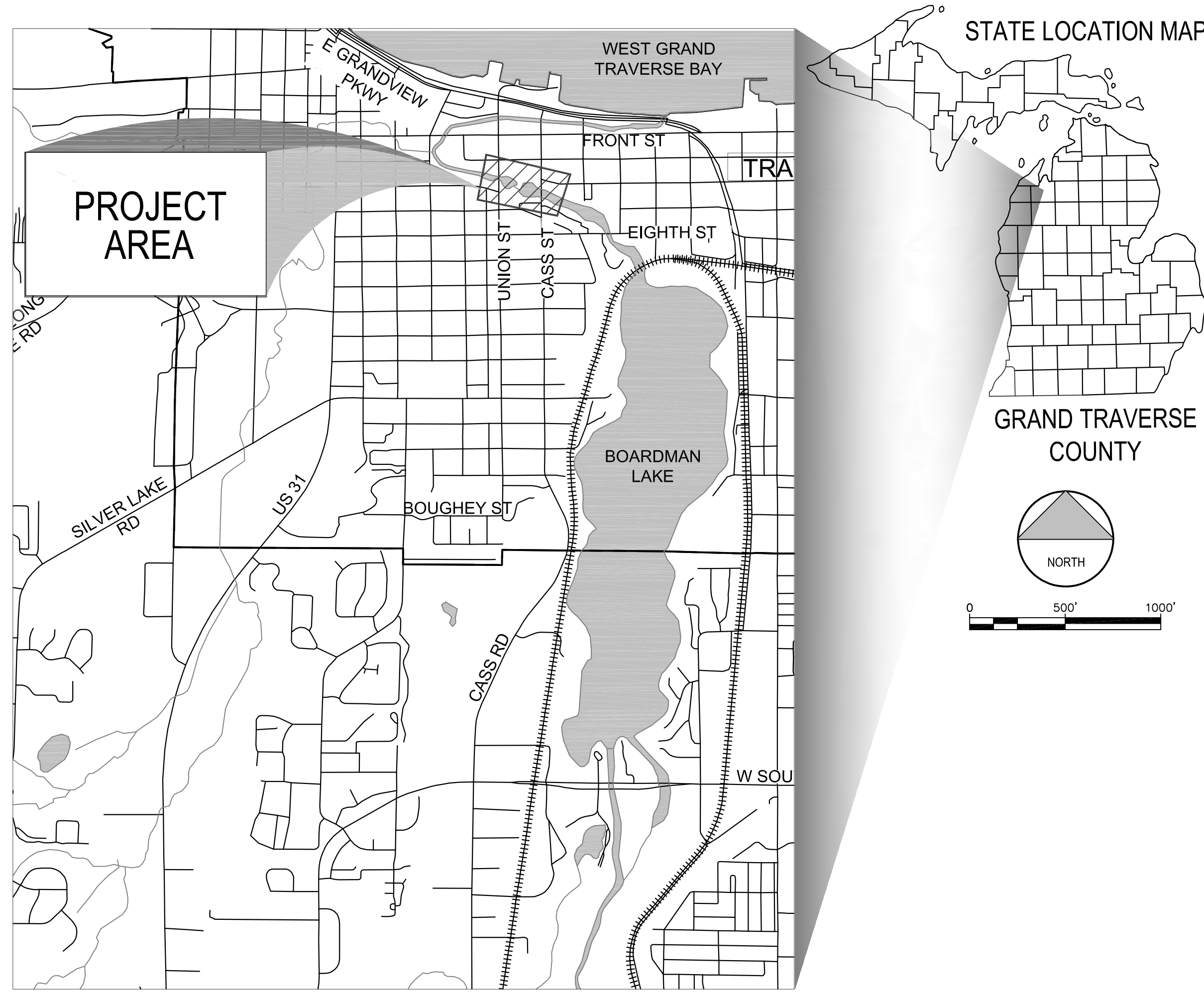
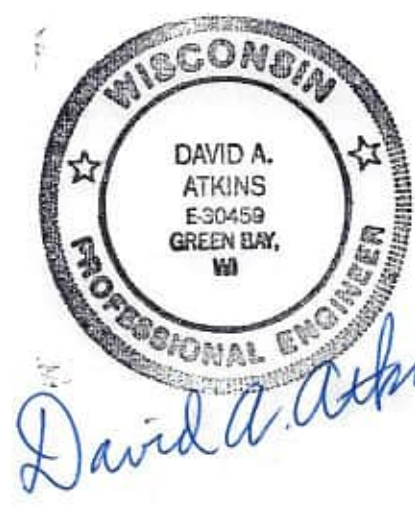


UNION STREET DAM FISH PASS



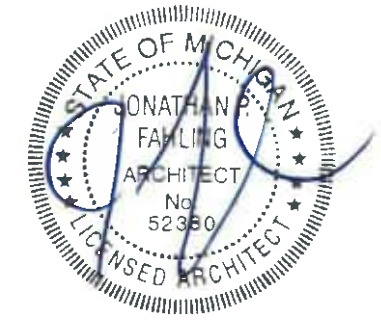
TROY R. NAPERALA
PROJECT MANAGER
CIVIL & HYDRAULICS



DAVID ATKINS, PE
STRUCTURAL



VIKRAM GAUTAM, PE
GEOTECHNICAL



JONATHAN FAHLING, AIA
ARCHITECTURAL



Mark	Description	Date	Appr.
A	FOR CONSTRUCTION - ADDENDUM 73 PHASE 1 & 2 LIMITS	05/03/2024	
	AS-AWARDED	10/13/2020	

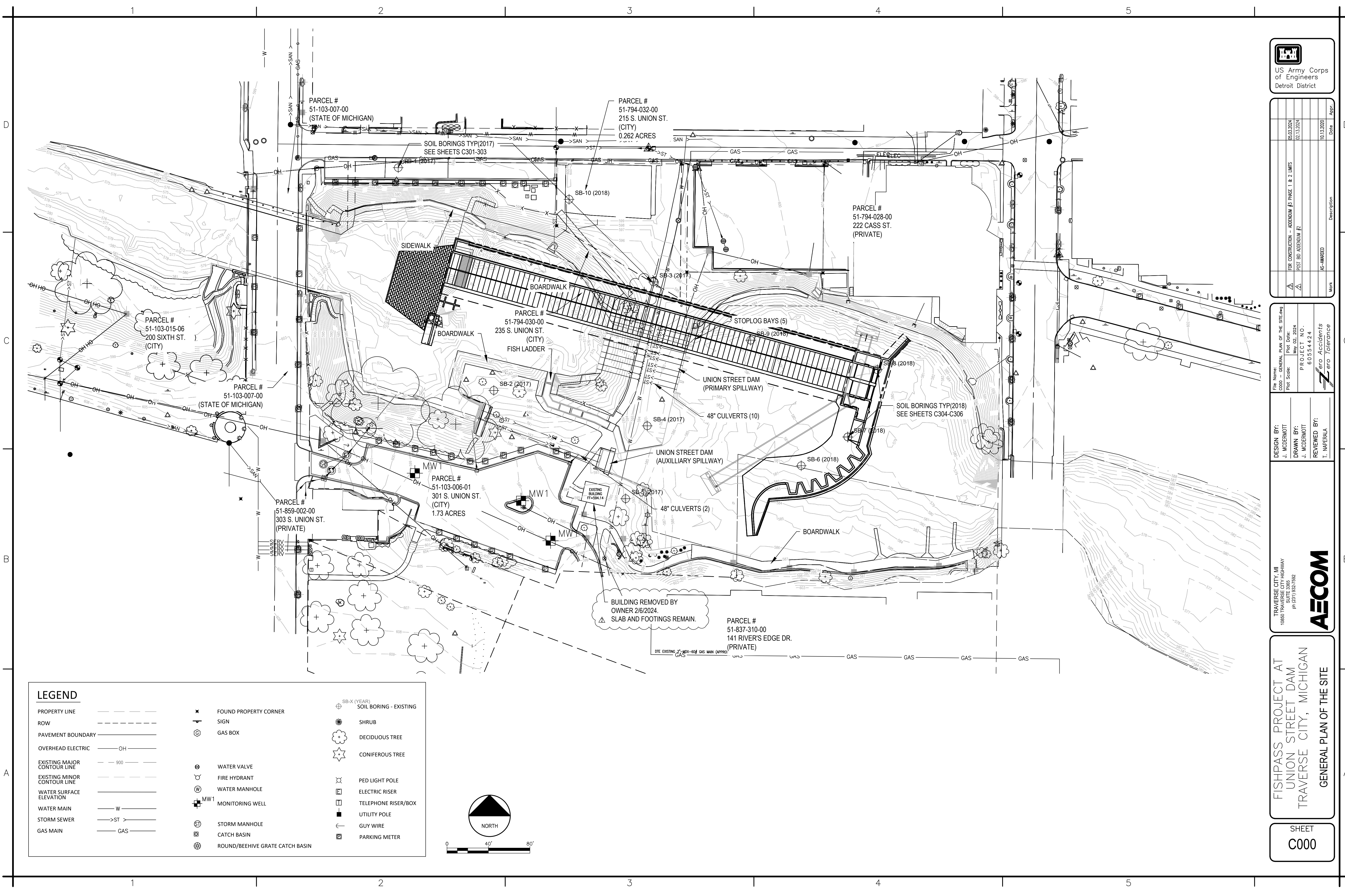
The Name: SHEET.dwg	Proj. Date: February 25, 2020	PROJECT NO.: 60554424	Accidents Tolerance
Proj. Scale:			
DESIGN BY: J. McDERMOTT	DRAWN BY: J. McDERMOTT	REVIEWED BY: T. NAPERALA	

