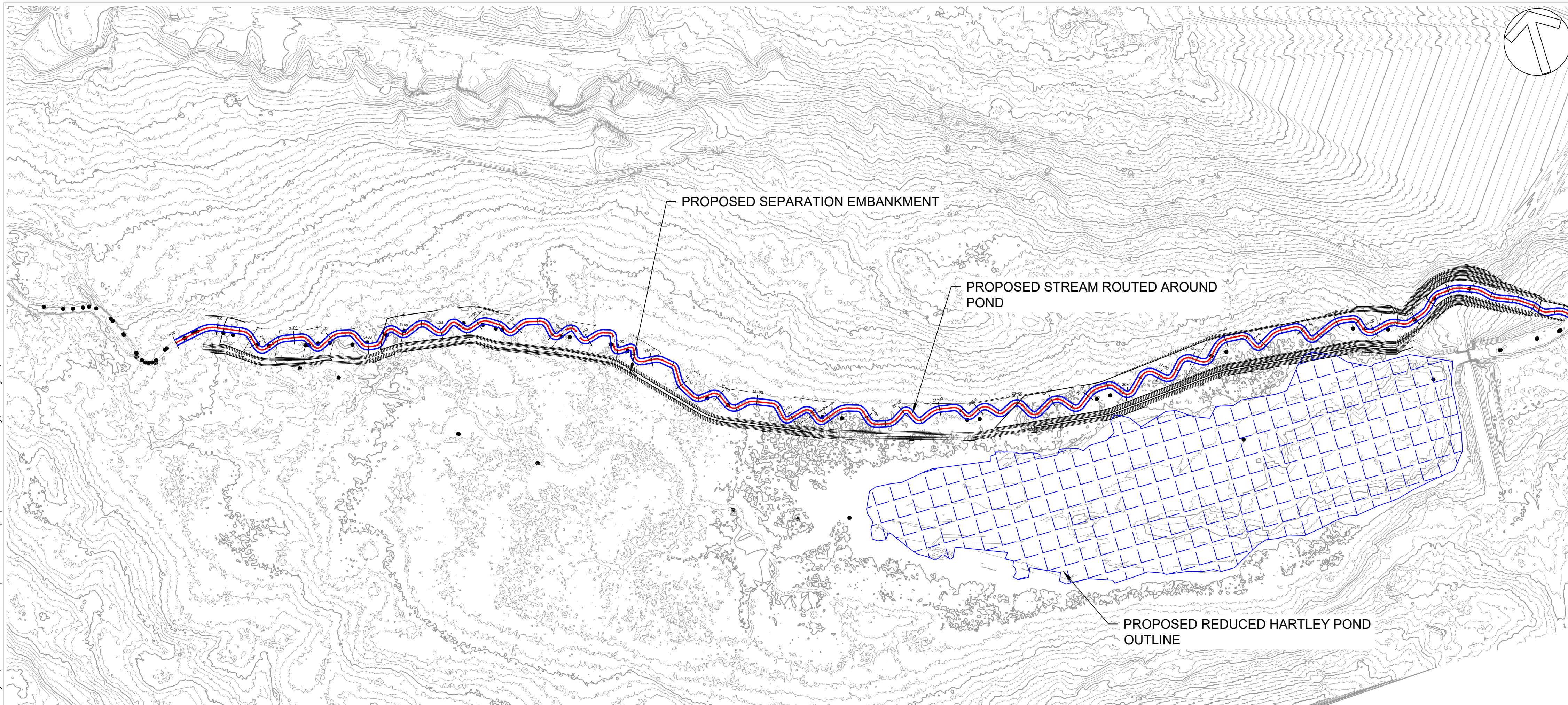


# Appendix D

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## Concept Design Drawings

C:\USERS\OWNER\DROPBOX\2022\_TISCHER\_CREEK\3DS\3DSHEETS\HARTLEYDAM\_PLAN\_PROFILE\_ROUTE\_AROUND.DWG | OWNER | SAVER | PLOTTED: Tuesday, January 30, 2024 10:31:57 AM | ACAD.CTB |



