

HIGHLAND PARK, ILLINOIS

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[illegible]

12. THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIS/HER OPERATIONS ABOUT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY IN ACCORDANCE WITH THE LAKE FOREST MUNICIPAL CODE AND IDOT REQUIREMENTS.
13. NO HOLES ARE TO BE LEFT OPEN IN THE PAVEMENT OR PARKWAY OVER A HOLIDAY, WEEKEND OR AFTER 3:00 P.M. ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.
14. ALL EXISTING PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAWCUT ALONG LIMITS OF PROPOSED REMOVAL BEFORE COMMENCEMENT OF PAVEMENT REMOVAL.
15. REMOVED PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR AS PART OF THE BASE CONTRACT.
16. NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
17. FOR REGULATED UTILITY LOCATIONS, THE CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS. "J.U.L.I.E." AT 1-800-892-0123. LOCAL GOVERNMENT AGENCIES SHOULD BE CONTACTED BY THE CONTRACTOR FOR LOCATION OF ALL NONREGULATED UTILITY LOCATIONS. CALL FOR LOCATES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION.
18. BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, CONTRACTOR SHALL NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.
19. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF "APPROVED" ENGINEERING PLANS WITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AS DETAILED IN THE STORM WATER POLLUTION PREVENTION PLAN.
21. ANY AREAS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED IN CONFORMANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND SHALL BE INCIDENTAL TO THE CONTRACT.
22. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH THE MUNICIPALITY OR IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
23. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS INDICATED ON DRAWINGS.
24. CAD FILES ARE AVAILABLE FOR CONSTRUCTION LAYOUT UPON REQUEST.
25. BACKFILL SHALL BE PLACED NEXT TO THE CURB AS SOON AS PERMISSIBLE AFTER CONSTRUCTION TO PREVENT SCOURING AND UNDERCUTTING BY STORM WATER RUNOFF.
26. WHEN AN EXISTING DRAINAGE ROUTE, EITHER A STORM SEWER OR WATERWAY, IS INTERRUPTED DUE TO CONSTRUCTION, THE DRAINAGE ROUTE SHALL BE REESTABLISHED TO ORIGINAL CONDITIONS BY THE END OF THE SAME WORK DAY. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
27. PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.
28. ANY EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT ARE TO BE ADJUSTED OR RECONSTRUCTED BY THE CONTRACTOR TO THE UTILITY OWNER'S SATISFACTION. ADJUSTMENTS OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
29. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND TO THE SATISFACTION OF THE UTILITY OWNER.
30. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
31. PRIOR TO DEMOLITION, ALL WORK SHALL BE CLEANED AND INSPECTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
32. THE GENERAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO PROVIDE CABLE TV,

FOR SECURING SITE LAYOUTS FOR THESE UTILITIES AND SHALL COORDINATE AND PROVIDE CONDUIT CROSSINGS AS REQUIRED. THIS COORDINATION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ANY CONFLICTS IN UTILITIES SHALL BE CORRECTED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

BAND-SEAL CONNECTORS OR EQUIVALENT SHALL BE USED TO JOIN PIPES OF DISSIMILAR MATERIAL.

CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL CONSTRUCTION IN CONFORMANCE WITH ALL MUNICIPAL AND CLIENT REQUIREMENTS FOR USE IN PREPARING RECORD DRAWINGS.

THE SUBCONTRACTOR SHALL INSTALL A 2"x4"x6" POST ADJACENT TO THE TERMINUS OF UTILITY MAINS AND SERVICE LINES. POSTS SHALL BE MARKED IN ACCORDANCE WITH THE CITY STANDARDS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ANY EXCAVATION. ANY DEWATERING REQUIRED SHALL BE INCIDENTAL TO THE CONTRACT.

ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY AS DETERMINED BY THE ENGINEER. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE PERATIONAL CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE FOR ON-SITE DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE SUBCONTRACTOR AND SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT. ALL FIELD TILE REPAIRS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

TRAFFIC CONTROL

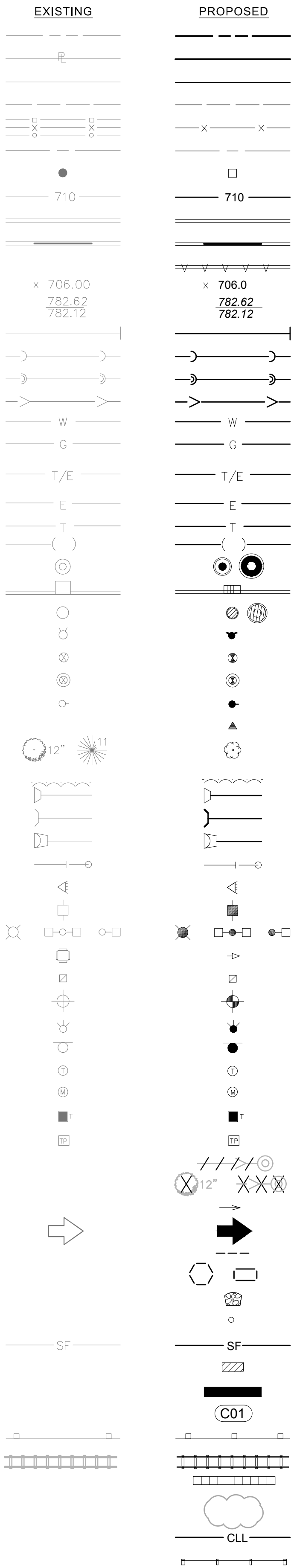
IF ROAD OR LANE CLOSURES ARE REQUIRED TO PERFORM THE PROPOSED WORK, CONTRACTOR SHALL PROVIDE SIGNAGE AND FLAGMEN AS NECESSARY.

CONTRACTOR SHALL NOTIFY THE CITY AND EMERGENCY DISPATCHER OF ANY ROAD CLOSURE A MINIMUM OF 48 HOURS IN ADVANCE OF CLOSURE.


SPECIAL SIGNAGE AS PROVIDED BY THE CITY SHALL BE MAINTAINED BY THE CONTRACTOR.

INSTREAM WORK PLAN

CONTRACTOR SHALL SUBMIT INSTREAM WORK
PLAN TO THE LAKE COUNTY STORMWATER
MANAGEMENT COMMISSION FOR APPROVAL PRIOR
TO BEGINNING CONSTRUCTION



DESCRIPTION	A	ARC LENGTH
RIGHT-OF-WAY LINE	B-B	BACK TO BACK OF CURB
PROPERTY LINE (EXTERIOR)	BLDG	BUILDING
LOT LINE (INTERIOR)	BM	BENCHMARK
EASEMENT LINE	B/P	BOTTOM OF PIPE
FENCE LINE	BV/VV	BUTTERFLY VALVE IN VALVE VAULT
CENTERLINE	C & G	CURB AND GUTTER
PROPERTY CORNER	CB	CATCH BASIN
CONTOUR	CL	CENTERLINE
CURB & GUTTER	CL	CLOSED LID
DEPRESSED CURB & GUTTER	CO	CLEAN OUT
REVERSE PITCHED CURB	DIP	DUCTILE IRON PIPE
SPOT ELEVATION	DIA	DIAMETER
TOP OF CURB ELEVATION	DIWM	DUCTILE IRON WATER MAIN
EDGE OF PAVEMENT ELEVATION	DWG	DRAWING
UTILITY STUB	E	EAST OR ELECTRIC OR EDGE
SANITARY SEWER	EJ	EXPANSION JOINT
SANITARY FORCE MAIN	ELEV	ELEVATION
STORM SEWER	E/P	EDGE OF PAVEMENT
WATER MAIN	EX.	EXISTING
GAS MAIN	F & CL	FRAME & CLOSED LID
UNDERGROUND TELEPHONE	F & G	FRAME & GRATE
& ELECTRIC DUCT BANK	F & OL	FRAME & OPEN LID
BURIED CABLE-ELECTRIC	FES	FLARED END SECTION
BURIED CABLE-TELEPHONE	F-F	FACE TO FACE OF CURB
ATLAS LOCATED UTILITY	FF	FINISHED FLOOR
UTILITY STRUCTURE WITH CLOSED LID	F/G	FINISHED GRADE
CURB INLET	FH	FIRE HYDRANT
DRAINAGE STRUCTURE WITH OPEN LID	F/L	FLOW LINE
FIRE HYDRANT	G	GAS LINE
VALVE IN VALVE BOX	GVVB	GATE VALVE IN VALVE BOX
GATE VALVE IN VALVE VAULT	GV/VV	GATE VALVE IN VALVE VAULT
POST INDICATOR VALVE	HDCP	HANDICAP
THRUST BLOCK	HDPE	HIGH DENSITY POLYETHYLENE PIPE
TREE	HDW	HEADWALL
TREE LINE	HOR	HORIZONTAL
CONCRETE HEADWALL	HP	HIGH POINT
SUBMERGED HEADWALL	HWL	HIGH WATER LEVEL
FLARED END SECTION (F.E.S.)	IE	INVERT ELEVATION
GUY WIRES	IN	INLET
FLOOD LIGHT	LF	LINEAL FEET
UTILITY POLE	LP	LOW POINT OR LIGHT POLE
LIGHT STANDARD	L	LEFT
TRAFFIC SIGNAL POLE	ME	MATCH EXISTING
HAND HOLE	MH	MANHOLE
SOIL BORING	MW	MONITORING WELL
IRRIGATION HEADS	N	NORTH
SIGN	NC	NOT IN CONTRACT / NOT INCLUDED
TELEPHONE MANHOLE	NWL	NORMAL WATER LEVEL
MONITORING WELL	OC	ON CENTER
TELEPHONE PEDESTAL	OL	OPEN LID
TRANSFORMER PAD	PC	POINT OF CURVATURE
UTILITY TO BE ABANDONED	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
FEATURE TO BE REMOVED	PGL	PROFILE GRADE LINE
STORMWATER FLOW DIRECTION	PI	POINT OF INTERSECTION
STORMWATER OVERFLOW ROUTE	PL	PROPERTY LINE
DITCH CHECK	PP	POWER POLE
INLET FILTER BASKET	PRC	POINT OF REVERSE CURVATURE
RIP RAP	PT	POINT OF TANGENCY
BOLLARD	PUE	PUBLIC UTILITY EASEMENT
SILT FENCE	PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE PIPE
WATER MAIN PROTECTION	PVI	POINT OF VERTICAL INTERSECTION
TRENCH BACKFILL	PVT	POINT OF VERTICAL TANGENCY
UTILITY CROSSING LABEL	R	RADIUS OR RIGHT
GUARDRAIL	RCP	REINFORCED CONCRETE PIPE
RAILROAD TRACKS	ROW	RIGHT OF WAY
RETAINING WALL	S	SLOPE OR SOUTH
REVISION DELINEATION	SAN	SANITARY
CONSTRUCTION LIMIT LINE	SF	SILTATION FENCE
TREE PROTECTION FENCE	SFM	SANITARY FORCE MAIN
	SHT	SHEET
	SHW	SUBMERGED HEADWALL
	SMH	SANITARY MANHOLE
	STA	STATION
	ST	STORM STRUCTURE OR STORM SEWER
	STMH	STORM MANHOLE
	T	TANGENT LENGTH OR TELEPHONE
	T/C	TOP OF CURB
	T/P	TOP OF PIPE
	T/W	TOP OF WALL
	TY	TYPE
	TYP	TYPICAL
	UP	UTILITY POLE
	VC	VERTICAL CURVE
	VERT	VERTICAL
	VCP	VITRIFIED CLAY PIPE
	W	WEST
	WM	WATER MAIN



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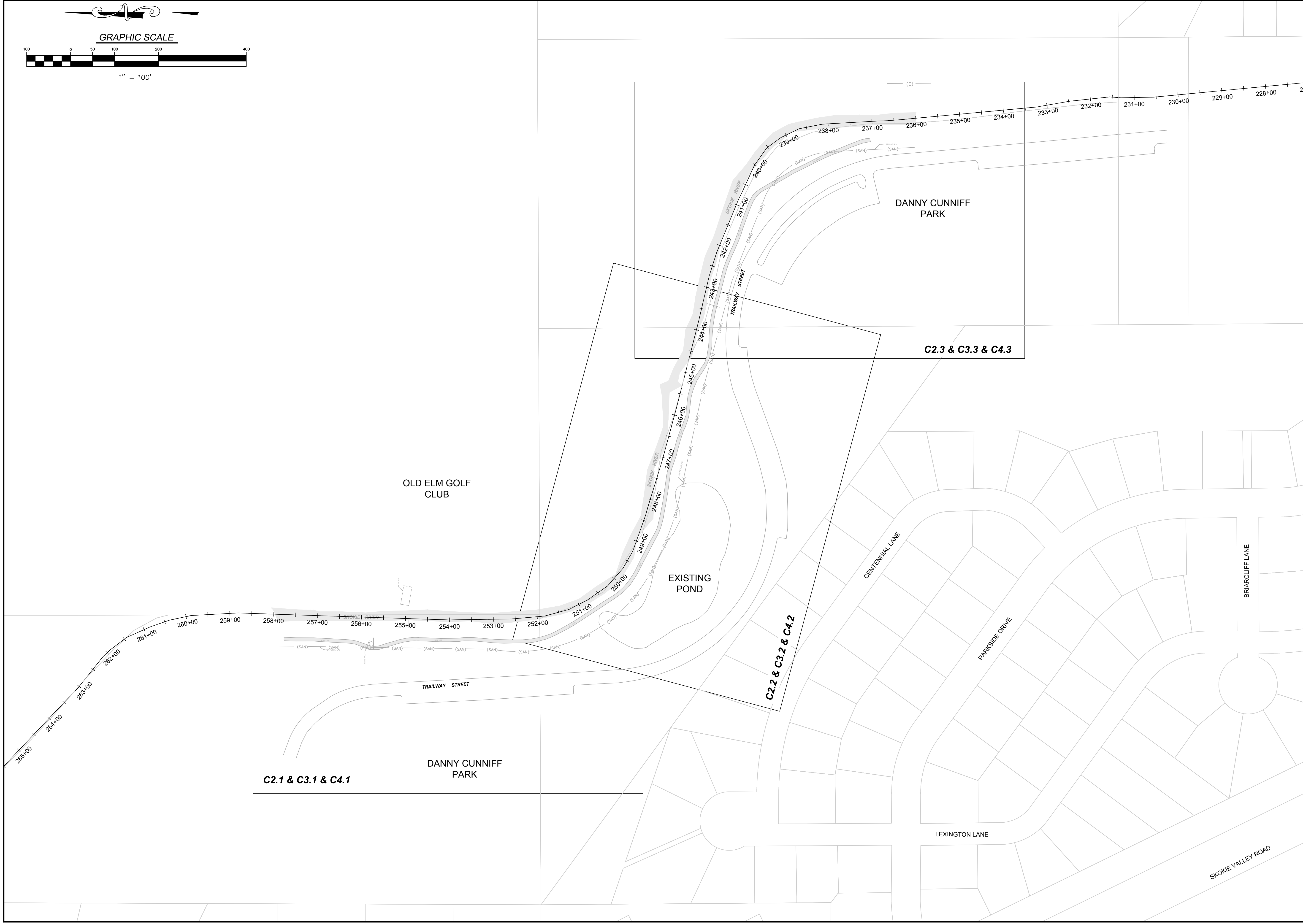
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK

HIGHLAND PARK

ILLINOIS

PROJECT NO.: 230560		ORIGINAL ISSUE DATE: JANUARY 31, 2024		REVISIONS	
PROJECT MANAGER:	CWH	NO	DATE	DESCRIPTION	DATE
DESIGNED BY:	CWH	1	06/10/24	ISSUED FOR PERMIT	
		2	12/17/24	REVISED PER USACE COMMENTS	
		3	01/31/25	ISSUED FOR COUNTY PERMITTING	
DRAWN BY:		4	05/23/25	ISSUED FOR BID	



OVERALL LAYOUT PLAN

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE
PARK DISTRICT OF HIGHLAND PARK
HIGHLAND PARK

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DRAWING NO.
C1.1

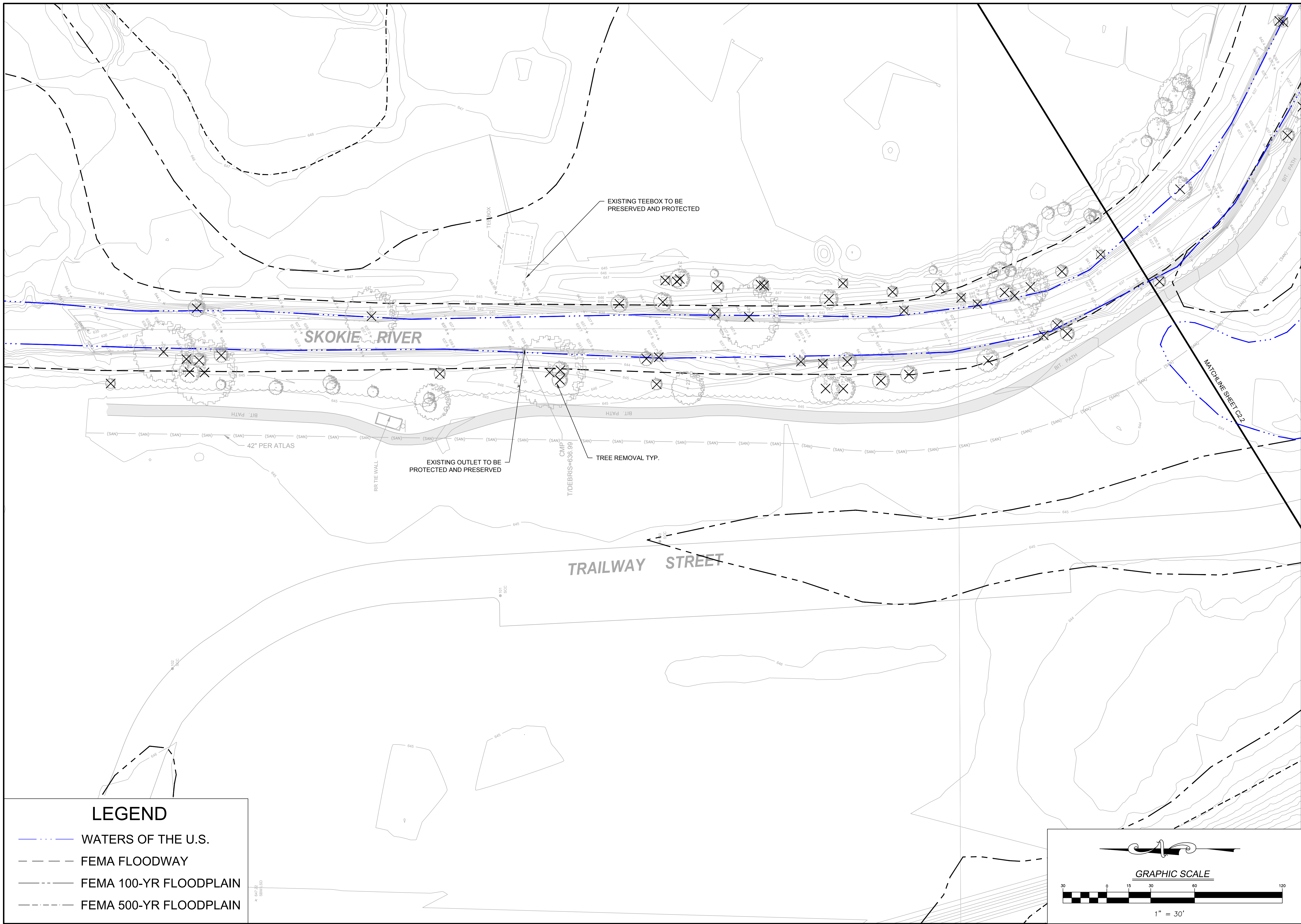
PROJECT NO.:
230560
PROJECT MANAGER:
CWH
DESIGNED BY:
CWH
DRAWN BY:
CG

ORIGINAL ISSUE DATE: JANUARY 31, 2024

REVISIONS

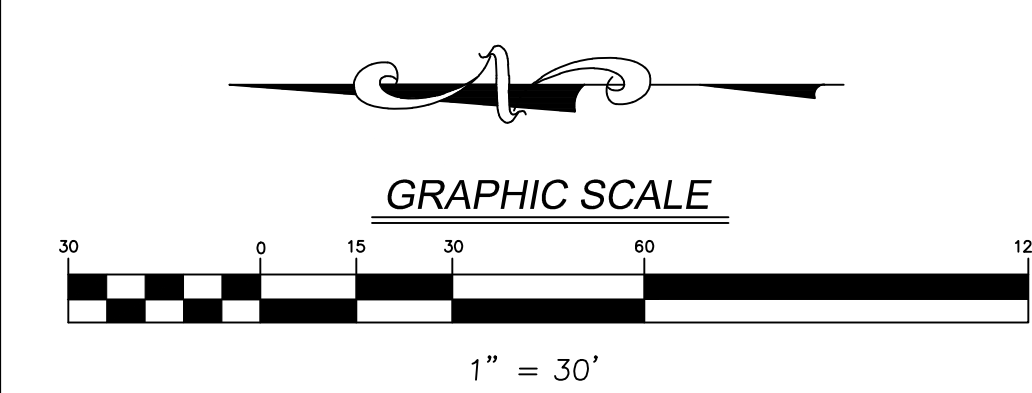
NO.	DATE	DESCRIPTION
1	06/10/24	ISSUED FOR PERMIT
2	12/17/24	REVISED PER USACE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID


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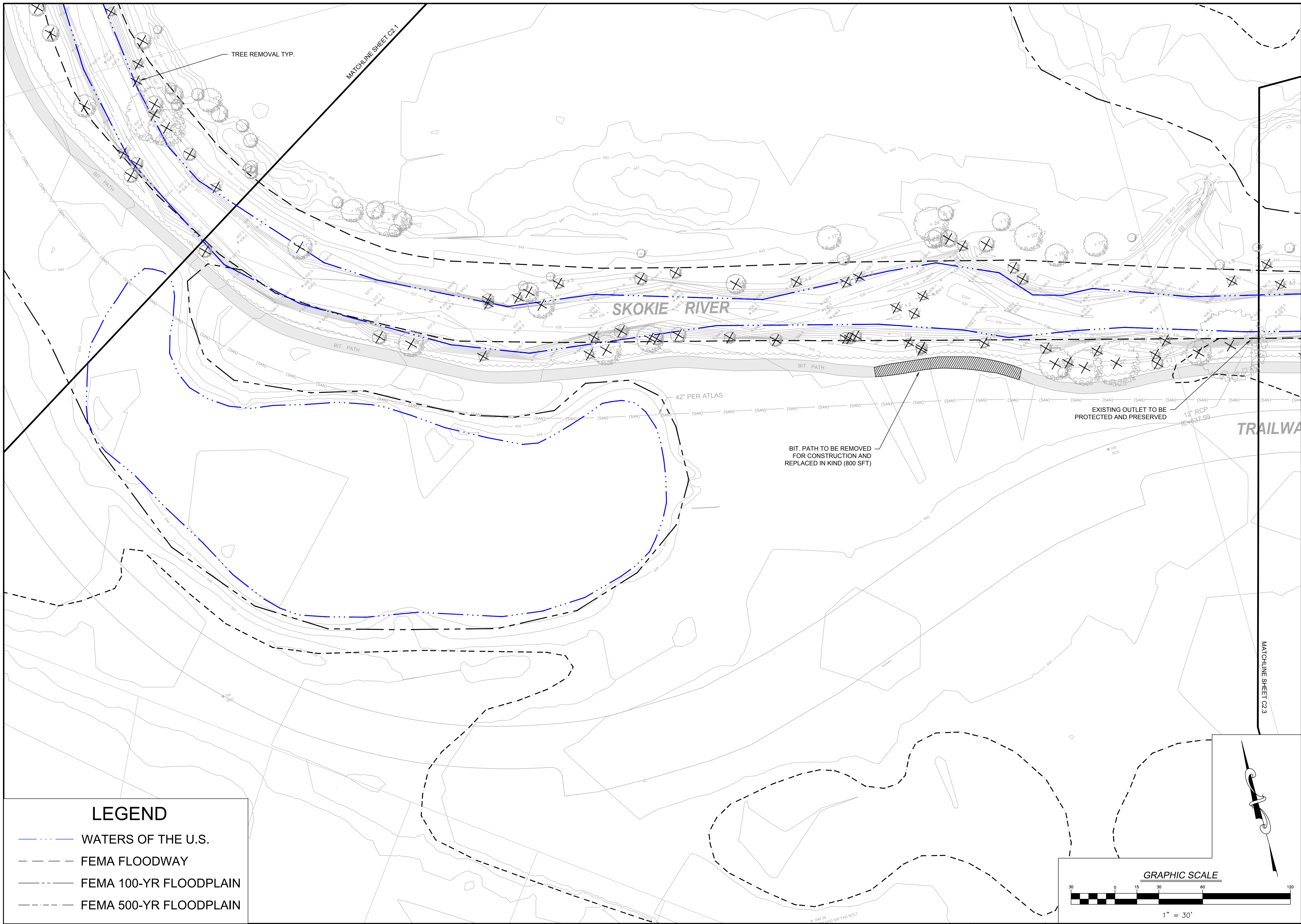