TRAVERSE CITY, MI
1950 TRAVELER HIGHWAY
SUITE 300
PH (231) 832-7592

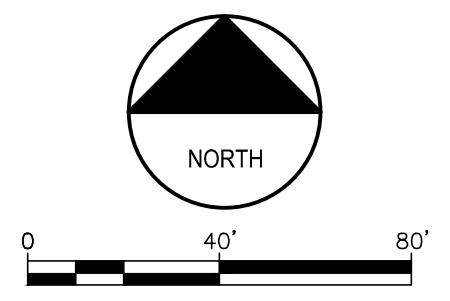
FISHPASS PROJECT AT
UNION STREET DAM
TRAVERSE CITY, MICHIGAN
TITLE & INDEX

SHEET
T-100

Z:\Nov1-2024\USNOV1\DCS\Projects\WTR_60554424_FishPass\900-CAD-610-CAD_20-SHEETS\Post-Bid Addendum 3 - FOR CONSTRUCTION\000 - GENERAL PLAN OF THE SITE.dwg May 02, 2024 - 9:09am SchroederM



LEGEND		
PROPERTY LINE	---	✕ FOUND PROPERTY CORNER
ROW	- - - - -	⊕ SIGN
PAVEMENT BOUNDARY	=====	⊕ GAS BOX
OVERHEAD ELECTRIC	— OH —	⊕ WATER VALVE
EXISTING MAJOR CONTOUR LINE	--- 900 ---	⊕ FIRE HYDRANT
EXISTING MINOR CONTOUR LINE	-----	⊕ WATER MANHOLE
WATER SURFACE ELEVATION	=====	⊕ MW1 MONITORING WELL
WATER MAIN	— W —	⊕ STORM MANHOLE
STORM SEWER	-> ST ->	⊕ CATCH BASIN
GAS MAIN	— GAS —	⊕ ROUND/BEEHIVE GRATE CATCH BASIN
		⊕ SB-X (YEAR) SOIL BORING - EXISTING
		⊕ SHRUB
		⊕ DECIDUOUS TREE
		⊕ CONIFEROUS TREE
		⊕ PED LIGHT POLE
		⊕ ELECTRIC RISER
		⊕ TELEPHONE RISER/BOX
		⊕ UTILITY POLE
		⊕ GUY WIRE
		⊕ PARKING METER



DESIGN BY:	J. MCINEROTT
DRAWN BY:	J. MCINEROTT
REVIEWED BY:	T. NAPERALA

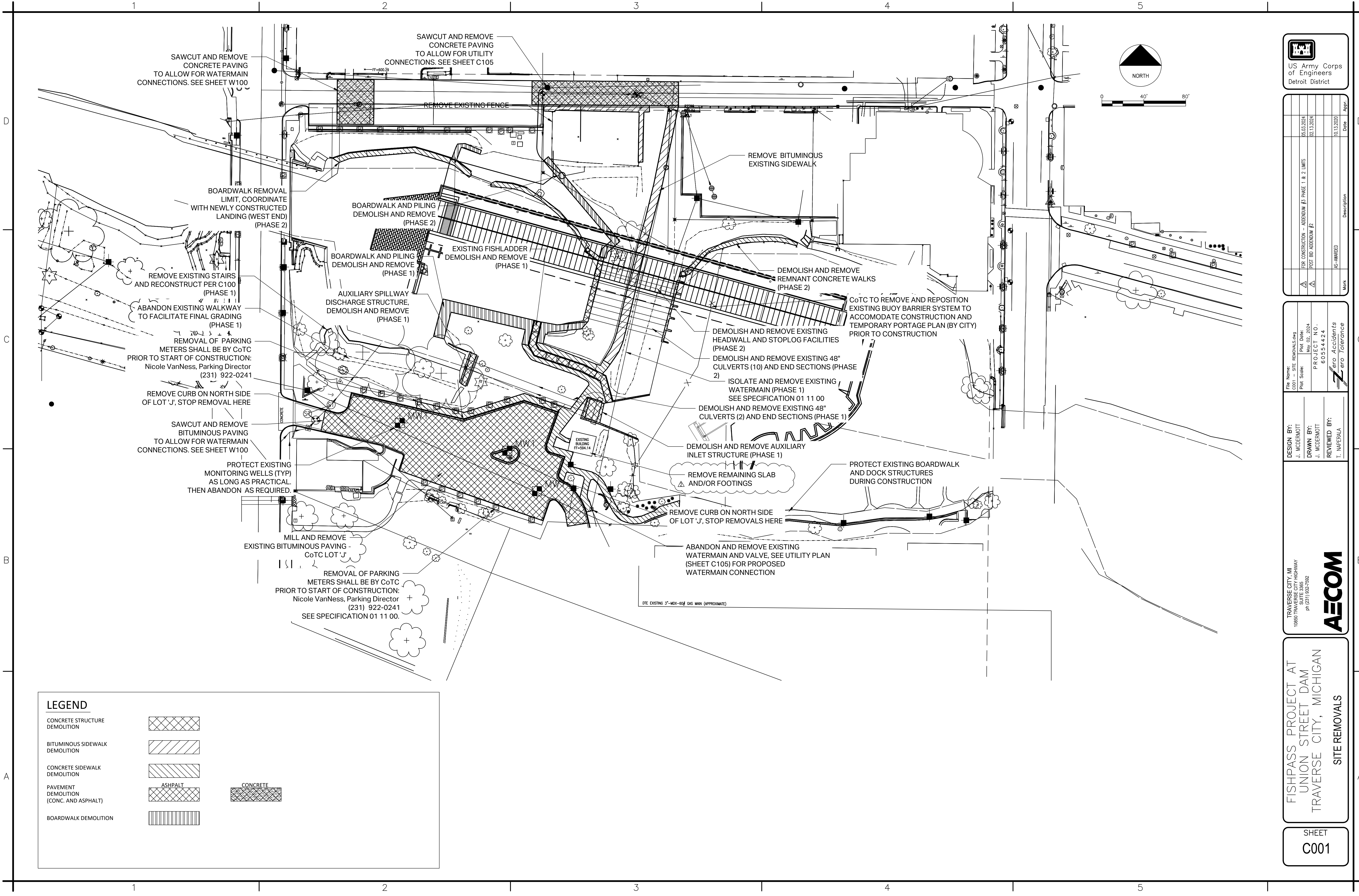
File Name:	000 GENERAL PLAN OF THE SITE.dwg
Plot Scale:	1" = 40'
Project No.:	60554424
Project Name:	FISHPASS PROJECT AT UNION STREET DAM TRVERSE CITY, MICHIGAN

TRAVERSE CITY, MI
10850 TRAVERSE CITY HIGHWAY
PH (231) 962-7992

FISHPASS PROJECT AT
UNION STREET DAM
TRAVERSE CITY, MICHIGAN
GENERAL PLAN OF THE SITE

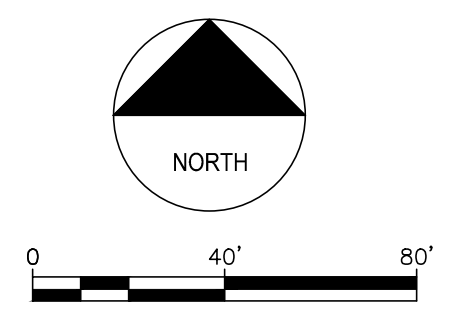
SHEET
C000

Z:\Nev\USNOV1\DCS\Projects\WTR_60554424_FishPass\900-CAD-615\910-CAD_20-SHEETS\Post-Bid Addendum 3 - FOR CONSTRUCTION\001 - SITE REMOVALS.dwg May 02, 2024 - 9:02am SchroederM