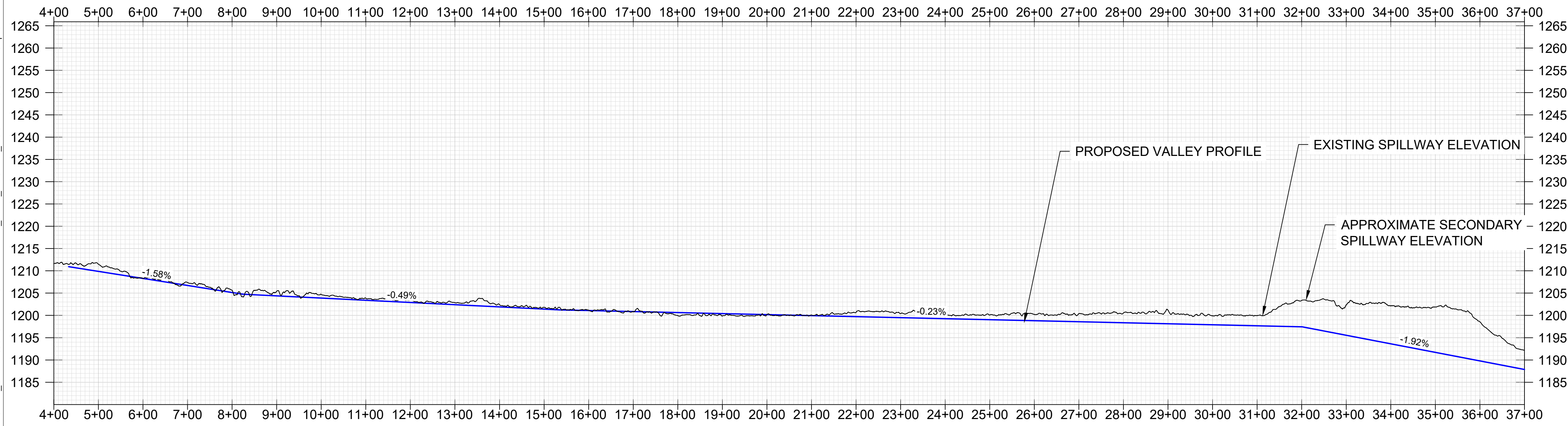
- PLAN LEGEND**
- PROPOSED STREAM CENTER LINE
  - PROPOSED BANKFULL
  - (483)— PROPOSED MAJOR CONTOUR
  - PROPOSED MINOR CONTOUR
  - 479— EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
- PROFILE LEGEND**
- PROPOSED STREAM CENTER LINE
  - PROPOSED BANKFULL
  - EXISTING GROUND

APPROVED BY: XX	REV	DESCRIPTION	CHECKED BY: XX	DRAWN BY: XX	APPROV

FEASIBILITY STUDY  
 HARTLEY DAM  
 HARTLEY PARK  
 DULUTH, MINNESOTA

NOT FOR CONSTRUCTION

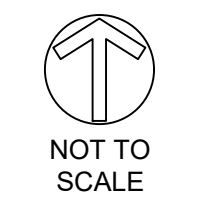
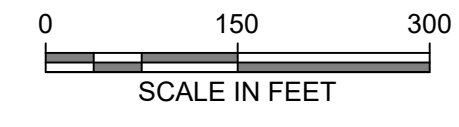
STREAM ROUTE AROUND ALT.