LEGEND

- WATERS OF THE U.S.
- FEMA FLOODWAY
- FEMA 100-YR FLOODPLAIN
- FEMA 500-YR FLOODPLAIN

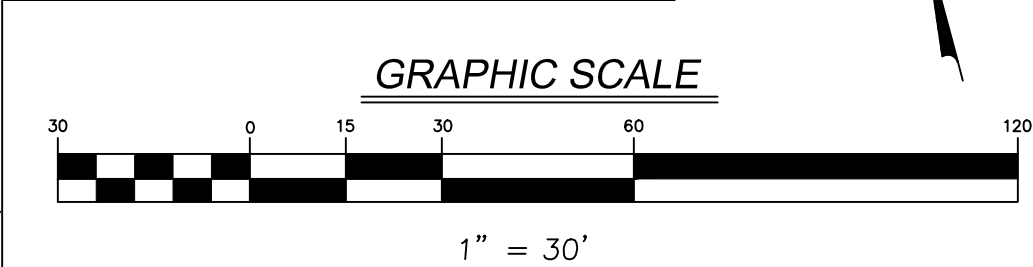


<div></div> <div>7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com</div>		<div>EXISTING CONDITIONS</div> <div>SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK</div> <div>HIGHLAND PARK ILLINOIS</div>		ORIGINAL ISSUE DATE: JANUARY 31, 2024		REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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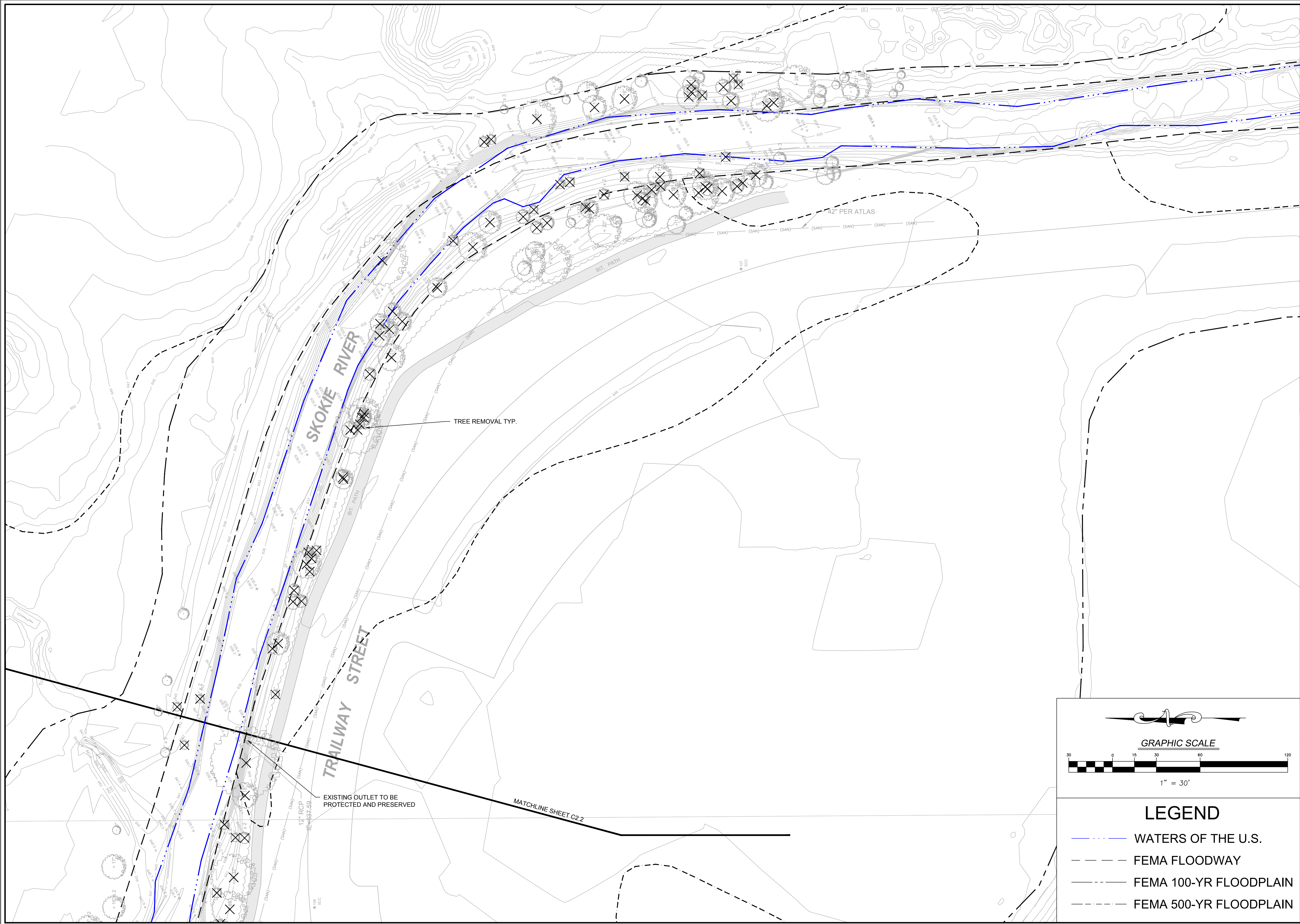



LEGEND

- WATERS OF THE U.S.
- FEMA FLOODWAY
- FEMA 100-YR FLOODPLAIN
- FEMA 500-YR FLOODPLAIN

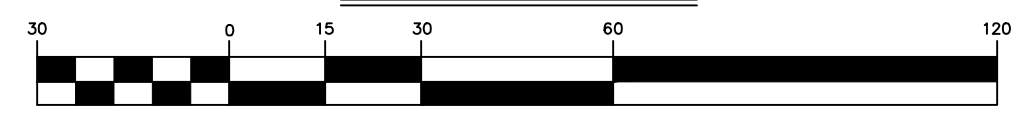


EXISTING CONDITIONS		REVISIONS	
		NO.	DATE
SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK HIGHLAND PARK ILLINOIS		PROJECT NO.:	230560
		PROJECT MANAGER:	CWH
		DESIGNED BY:	CWH
		DRAWN BY:	CG
ORIGINAL ISSUE DATE: JANUARY 31, 2024		DESCRIPTION	
		1	06/10/24 ISSUED FOR PERMIT
		2	12/17/24 REVISED PER USACE COMMENTS
		3	01/31/25 ISSUED FOR COUNTY PERMITTING
HIGHLAND PARK		4	06/23/25 ISSUED FOR BID
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DRAWING NO.		C2.2	





GRAPHIC SCALE



1" = 30'

LEGEND

- WATERS OF THE U.S.
- FEMA FLOODWAY
- FEMA 100-YR FLOODPLAIN
- FEMA 500-YR FLOODPLAIN

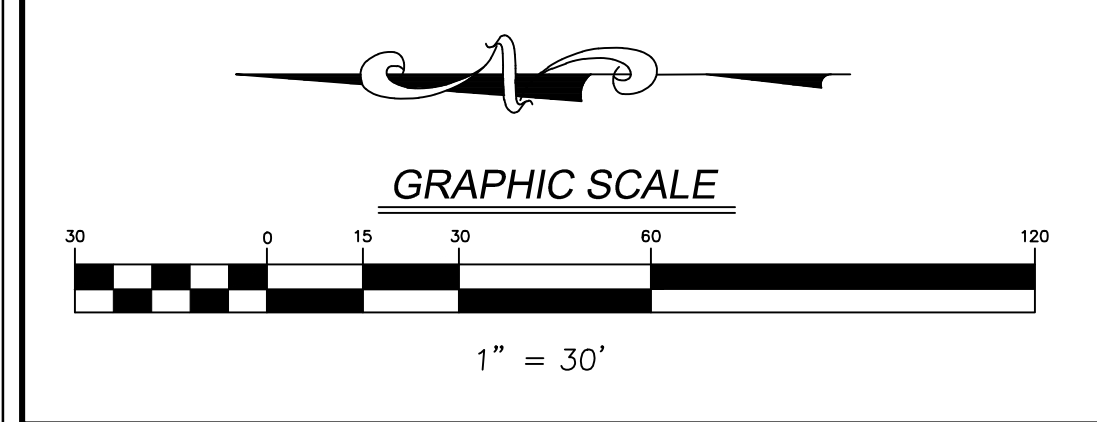
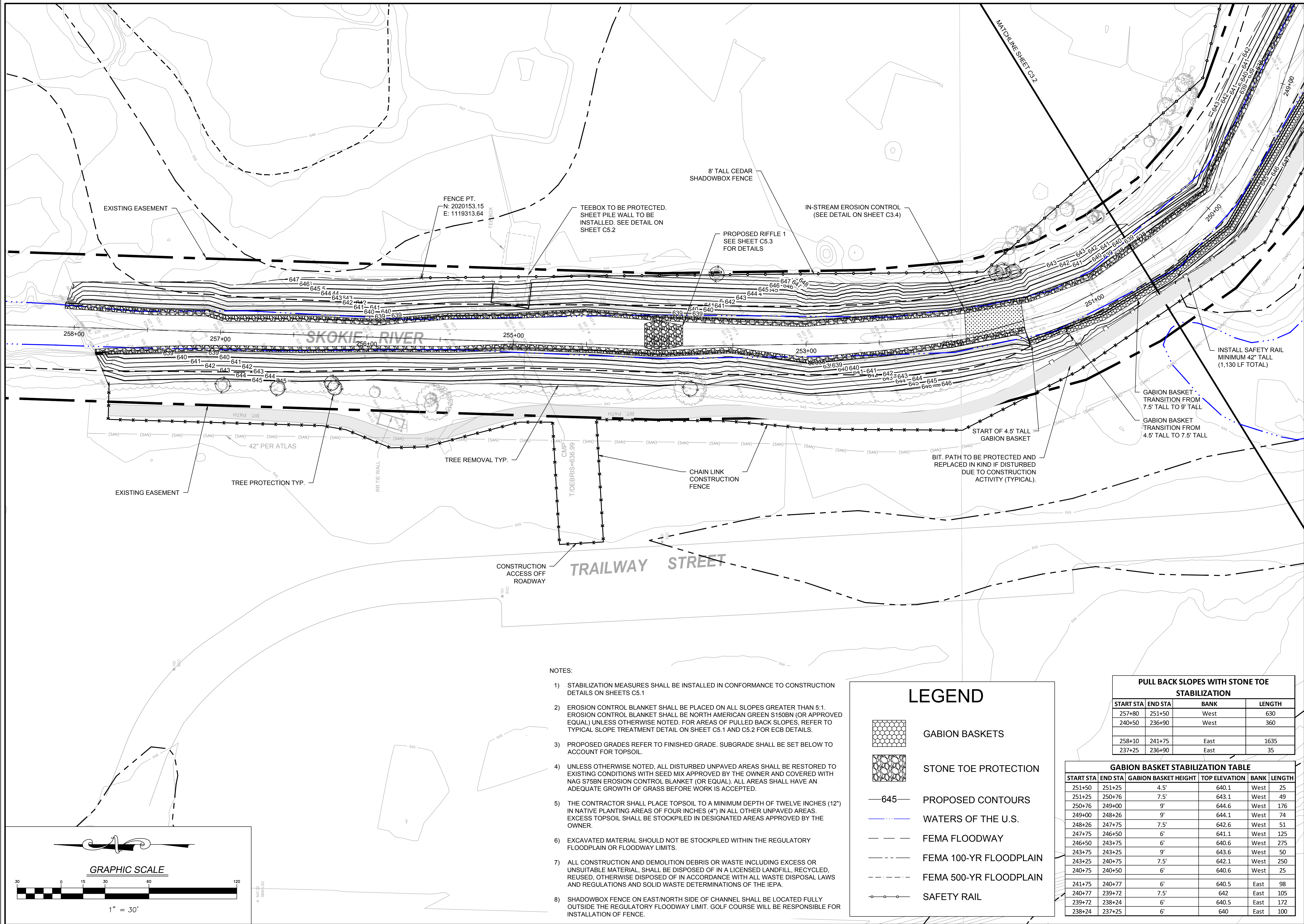
EXISTING CONDITIONS		REVISIONS		ORIGINAL ISSUE DATE: JANUARY 31, 2024	
		NO.	DATE	DESCRIPTION	DESCRIPTION
SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK HIGHLAND PARK		PROJECT NO.:	230560		
		PROJECT MANAGER:	CWH		
		DESIGNED BY:	CWH		
		DRAWN BY:	CG		
ILLINOIS		1	06/10/24	ISSUED FOR PERMIT	
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- NOTES:
- 1) STABILIZATION MEASURES SHALL BE INSTALLED IN CONFORMANCE TO CONSTRUCTION DETAILS ON SHEETS C5.1
 - 2) EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES GREATER THAN 5:1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150BN (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED. FOR AREAS OF PULLED BACK SLOPES, REFER TO TYPICAL SLOPE TREATMENT DETAIL ON SHEET C5.1 AND C5.2 FOR ECB DETAILS.
 - 3) PROPOSED GRADES REFER TO FINISHED GRADE. SUBGRADE SHALL BE SET BELOW TO ACCOUNT FOR TOPSOIL.
 - 4) UNLESS OTHERWISE NOTED, ALL DISTURBED UNPAVED AREAS SHALL BE RESTORED TO EXISTING CONDITIONS WITH SEED MIX APPROVED BY THE OWNER AND COVERED WITH NAG S75BN EROSION CONTROL BLANKET (OR EQUAL). ALL AREAS SHALL HAVE AN ADEQUATE GROWTH OF GRASS BEFORE WORK IS ACCEPTED.
 - 5) THE CONTRACTOR SHALL PLACE TOPSOIL TO A MINIMUM DEPTH OF TWELVE INCHES (12") IN NATIVE PLANTING AREAS OF FOUR INCHES (4") IN ALL OTHER UNPAVED AREAS. EXCESS TOPSOIL SHALL BE STOCKPILED IN DESIGNATED AREAS APPROVED BY THE OWNER.
 - 6) EXCAVATED MATERIAL SHOULD NOT BE STOCKPILED WITHIN THE REGULATORY FLOODPLAIN OR FLOODWAY LIMITS.
 - 7) ALL CONSTRUCTION AND DEMOLITION DEBRIS OR WASTE INCLUDING EXCESS OR UNSUITABLE MATERIAL, SHALL BE DISPOSED OF IN A LICENSED LANDFILL, RECYCLED, REUSED, OTHERWISE DISPOSED OF IN ACCORDANCE WITH ALL WASTE DISPOSAL LAWS AND REGULATIONS AND SOLID WASTE DETERMINATIONS OF THE IEPA.
 - 8) SHADOWBOX FENCE ON EAST/NORTH SIDE OF CHANNEL SHALL BE LOCATED FULLY OUTSIDE THE REGULATORY FLOODWAY LIMIT. GOLF COURSE WILL BE RESPONSIBLE FOR INSTALLATION OF FENCE.

LEGEND

GABION BASKETS

STONE TOE PROTECTION

645 PROPOSED CONTOURS

WATERS OF THE U.S.

FEMA FLOODWAY

FEMA 100-YR FLOODPLAIN

FEMA 500-YR FLOODPLAIN

SAFETY RAIL

PULL BACK SLOPES WITH STONE TOE STABILIZATION					
START STA	END STA	BANK	LENGTH		
257+80	251+50	West	630		
240+50	236+90	West	360		
258+10	241+75	East	1635		
237+25	236+90	East	35		

GABION BASKET STABILIZATION TABLE					
START STA	END STA	GABION BASKET HEIGHT	TOP ELEVATION	BANK	LENGTH
251+50	251+25	4.5'	640.1	West	25
251+25	250+76	7.5'	643.1	West	49
250+76	249+00	9'	644.6	West	176
249+00	248+26	9'	644.1	West	74
248+26	247+75	7.5'	642.6	West	51
247+75	246+50	6'	641.1	West	125
246+50	243+75	6'	640.6	West	275
243+75	243+25	9'	643.6	West	50
243+25	240+75	7.5'	642.1	West	250
240+75	240+50	6'	640.6	West	25
241+75	240+77	6'	640.5	East	98
240+77	239+72	7.5'	642	East	105
239+72	238+24	6'	640.5	East	172
238+24	237+25	6'	640	East	100

PROPOSED STABILIZATION AND GRADING

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK ILLINOIS

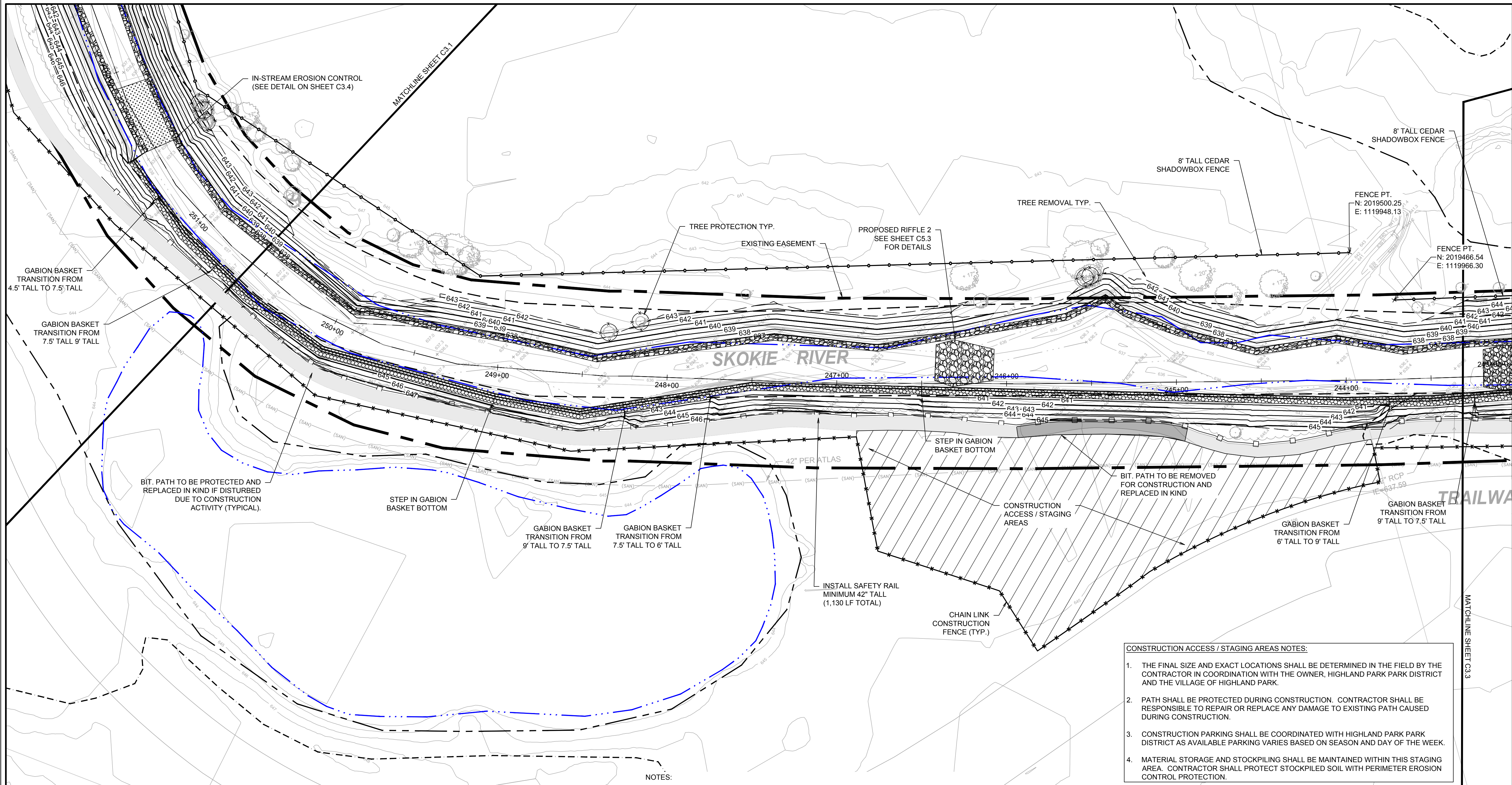
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PROJECT NO.: 230560		ORIGINAL ISSUE DATE: JANUARY 31, 2024		REVISIONS	
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	06/10/24	ISSUED FOR PERMIT	1		
2	12/17/24	REVISED PER USAGE COMMENTS	2		
3	01/31/25	ISSUED FOR COUNTY PERMITTING	3		
4	06/23/25	ISSUED FOR BID	4		

PROJECT MANAGER: CWH	DESIGNED BY: CWH	DRAWN BY: CG
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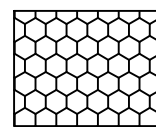
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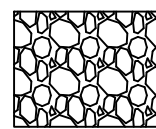
NOTES:

- 1) STABILIZATION MEASURES SHALL BE INSTALLED IN CONFORMANCE TO CONSTRUCTION DETAILS ON SHEETS C5.1
- 2) EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES GREATER THAN 5:1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150BN (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED. FOR AREAS OF PULLED BACK SLOPES, REFER TO TYPICAL SLOPE TREATMENT DETAIL ON SHEET C5.1 AND C5.2 FOR ECB DETAILS.
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- 6) EXCAVATED MATERIAL SHOULD NOT BE STOCKPILED WITHIN THE REGULATORY FLOODPLAIN OR FLOODWAY LIMITS.
- 7) ALL CONSTRUCTION AND DEMOLITION DEBRIS OR WASTE INCLUDING EXCESS OR UNSUITABLE MATERIAL, SHALL BE DISPOSED OF IN A LICENSED LANDFILL, RECYCLED, REUSED, OTHERWISE DISPOSED OF IN ACCORDANCE WITH ALL WASTE DISPOSAL LAWS AND REGULATIONS AND SOLID WASTE DETERMINATIONS OF THE IEPA.
- 8) SHADOWBOX FENCE ON EAST/NORTH SIDE OF CHANNEL SHALL BE LOCATED FULLY OUTSIDE THE REGULATORY FLOODWAY LIMIT. GOLF COURSE WILL BE RESPONSIBLE FOR INSTALLATION OF FENCE.

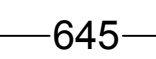
LEGEND



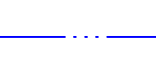
GABION BASKETS



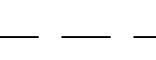
STONE TOE PROTECTION



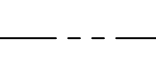
645 PROPOSED CONTOURS



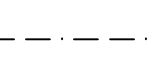
WATERS OF THE U.S.



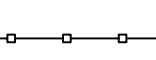
FEMA FLOODWAY



FEMA 100-YR FLOODPLAIN



FEMA 500-YR FLOODPLAIN



SAFETY RAIL

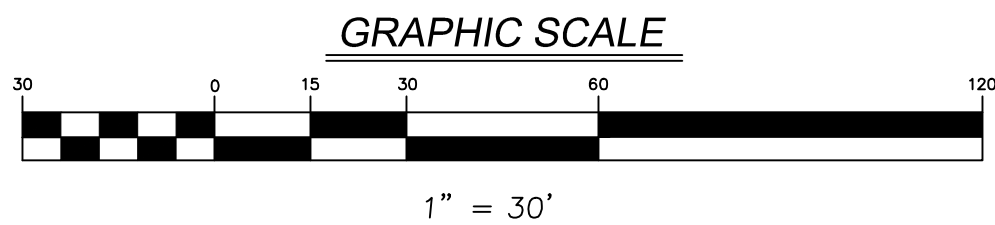
- CONSTRUCTION ACCESS / STAGING AREAS NOTES:
1. THE FINAL SIZE AND EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR IN COORDINATION WITH THE OWNER, HIGHLAND PARK PARK DISTRICT AND THE VILLAGE OF HIGHLAND PARK.
 2. PATH SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGE TO EXISTING PATH CAUSED DURING CONSTRUCTION.
 3. CONSTRUCTION PARKING SHALL BE COORDINATED WITH HIGHLAND PARK PARK DISTRICT AS AVAILABLE PARKING VARIES BASED ON SEASON AND DAY OF THE WEEK.
 4. MATERIAL STORAGE AND STOCKPIILING SHALL BE MAINTAINED WITHIN THIS STAGING AREA. CONTRACTOR SHALL PROTECT STOCKPILED SOIL WITH PERIMETER EROSION CONTROL PROTECTION.

PULL BACK SLOPES WITH STONE TOE STABILIZATION

START STA	END STA	BANK	LENGTH
257+80	251+50	West	630
240+50	236+90	West	360
258+10	241+75	East	1635
237+25	236+90	East	35

GABION BASKET STABILIZATION TABLE

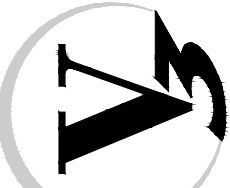
START STA	END STA	GABION BASKET HEIGHT	TOP ELEVATION	BANK	LENGTH
251+50	251+25	4.5'	640.1	West	25
251+25	250+76	7.5'	643.1	West	49
250+76	249+00	9'	644.6	West	176
249+00	248+26	9'	644.1	West	74
248+26	247+75	7.5'	642.6	West	51
247+75	246+50	6'	641.1	West	125
246+50	243+75	6'	640.6	West	275
243+75	243+25	9'	643.6	West	50
243+25	240+75	7.5'	642.1	West	250
240+75	240+50	6'	640.6	West	25
241+75	240+77	6'	640.5	East	98
240+77	239+72	7.5'	642	East	105
239+72	238+24	6'	640.5	East	172
238+24	237+25	6'	640	East	100



PROPOSED STABILIZATION AND GRADING

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE
PARK DISTRICT OF HIGHLAND PARK
HIGHLAND PARK

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com



DRAWING NO.