LEGEND

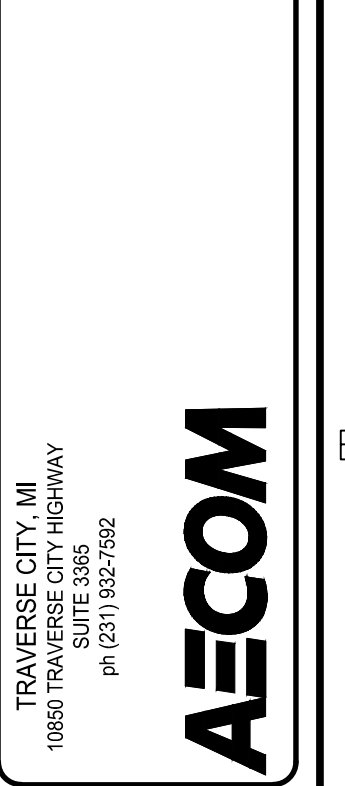
CONCRETE STRUCTURE DEMOLITION	
BITUMINOUS SIDEWALK DEMOLITION	
CONCRETE SIDEWALK DEMOLITION	
PAVEMENT DEMOLITION (CONC. AND ASPHALT)	
BOARDWALK DEMOLITION	
	ASPHALT
	CONCRETE



Mark	Description	Date	Appr.
A	FOR CONSTRUCTION - APPROXIMATE PHASE 1 & 2 LIMITS	05.02.2024	
B	POST BID APPROXIMATE PHASE 1 & 2 LIMITS	07.13.2024	
C	AS-IMAGED	10.11.2020	

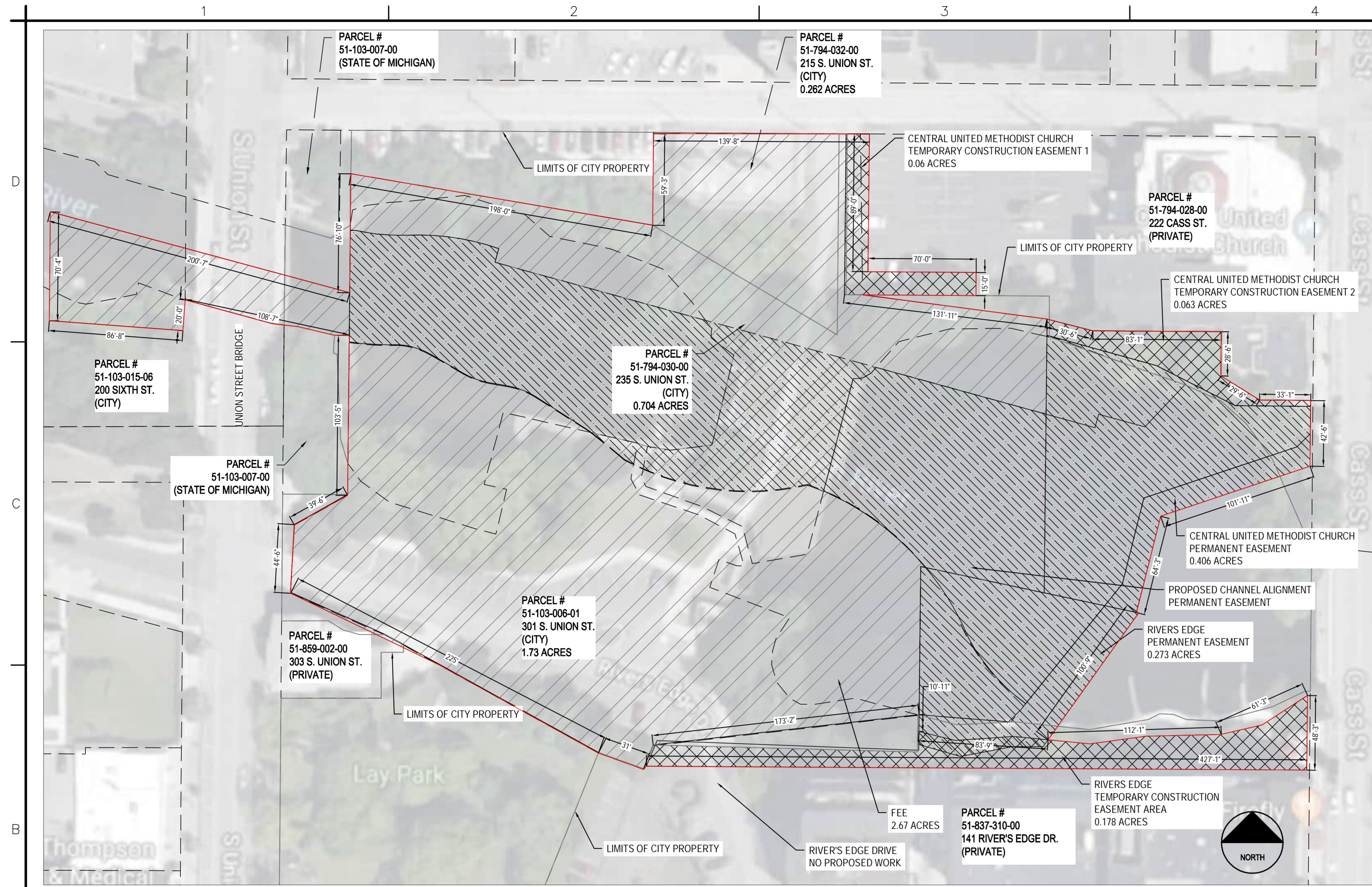
File Name: SITE REMOVALS.dwg	Plot Date: May 02, 2024
Plot Scale: 1"=40'	PROJECT NO. 60554424
DESIGN BY: J. MCENROT	Drawn By: J. MCENROT
REVIEWED BY: T. NAPERALA	ero Accidents Tolerance