Stream Valley Around Pond - SCALE: HOR 1" = 30'; VERT 1" = 3'

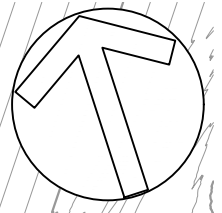
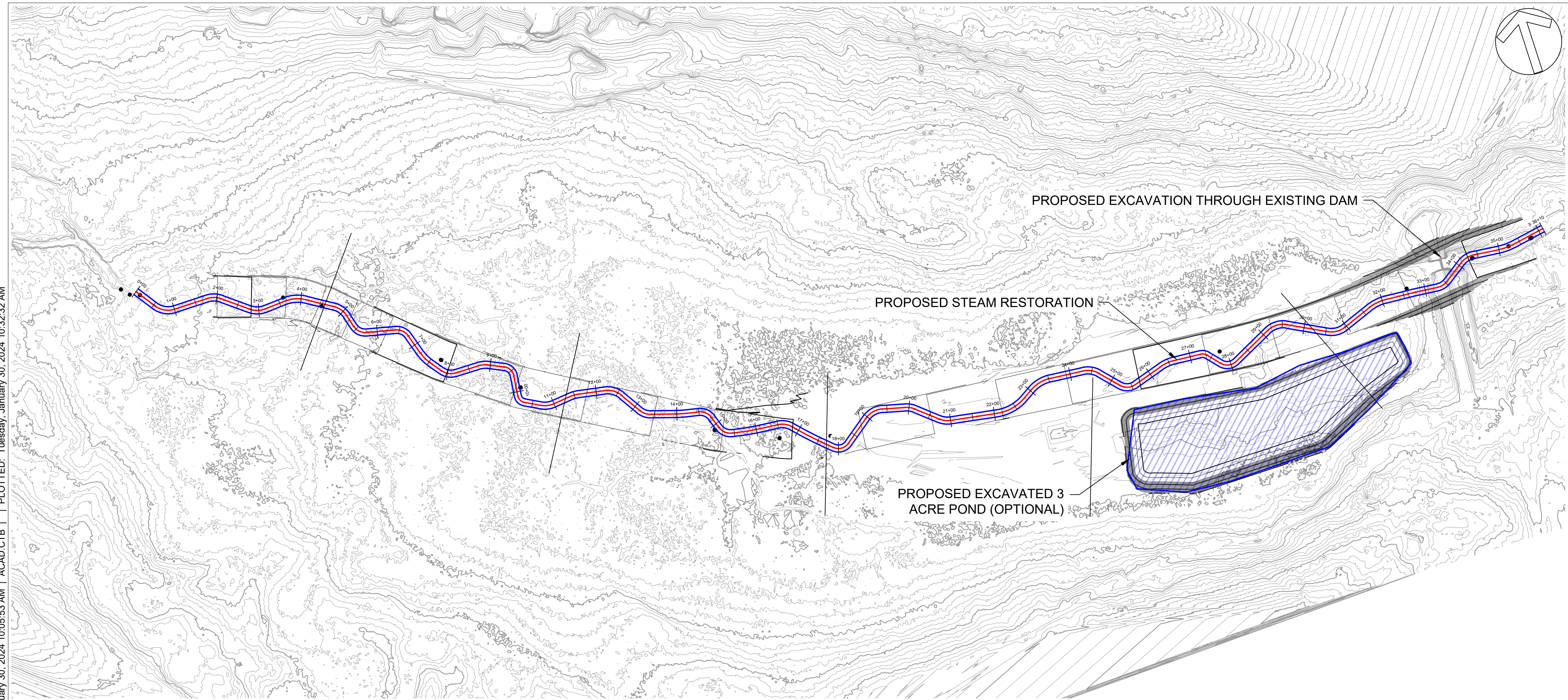
30% DESIGN  
 NOT FOR  
 CONSTRUCTION

DATE: 03/31/2023  
 SCALE (34"x22"): 1" = 150'  
 SCALE (17"x11"): 1" = 300'