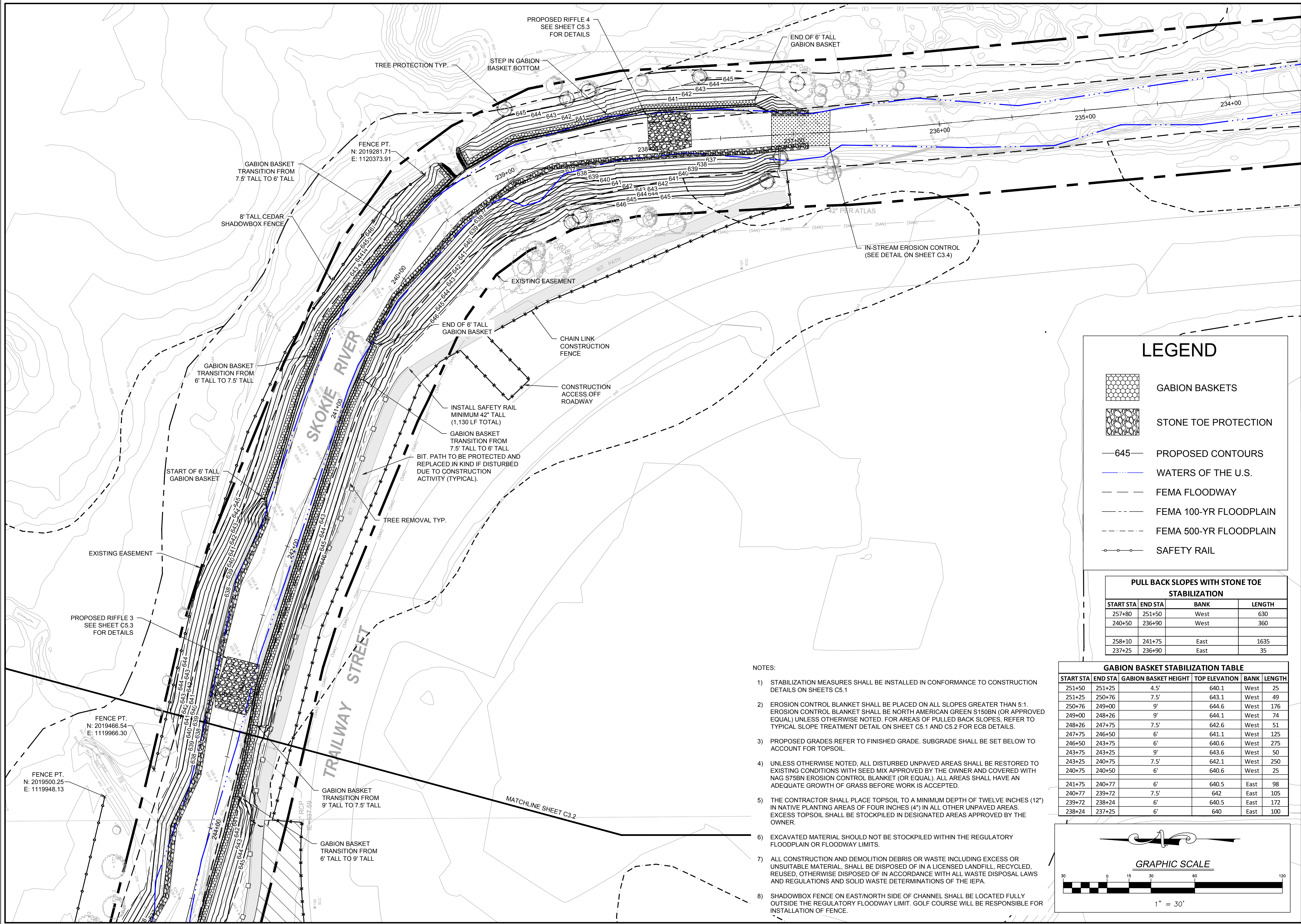
C3.2

REVISIONS

NO.	DATE	DESCRIPTION
1	06/10/24	ISSUED FOR PERMIT
2	12/17/24	REVISED PER USAGE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID

ORIGINAL ISSUE DATE: JANUARY 31, 2024

PROJECT NO.:	230560
PROJECT MANAGER:	CWH
DESIGNED BY:	CWH
DRAWN BY:	CG



- NOTES:
- 1) STABILIZATION MEASURES SHALL BE INSTALLED IN CONFORMANCE TO CONSTRUCTION DETAILS ON SHEETS C5.1
 - 2) EROSION CONTROL BLANKET SHALL BE PLACED ON ALL SLOPES GREATER THAN 5:1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S150BN (OR APPROVED EQUAL) UNLESS OTHERWISE NOTED. FOR AREAS OF PULLED BACK SLOPES, REFER TO TYPICAL SLOPE TREATMENT DETAIL ON SHEET C5.1 AND C5.2 FOR ECB DETAILS.
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LEGEND

GABION BASKETS

STONE TOE PROTECTION

645 PROPOSED CONTOURS

WATERS OF THE U.S.

FEMA FLOODWAY

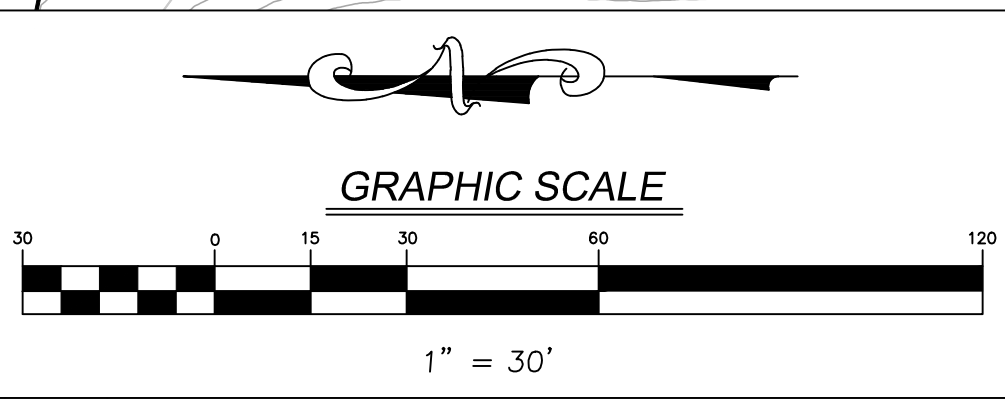
FEMA 100-YR FLOODPLAIN

FEMA 500-YR FLOODPLAIN

SAFETY RAIL

PULL BACK SLOPES WITH STONE TOE STABILIZATION			
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247+75	246+50	6'	641.1	West	125
246+50	243+75	6'	640.6	West	275
243+75	243+25	9'	643.6	West	50
243+25	240+75	7.5'	642.1	West	250
240+75	240+50	6'	640.6	West	25
241+75	240+77	6'	640.5	East	98
240+77	239+72	7.5'	642	East	105
239+72	238+24	6'	640.5	East	172
238+24	237+25	6'	640	East	100



PROPOSED STABILIZATION AND GRADING

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK

HIGHLAND PARK

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.
C3.3

PROJECT NO.: 230560

PROJECT MANAGER: CWH

DESIGNED BY: CWH

DRAWN BY: CG

ORIGINAL ISSUE DATE: JANUARY 31, 2024

REVISIONS

NO.	DATE	DESCRIPTION
1	06/10/24	ISSUED FOR PERMIT
2	12/17/24	REVISED PER USACE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) FOR STORMWATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES. THE PERMITTEE MUST COMPLY WITH ALL CONDITIONS OF THE GENERAL PERMIT. ANY NON-COMPLIANCE CONSTITUTES A VIOLATION OF THE IEPA ACT AND THE CLEAN WATER ACT AND CAN BE GROUNDS FOR ENFORCEMENT ACTION, PERMIT REVOCATION, MODIFICATION, RE-ISSUANCE, TERMINATION, OR DENIAL OF A PERMIT RENEWAL.

1) PROJECT DESCRIPTION

- a) THE PROJECT WILL INCLUDE STREAMBANK STABILIZATION OF ERODING STREAMBANKS ALONG THE EAST BRANCH SKOKIE RIVER IN HIGHLAND PARK, IL. THE STABILIZATION WILL BE ACHIEVED THROUGH A COMBINATION OF GABION BASKETS, RR-4 RIP RAP, AND BANK RE-SHAPING. THE STABILIZATION INCLUDES BOTH THE WEST AND EAST SIDE OF THE STREAM WITHIN THE PROJECT LIMITS.
- b) THIS PLAN INDICATES AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO SURFACE WATERS.
- c) THE RECEIVING WATER IS THE EAST BRANCH SKOKIE RIVER.

2) CONSTRUCTION SEQUENCE.

- a) PRIOR TO THE START OF THE WORK, THE CONTRACTOR SHALL FOLLOW THE IN-STREAM WORK PLAN AND SHALL COORDINATE WITH THE ENGINEER TO REVIEW SUCH IN-STREAM WORK PLAN PRIOR TO THE START OF THE WORK. THIS PLAN SHALL INDICATE THE SEQUENCING OF IN-STREAM WORK WITH ONLY ONE STREAM SEGMENT DISTURBED AT A SINGLE TIME.
- b) FOR EACH STREAM SEGMENT, THE INTENDED SEQUENCE OF MAJOR ACTIVITIES, WHICH DISTURB SOILS IS:
- i) DIVERT FLOW AND CONSTRUCT ROCK DAM TO ENSURE CONSTRUCTION AREA IS DRY
- ii) RE-GRADE ALLOWABLE AREAS
- iv) INSTALL GEOTEXTILE FABRIC, BEDDING MATERIAL AND PRESCRIBED TREATMENT
- vi) REMOVE ROCK DAM

3) CONTROLS. ALL DISTURBED AREAS AND WORK AREAS MUST BE ISOLATED FROM STREAM FLOW AT ALL TIMES. THE DIVERSION/ISOLATION OF THE STREAM FLOWS MUST BE CONSTRUCTED FROM NON-ERODIBLE MATERIALS.

a) EROSION AND SEDIMENT CONTROLS.

i) STABILIZATION PRACTICES

- *PRIOR TO ANY PLACEMENT OF LAND DISTURBING ACTIVITIES ALONG THE STREAM, ROCK COFFERDAM(S) SHALL BE INSTALLED AS INDICATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
- *ANY DISTURBED AREAS OUTSIDE THE PROJECT LIMITS SHALL BE RESTORED WITH PERMANENT VEGETATION AS SOON AS PRACTICABLE.
- *THESE CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL FINAL STABILIZATION OF THOSE PORTIONS OF THE SITE. EXCEPT AS PROVIDED IN PARAGRAPHS (A) AND (B) BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 1 DAY AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

I. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 1ST DAY AFTER CONSTRUCTION ACTIVITY TEMPORARY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.

II. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 1ST DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

*WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

b) STORM WATER MANAGEMENT.

i) DETENTION REQUIREMENTS. THE PROJECT DOES NOT REQUIRE STORMWATER DETENTION.

c) OTHER CONTROLS.

- i) WASTE DISPOSAL. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- ii) THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
- d) APPROVED STATE OR LOCAL PLANS.

EXCEPT WHERE MODIFIED ON THIS PLAN, ALL WORK PROPOSED HEREIN SHALL BE IN ACCORDANCE WITH LAKE COUNTY FLOOD PLAIN AND STORMWATER ORDINANCES AND THE REQUIREMENTS CONTAINED IN THE ILLINOIS URBAN MANUAL, LATEST EDITION. IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITE WORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

4) MAINTENANCE.

- a) THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED. ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE. MAINTENANCE ITEMS INCLUDE CONSTRUCTION ENTRANCES, SHORE LINES AND VEGETATION THROUGHOUT THE SITE.

5) EROSION AND SEDIMENT CONTROL REQUIREMENTS:

- a) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
- b) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- c) PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE MCHENRY-LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT (M-LSWCD).
- d) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE M-LSWCD.
- e) DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
- f) IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA."

6) ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS:

- a) TEMPORARY STREAM CROSSINGS SHALL BE CONSTRUCTED OF NON-EROSIVE MATERIAL.
- b) THE TIME AND AREA OF DISTURBANCE OF A STREAM SHALL BE KEPT TO A MINIMUM. THE STREAM, INCLUDING BED AND BANKS, SHALL BE RE-STABILIZED WITHIN 48 HOURS AFTER CHANNEL DISTURBANCE IS COMPLETED.
- c) ALL UNDISTURBED WETLAND, FLOODPLAIN, WATERS, AND BUFFER AREAS SHALL, AT A MINIMUM, HAVE A BARRIER OF PROTECTION. THE BARRIER SHALL BE PLACED AT THE LIMITS OF SOIL DISTURBANCE AND CONSIST OF :
- i) A DUAL ROW OF SILT FENCE, AND A ROW OF ORANGE CONSTRUCTION FENCE; OR
- ii) A DUAL SILT FENCE BARRIER, WITH ONE OF THE FENCES BEING OF HIGH VISIBILITY MATERIAL.
- k) ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED IMMEDIATELY, OR AS WARRANTED, AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- l) SOIL STOCKPILES SHALL NOT BE LOCATED IN A DRAINAGE WAY, FLOODPLAIN AREA OR A DESIGNATED BUFFER, UNLESS OTHERWISE APPROVED, UNDER SPECIFIC CONDITIONS TO BE ESTABLISHED BY THE ENGINEER.
- m) STOCKPILES TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE PROVIDED WITH SOIL EROSION AND SEDIMENT CONTROL MEASURES.

n) ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS SHALL BE PROVIDED.

o) WORK IN THE WATERWAY SHOULD BE LIMITED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.

p) WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

q) THE PLAN WILL BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.

r) THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE OFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.

s) IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS REQUIRED. CONTRACTOR SHALL SUBMIT BYPASS PUMPING PLAN TO OWNER FOR APPROVAL.

t) DURING DEWATERING OF THE COFFERED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.

u) THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

7) MAINTENANCE.

a) THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED. ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE. MAINTENANCE ITEMS INCLUDE CONSTRUCTION ENTRANCES, SHORELINES AND VEGETATION THROUGHOUT THE SITE.

8) INSPECTIONS

a) QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE AND MAINTAIN RECORDS OF ALL INSPECTIONS, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS, SUCH AS A LICENSED PROFESSIONAL ENGINEER OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES.

b) DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROLS IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.

c) BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 1 (SITE DESCRIPTION) OF THESE NOTES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 3 (CONTROLS) OF THESE NOTES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE. AFTER SUCH INSPECTION, SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.

d) A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH B ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THE REPORT SHALL BE SIGNED BY THE PERMITTEE.

e) THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, INCLUDING THOSE NOT REQUIRED BY THE PLAN. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE.

f) ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY THE PERMITTEE.

g) REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL COMPLIANCE ASSURANCE SECTION1021
NORTH GRAND AVENUE EAST
POST OFFICE BOX
19276 SPRINGFIELD, ILLINOIS 62794-9276

9) NON-STORMWATER DISCHARGES

a) THE FOLLOWING SOURCES OF NON-STORMWATER MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.

FIREFIGHTING ACTIVITIES, WATER MAIN/ HYDRANT FLUSHING, WATERING FOR DUST CONTROL, IRRIGATION, DRAINAGE FOR VEGETATIVE GROWTH, WASH WATER WHERE DETERGENTS ARE NOT USED UNCONTAMINATED GROUND WATER

b) NON-FIREFIGHTING DISCHARGES FROM WATER MAINS AND PUMPS SHALL NOT BE PERMITTED TO FLOW DIRECTLY ONTO THE SOIL WITHOUT ENERGY DISSIPATORS SUFFICIENT TO REDUCE VELOCITIES TO A NON-EROSIVE RATE. ALL SITE DE-WATERING, INCLUDING PUMP DISCHARGE SHALL PASS THROUGH SEDIMENT CONTROL DEVICES PRIOR TO LEAVING THE SITE.

10) RETENTION OF RECORDS

a) THE PERMITTEE SHALL RETAIN COPIES OF STORM WATER POLLUTION PREVENTION PLANS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIODS OF AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE AGENCY AT ANY TIME.

b) THE PERMITTEE SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

11) NOTICE OF TERMINATION

UPON FINAL STABILIZATION OF THE SITE THE PERMITTEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION IN ACCORDANCE WITH NPDES PERMIT NO. ILR10.

12) CERTIFICATION STATEMENT.

THE FOLLOWING STATEMENT SHALL BE SIGNED PRIOR TO ANY WORK AUTHORIZED BY NPDES PERMIT NO. ILR10 IS PERFORMED AT THE SITE. THE UNDERSIGNED IS RESPONSIBLE FOR IMPLEMENTATION OF ALL MEASURES IDENTIFIED ON THIS PLAN.

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DATED THIS _____ DAY

OF _____,

BY _____

TITLE _____

COMPANY _____

ADDRESS _____

TELEPHONE _____

LAKE COUNTY STORMWATER MANAGEMENT COMMISSION

SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES

A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:

- UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
- AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.

F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.

G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.

H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.

I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.

J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

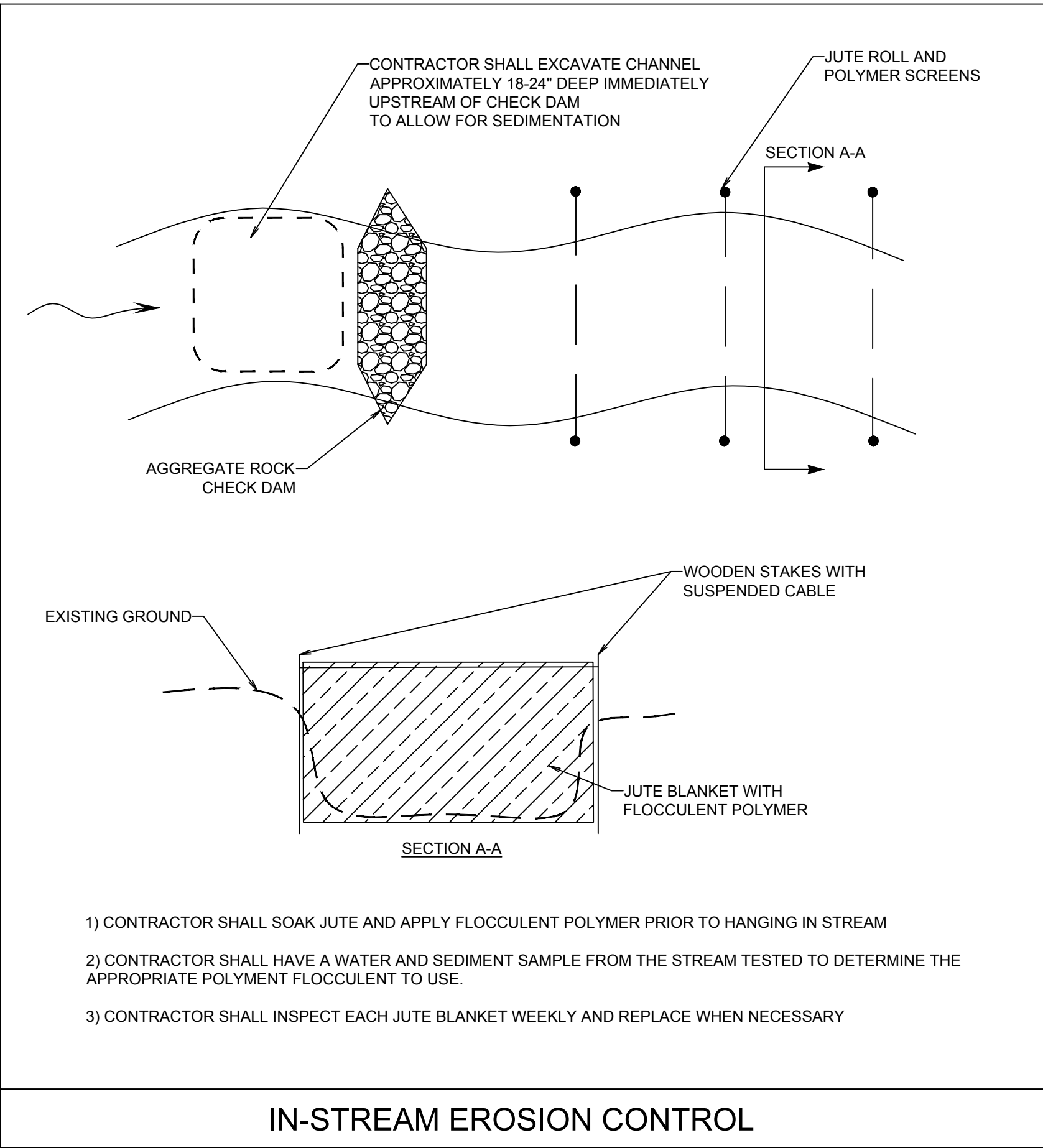
K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

L. INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.

M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.

N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.



- CONTRACTOR SHALL SOAK JUTE AND APPLY FLOCCULENT POLYMER PRIOR TO HANGING IN STREAM
- CONTRACTOR SHALL HAVE A WATER AND SEDIMENT SAMPLE FROM THE STREAM TESTED TO DETERMINE THE APPROPRIATE POLYMENT FLOCCULENT TO USE.
- CONTRACTOR SHALL INSPECT EACH JUTE BLANKET WEEKLY AND REPLACE WHEN NECESSARY

IN-STREAM EROSION CONTROL

INSTREAM WORK PLAN

CONTRACTOR SHALL SUBMIT INSTREAM WORK PLAN TO THE LAKE COUNTY STORMWATER MANAGEMENT COMMISSION FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			+A		A*					A*		
DORMANT SEEDING	B										+B	
TEMPORARY SEEDING			+C				+D					
SODDING			+E**									
MULCHING	F											

- A KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE
- C SPRING OATS 100 LBS/ACRE
- * IRRIGATION NEEDED DURING JUNE AND JULY
- A* NATIVE SEEDING
- D WHEAT OR CEREAL RYE 150 LBS/ACRE
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD
- B KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE
- E SOD
- F STRAW MULCH 2 TONS/ACRE

SOIL STABILIZATION CHART

REVISIONS				ORIGINAL ISSUE DATE: JANUARY 31, 2024			
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	NO.	DATE
1	06/10/24	ISSUED FOR PERMIT	1	06/10/24	ISSUED FOR PERMIT	1	06/10/24
2	12/17/24	REVISED PER USAGE COMMENTS	2	12/17/24	REVISED PER USAGE COMMENTS	2	12/17/24
3	01/31/25	ISSUED FOR COUNTY PERMITTING	3	01/31/25	ISSUED FOR COUNTY PERMITTING	3	01/31/25
4	06/23/25	ISSUED FOR BID	4	06/23/25	ISSUED FOR BID	4	06/23/25

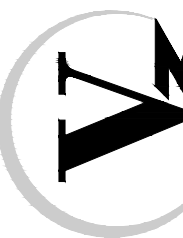
PROJECT NO.: 230560	CG
PROJECT MANAGER: CWH	
DESIGNED BY: CWH	
DRAWN BY:	

EROSION CONTROL NOTES

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK

ILLINOIS

7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com



DRAWING NO.

C3.4

EROSION CONTROL BLANKET – TURF REINFORCEMENT MAT (TRM)

PUSH PIN OR STAPLE (TYP.)

BURY UPSLOPE END OF BLANKET IN TRENCH (6" WIDE X 6" DEEP (MIN.))

OVERLAP END OF UPSLOPE BLANKET 4" OVER DOWNSLOPE BLANKET AND SECURE WITH STAPLES

BURY TOE OF BLANKET IN TRENCH (6" WIDE X 6" DEEP (MIN.))

DETAIL 1

DETAIL 2

DETAIL 3

ANCHOR SLOT

STAPLES

SINGLE JOINT

PARALLEL OVERLAPS

STAPLE DETAIL

PUSH PIN DETAIL

NOTE:
1. For sandy soil conditions, staple or push pin shall be a minimum 8 inches.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IUM-531
SHEET	1 OF 1
DATE	02-22-11

EROSION CONTROL BLANKET INSTALLATION DETAILS

BURY UPSLOPE END OF BLANKET IN TRENCH 6" WIDE BY 6" DEEP

OVERLAP BLANKETS SIDE BY SIDE USING A 4" OVERLAP WITH UPSLOPE BLANKET LAID OVER DOWNSLOPE BLANKET

OVERLAP END OF UPSLOPE BLANKET 4" OVER DOWNSLOPE BLANKET AND SECURE WITH STAPLES

BURY TOE OF BLANKET IN TRENCH 6" WIDE BY 6" DEEP

DETAIL 1

DETAIL 2

DETAIL 3

ANCHOR SLOT

STAPLES

SINGLE JOINT

PARALLEL OVERLAPS

STAPLE DETAIL

PUSH PIN DETAIL

NOTES:

- Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
- Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
- Erosion control material shall be placed in contact with the soil over a prepared seedbed.
- All anchor slots shall be stapled at approximately 12" intervals.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IL-690
SHEET	1 OF 1
DATE	4-7-94

TREE PROTECTION - FENCING

Drip Line

1' Min

6' Max

40" Min

18" Min

Fence

Ground Surface

Post

POST AND FENCE DETAIL

NOTES:

- The fence shall be located a minimum of 1 foot outside the drip line of the tree to be saved and in no case closer than 5 feet to the trunk of any tree.
- Fence posts shall be either standard steel posts or wood posts with a minimum cross sectional area of 3.0 sq. in.
- The fence may be either 40" high snow fence, 40" plastic web fencing or any other material as approved by the engineer/inspector.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IL-690
SHEET	1 OF 1
DATE	4-7-94

ROCK CHECK DAM – COARSE AGGREGATE

Flow

1' Min

3' Max

6" (Optional)

Coarse Aggregate

PROFILE

Width Of Ditch Or Swale

Top Of Bank

Coarse Aggregate

1' Min

3' Max

Filter Fabric (Optional)

CROSS SECTION

NOTES:

- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, or IV and shall be placed over the cleared area prior to the placing of rock.
- Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
- For added stability, the base of the dam may be keyed 6 inches into the soil.
- See plans for spacing of dams and H dimensions.
- Drainage area to each dam shall be less than 2 acres.
- Use ROCK CHECK DAM-RIPRAP IL-605R for drainage areas of 2 to 10 acres.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IL-605CA
SHEET	1 OF 1
DATE	1-29-99

SILT FENCE PLAN

Filter Fabric

5' Max (Typ)

Fastener - Min. No. 10 Gage Wire 4 Per Post Required. (Typ.)