TRAVERSE CITY, MI
1050 TRAVERSE CITY HIGHWAY
PH (231) 952-7592

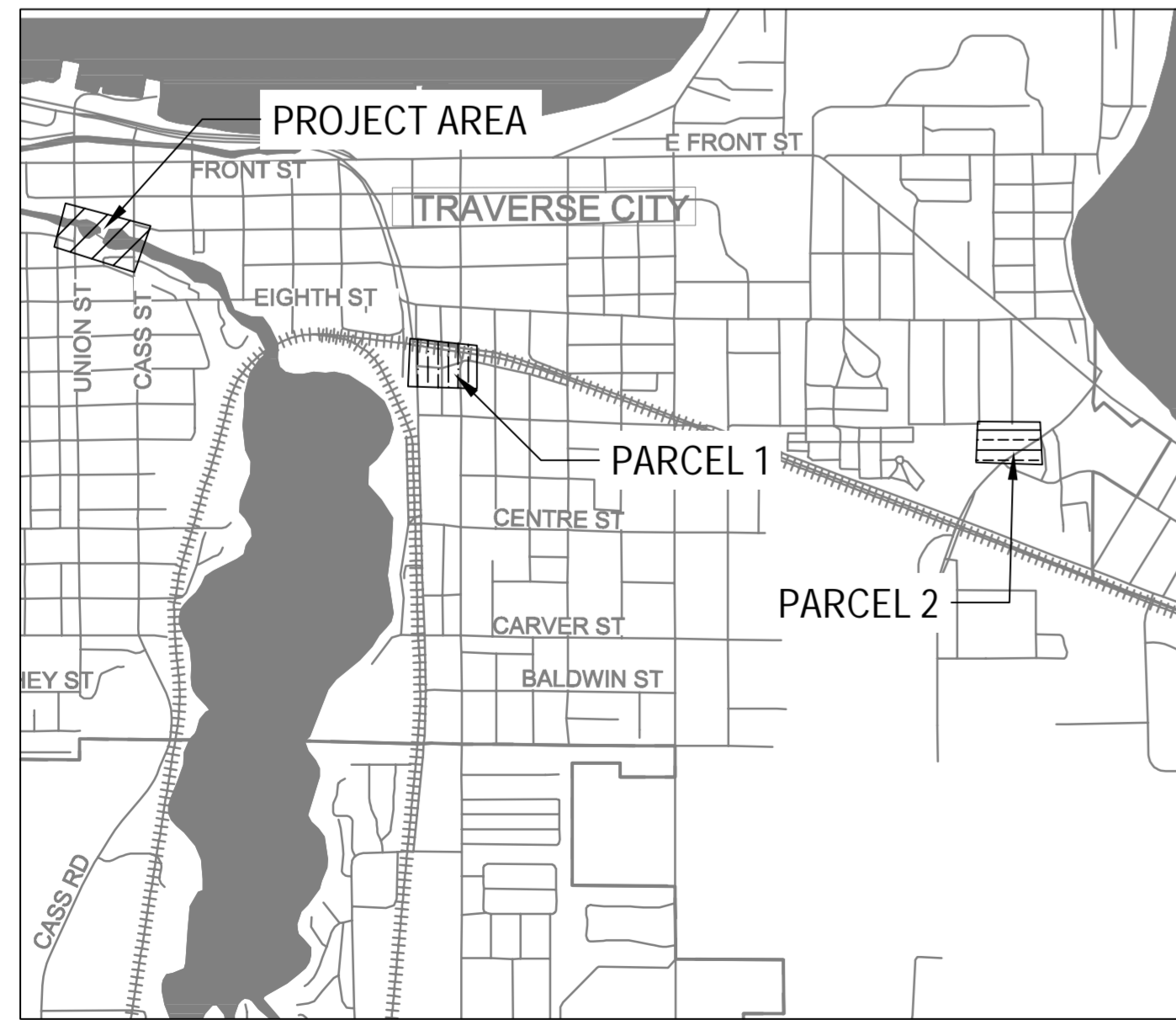


FISHPASS PROJECT AT
UNION STREET DAM
TRAVERSE CITY, MICHIGAN
SITE REMOVALS

SHEET
C001



ADDITIONAL PROPERTY AVAILABLE TO CONTRACTOR FOR EQUIPMENT AND MATERIAL STORAGE IF NEEDED.



- FEE 2.67 ACRES
- PLANNED EASEMENT (TEMPORARY) 2.7 ACRES
- PLANNED EASEMENT (PERMANENT) 1.68 ACRES
- PARCEL LIMITS/ROW
- WORK AREA - PARCELS AND EASEMENTS

- NOTES:
- CONTRACTOR SHALL HAVE DISCRETION ON FENCE LINE AND GATE PLACEMENT TO OPTIMIZE CONSTRUCTION SEQUENCE BUT SHALL REQUIRE APPROVAL BY COR.
 - COORDINATE ACCESS TO NEIGHBORING PROPERTY PARKING GARAGE VIA LOT 'J' WITH COR.
 - SEE SPECIFICATION 01 11 00 FOR ACCESS AND NOTIFICATION REQUIREMENTS.



Mark	Description	Date	Appr.
A	FOR CONSTRUCTION - ADDITIONAL PHASE 1 & 2 LIMITS	05.03.2024	
AS-IMMED		10.13.2020	

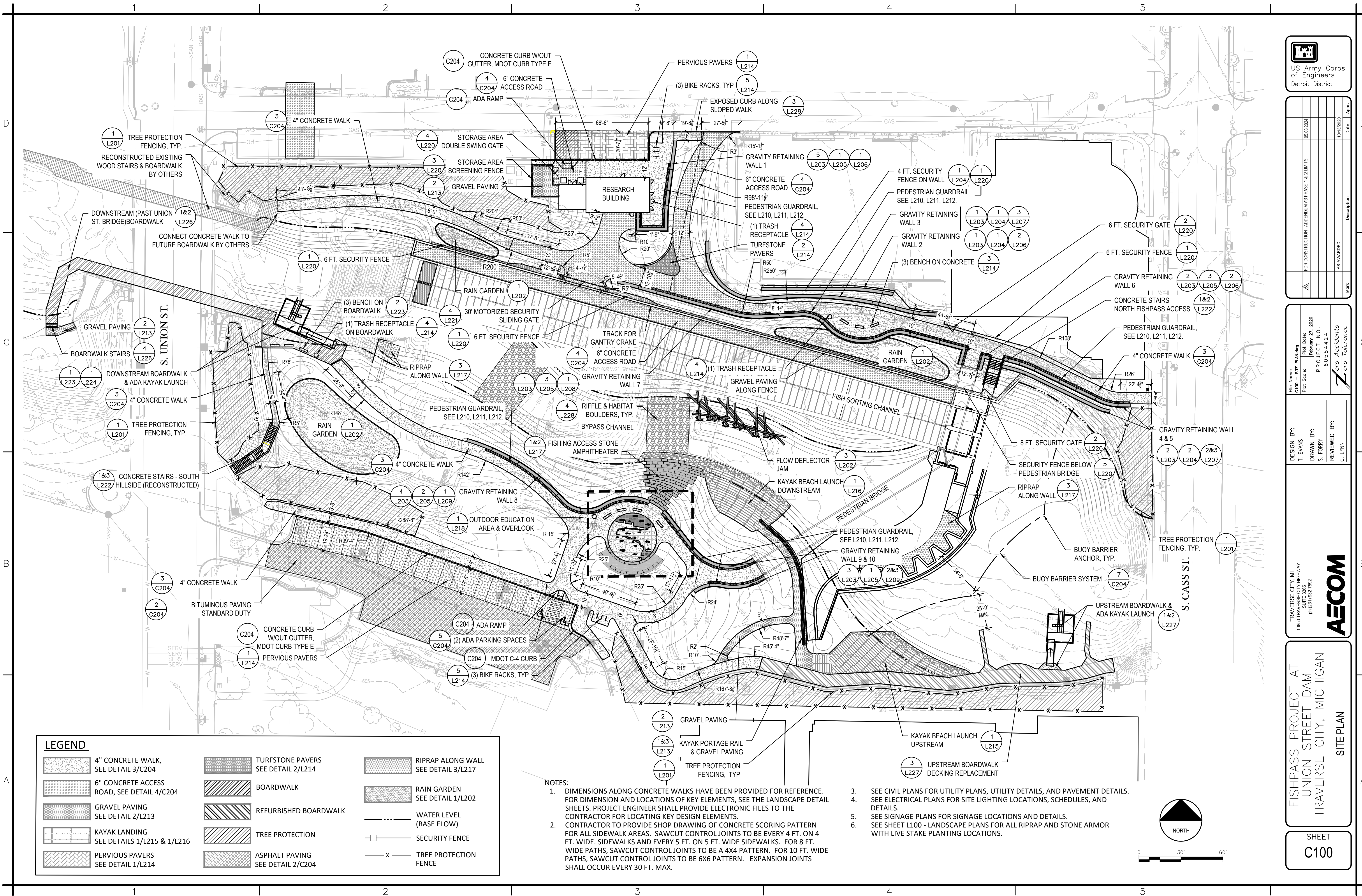
File Name:	REAL ESTATE PLAN.dwg
Plot Scale:	1" = 40'
Print Date:	October 20, 2020
PROJECT NO.:	60554424
Drawn By:	ero
Reviewed By:	ero
Scale:	1" = 40'

DESIGN BY:	J. McDERMOTT
DRAWN BY:	J. McDERMOTT
REVIEWED BY:	T. NAPERALA

TRAVERSE CITY, MI
10850 TRAVERSE CITY HIGHWAY
PH (231) 962-7992

FISHPASS PROJECT AT UNION STREET DAM TRAVERSE CITY, MICHIGAN REAL ESTATE PLAN

SHEET C002

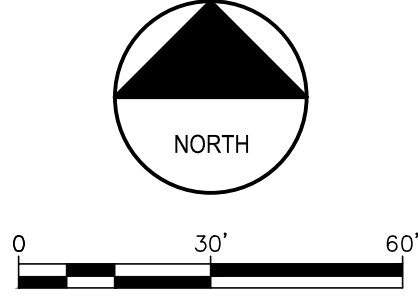


LEGEND

4" CONCRETE WALK, SEE DETAIL 3/C204	TURFSTONE PAVERS SEE DETAIL 2/L214	RIPRAP ALONG WALL SEE DETAIL 3/L217
6" CONCRETE ACCESS ROAD, SEE DETAIL 4/C204	BOARDWALK	RAIN GARDEN SEE DETAIL 1/L202
GRAVEL PAVING SEE DETAIL 2/L213	REFURBISHED BOARDWALK	WATER LEVEL (BASE FLOW)
KAYAK LANDING SEE DETAILS 1/L215 & 1/L216	TREE PROTECTION	SECURITY FENCE
PERVIOUS PAVERS SEE DETAIL 1/L214	ASPHALT PAVING SEE DETAIL 2/C204	TREE PROTECTION FENCE

NOTES:

- DIMENSIONS ALONG CONCRETE WALKS HAVE BEEN PROVIDED FOR REFERENCE. FOR DIMENSION AND LOCATIONS OF KEY ELEMENTS, SEE THE LANDSCAPE DETAIL SHEETS. PROJECT ENGINEER SHALL PROVIDE ELECTRONIC FILES TO THE CONTRACTOR FOR LOCATING KEY DESIGN ELEMENTS.
- CONTRACTOR TO PROVIDE SHOP DRAWING OF CONCRETE SCORING PATTERN FOR ALL SIDEWALK AREAS. SAWCUT CONTROL JOINTS TO BE EVERY 4 FT. ON 4 FT. WIDE SIDEWALKS AND EVERY 5 FT. ON 5 FT. WIDE SIDEWALKS. FOR 8 FT. WIDE PATHS, SAWCUT CONTROL JOINTS TO BE A 4X4 PATTERN. FOR 10 FT. WIDE PATHS, SAWCUT CONTROL JOINTS TO BE 6X6 PATTERN. EXPANSION JOINTS SHALL OCCUR EVERY 30 FT. MAX.
- SEE CIVIL PLANS FOR UTILITY PLANS, UTILITY DETAILS, AND PAVEMENT DETAILS.
- SEE ELECTRICAL PLANS FOR SITE LIGHTING LOCATIONS, SCHEDULES, AND DETAILS.
- SEE SIGNAGE PLANS FOR SIGNAGE LOCATIONS AND DETAILS.
- SEE SHEET L100 - LANDSCAPE PLANS FOR ALL RIPRAP AND STONE ARMOR WITH LIVE STAKE PLANTING LOCATIONS.