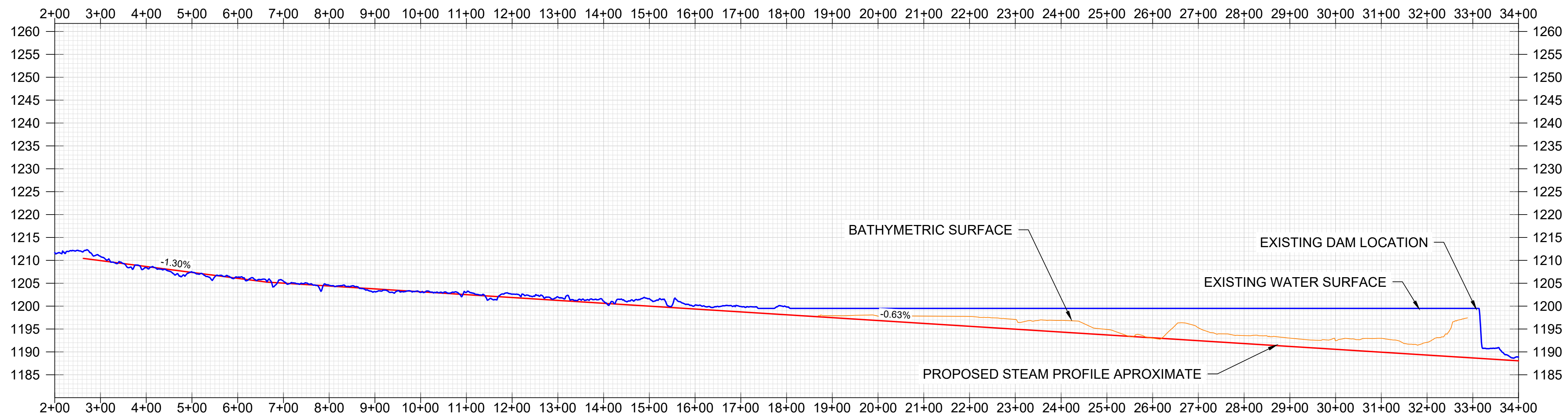


SHEET NUMBER  
 1 OF XX

C:\USERS\OWNER\ROB\2022\_TISCHER\_CREEK\3DSHETS\HARTLEY\DAM\_PLAN\_PROFILE.DWG | OWNER | SAVD: Tuesday, January 30, 2024 10:05:53 AM | ACAD.CTB | | PLOTTED: Tuesday, January 30, 2024 10:32:32 AM



- PLAN LEGEND**
- PROPOSED STREAM CENTER LINE
  - PROPOSED BANKFULL
  - (483) PROPOSED MAJOR CONTOUR
  - (479) PROPOSED MINOR CONTOUR
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
- PROFILE LEGEND**
- PROPOSED STREAM CENTER LINE
  - EXISTING WATER LEVEL
  - EXISTING GROUND



Stream valley through pond - SCALE: HOR 1"=30'; VERT 1"= 3'

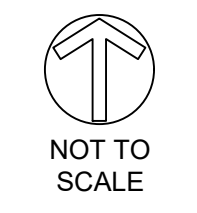
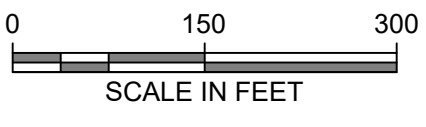
APPROVED BY: XX	REV	DESCRIPTION	CHECKED BY: XX	DRAWN BY: XX
APPRV				