2' Min

18" Min (Typ)

ELEVATION

SILT FENCE SHALL MEET APPLICABLE STANDARDS OF AASHTO 288-00 (SECTION 600.06) OR EQUIVALENT.

Filter Fabric

Direction Of Flow

Undisturbed Ground Line

6" Min

Compacted Backfill

FABRIC ANCHOR DETAIL

NOTES:

- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
- Filter fabric shall meet the requirements of material specification 592 Geotextile based upon performance needed.
- Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 2" x 2" nominal size.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IUM-620
SHEET	1 OF 1
DATE	3-16-12

STABILIZED CONSTRUCTION ENTRANCE PLAN

Existing Ground

L =

B

Wash Rack (Optional)

10' Min

10' Min

Existing Pavement

Coarse Aggregate

14" Min

B

Positive Drainage To Sediment Trapping Device.

PLAN VIEW

Existing Ground

L =

A

3' Min

5' Min

Existing pavement

Mountable Berm (Optional)

Filter Fabric

6" Min

A

SIDE ELEVATION

NOTES:

- Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
- Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
- Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
- If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IL-630
SHEET	1 OF 2
DATE	8-18-94

SUMP PIT PLAN

Clean Water discharge

12' To 18'

12' To 24' Diameter Corrugated Metal Or PVC Perforated Pipe

Side Slope Optional

2' Aggregate

SECTION

NOTES:

- Pit dimensions are optional.
- The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
- A base of 2' aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2' aggregate.
- The standpipe will extend 12" to 18" above the lip of the pit.
- If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
- If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IL-650
SHEET	1 OF 1
DATE	8-11-94

TEMPORARY STREAM CROSSING WITH CULVERT PLAN

Side Slope 1.5:1 or flatter

Toe of Slope

Flow

Covered with large angular rock, upstream and downstream

Coarse Aggregate

Edge of Driving Surface

Top of Bank

Culverts

Stream Channel

Top of Bank

PLAN

1/2 Dia. of pipe or 12" whichever is greater

Coarse Aggregate, 6" deep

Covered with large angular rock, upstream and downstream

Filter Fabric (Non-woven Needle Punch Geotextile Material), anchor 12"

Design 2 yr water level

Number and size of culverts determined by capacity. Capacity of pipe culverts together = design flow + safety factor