US Army Corps of Engineers
Detroit District

FOR CONSTRUCTION: ADDENDUM PHASE 1 & 2 LIMITS

DATE: 05.03.2024

AS-AWARDED

DATE: 10/13/2020

DESCRIPTION:

DESIGN BY: T. EVANS

DRAWN BY: S. FORRY

REVIEWED BY: C. LYNN

TRAVERSE CITY, MI
10550 TRAVERSE CITY HIGHWAY
PH (231) 952-7932

AECOM

FISHPASS PROJECT AT
UNION STREET DAM
TRAVERSE CITY, MICHIGAN
SITE PLAN

SHEET
C100

TEMPORARY COFFERDAM REQUIREMENTS
 TEMPORARY COFFERDAM SHALL PROTECT THE PHASE 1 CONSTRUCTION AREA FROM THE 10-YEAR FLOOD WATER SURFACE ELEVATIONS, AS INDICATED BY REQUIRED TOP OF WALL (TOW) ELEVATION ON THE PLAN. DRIVEN LENGTHS INDICATED BELOW SHOULD BE MEASURED FROM THE TOW ELEVATION DOWN.

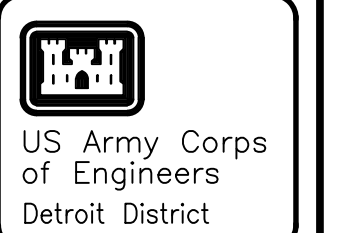
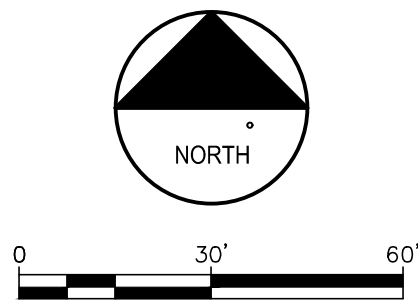
COFFERDAM SECTIONS FOR SHEET TYPE, LENGTHS AND TOW ELEVATIONS. FURTHER DETAILS ON SHEET PILING CAN BE FOUND ON C205-C208. IT IS ANTICIPATED THAT THE SHEETS REMOVED AT THE CONCLUSION OF PHASE 1 WILL BE APPLICABLE TO THE PHASE 2 REQUIRED INSTALLATIONS.

SUPPORTING CALCULATIONS ARE PROVIDED AS PART OF THE APPENDICES IN THE BASIS OF DESIGN REPORT.

CONSTRUCTION DESIGN SUBMITTAL: THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS, SHOP DRAWINGS, AND DETAILS RELATED TO ALL ASPECTS OF THE TEMPORARY COFFERDAM SHEET PILE WALLS. THESE ITEMS SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE A MINIMUM OF FOURTEEN DAYS PRIOR TO USE IN CONSTRUCTION. THE DESIGN CALCULATIONS AS WELL AS CONSTRUCTION DRAWINGS AND DETAILS SHALL BE COMPLETED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF MICHIGAN.

PHASE 1 CONSTRUCTION UNION STREET DAM MAIN SPILLWAY STOPLOG OPERATION

RECURRENCE INTERVAL	DISCHARGE (CFS)	STOPLOG OPERATION	TARGET WISE UPSTREAM OF DAM
BASEFLOW	250	REMOVE 3 STOPLOGS AT EACH INLET OR LOWER INVERT BY 0.9FT	589.86
2-YR	950	REMOVE 6 STOPLOGS AT EACH INLET OR LOWER INVERT BY 2 FT	590.64
5-YR	1200	REMOVE 8 STOPLOGS AT EACH INLET OR LOWER INVERT BY 2.5 FT	590.87
10-YR	1300	REMOVE 8 STOPLOGS AT EACH INLET OR LOWER INVERT BY 2.5FT	590.95
25-YR	1500	REMOVE ALL STOPLOGS AT EACH INLET OR LOWER INVERT BY 5.5 FT	590.55
50-YR	1600	REMOVE ALL STOPLOGS AT EACH INLET OR LOWER INVERT BY 5.5 FT	590.6
100-YR	1800	REMOVE ALL STOPLOGS AT EACH INLET OR LOWER INVERT BY 5.5 FT	591.05
200-YR	1900	REMOVE ALL STOPLOGS AT EACH INLET OR LOWER INVERT BY 5.5 FT	591.46
500-YR	2100	REMOVE ALL STOPLOGS AT EACH INLET OR LOWER INVERT BY 5.5 FT	592.53



Rev	Date	Description
1	10.11.2020	AS-AMHED
2	05.03.2024	FOR CONSTRUCTION - ADDITION #1 PHASE 1 & 2 LIMITS
3	02.13.2024	POST BID ADDITION #2
4	05.23.2023	POST BID ADDITION #1

DESIGN BY:	J. MCINEROTT
DRAWN BY:	J. MCINEROTT
REVIEWED BY:	T. NAPERALA
FILE NAME:	SITE SEQUENCING PLAN PHASE 1
PROJ. NO.:	60554424
PROJECT NO.:	60554424
DATE:	MAY 02, 2024
SCALE:	AS SHOWN
DESIGNER:	J. MCINEROTT
DRAWN:	J. MCINEROTT
REVIEWED:	T. NAPERALA

