9B7_S-505.dgn
ANSI D	
ISSUE DATE:	APRIL 2026
SOLICITATION NO.:	W912P82-25-R-A009
CONTRACT NO.:	TBD
PROJECT ID:	444304-66C9B7

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK) - FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

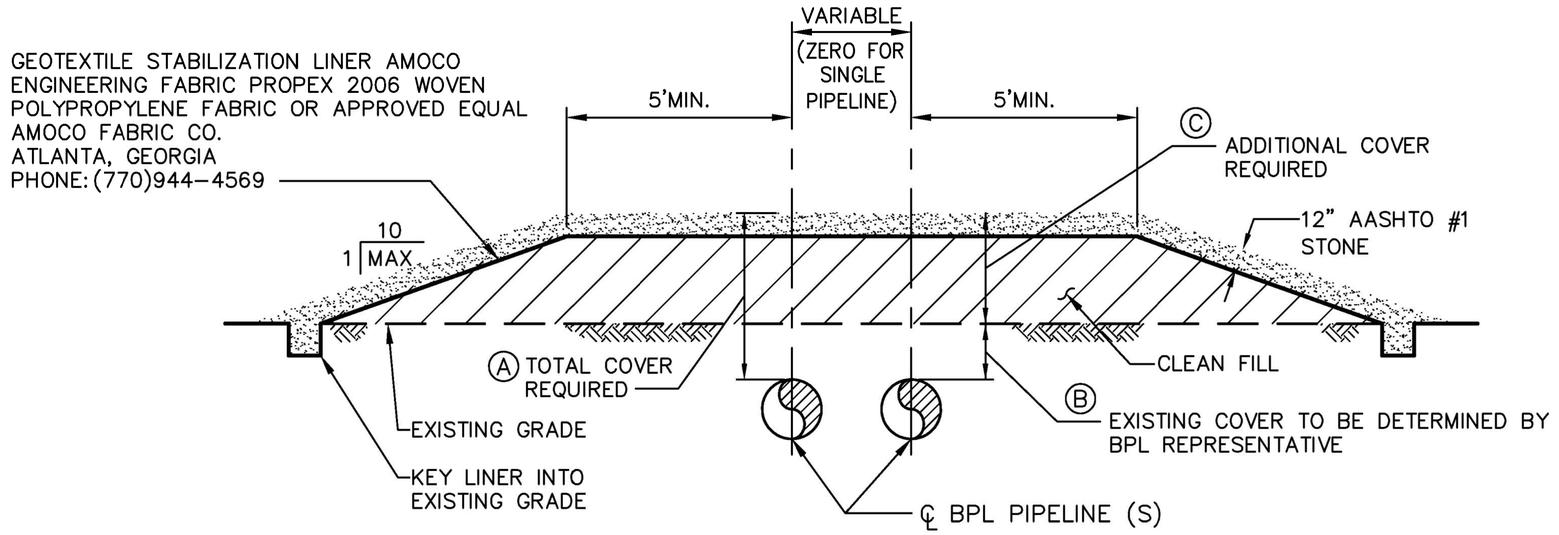
STRUCTURAL GUARD RAIL DETAILS 3

SHEET ID
S-505

CERTIFIED FINAL DOCUMENTS - RTA

DS: 444304-66C9B7_S-505.dgn
PD: 12:26:32 PM 4/7/2026

Project/Inquiry:		Loading:		Date:	
System:		Pipe Data:		Revision:	



TEMPORARY (WET CONDITIONS) CONSTRUCTION RAMP OVER BPL PIPELINE (S)

NO SCALE

NOTES:

1. RAMP SHALL BE 15 FOOT PLUS/MINUS WIDE WITH SIDES TAPERED ON A MINIMUM 1:1 SLOPE.
2. IF DRY CONDITIONS PREVAIL AT CROSSING SITE LINER AND STONE CAN BE REPLACED WITH FILL MATERIAL.

* Indicates item supplied by Buckeye Pipe Line Company.

Legend & Notes:

A. Required pipeline cover must be a minimum of:	*	feet
B. Existing pipeline cover is currently:	TBD	feet
C. Earthen ramp height above existing grade:	*	feet

Buckeye Pipe Line Company
Earthen Ramp Detail

Attachment 6: Earthen Ramp Detail

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: R. MUHAMMAD	ISSUE DATE: APRIL 2026
DRAWN BY: A. WILLIAMS	SOLICITATION NO.: W912P62-25-R-A009
CHECKED BY: R. MUHAMMAD	CONTRACT NO.: TBD
SUBMITTED BY: A. KARR	PROJECT ID: 444304-66C987
SIZE: ANSI D	FILE NAME: 444304-66C987_R-001.dgn

U.S. ARMY CORPS OF ENGINEERS
CHICAGO DISTRICT
231 S. LASALLE ST. SUITE 1500
CHICAGO, ILLINOIS 60604

UPPER DES PLAINES RIVER AND TRIBUTARIES PHASE II
AQUATIC ECOSYSTEM RESTORATION
RAVEN GLEN (POLLACK LAKE AND HASTINGS CREEK I + FOREST PRESERVE
ANTIOCH, LAKE COUNTY, ILLINOIS

REFERENCE DRAWING

SHEET ID
R-001

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