ELEVATION

REFERENCE	Project	Date
Designed		
Checked		
Approved		

STANDARD DWG. NO.	IUM-675CP
SHEET	1 OF 1
DATE	07-30-15

EROSION CONTROL DETAILS

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK

HIGHLAND PARK

ILLINOIS

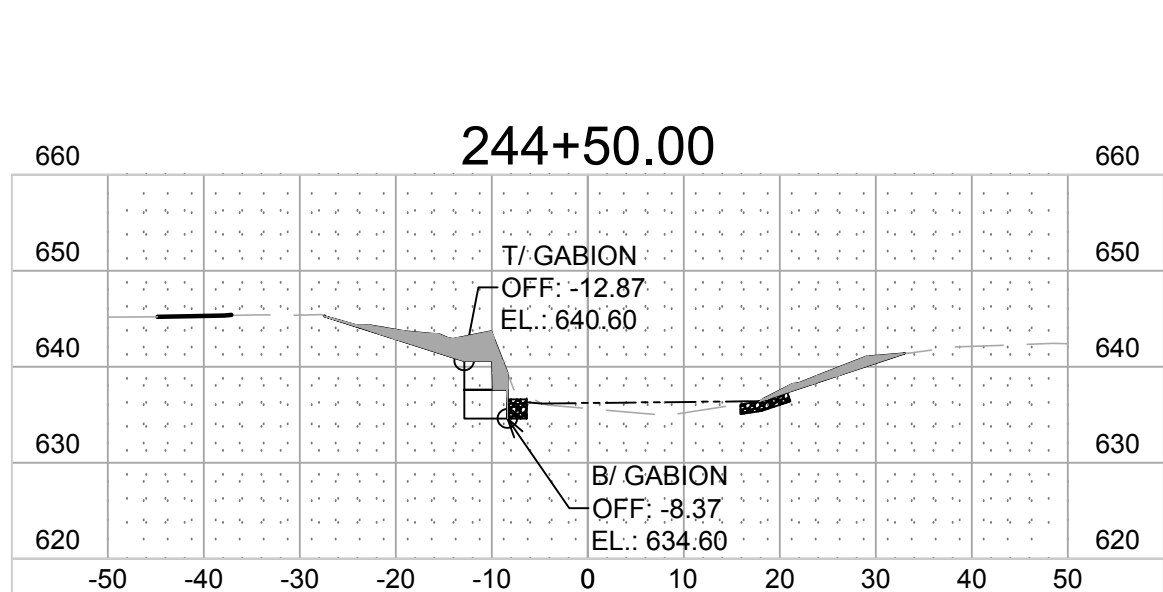
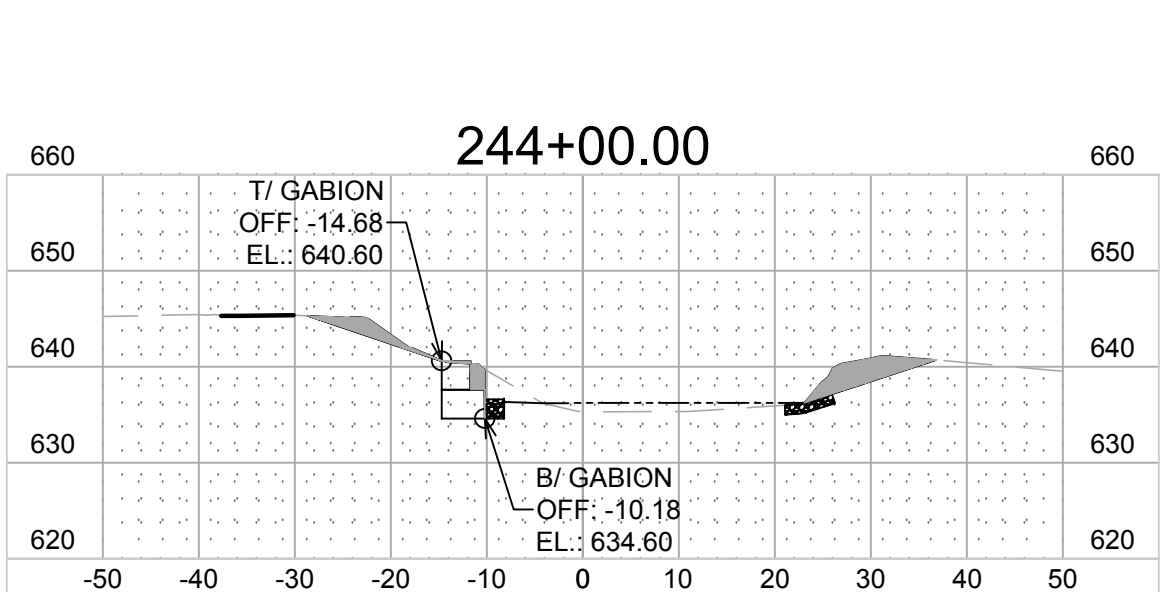
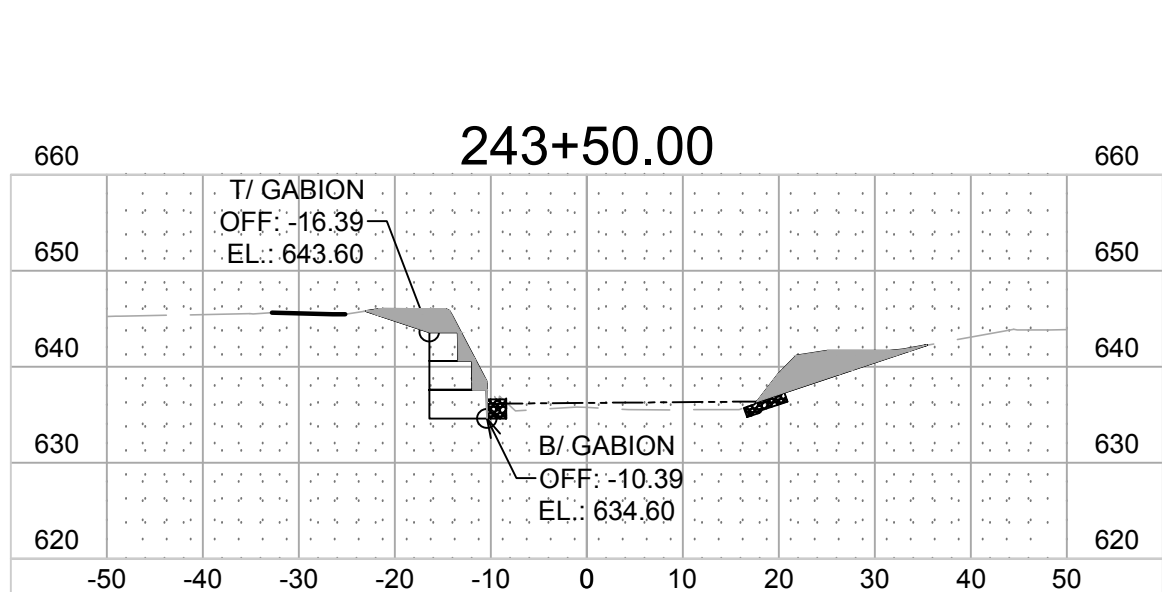
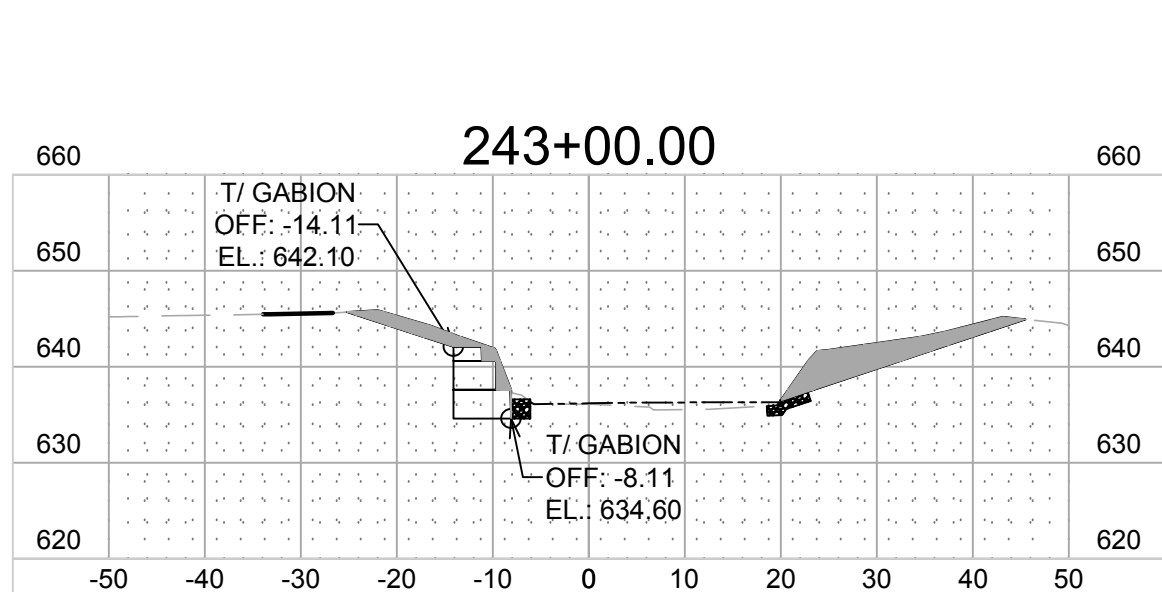
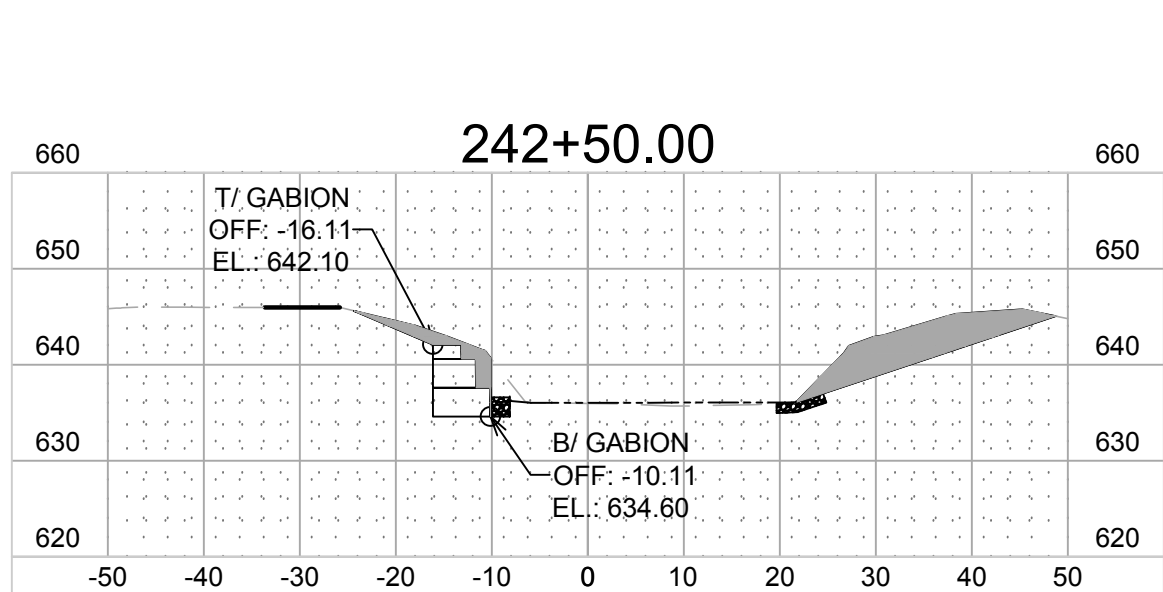
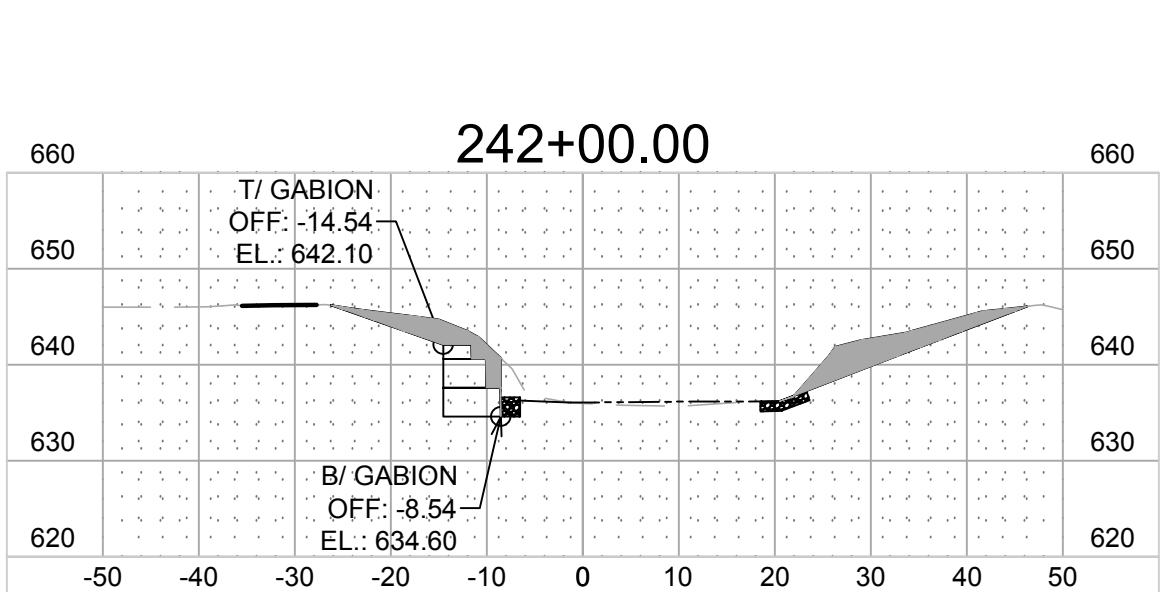
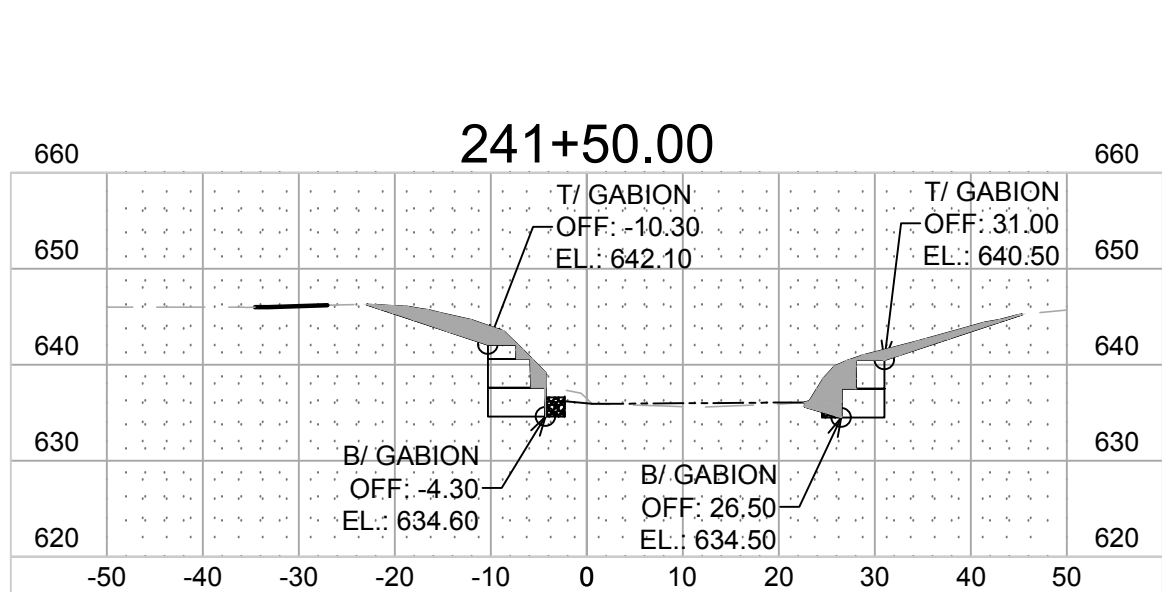
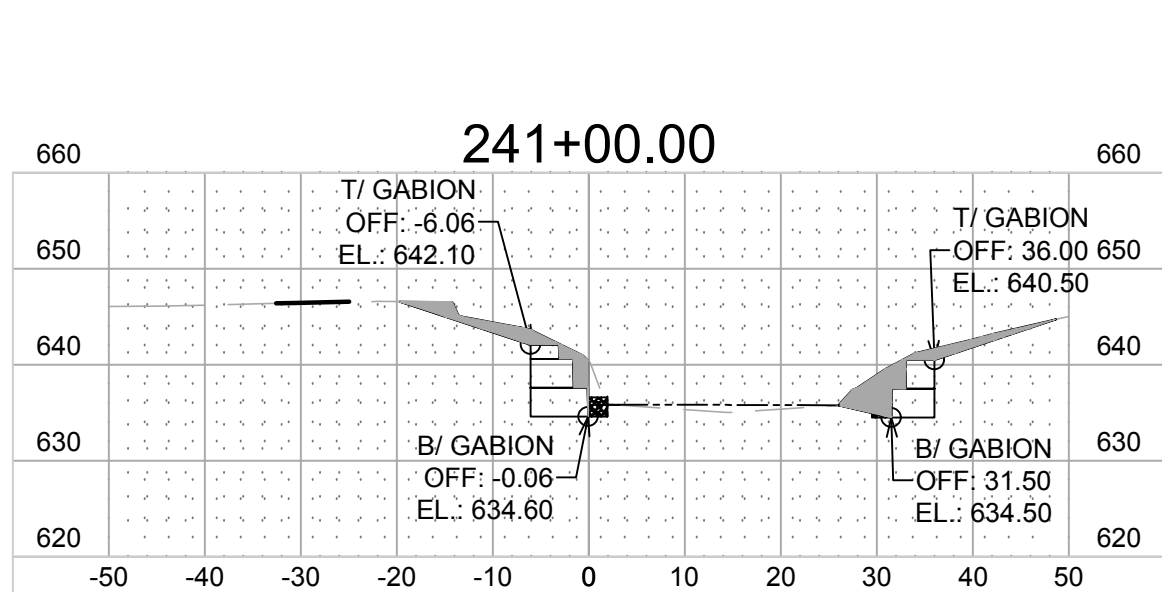
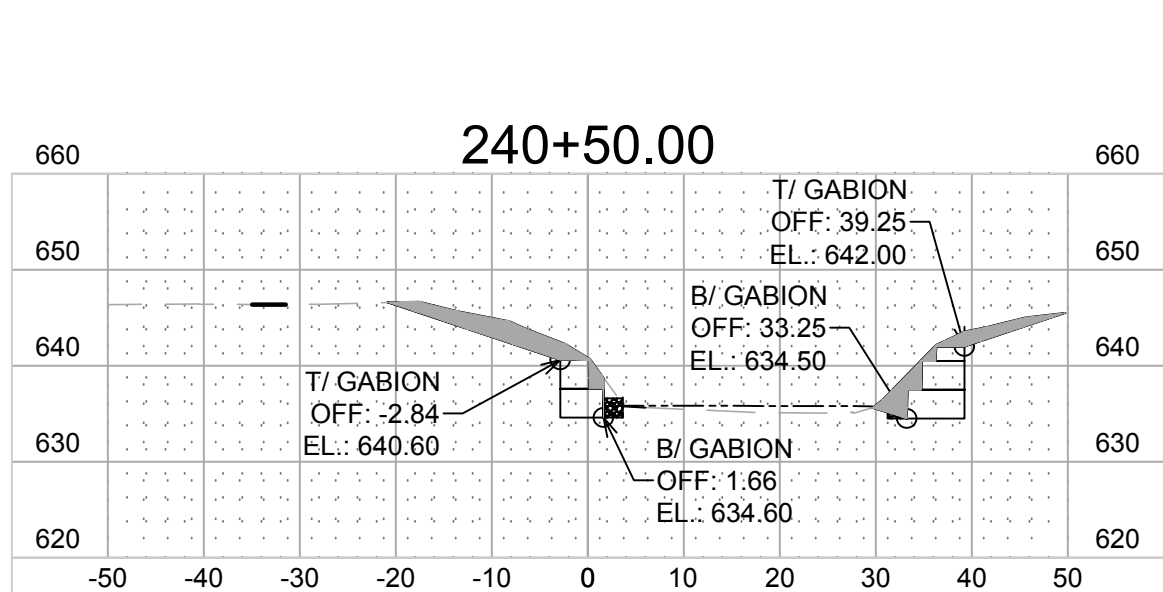
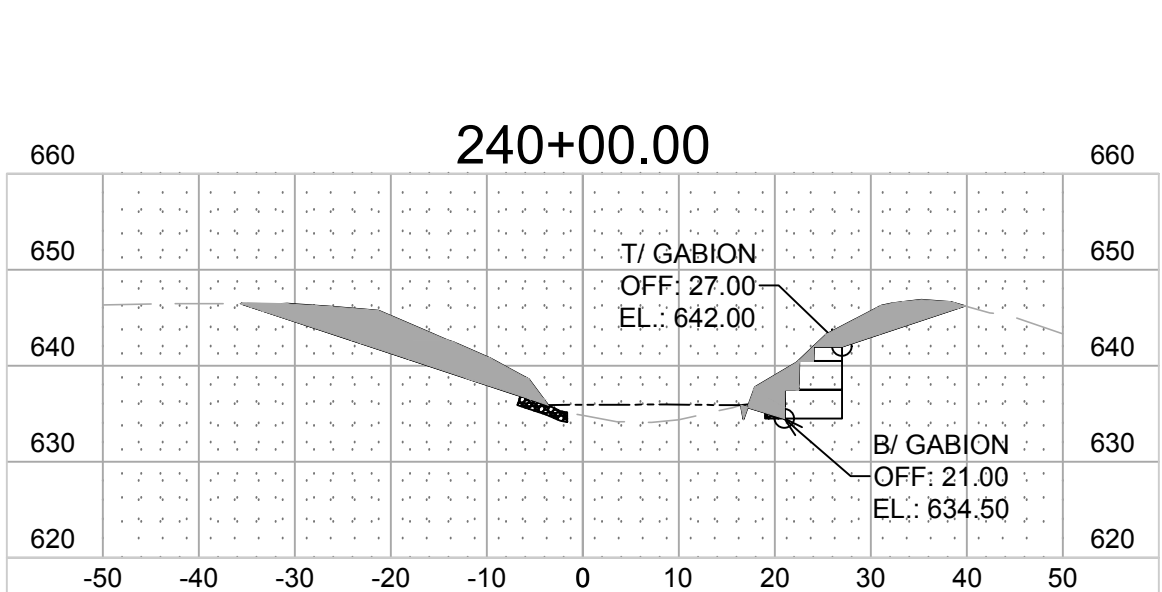
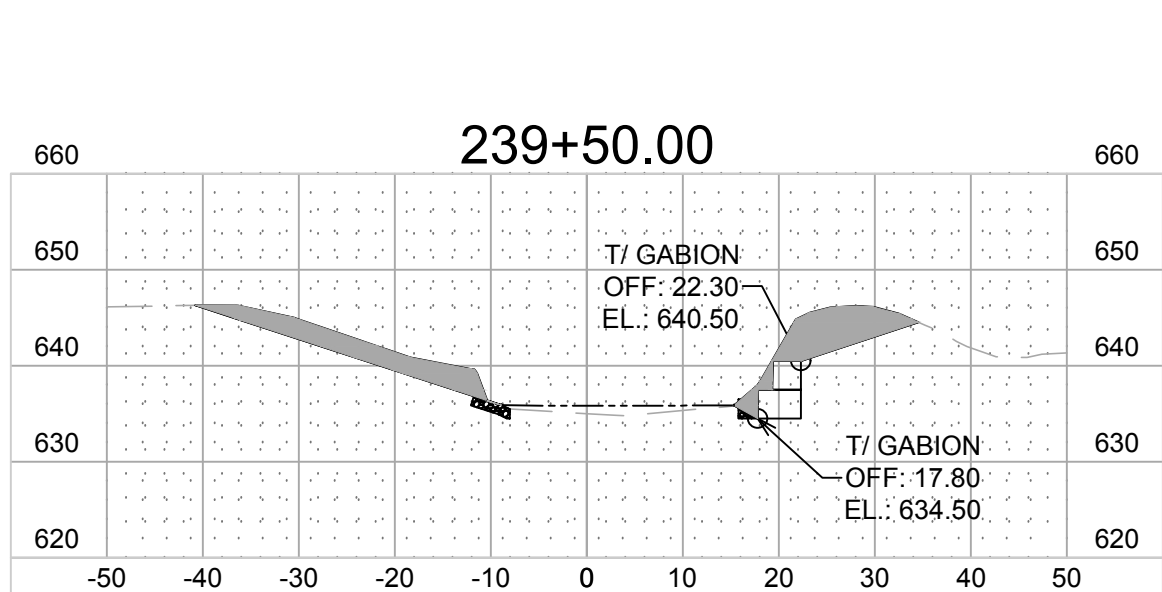
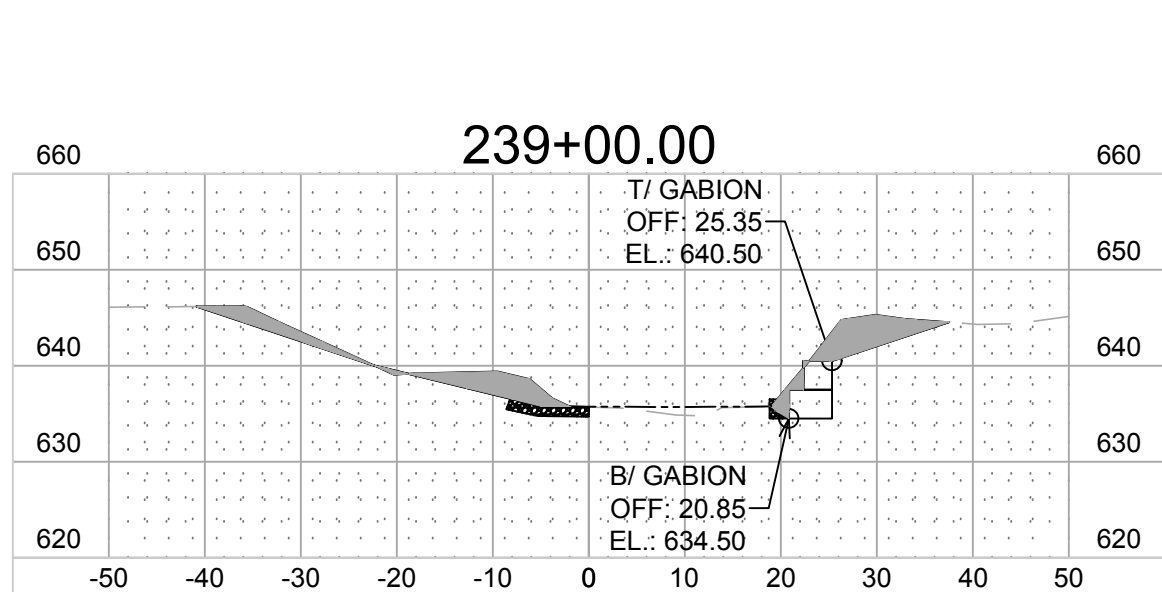
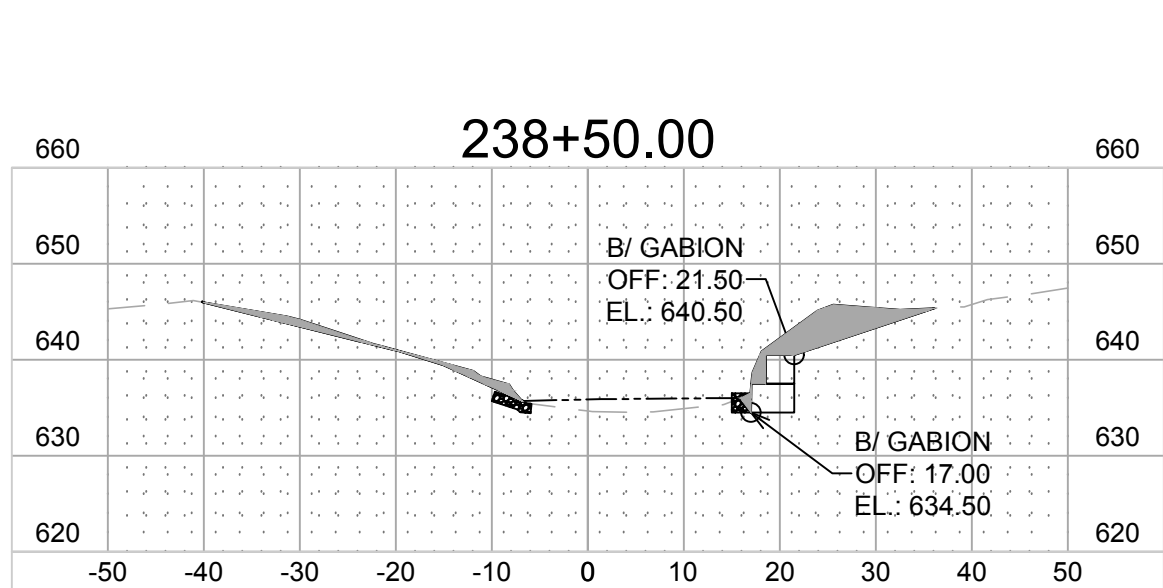
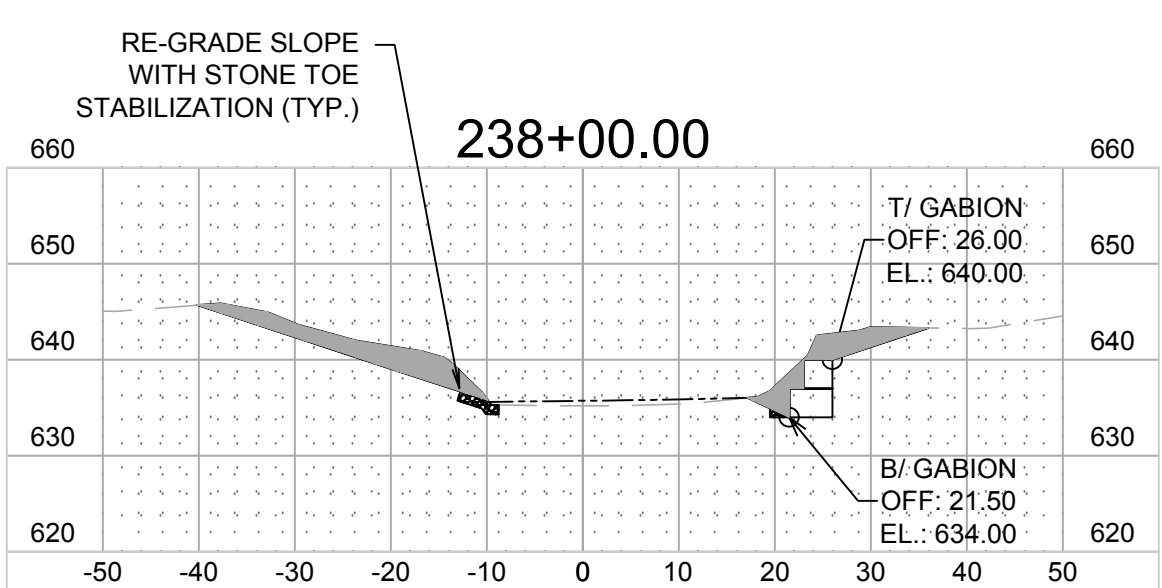
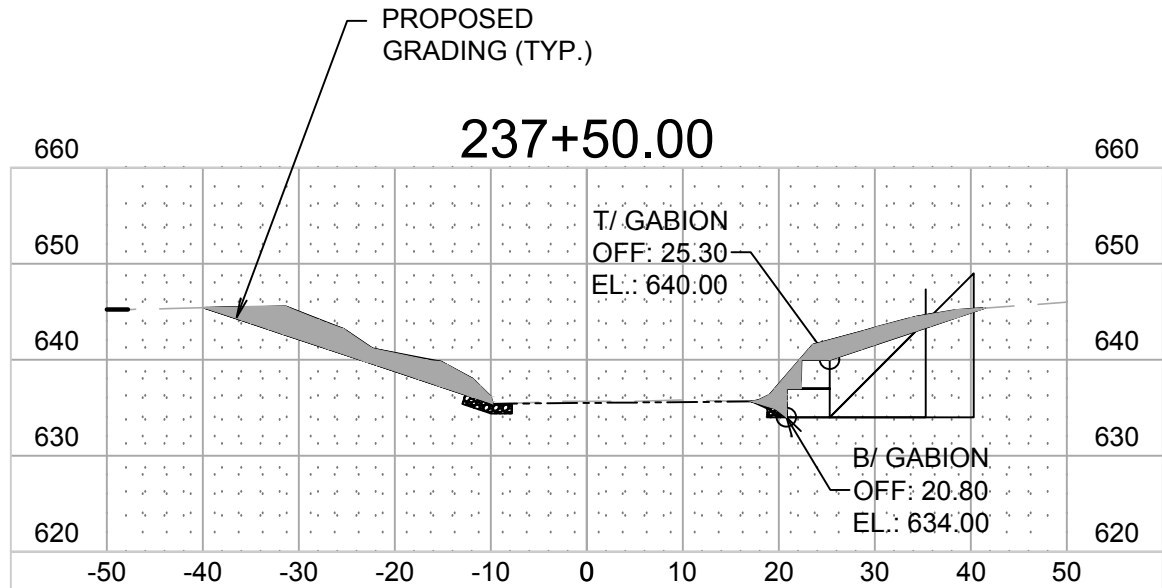
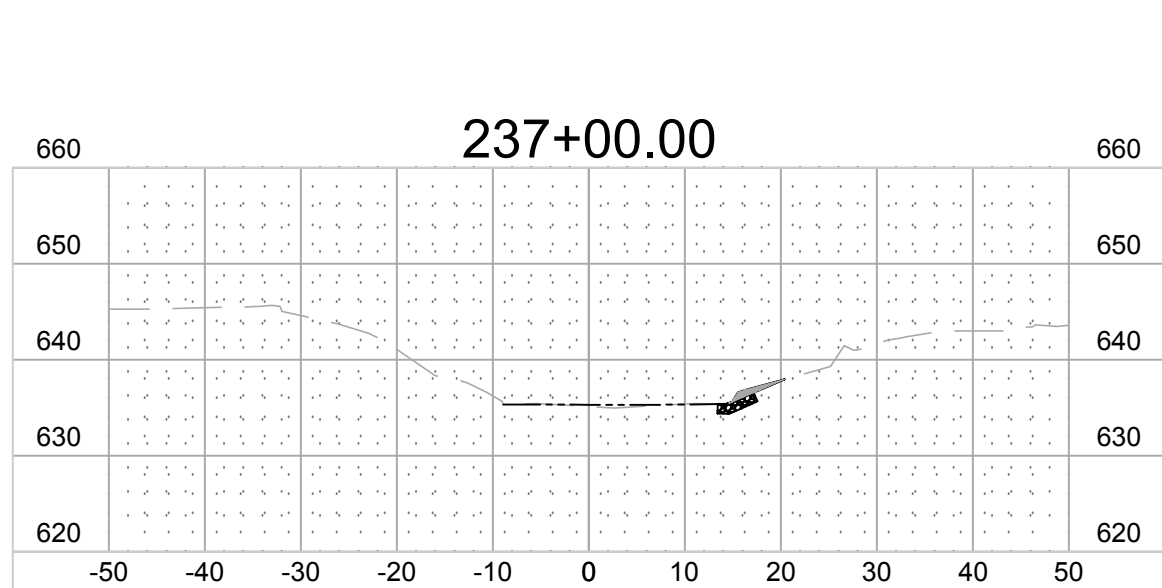
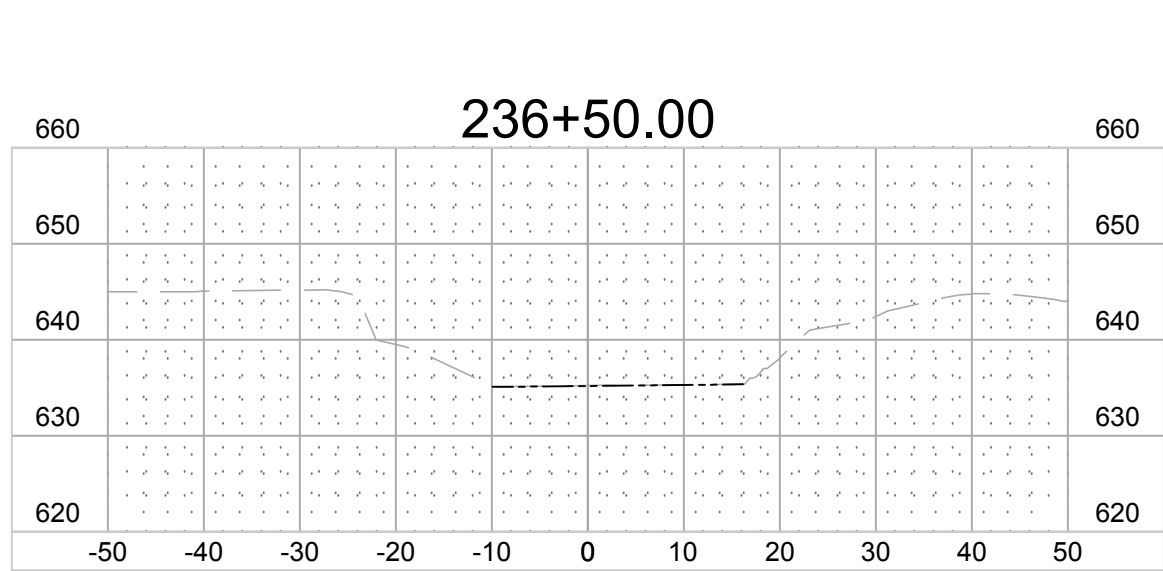
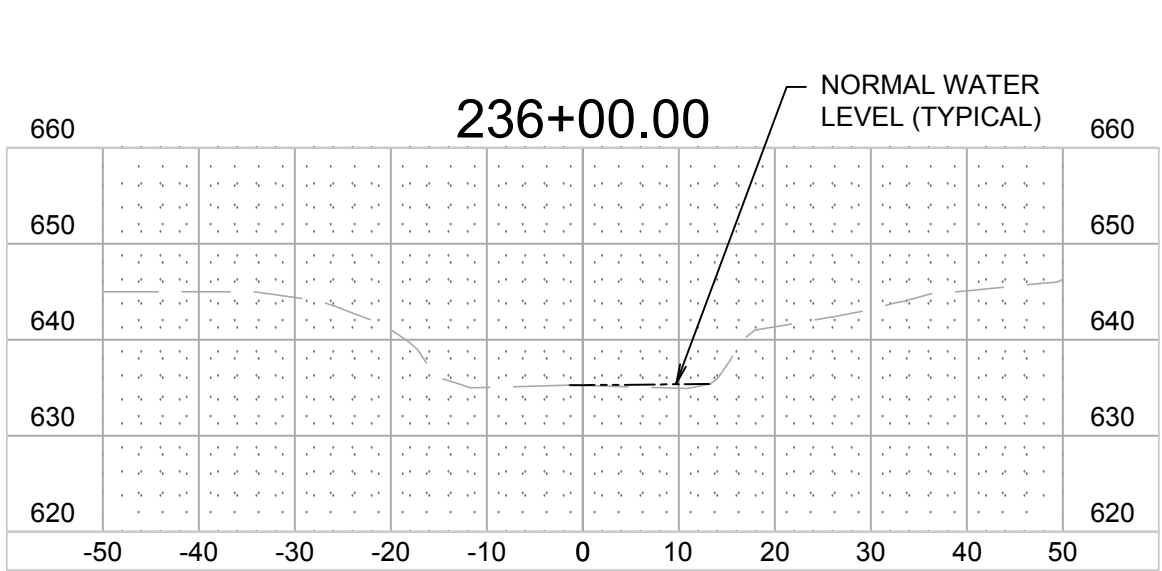
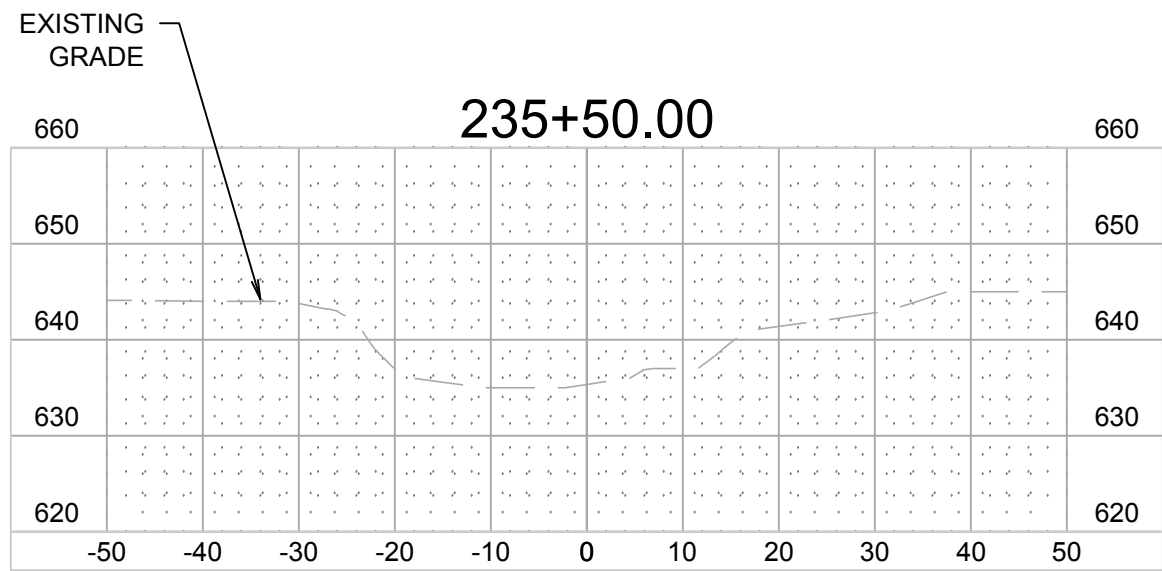
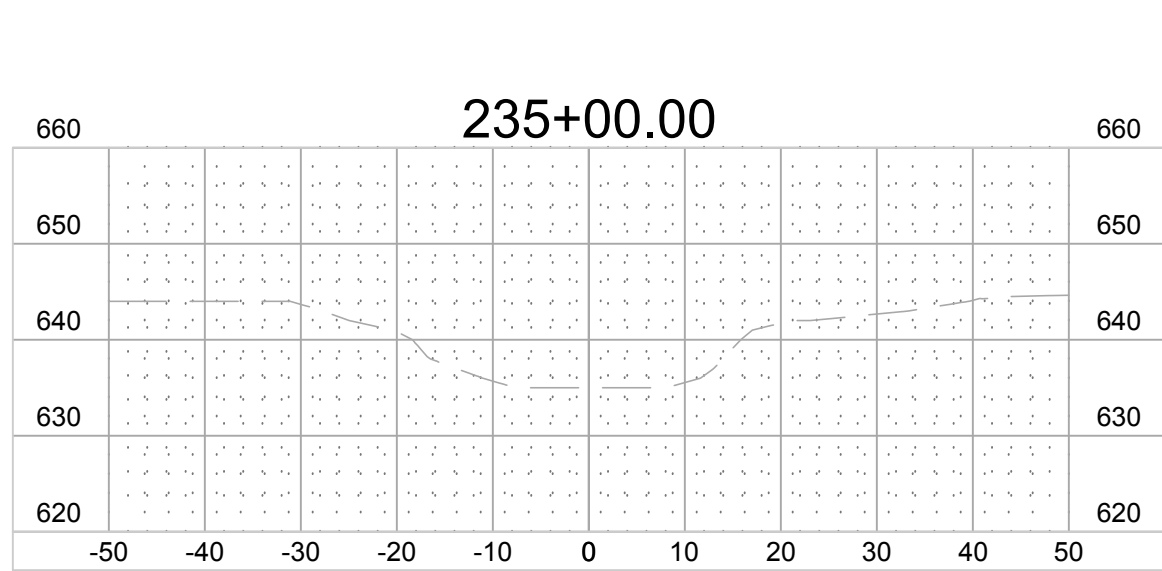
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
www.v3co.com

DRAWING NO.

C3.5

PROJECT NO.	230560
PROJECT MANAGER	CWH
DESIGNED BY	CWH
DRAWN BY	CG

ORIGINAL ISSUE DATE	JANUARY 31, 2024
DESCRIPTION	ISSUED FOR PERMIT
NO.	1
DATE	06/10/24
DESCRIPTION	REVISED PER USAGE COMMENTS
NO.	2
DATE	12/17/24
DESCRIPTION	ISSUED FOR COUNTY PERMITTING
NO.	3
DATE	01/31/25
DESCRIPTION	ISSUED FOR BID
NO.	4
DATE	06/23/25



WORK IS PROPOSED WITHIN THE
REGULATORY FLOODWAY AND
FLOODPLAIN. NO FILL SHALL BE PLACED
THAT EXTENDS ABOVE EXISTING GRADE.