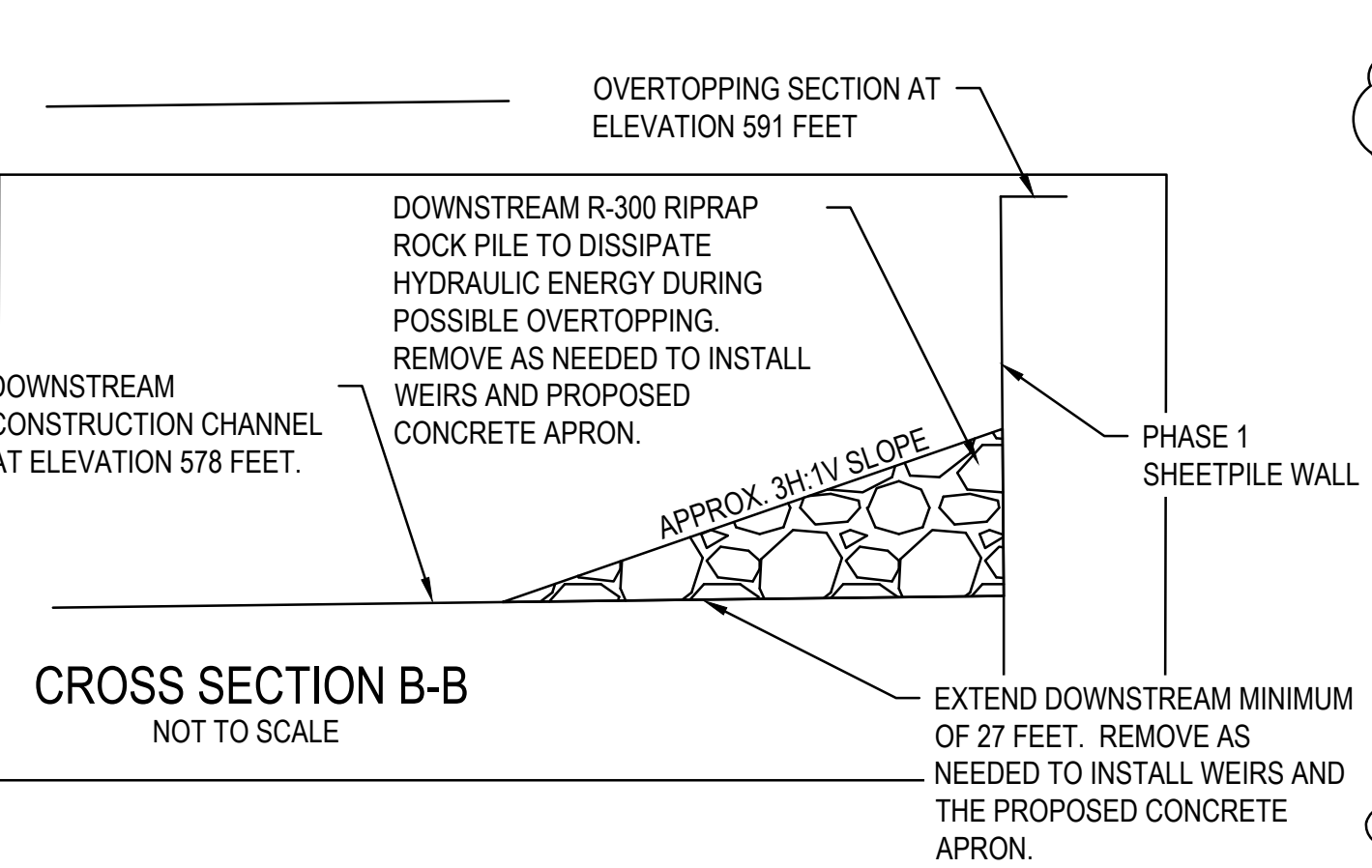
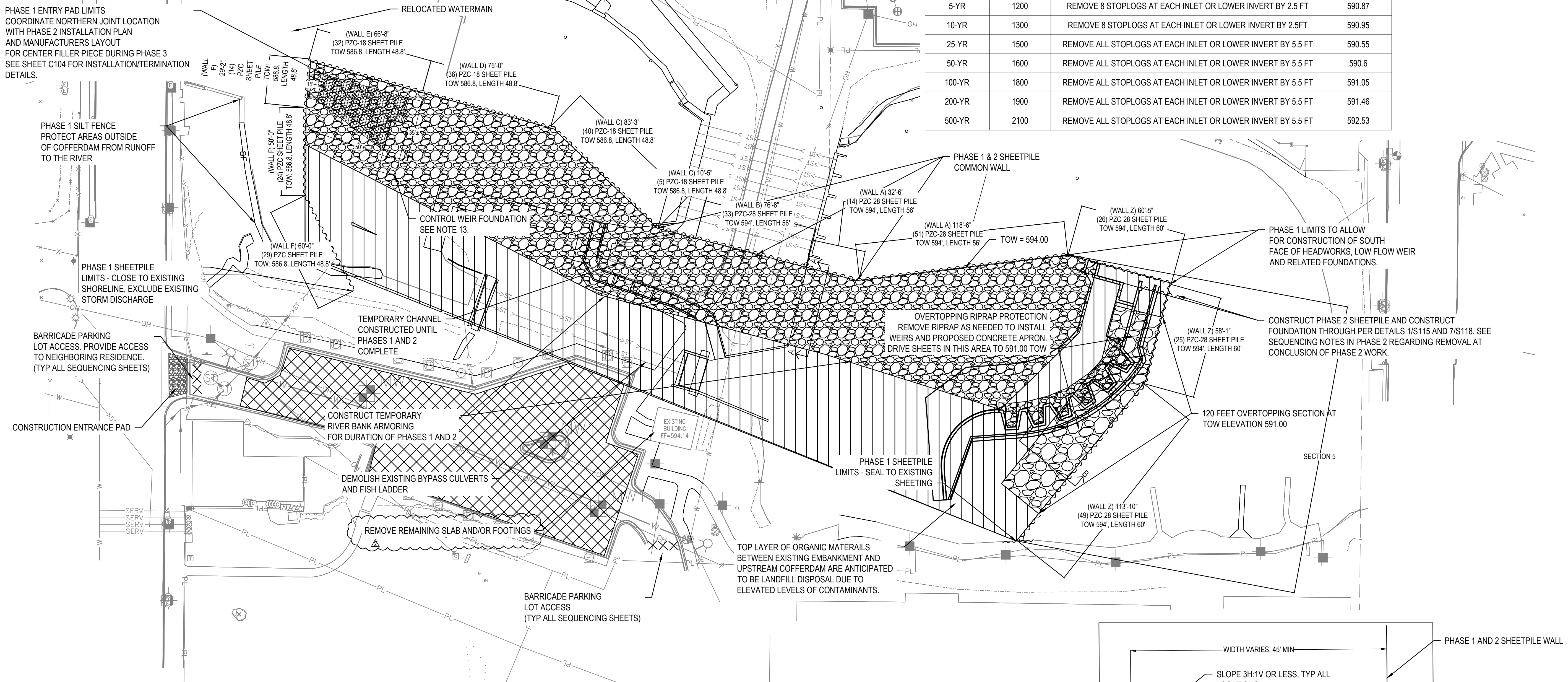
TRAVERSE CITY, MI
 10650 TRAVERSE CITY HIGHWAY
 PH 231 962-7992