**FEASIBILITY STUDY**  
**HARTLEY DAM**  
**HARTLEY PARK**  
**DULUTH, MINNESOTA**  
  
**NOT FOR CONSTRUCTION**  
  
**DAM REMOVAL ALTERNATIVE**



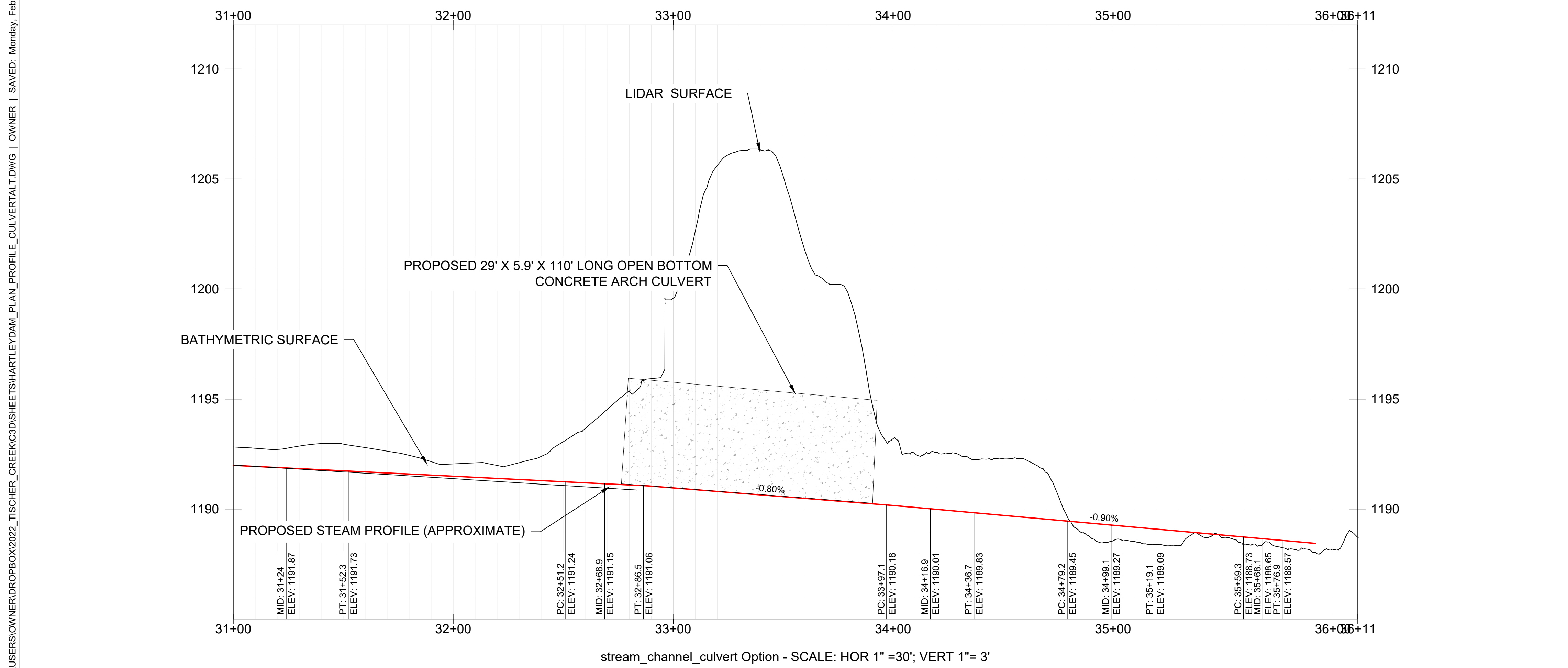
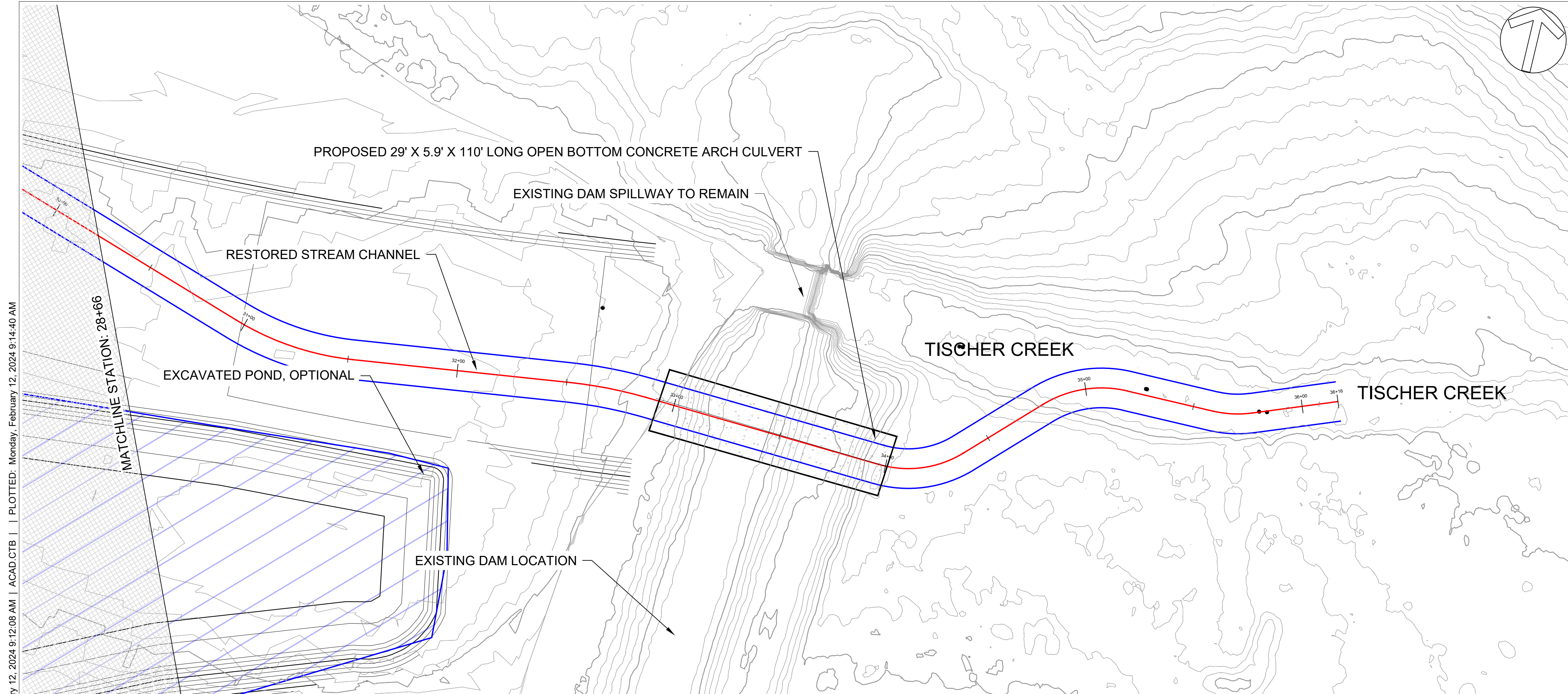
30% DESIGN  
NOT FOR  
CONSTRUCTION