REVISIONS

NO.	DATE	DESCRIPTION
1	06/10/24	ISSUED FOR PERMIT
2	12/17/24	REVISED PER USACE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID

PROJECT NO.: 230560

PROJECT MANAGER: CWH

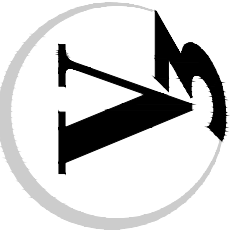
DESIGNED BY: CWH

DRAWN BY: CG

CROSS SECTIONS

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE
PARK DISTRICT OF HIGHLAND PARK
HIGHLAND PARK

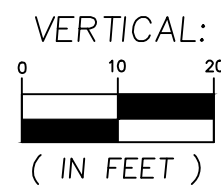
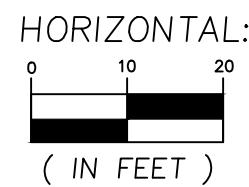
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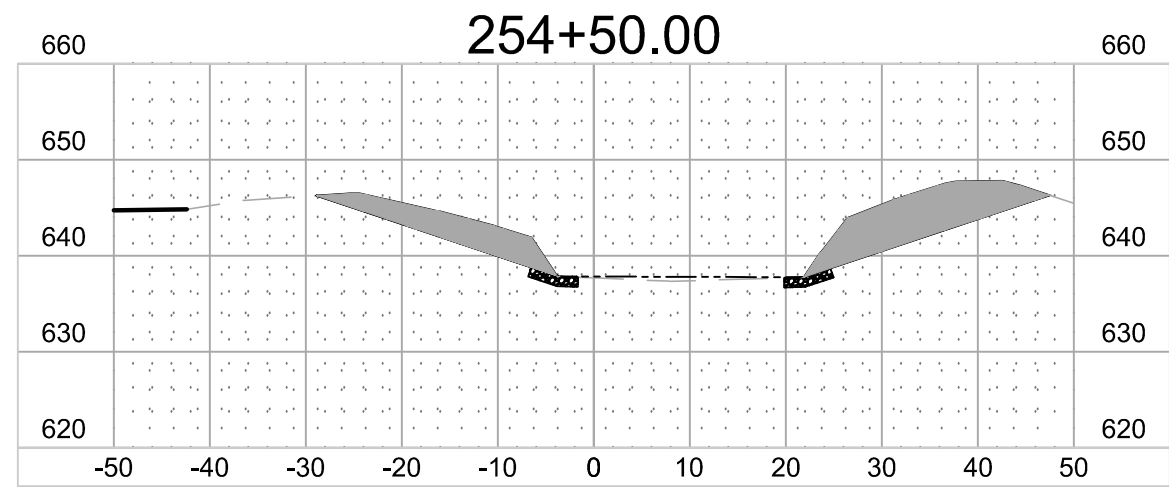
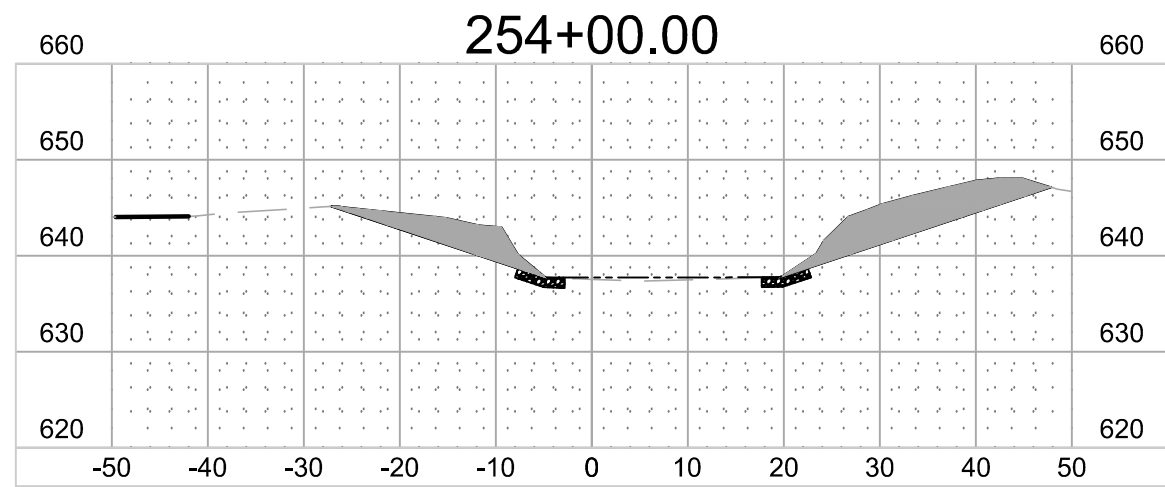
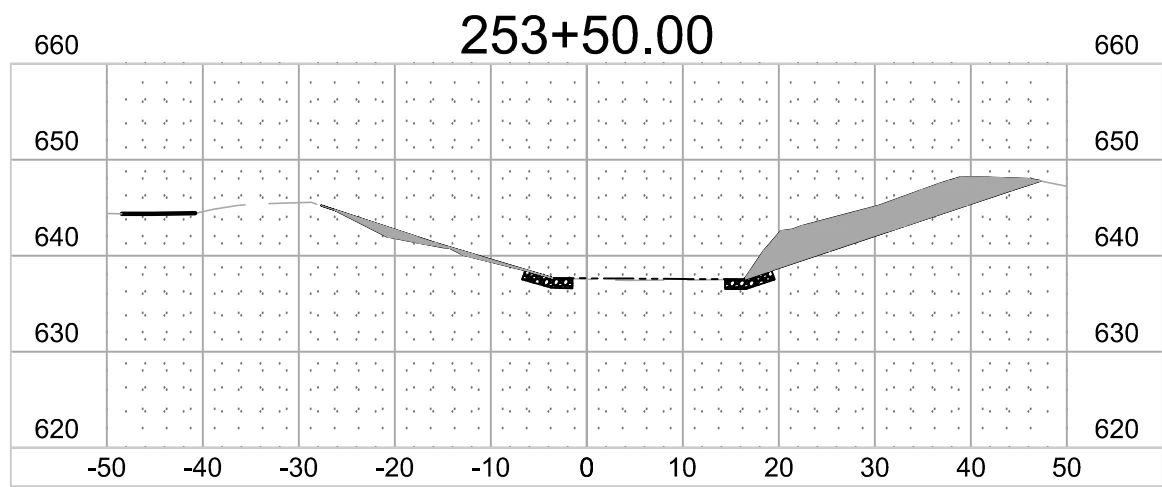
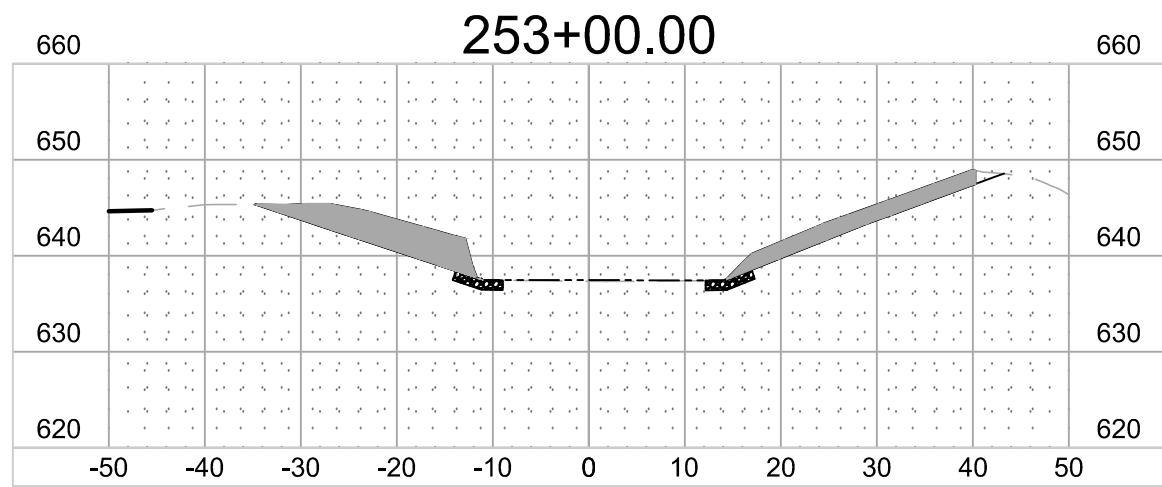
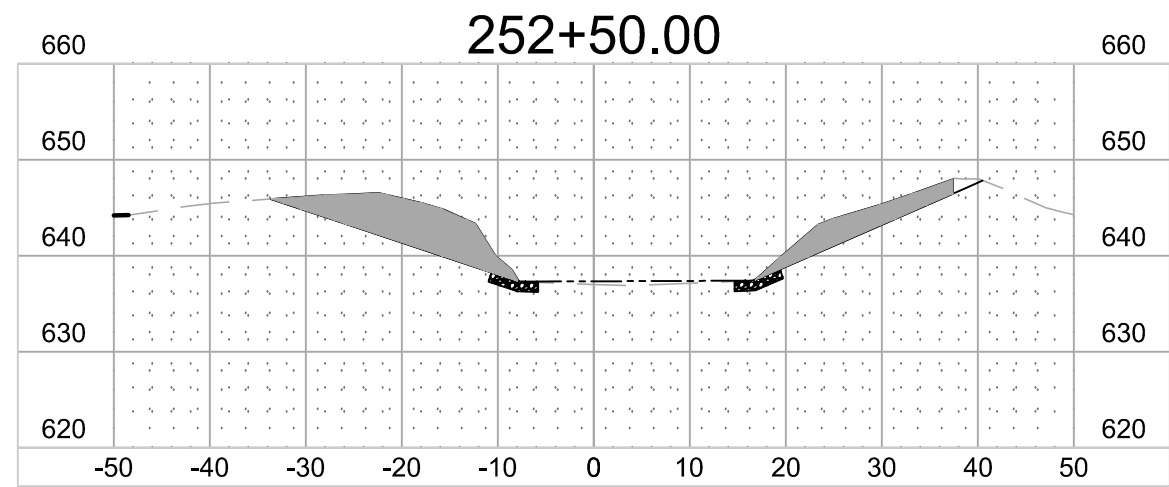
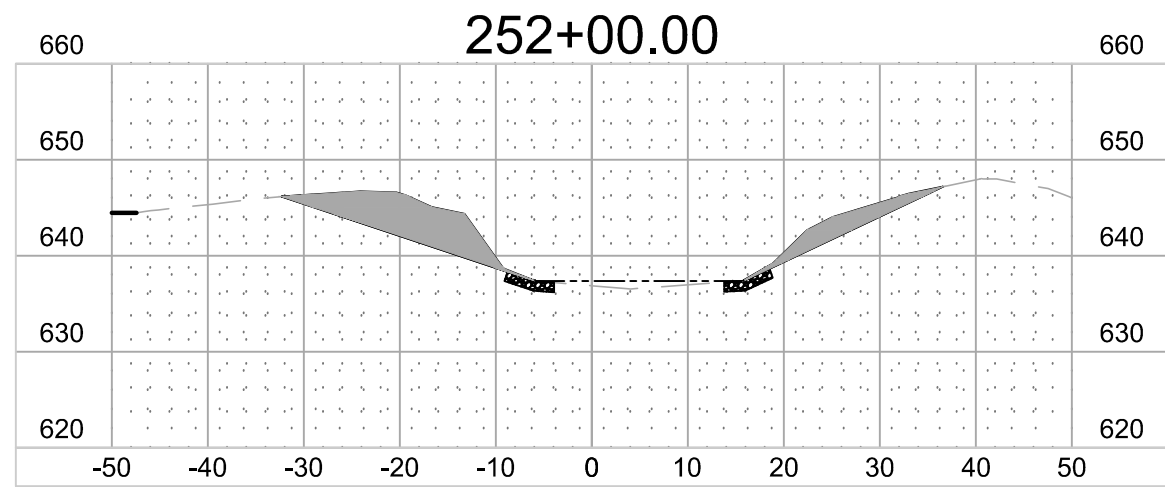
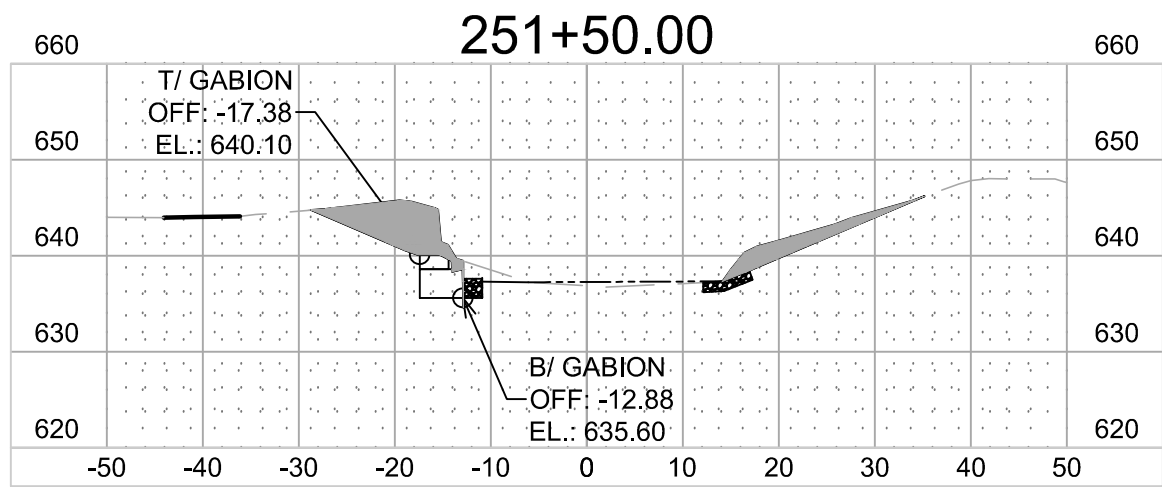
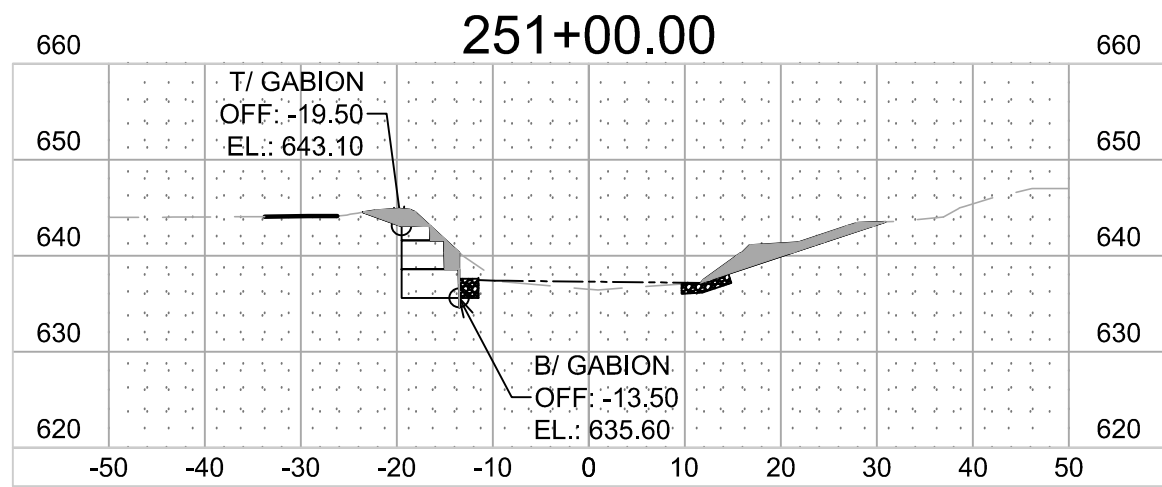
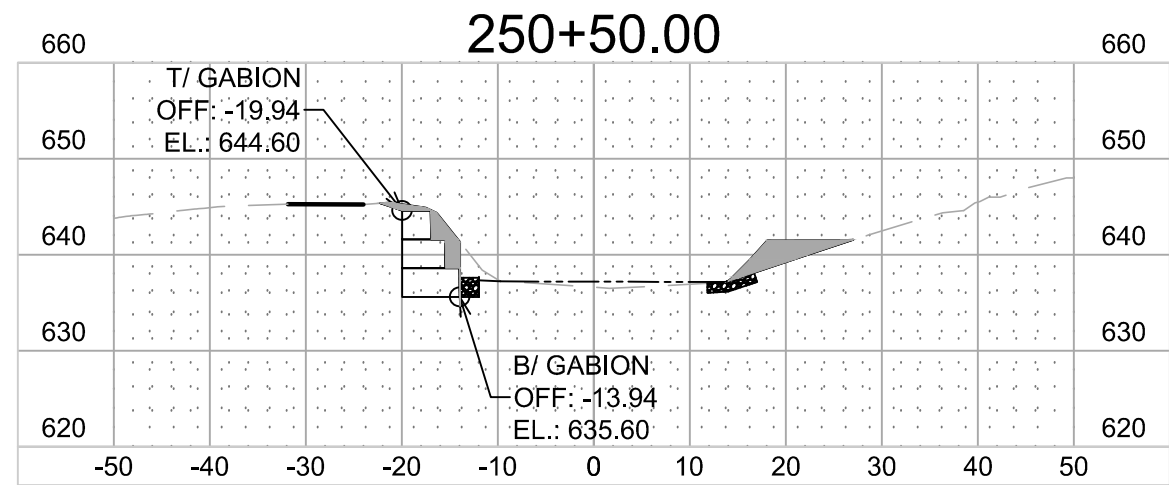
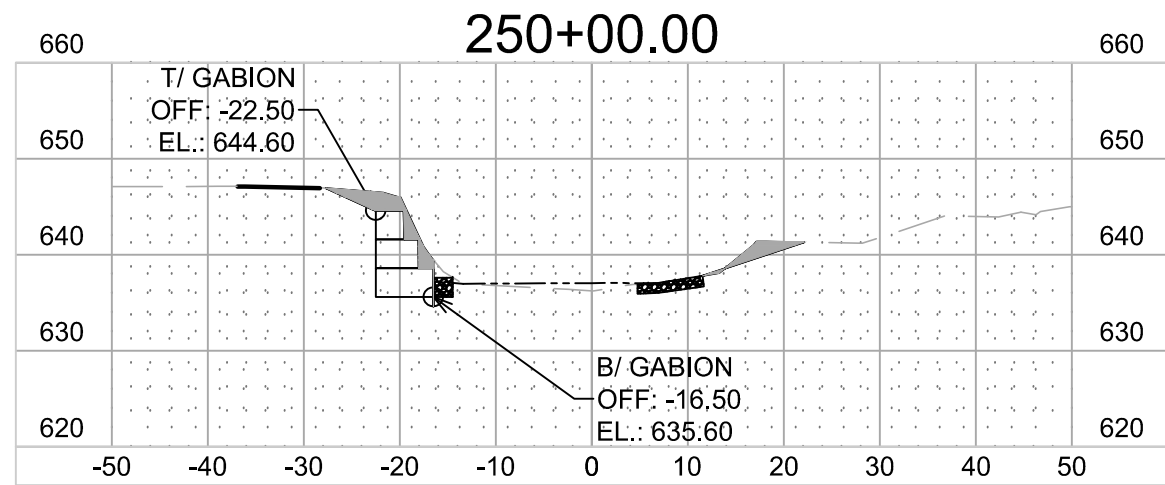
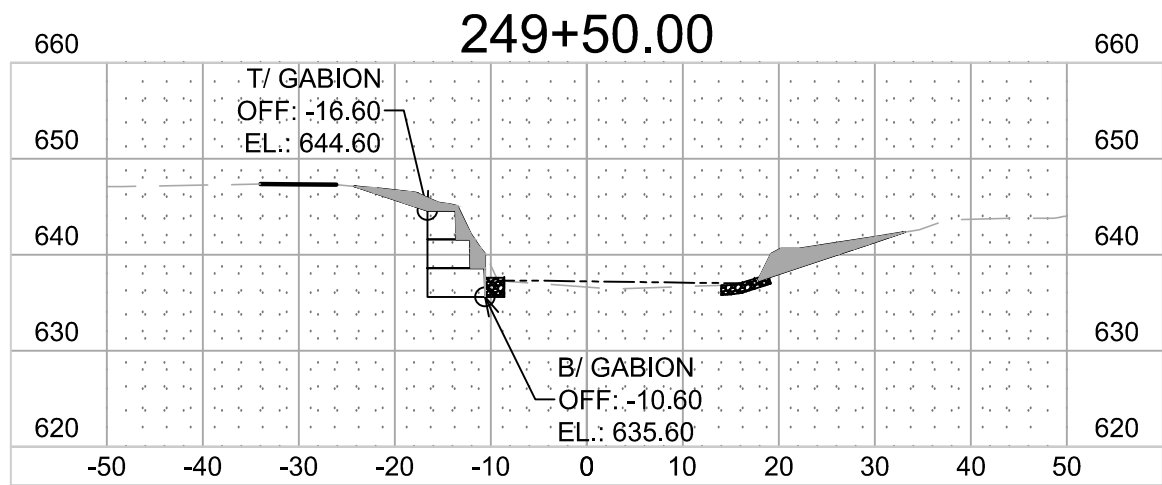
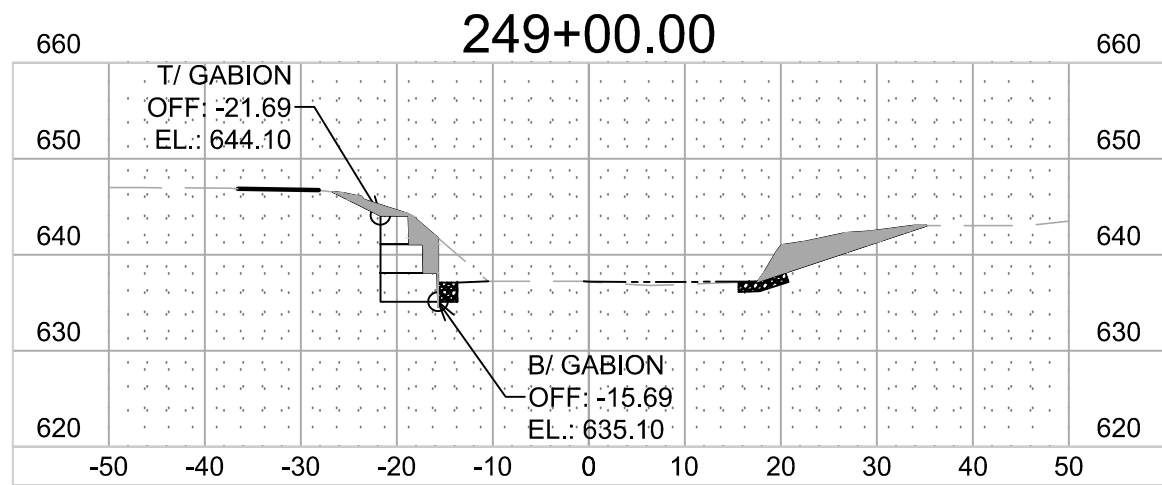
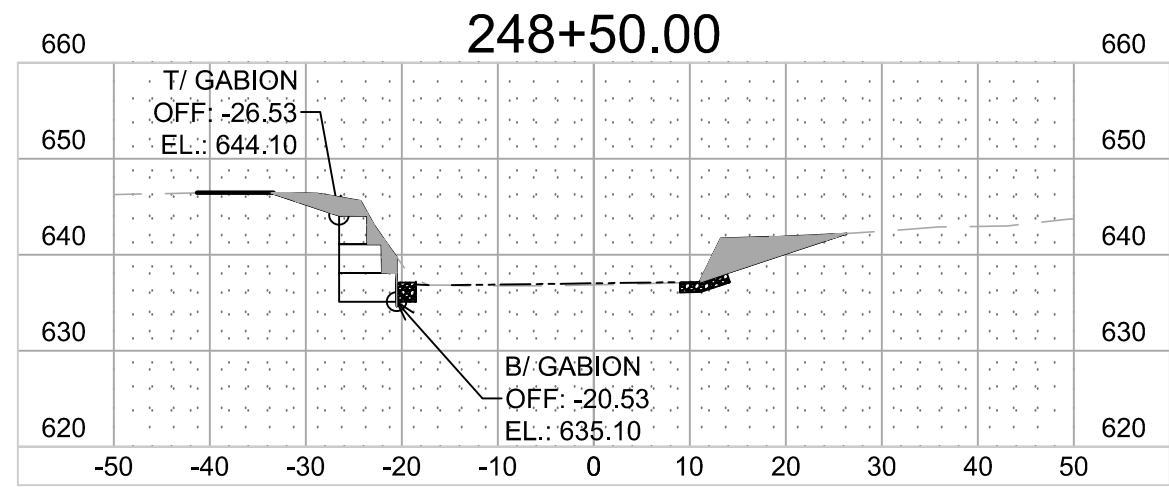
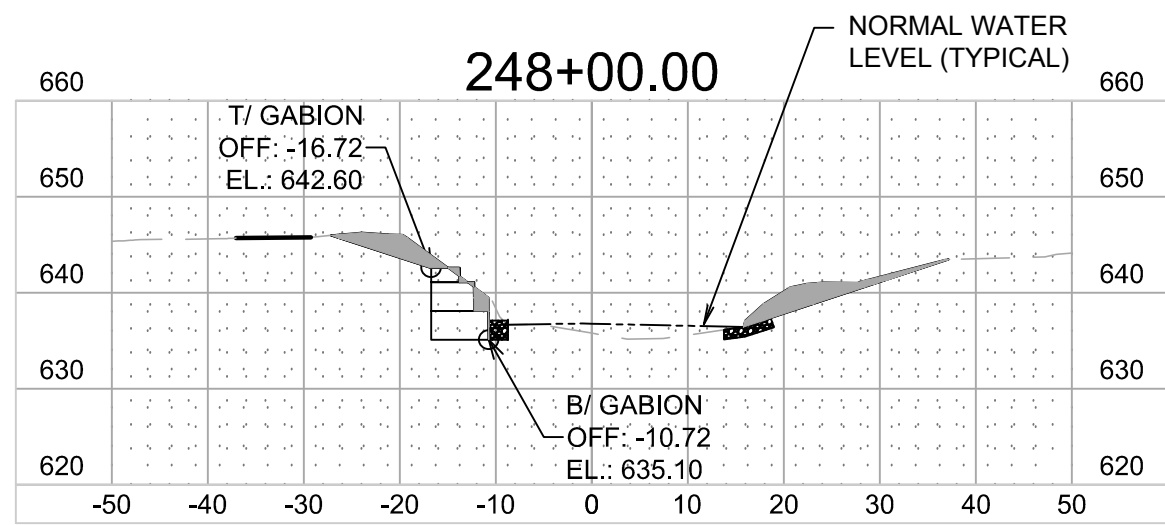
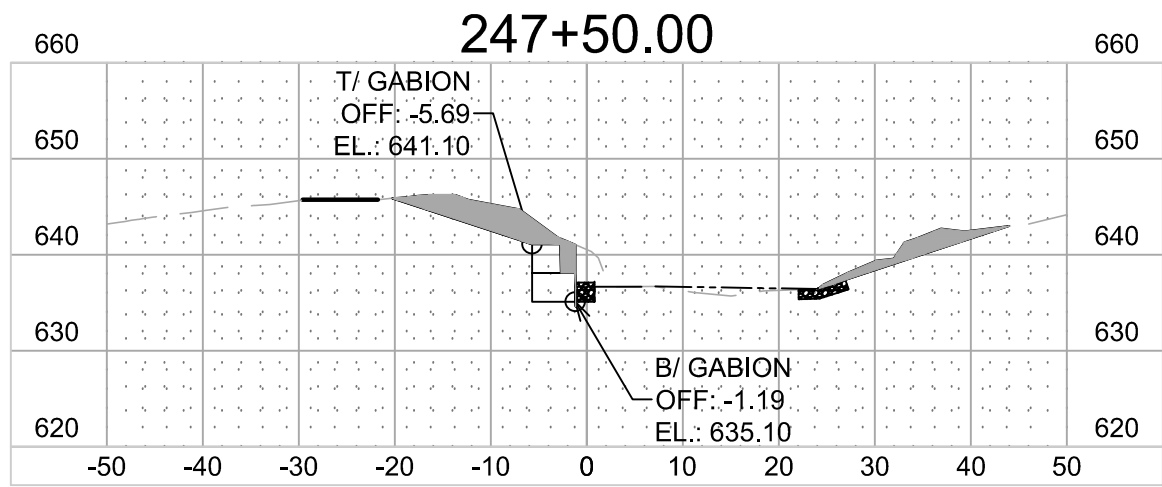
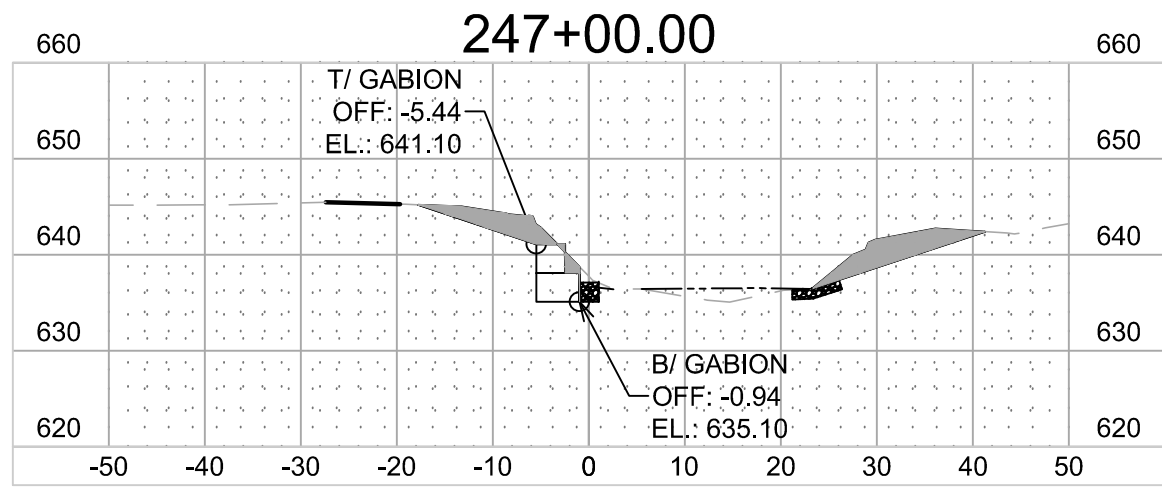
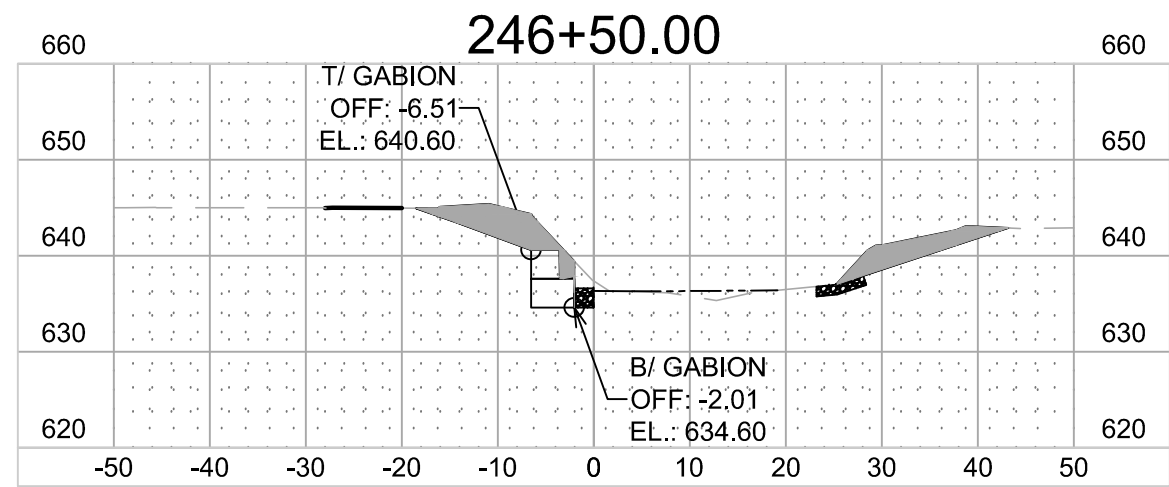
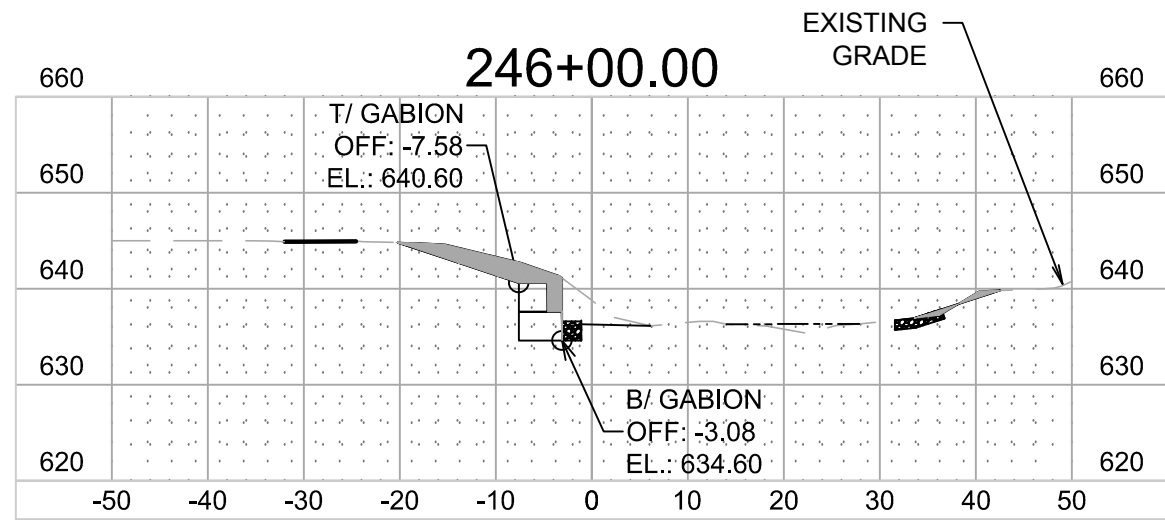
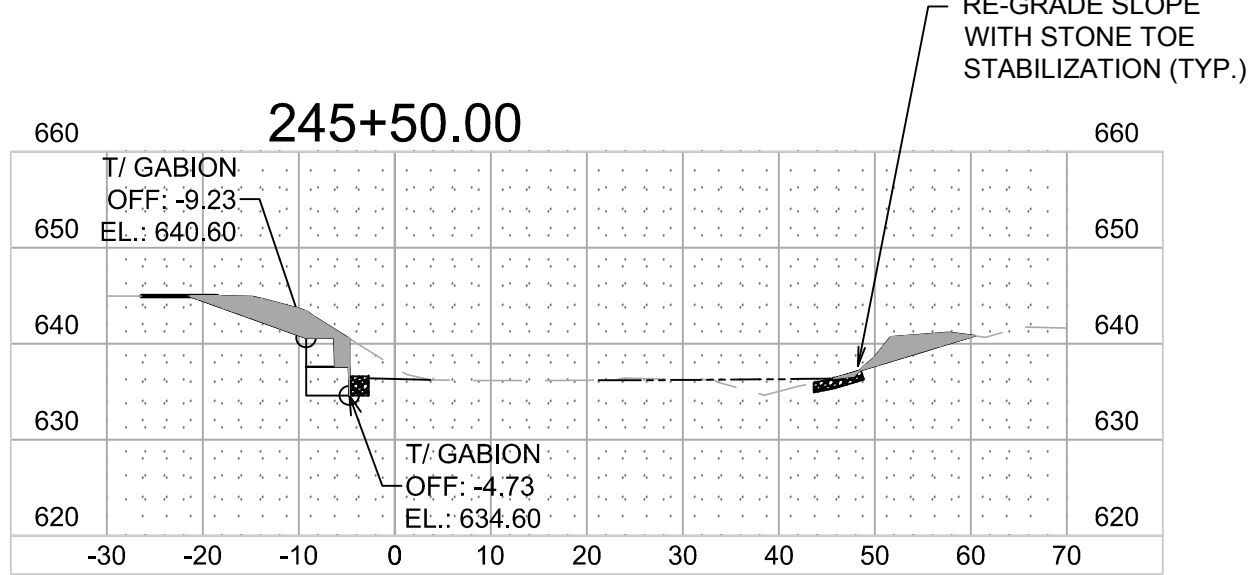
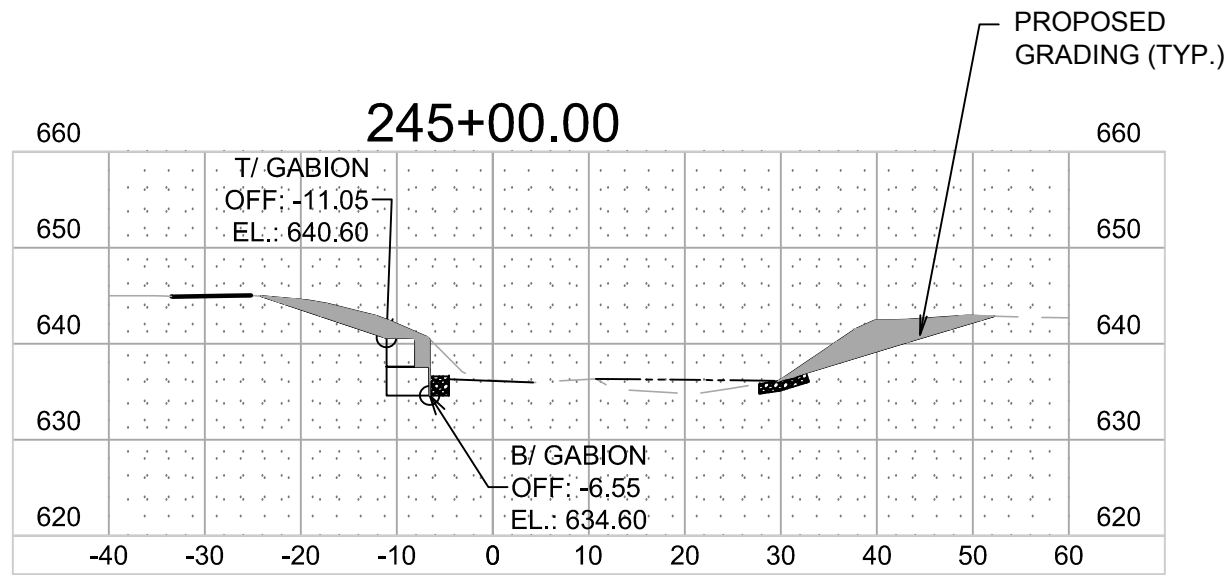