AECOM

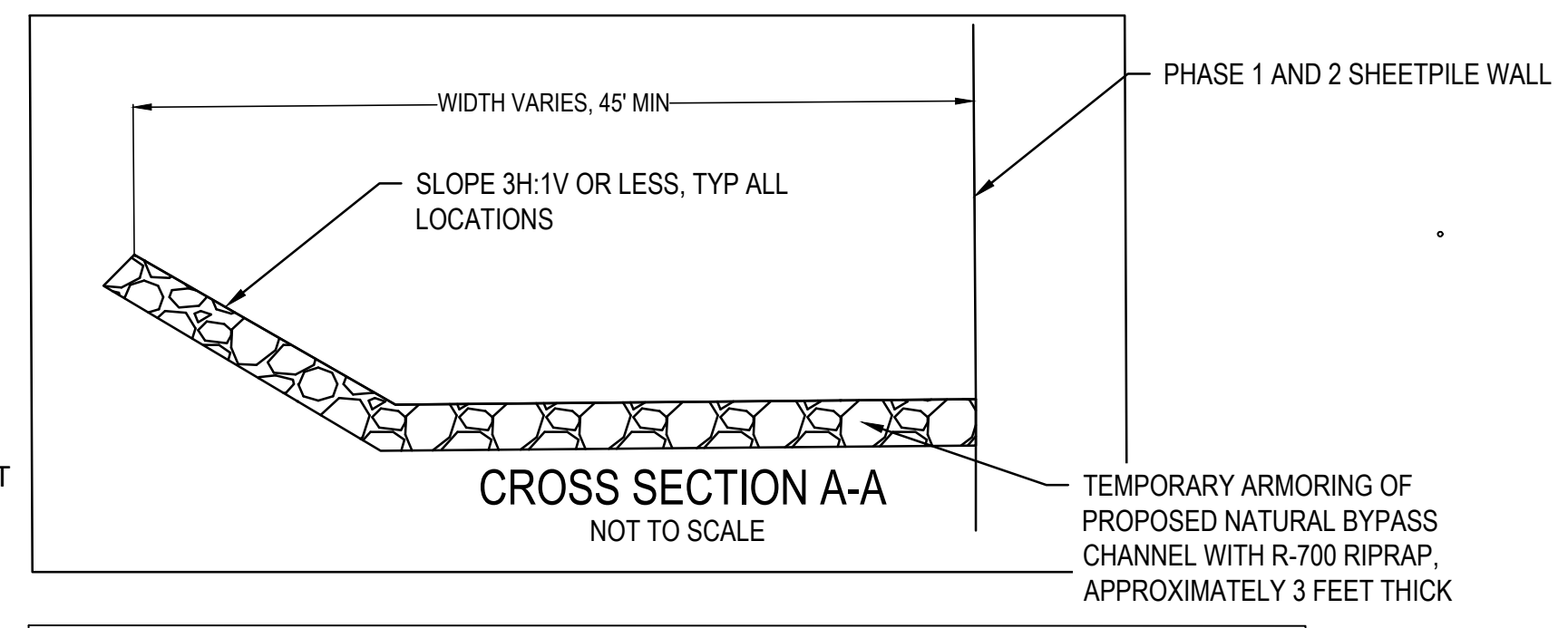
FISHPASS PROJECT AT
 UNION STREET DAM
 TRAVERSE CITY, MICHIGAN

SITE SEQUENCING PHASE 1

SHEET
C101



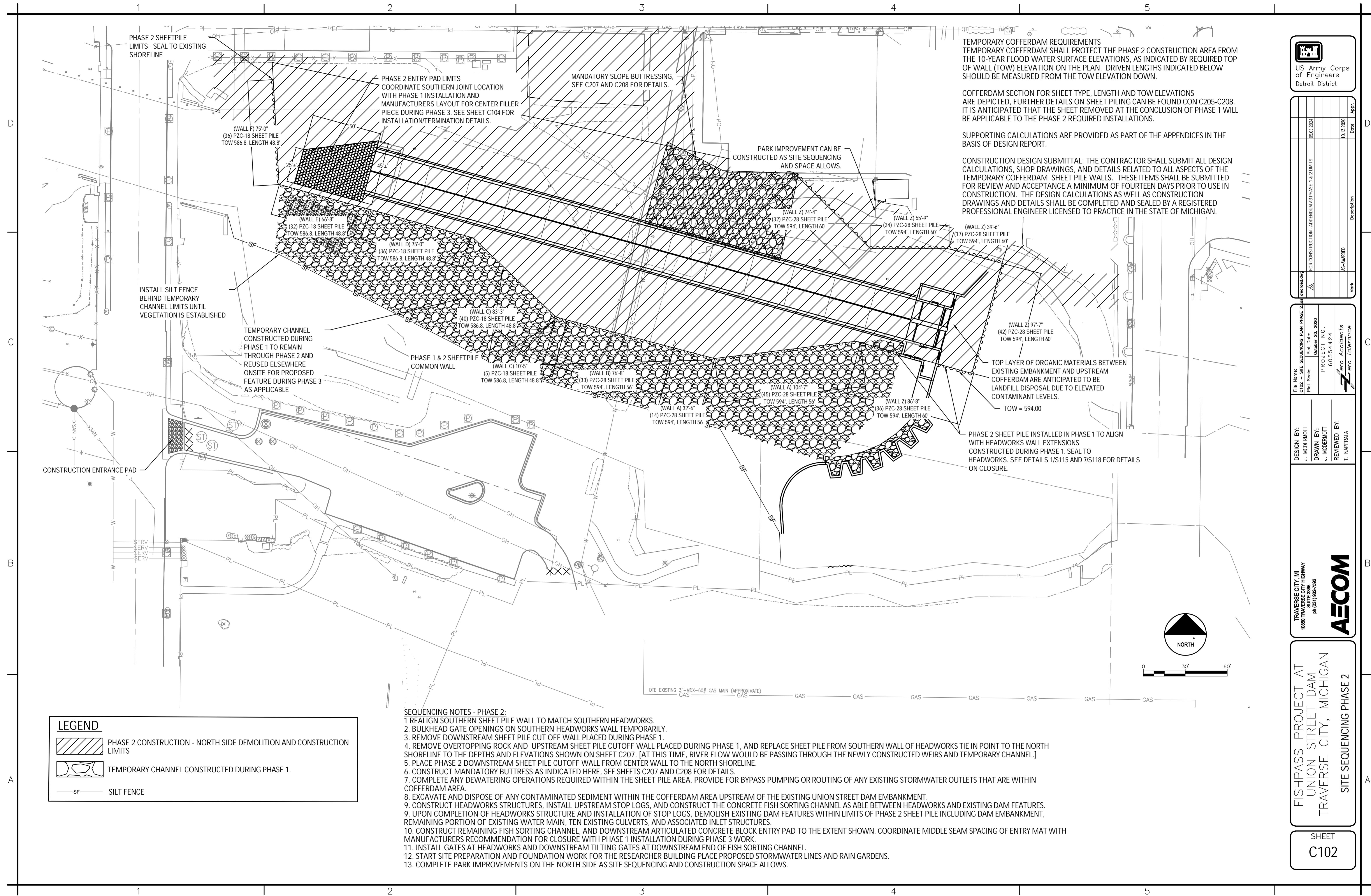
- SEQUENCING NOTES - PHASE 1:**
1. MOBILIZE TO THE SITE. INSTALL SESC MEASURES.
 2. CONSTRUCT WATER MAIN TO RELOCATED POSITION, CONNECTING TO EXISTING CITY MAIN NEAR RIVER'S EDGE DRIVE AFTER TESTING AND DISINFECTION. MARK TEMPORARY CAP AT UNION STREET ROW AND PROTECT FROM DAMAGE.
 3. [REDACTED]
 4. PLACE SHEET PILE UPSTREAM OF UNION STREET DAM STARTING WITH MEDIAN WALL TO THE DEPTHS AND TOP OF WALL (TOW) ELEVATIONS CALLED OUT ON SHEET C205 THEN INSTALL UPSTREAM CUTOFF SHEET PILE WITH OVERTOPPING SECTION AT ELEVATION 591.00. [AT THIS TIME ALL RIVER FLOW WILL BE THROUGH THE TEN (10) EXISTING CULVERTS IN THE UNION STREET DAM TOWARD THE NORTH SHORE OF THE BOARDMAN RIVER. MANAGE STOPLOGS AS INDICATED IN THE TABLE ON THIS SHEET TO AVOID A RISE IN UPSTREAM WATER ELEVATIONS.]
 5. CONSTRUCT OVERTOPPING RIPRAP ARMORING IMMEDIATELY DOWNSTREAM OF THE UPSTREAM CUTOFF WALL OVERTOPPING SECTION.
 6. COMPLETE ANY DEWATERING OPERATIONS REQUIRED WITHIN SHEET PILE AREA.
 7. PROVIDE BYPASS PUMPING OR ROUTING OF ANY EXISTING STORMWATER OUTLETS THAT ARE WITHIN COFFER DAM AREA.
 8. CONSTRUCT SOUTHERLY WALL OF HEADWORKS FOR INCLUSION INTO PHASE 2 SHEET PILE WALL CLOSURE. PRIOR TO CONSTRUCTION OF SOUTHERLY HEADWORKS WALL AND FOUNDATION, INSTALL PHASE 2 SHEETPILE AT THE LOCATIONS IDENTIFIED. INTEGRATE THROUGH FOUNDATION PER DETAILS 1/S115 AND 7/S118.
 9. CONSTRUCT LABYRINTH WEIR AND LOW FLOW BYPASS WEIR, REMOVING ANY OVERTOPPING RIPRAP ARMORING AS NECESSARY TO CLEAR AREA FOR CONSTRUCTION.
 10. PLACE SHEET PILE DOWNSTREAM OF UNION STREET DAM TO THE DEPTHS AND ELEVATIONS NOTED ON THE SHEET C205.
 11. CONSTRUCT TEMPORARY CHANNEL TO A MINIMUM WIDTH OF 45 FEET FROM INSTALLED SHEET PILE.
 12. DEMOLISH EXISTING DAM FEATURES WITHIN LIMITS OF PHASE 1 SHEET PILE INCLUDING EXISTING AUXILIARY SPILLWAY, FISH LADDER, AND EXISTING WATER MAIN.
 13. CONSTRUCT THE CONTROL WEIR FOOTING ONLY, LEAVING PROVISIONS FOR ANY REINFORCING STEEL NEEDED FOR FUTURE PHASES. THE CONTROL WEIR IS TO BE CONSTRUCTED DURING PHASE 3. SEE S111 FOR DETAILS.
 14. CONSTRUCT DOWNSTREAM ARTICULATED CONCRETE BLOCK ENTRY PAD TO THE EXTENT INDICATED.
 15. INSTALL TEMPORARY ARMORING THROUGH THE TEMPORARY CHANNEL TO BE UTILIZED FOR THE DURATION OF PHASE 1 AND PHASE 2.
 16. REMOVE REMAINING SLAB AND/OR FOOTINGS FROM BUILDING DEMOLISHED BY CITY IN FEBRUARY OF 2024 ON SOUTH SIDE OF EMBANKMENT.
 17. CONSTRUCT THE SOUTH BRIDGE ABUTMENT, SEE SHEETS S102 AND S114 FOR DETAILS.