DATE: 03/31/2023  
 SCALE (34"X22"): 1" = 150'  
 SCALE (17"X11"): 1" = 300'



NOT TO SCALE

SHEET NUMBER  
**2 OF XX**



C:\USERS\OWNER\ROB\BOX2022\_TISCHER\_CREEK\C3DS\3DSHETS\HARTLEY\DAM\_PLAN\_PROFILE\_CULVERT\T.DWG | OWNER | ACAD.CTB | PLOTTED: Monday, February 12, 2024 9:14:40 AM | Monday, February 12, 2024 9:12:08 AM | SAVER: Monday, February 12, 2024 9:12:08 AM

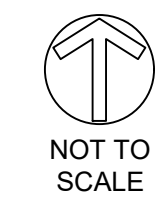
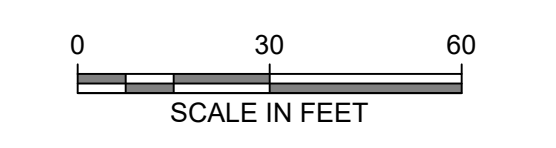
APPROVED BY: XX	APPROVED
REV	
DESCRIPTION	

FEASIBILITY STUDY
HARTLEY DAM
HARTLEY PARK
DULUTH, MINNESOTA
NOT FOR CONSTRUCTION
CULVERT ALTERNATIVE



30% DESIGN  
NOT FOR  
CONSTRUCTION

DATE: 03/31/2023  
SCALE (34"X22"): 1" = 30'  
SCALE (17"X11"): 1" = 60'



SHEET NUMBER  
3 OF XX