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C4.1

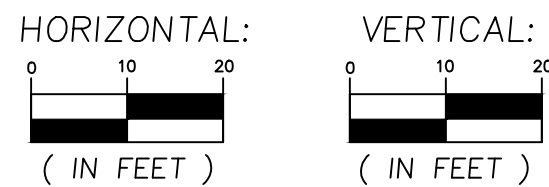
GRAPHIC SCALE





WORK IS PROPOSED WITHIN THE
REGULATORY FLOODWAY AND
FLOODPLAIN. NO FILL SHALL BE PLACED
THAT EXTENDS ABOVE EXISTING GRADE.

GRAPHIC SCALE

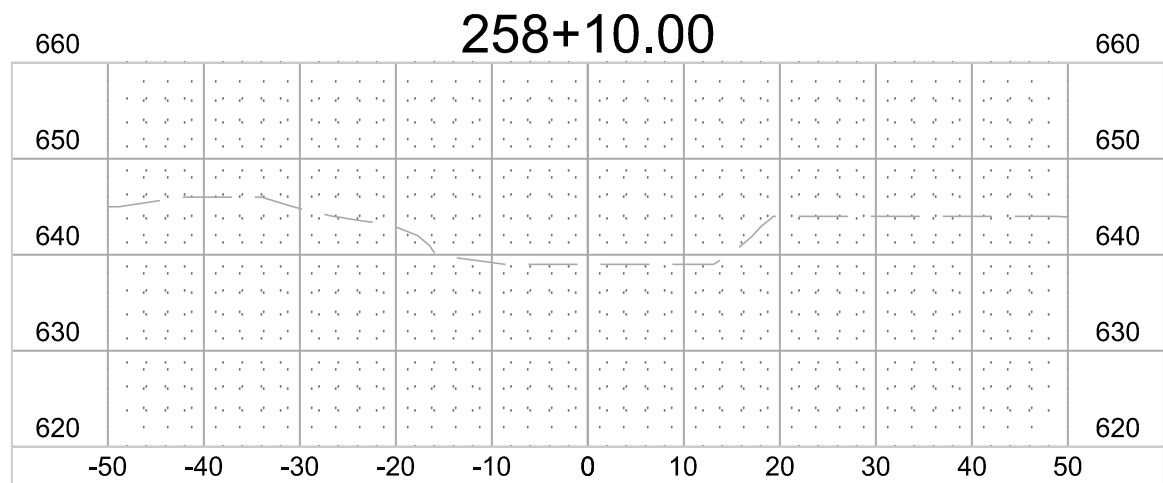
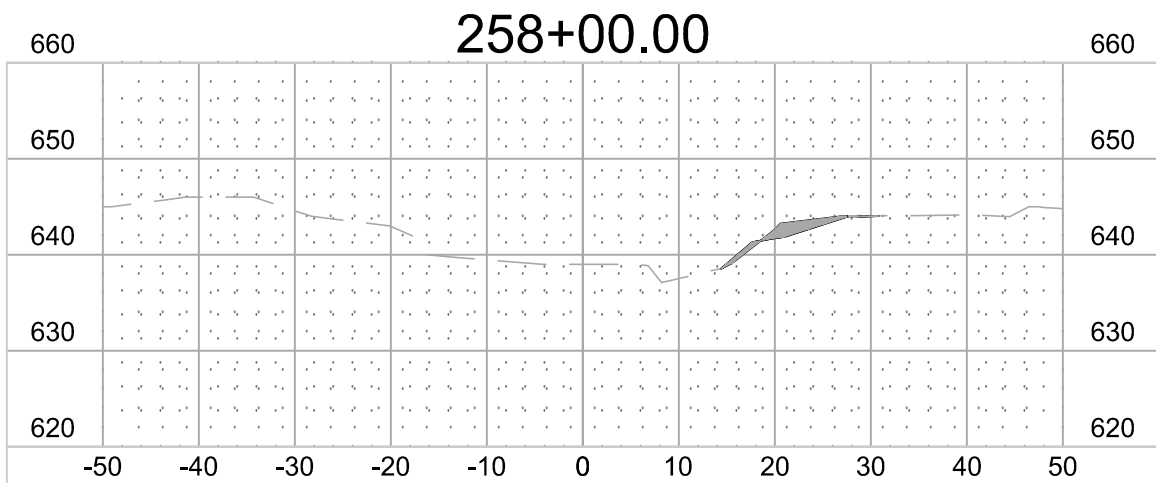
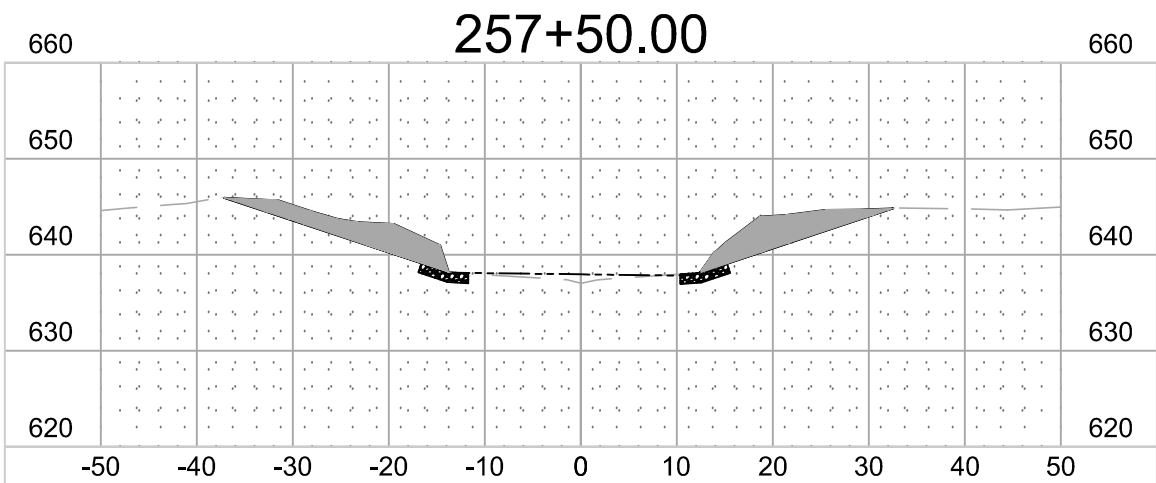
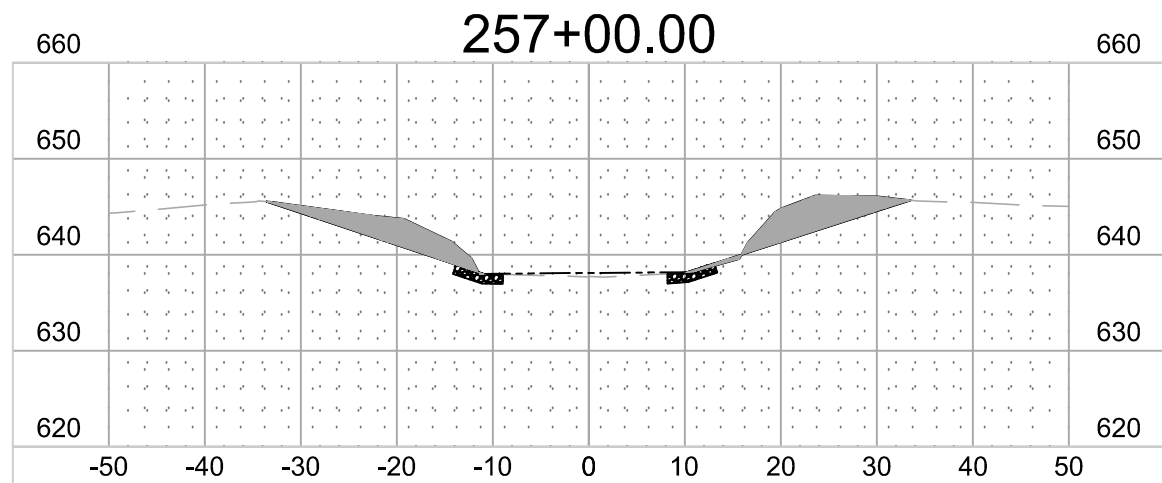
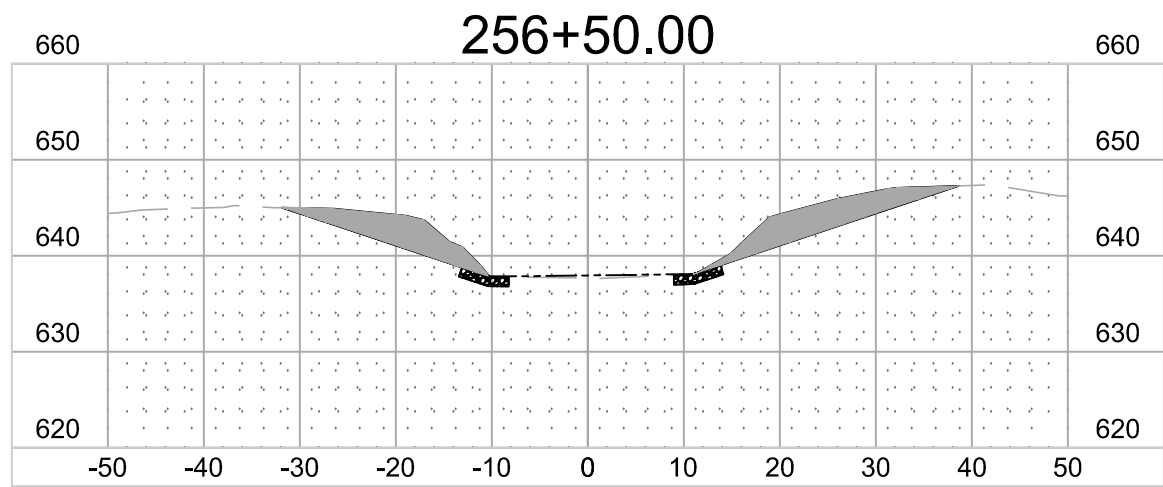
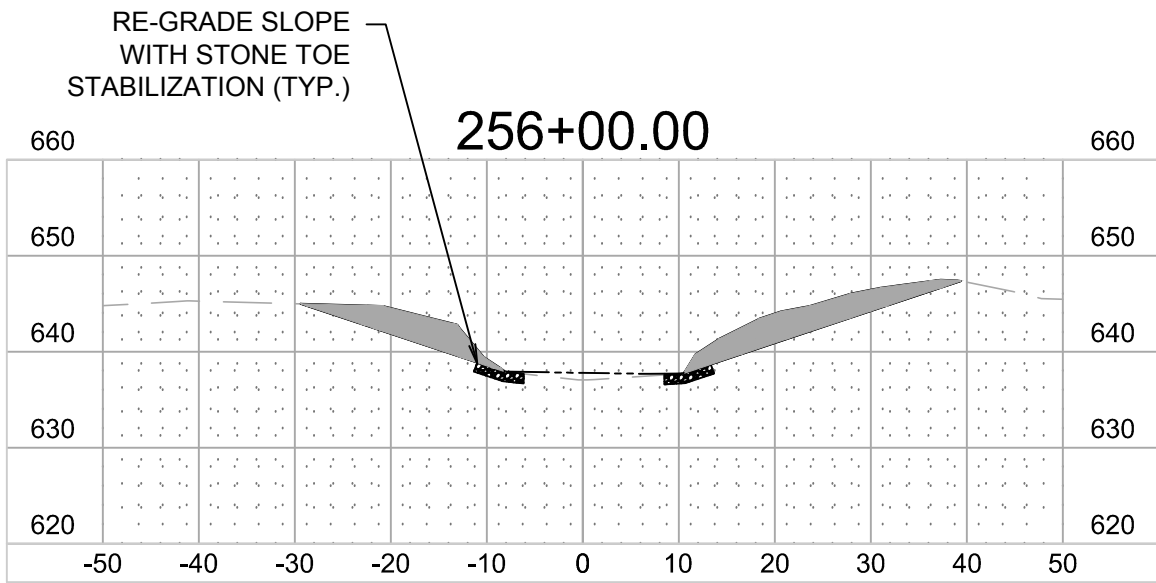
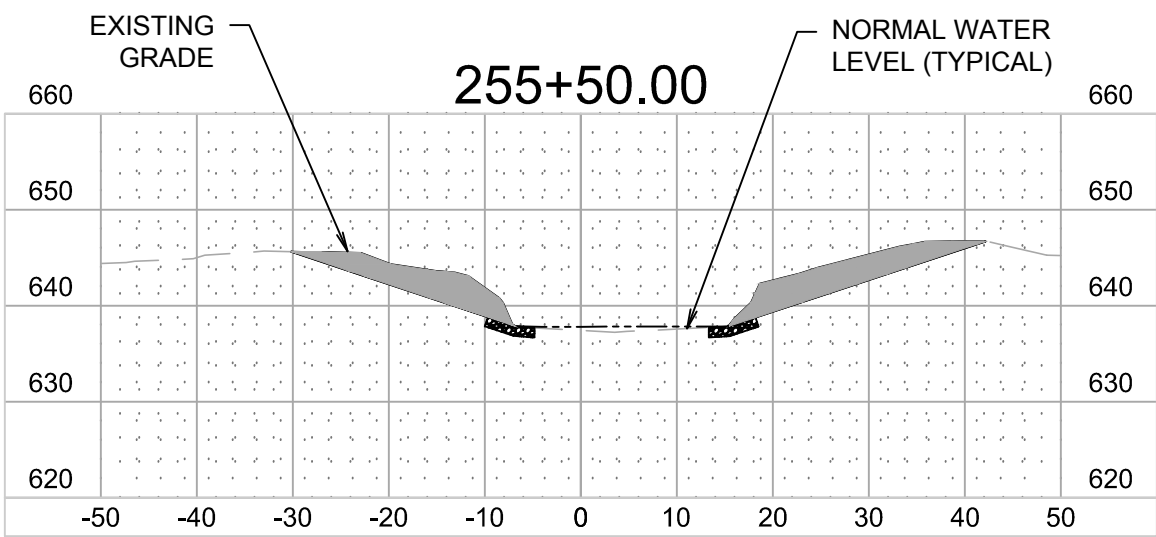
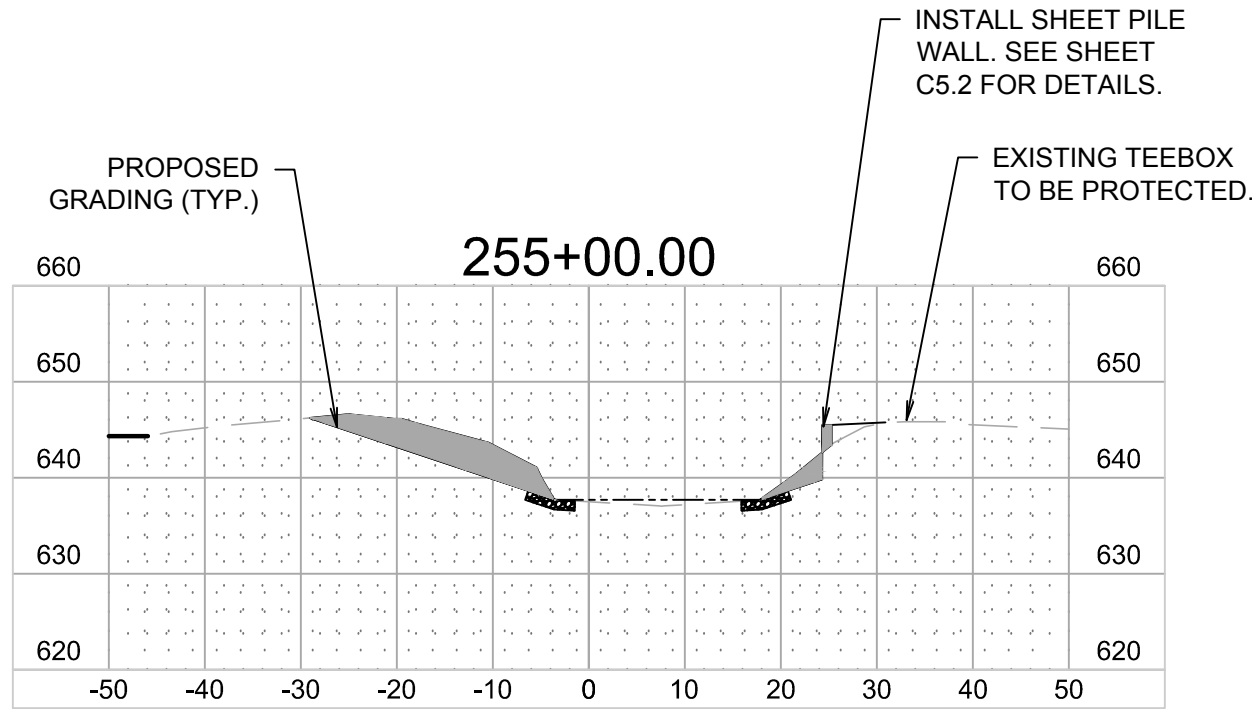