LEGEND

	PHASE 1 CONSTRUCTION - SOUTH SIDE DEMOLITION AND PROPOSED CONSTRUCTION LIMITS
	TEMPORARY CHANNEL LIMITS FOR PHASE 1 AND PHASE 2 CONSTRUCTION
	CONTRACTOR CONSTRUCTION STAGING AREA
	SILT FENCE

Z:\Southfield-USB\F01\DCS\Projects\WTR\60554424_FishPass\900-CAD-915\910-CAD\20-SHEETS\C102 - SITE SEQUENCING PLAN PHASE 2 - as awarded.dwg October 20, 2020 - 2:43pm plumj



LEGEND

- PHASE 2 CONSTRUCTION - NORTH SIDE DEMOLITION AND CONSTRUCTION LIMITS
- TEMPORARY CHANNEL CONSTRUCTED DURING PHASE 1.
- SILT FENCE

SEQUENCING NOTES - PHASE 2:

1. REALIGN SOUTHERN SHEET PILE WALL TO MATCH SOUTHERN HEADWORKS.
2. BULKHEAD GATE OPENINGS ON SOUTHERN HEADWORKS WALL TEMPORARILY.
3. REMOVE DOWNSTREAM SHEET PILE CUT OFF WALL PLACED DURING PHASE 1.
4. REMOVE OVERTOPPING ROCK AND UPSTREAM SHEET PILE CUTOFF WALL PLACED DURING PHASE 1, AND REPLACE SHEET PILE FROM SOUTHERN WALL OF HEADWORKS TIE IN POINT TO THE NORTH SHORELINE TO THE DEPTHS AND ELEVATIONS SHOWN ON SHEET C207. [AT THIS TIME, RIVER FLOW WOULD BE PASSING THROUGH THE NEWLY CONSTRUCTED WEIRS AND TEMPORARY CHANNEL.]
5. PLACE PHASE 2 DOWNSTREAM SHEET PILE CUTOFF WALL FROM CENTER WALL TO THE NORTH SHORELINE.
6. CONSTRUCT MANDATORY BUTTRESS AS INDICATED HERE, SEE SHEETS C207 AND C208 FOR DETAILS.
7. COMPLETE ANY DEWATERING OPERATIONS REQUIRED WITHIN THE SHEET PILE AREA. PROVIDE FOR BYPASS PUMPING OR ROUTING OF ANY EXISTING STORMWATER OUTLETS THAT ARE WITHIN COFFERDAM AREA.
8. EXCAVATE AND DISPOSE OF ANY CONTAMINATED SEDIMENT WITHIN THE COFFERDAM AREA UPSTREAM OF THE EXISTING UNION STREET DAM EMBANKMENT.
9. CONSTRUCT HEADWORKS STRUCTURES, INSTALL UPSTREAM STOP LOGS, AND CONSTRUCT THE CONCRETE FISH SORTING CHANNEL AS ABLE BETWEEN HEADWORKS AND EXISTING DAM FEATURES.
9. UPON COMPLETION OF HEADWORKS STRUCTURE AND INSTALLATION OF STOP LOGS, DEMOLISH EXISTING DAM FEATURES WITHIN LIMITS OF PHASE 2 SHEET PILE INCLUDING DAM EMBANKMENT, REMAINING PORTION OF EXISTING WATER MAIN, TEN EXISTING CULVERTS, AND ASSOCIATED INLET STRUCTURES.
10. CONSTRUCT REMAINING FISH SORTING CHANNEL, AND DOWNSTREAM ARTICULATED CONCRETE BLOCK ENTRY PAD TO THE EXTENT SHOWN. COORDINATE MIDDLE SEAM SPACING OF ENTRY MAT WITH MANUFACTURERS RECOMMENDATION FOR CLOSURE WITH PHASE 1 INSTALLATION DURING PHASE 3 WORK.
11. INSTALL GATES AT HEADWORKS AND DOWNSTREAM TILTING GATES AT DOWNSTREAM END OF FISH SORTING CHANNEL.
12. START SITE PREPARATION AND FOUNDATION WORK FOR THE RESEARCHER BUILDING PLACE PROPOSED STORMWATER LINES AND RAIN GARDENS.
13. COMPLETE PARK IMPROVEMENTS ON THE NORTH SIDE AS SITE SEQUENCING AND CONSTRUCTION SPACE ALLOWS.

TEMPORARY COFFERDAM REQUIREMENTS
 TEMPORARY COFFERDAM SHALL PROTECT THE PHASE 2 CONSTRUCTION AREA FROM THE 10-YEAR FLOOD WATER SURFACE ELEVATIONS, AS INDICATED BY REQUIRED TOP OF WALL (TOW) ELEVATION ON THE PLAN. DRIVEN LENGTHS INDICATED BELOW SHOULD BE MEASURED FROM THE TOW ELEVATION DOWN.

COFFERDAM SECTION FOR SHEET TYPE, LENGTH AND TOW ELEVATIONS ARE DEPICTED, FURTHER DETAILS ON SHEET PILING CAN BE FOUND CON C205-C208. IT IS ANTICIPATED THAT THE SHEET REMOVED AT THE CONCLUSION OF PHASE 1 WILL BE APPLICABLE TO THE PHASE 2 REQUIRED INSTALLATIONS.

SUPPORTING CALCULATIONS ARE PROVIDED AS PART OF THE APPENDICES IN THE BASIS OF DESIGN REPORT.

CONSTRUCTION DESIGN SUBMITTAL: THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS, SHOP DRAWINGS, AND DETAILS RELATED TO ALL ASPECTS OF THE TEMPORARY COFFERDAM SHEET PILE WALLS. THESE ITEMS SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE A MINIMUM OF FOURTEEN DAYS PRIOR TO USE IN CONSTRUCTION. THE DESIGN CALCULATIONS AS WELL AS CONSTRUCTION DRAWINGS AND DETAILS SHALL BE COMPLETED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF MICHIGAN.

PARK IMPROVEMENT CAN BE CONSTRUCTED AS SITE SEQUENCING AND SPACE ALLOWS.

MANDATORY SLOPE BUTTRESSING. SEE C207 AND C208 FOR DETAILS.

PHASE 2 ENTRY PAD LIMITS COORDINATE SOUTHERN JOINT LOCATION WITH PHASE 1 INSTALLATION AND MANUFACTURERS LAYOUT FOR CENTER FILLER PIECE DURING PHASE 3. SEE SHEET C104 FOR INSTALLATION/TERMINATION DETAILS.

PHASE 2 ENTRY PAD LIMITS COORDINATE SOUTHERN JOINT LOCATION WITH PHASE 1 INSTALLATION AND MANUFACTURERS LAYOUT FOR CENTER FILLER PIECE DURING PHASE 3. SEE SHEET C104 FOR INSTALLATION/TERMINATION DETAILS.

INSTALL SILT FENCE BEHIND TEMPORARY CHANNEL LIMITS UNTIL VEGETATION IS ESTABLISHED

TEMPORARY CHANNEL CONSTRUCTED DURING PHASE 1 TO REMAIN THROUGH PHASE 2 AND REUSED ELSEWHERE ONSITE FOR PROPOSED FEATURE DURING PHASE 3 AS APPLICABLE

PHASE 1 & 2 SHEETPILE COMMON WALL

PHASE 2 SHEET PILE INSTALLED IN PHASE 1 TO ALIGN WITH HEADWORKS WALL EXTENSIONS CONSTRUCTED DURING PHASE 1. SEAL TO HEADWORKS. SEE DETAILS 1/S115 AND 7/S118 FOR DETAILS ON CLOSURE.

TOP LAYER OF ORGANIC MATERIALS BETWEEN EXISTING EMBANKMENT AND UPSTREAM COFFERDAM ARE ANTICIPATED TO BE LANDFILL DISPOSAL DUE TO ELEVATED CONTAMINANT LEVELS.

TOW = 594.00

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

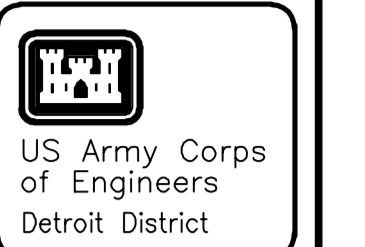
CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD

CONSTRUCTION ENTRANCE PAD



06.03.2024	FOR CONSTRUCTION ADDENDUM #PHASE 1 & 2 LIMITS	10.11.2020	AS-IMMED
06.03.2024	FOR CONSTRUCTION ADDENDUM #PHASE 1 & 2 LIMITS	10.11.2020	AS-IMMED

File Name:	020 SITE SEQUENCING PLAN PHASE 2
Plot Date:	October 20, 2020
Project No.:	60554424
Project Name:	FISHPASS PROJECT AT UNION STREET DAM TRAVERSE CITY, MICHIGAN
Drawn By:	J. MCENOTT
Reviewed By:	T. NAPERALA

DESIGN BY:	J. MCENOTT
DRAWN BY:	J. MCENOTT
REVIEWED BY:	T. NAPERALA

TRAVERSE CITY, MI
 10850 TRAVERSE CITY HIGHWAY
 PH 231 962-7992

FISHPASS PROJECT AT
 UNION STREET DAM
 TRAVERSE CITY, MICHIGAN
 SITE SEQUENCING PHASE 2

SHEET
C102