REV IS I O N S		DESCRIPTION	
NO.	DATE	DESCRIPTION	NO.
1	06/10/24	ISSUED FOR PERMIT	
2	12/17/24	REVISED PER USAGE COMMENTS	
3	01/31/25	ISSUED FOR COUNTY PERMITTING	
4	06/23/25	ISSUED FOR BID	

PROJECT NO.: 230560	PROJECT MANAGER: CWH	DESIGNED BY: CWH	DRAWN BY: CG
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CROSS SECTIONS	SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK HIGHLAND PARK	ILLINOIS
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7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone www.v3co.com	DRAWING NO. C4.2
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WORK IS PROPOSED WITHIN THE REGULATORY FLOODWAY AND FLOODPLAIN. NO FILL SHALL BE PLACED THAT EXTENDS ABOVE EXISTING GRADE.

PROJECT NO.: 230560
PROJECT MANAGER: CWH
DESIGNED BY: CWH
DRAWN BY: CG

ORIGINAL ISSUE DATE: JANUARY 31, 2024

REVISIONS

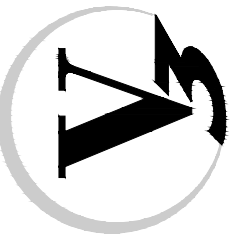
NO.	DATE	DESCRIPTION
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2	12/17/24	REVISED PER USACE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID

CROSS SECTIONS

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE
PARK DISTRICT OF HIGHLAND PARK
HIGHLAND PARK

ILLINOIS

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DRAWING NO.

C4.3

GRAPHIC SCALE

HORIZONTAL:
0 10 20
(IN FEET)

VERTICAL:
0 10 20
(IN FEET)

SEED LISTS

Skokie River Bank Stabilization

Broad Spectrum Prairie Seed Mix

Scientific Name	Common Name	Lbs/Ac
COVER CROP		
<i>Avena sativa</i>	oats	25,000
GRASSES & SEDGES		
<i>Andropogon gerardii</i>	big bluestem	1,500
<i>Andropogon scoparius</i>	little bluestem	7,000
<i>Bouteloua curtipendula</i>	side-oats grama	4,000
<i>Carex bicknellii</i>	Bicknells oval sedge	0.250
<i>Carex crinita</i>	fringed sedge	0.250
<i>Carex molesta</i>	troublesome sedge	0.250
<i>Carex vulpinoidea</i>	brown fox sedge	0.250
<i>Elymus canadensis</i>	Canada wild rye	2,000
<i>Elymus virginicus</i>	Virginia wild rye	2,000
<i>Hystrix patula</i>	bottlebrush grass	1,000
<i>Juncus dudleyi</i>	Dudley's rush	0.031
<i>Panicum virgatum</i>	switch grass	0.250
<i>Sorghastrum nutans</i>	Indian grass	1,500
FORBS		
<i>Asclepias incarnata</i>	swamp milkweed	0.063
<i>Asclepias syriaca</i>	common milkweed	0.063
<i>Asclepias tuberosa</i>	butterfly weed	0.250
<i>Aster novae-angliae</i>	New England aster	0.125
<i>Aster laevis</i>	smooth aster	0.063
<i>Aquilegia canadensis</i>	columbine	0.063
<i>Coreopsis lanceolata</i>	sand coreopsis	0.125
<i>Dalea purpurea</i>	purple prairie clover	0.250
<i>Echinacea pallida</i>	pale purple coneflower	0.125
<i>Echinacea purpurea</i>	purple conflower	0.375
<i>Eryngium yuccifolium</i>	rattlesnake master	0.375
<i>Helenium autumnale</i>	sneezeweed	0.125
<i>Helopsis helianthoides</i>	early sunflower	0.125
<i>Lupinus perennis</i>	wild lupine	0.125
<i>Monarda fistulosa</i>	wild bergamont	0.063
<i>Penstemon digitalis</i>	foxglove beard tongue	0.250
<i>Pycnanthemum virginianum</i>	mountain mint	0.031
<i>Ratibida pinnata</i>	yellow coneflower	0.375
<i>Rudbeckia hirta</i>	black-eyed Susan	0.125
<i>Rudbeckia subtomentosa</i>	sweet black-eyed Susan	0.125
<i>Rudbeckia triloba</i>	brown-eyed Susan	0.125
<i>Silphium integrifolium</i>	rosin weed	0.375
<i>Solidago rigida</i>	stiff goldenrod	0.375
<i>Solidago speciosa</i>	showy goldenrod	0.125
<i>Verbena stricta</i>	Hoary Vervain	0.125
<i>Zizia aurea</i>	golden Alexanders	0.250
Total Native: 24,877		

Highland Park Streambank Stabilization

Native Tree and Shrub List

Type	Species	Common Name
Large Tree	<i>Celtis occidentalis</i>	Hackberry
	<i>Quercus bicolor</i>	Swamp White Oak and White Oak
	<i>Tilia americana</i>	American Linden
	<i>Platanus occidentalis</i>	Sycamore
	<i>Quercus palustris</i>	Pin Oak
	<i>Acer saccharum</i>	Sugar Maple
Multistem Tree	<i>Betula nigra</i>	River Birch
	<i>Thuja occidentalis</i>	Arborvitae
	<i>Cercis canadensis</i>	Red Bud
	<i>Carpinus caroliniana</i>	Blue Beech
	<i>Malus ioensis</i>	Iowa Crab
	<i>Ostrya virginiana</i>	Ironwood
Shrub	<i>Staphylea trifolia</i>	Bladdernut
	<i>Viburnum prunifolium</i>	Blackhaw
	<i>Cornus sericea</i>	Red-Twig Dogwood
	<i>Physocarpus opulifolius</i>	Ninebark
	<i>Viburnum lentago</i>	Nannyberry
	<i>Aronia melanocarpa</i>	Black Chokeberry
		Buttonbush

EXACT LOCATION OF TREE AND SHRUB PLACEMENT SHALL BE DONE IN COORDINATION WITH OWNER AND CITY REPRESENTATIVES.

CONTRACTOR SHALL BE RESPONSIBLE FOR AT LEAST:
230 TREES
99 SHRUBS

REFER TO CONTRACT DOCUMENTS AND SPECIAL PROVISIONS FOR TREE AND SHRUB REQUIREMENTS.

HEIGHT

LENGTH

4.5 FEET	25 LF
6.0 FEET	795 LF
7.5 FEET	455 LF
9.0 FEET	300 LF

PROPOSED GRADE 3:1 SLOPE (TYP.). PLANT WITH BROAD SPECTRUM PRAIRIE SEED MIX (USE NAG S75BN ECB ABOVE SOIL LIFT)

PROPOSED SOIL LIFT OVER TOP OF GABION. WRAP WITH NAG SC150 (OR APPROVED EQUAL) PLACE STAKES EVERY 18-INCHES O.C.

EXISTING GRADE

COARSE AGGREGATE BACKFILL (CA-1)

FILTER FABRIC

AT EXISTING PIPE DISCHARGE LOCATIONS, CUT GABION BASKET TO ALLOW FOR PASSAGE OF OUTLET PIPE (PAID FOR AS STORM DRAIN OUTLET MODIFICATION)

NORMAL WATER LEVEL

STREAM CHANNEL

2' STONE TOE PROTECTION RR-3 RIP RAP (16-INCHES THICK)

SECOND BASKET FOR GABIONIS WITH 3 BASKETS HIGH PER NRCS DETAIL (NOT REQUIRED FOR SHORTER SECTIONS)

FIRST GABION SHALL BE BURIED A MINIMUM OF 12-INCHES BELOW NORMAL WATER LINE

NOTES:
1. GABIONS SHALL BE CONSTRUCTED IN VARYING HEIGHTS TO MATCH TOP OF EXISTING BANK (SEE CROSS SECTIONS) AND SHALL BE STEPPED BY 18-INCH INCREMENTS. FOLLOW DETAILS IL-641, IL-643, IL-645, AND IL-646 DEPENDING ON THE HEIGHT OF THE GABIONS.

GABION DETAIL

PROPOSED SLOPE

EXISTING GRADE

CUT BACK EXISTING DRAINAGE PIPE TO DAYLIGHT AT PROPOSED SLOPE

NORMAL WATER LEVEL

INSTALL RR-3 RIP RAP FROM PIPE PENETRATION TO 1' BELOW EDGE OF WATER (2-FT WIDE)

STORM DRAIN OUTLET PROTECTION (NON-GABION)

STRUCTURAL STREAMBANK STABILIZATION - GABIONS

ASSEMBLY AND LACING DETAILS

Top

Fold Ends And Sides Up

Diaphragm

ASSEMBLY DETAIL

Wrap Inner Tie End 3 Times Around Twist Of Gabion Mesh Panel

9"

1'-6"

9"

1'-6"

9"

9"

INNER TIE WIRE DETAILS

One Loop

Two Loops

4"

4"

LACING DETAIL

Top

Side


See Lacing Detail Above

End

WIRE LACING DETAIL

NOTES:
1. The ends of a lacing wire will be secured by looping it thru the mesh and twisting. Proceed to lace with alternate two loops and one loop at approximately 4 inch intervals.
2. Other lacing methods may be used if recommended by the manufacturer and approved by the engineer/inspector.
3. The "X" shaped inner tie may be twisted at the "X" to tighten, if placed too loosely.

REFERENCE Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

 NRCS

Natural Resources Conservation Service

STANDARD DWG. NO. IL-645
SHEET 1 OF 1
DATE 5-18-94

STRUCTURAL STREAMBANK STABILIZATION - GABIONS

2 BASKETS HIGH W/O MAT

Top Of Slope

1.5 Or Flatter

Earth Fill

3'

Gabion

Filter Fabric

3'Max

1'-6"

3'

Coarse Aggregate Backfill

1'Min

3'

Gabion

Lacing Between Tiers


Stream Channel

SECTION

NOTE:
BURY BOTTOM SECTION OF GABION WALL A MINIMUM OF 15-INCHES BELOW CHANNEL ELEVATION.

NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III.
2. The coarse aggregate backfill shall meet the IDOT requirement for the following gradations CA-1, CA-3 or RR-1.
3. The Gabions shall be installed according to construction specification 64 WIRE MESH GABIONS
4. Baskets which are stacked in tiers shall have vertical seams staggered for each row and tier.
5. The coarse aggregate backfill shall be placed level with the top of the lower basket before the upper basket is installed.

REFERENCE Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

 NRCS

Natural Resources Conservation Service

STANDARD DWG. NO. IL-641
SHEET 1 OF 1
DATE 5-16-94

STRUCTURAL STREAMBANK STABILIZATION - GABIONS

1 BASKET HIGH WITH SLOPE MAT

EXISTING GRADE

TIE INTO EXISTING SLOPE (MAX SLOPE 3:1)

Lacing

Gabion Basket

Stream Channel

Coarse aggregate Backfill

Bury End Of Fabric 12" Min


3'

SECTION

NOTE: NO GABION MAT IS PROPOSED BEHIND 1 BASKET HIGH GABION WALL AS SHOWN ON TYPICAL NRCS DETAIL

NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III.
2. The coarse aggregate backfill shall meet the IDOT requirement for the following gradations CA-1, CA-3 or RR-1.
3. The Gabions shall be installed according to construction specification 64 WIRE MESH GABIONS
4. The gabion mat will be placed on a side slope of 2:1 or flatter.

REFERENCE Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

 NRCS

Natural Resources Conservation Service

STANDARD DWG. NO. IL-646
SHEET 1 OF 1
DATE 8-18-94

STRUCTURAL STREAMBANK STABILIZATION - GABIONS

3 BASKETS HIGH W/O MAT

Top Of Slope

1.5 Or Flatter

Earth Fill

3'

Gabion

Filter Fabric

3'Max

1'-6"

3'

Coarse Aggregate Backfill

1'Min

3'

Gabions

Lacing Between Tiers


Stream Channel

SECTION

NOTE:
BURY BOTTOM SECTION OF GABION WALL A MINIMUM OF 15-INCHES BELOW CHANNEL ELEVATION.

NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III.
2. The coarse aggregate backfill shall meet the IDOT requirement for the following gradations CA-1, CA-3 or RR-1.
3. The Gabions shall be installed according to construction specification 64 WIRE MESH GABIONS
4. Baskets which are stacked in tiers shall have vertical seams staggered for each row and tier.

REFERENCE Project _____ Date _____
Designed _____ Date _____
Checked _____ Date _____
Approved _____ Date _____

 NRCS

Natural Resources Conservation Service

STANDARD DWG. NO. IL-643
SHEET 1 OF 1
Date 5-16-94

REVISIONS

NO.	DATE	DESCRIPTION
1	06/10/24	ISSUED FOR PERMIT
2	12/17/24	REVISED PER USACE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID

PROJECT NO.: 230560

PROJECT MANAGER: CWH

DESIGNED BY: CWH

DRAWN BY: CG

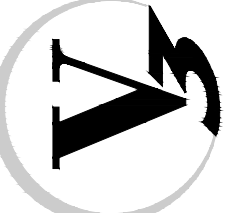
CONSTRUCTION DETAILS

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK

HIGHLAND PARK

ILLINOIS

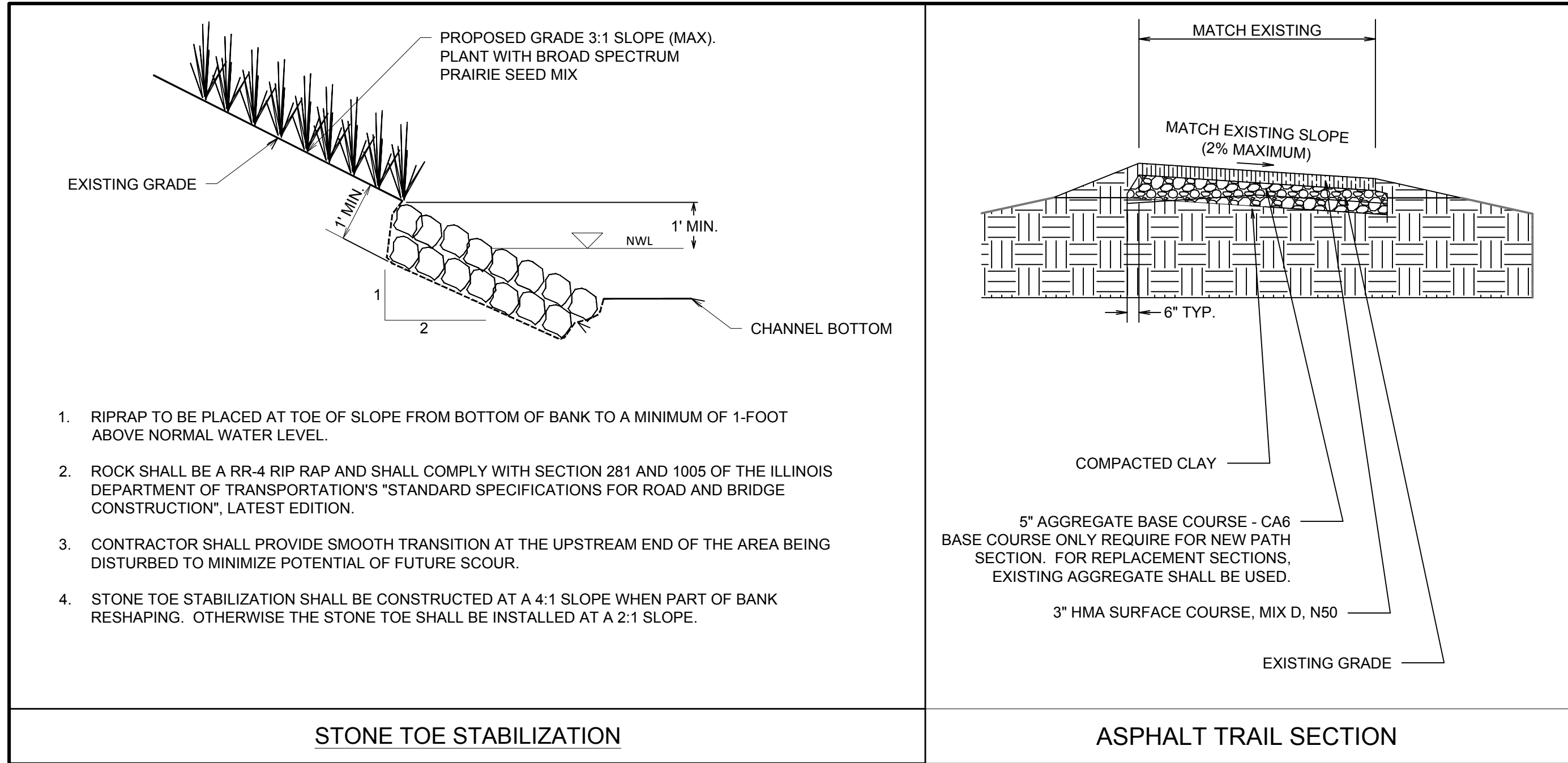
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DRAWING NO.

C5.1

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STONE TOE STABILIZATION

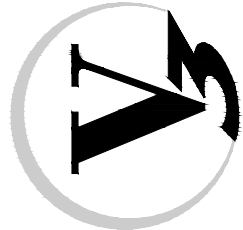
ASPHALT TRAIL SECTION

CONSTRUCTION DETAILS

SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE
PARK DISTRICT OF HIGHLAND PARK

HIGHLAND PARK ILLINOIS

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DRAWING NO.

C5.2

PROJECT NO.:

230560

PROJECT MANAGER:

CWH

DESIGNED BY:

CWH

DRAWN BY:

CG

ORIGINAL ISSUE DATE: JANUARY 31, 2024

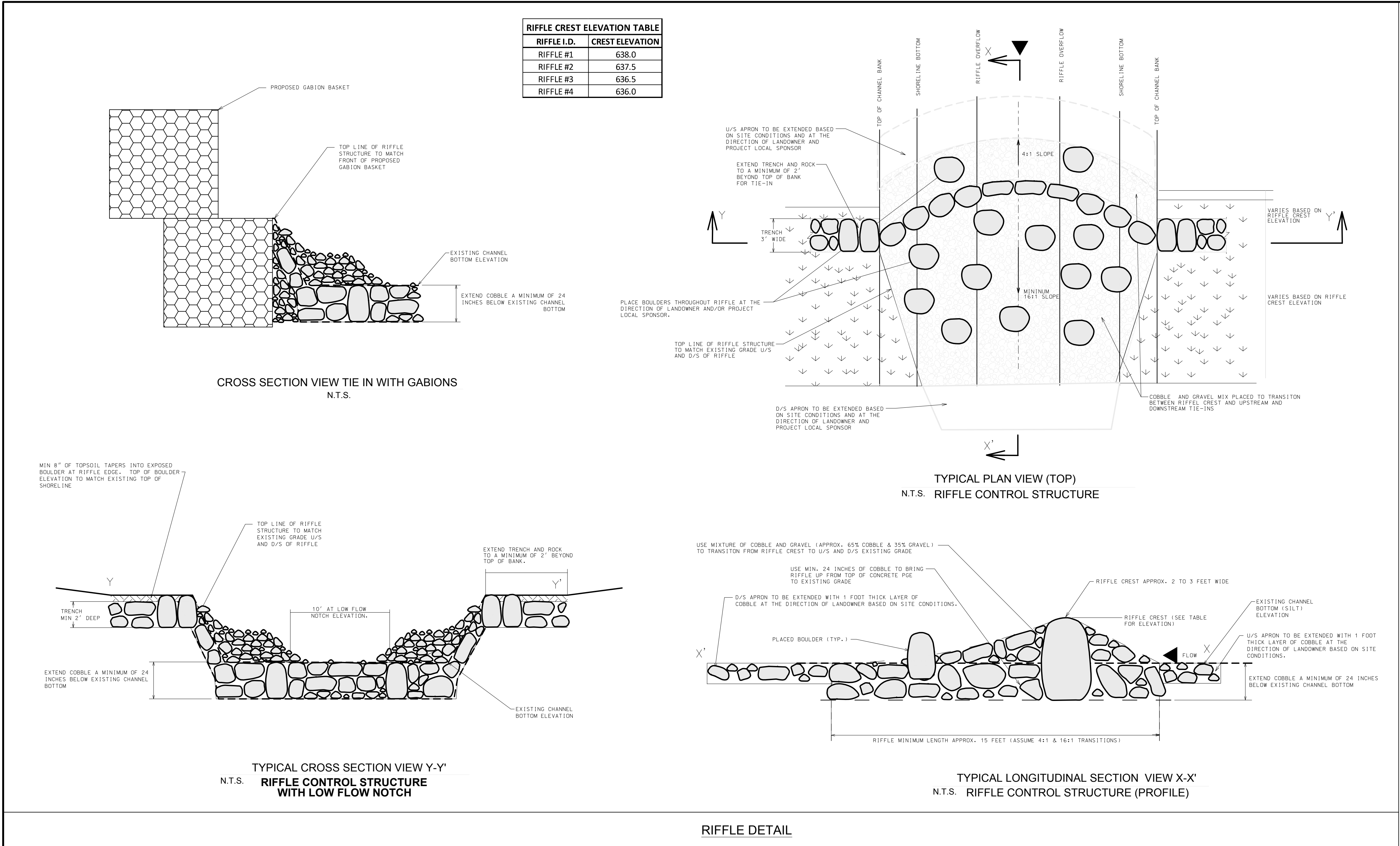
REVISIONS

NO.	DATE	DESCRIPTION
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2	12/17/24	REVISED PER USACE COMMENTS
3	01/31/25	ISSUED FOR COUNTY PERMITTING
4	06/23/25	ISSUED FOR BID

DESCRIPTION

NO.

DATE



CONSTRUCTION DETAILS	PROJECT NO.: 230560	ORIGINAL ISSUE DATE: JANUARY 31, 2024	REVIS IONS	
	PROJECT MANAGER: CWH	NO. DATE	DESCRIPTION	
	DESIGNED BY: CWH	1 06/10/24	ISSUED FOR PERMIT	
	DRAWN BY: CG	2 12/17/24	REVISED PER USACE COMMENTS	
		3 01/31/25	ISSUED FOR COUNTY PERMITTING	
SKOKIE RIVER CHANNEL IMPROVEMENTS FOR THE PARK DISTRICT OF HIGHLAND PARK				
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DRAWING NO.				
C5.3				