



NOTICE TO FIRMS

SEALED LETTERS OF INTEREST marked “**Swan Creek Swinging Bridge, Professional Architecture & Engineering Services**” will be received at the Metropolitan Park District of the Toledo Area, Fallen Timbers Field Office, 6101 Fallen Timbers Lane, Maumee, Ohio 43537, until:

11:00 AM Local Time on Friday, May 20, 2022

Letters of Interest received after the specified due date and time will not be considered.

In General, THE SCOPE OF SERVICES consists of providing professional architecture and engineering services for the removal and replacement of the Swan Creek Preserve Metropark swinging bridge structure including any necessary planning due diligence and construction permitting.

Metroparks Toledo is currently seeking Letters of Interest from qualified professional architecture & engineering firms to undertake a planning process to produce schematic design options, design development, opinions of probable cost, and construction documents involving the removal and replacement of the existing swinging bridge structure crossing Swan Creek within Swan Creek Preserve Metropark, 4659 Airport Hwy, Toledo, OH 43615. The project is anticipated to include an innovative, unique bridge solution with elevated boardwalk approaches. This is a locally-funded project through the Metropolitan Park District of the Toledo Area with an estimated construction cost to-be-determined. Outside funding is actively being pursued to help fund 2023 construction.

Information packets for the Letter of Interest requirements may be obtained electronically by contacting Jon Zvanovec, Senior Project Manager at jon.zvanovec@metroparkstoledo.com, (419) 407-9732. One (1) PDF copy of the Letter of Interest must be sealed, marked and submitted as described. The Metropolitan Park District of the Toledo Area will directly select a firm based on the Letter of Interest.

By order of the Board of Park Commissioners
METROPOLITAN PARK DISTRICT OF THE TOLEDO AREA
David D. Zenk, Executive Director

Posted to Metroparks Toledo website on May 6th, 2022.

PROJECT OVERVIEW:

Project Description: The South Toledo Metropark named for Swan Creek is an oasis in an urban area, providing crucial feeding and resting ground for migratory birds and a nesting area for resident species. The forested banks of Swan Creek offer a sheltered corridor of wild vegetation. Animals such as deer, fox and raccoon use the corridor to move between feeding, resting and mating areas.

Swan Creek Preserve Metropark spans 441 acres with an additional 154 acres along the creek. Activities and attractions include scenic overlooks along the trails, a unique swinging pedestrian bridge, indoor and outdoor picnic facilities, a gazebo made for weddings, two playgrounds and a Window on Wildlife.

Constructed in 1984, the pedestrian 'swinging' bridge over Swan Creek has had every manner of naturally occurring insult hurled at it over nearly four decades. Inundating floods, bank erosion, battering flood borne debris, and a fallen tree with dead-aim have all threatened or continue to threaten the structure.

The bridge is much beloved by many loyal, regular park users. It's been memorialized in countless social media posts, numerous photos, unique bridge engineering blogs - even a Blade editorial cartoon. The creative use of two massive Cottonwood Trees as anchoring supports for a cable suspension structure is unique to our area.

Project Goals: The overall goal is to replace the existing structure with an equally innovative and whimsical bridge solution which is much less prone to flooding, flood borne debris, and erosion. Any replacement bridge structure/approaches must endeavor to correct this susceptibility to flooding and erosion while also correcting existing natural resource deficiencies brought about by the use and maintenance of the current bridge and its approaches. Any new solution is not necessarily limited/required to follow the existing alignment per se, but must absolutely endeavor to limit the project footprint and any impacts to the floodplain or natural resources within. Stabilizing grading and native plantings/seeding should complement the overall design.

Project Area: The project area is shown on the attached exhibit.

Project Schedule: It's desired that all necessary preconstruction activities will be complete to allow bidding winter 2022/2023 with completion of construction by the end of 2023.

Project Funding: This design and construction work is being paid for directly by Metroparks Toledo.

PROJECT SCHEDULE

Anticipated **(2022)** start-up & completion dates for the project are as follows:

LOI advertisement	May 6 th
Receipt / Initial Review of LOIs	May 20 th
LOIs Ranked, Submitters Notified	May 27 th
Contract Negotiations Complete.....	June 10 th
Board of Commissioners Contract Award (If Necessary)....	June 22 nd
Project Kick Off / Initiation	July 11 th
Project Substantial Completion	December 30 (2023)
Project Completion	January (2024)

LETTER OF INTEREST REQUIREMENTS

One (1) digital PDF copy of the Letter of Interest shall be submitted by **11:00 AM Local Time on Friday, May 20, 2022** and directed to:

**“Swan Creek Swinging Bridge,
Professional Architecture & Engineering Services”**

**Jon Zvanovec, Project Manager
jon.zvanovec@metroparkstoledo.com
The Metropolitan Park District of the Toledo Area
Fallen Timbers Field Office
6101 Fallen Timbers Lane
Maumee, Ohio 43537**

Late or faxed submittals will not be considered.

Letters of Interest shall be limited to ten (10) 8½" x 11" single sided pages. Utilize a 12 point font in regular, common use with normal margins. Submitted Letter of Interest shall contain the following items, **which must be presented in this order**:

- A) **Qualifications and related project experience**: A statement of the firm’s qualifications to provide the requested services. The statement should include the following:
- A general firm background (Company Name, Address, Telephone, Professional services offered;
 - Profession Engineers’ & Architects and other key task managers’ background, including work history and experience with similar projects;
 - Describe the expertise and experience of your proposed project team providing like services on projects of similar scope/size;

- Identify and describe three (3) projects in which your firm has completed over the past five (5) years that have similarities and relevance to this proposed project and scope of services, include a summary of performance and ability to meet client's schedule;
 - Provide a list of three (3) references, including name, address and telephone number of previous clients on projects with a similar scope of work.
- B) Office Location: A statement of the firm's primary office location. Designate the office location where the primary work, other than the project fieldwork will be performed. Include anticipated type of work and approximate percentage to be done at each office.
- C) Familiarity with local, state and federal regulations: A written statement of the firm's familiarity with any local, state and federal laws and regulations relevant to this type of project.
- D) Current workload: A description of the firm's current workload. Include the availability of the firm to immediately commence this project upon receipt of a Notice to Proceed.
- E) Understanding of the project: A description in detail of the firm's understanding of the services to be provided and anticipated approach to completing the project. Include any considerations or evaluations that may be prudent to effectively minimize the project cost, ensure timely completion of the project, and more satisfactorily achieve the project goal. Also include any possible challenges that will be encountered and any intended or probable special techniques, services, or approaches to be used for solution. Discuss potential alternate methods. If there are certain tasks that could more easily be performed by Metropark personnel that would result in substantial cost savings, please indicate these potential savings.
- F) Schedule and staffing:
- Metroparks fully expects that the personnel listed in the proposal will be assigned to the project in the event your firm is selected. Any personnel changes in the key positions shall be subject to advance approval by Metroparks.
 - Listing of any Sub-consultants that might be employed on the project along with the consultant's qualifications. A list of key sub-consultant personnel who will work on the project and their technical competence and related specialized experience.

- Provide a rough anticipated schedule to complete the required work based upon the estimated schedule previously listed.

CONTRACT AWARD CRITERIA

Metroparks will select a consultant based upon the below Contract Award Criteria. While each LOI will be considered objectively, Metroparks assumes no obligation to accept or take action on any LOI. However, the consultants must indicate in their schedules the availability of their firm to meet the schedule laid out in this LOI. The availability of the consultant to commence work on short notice and meet the schedule for completion may be a factor in evaluating the LOI.

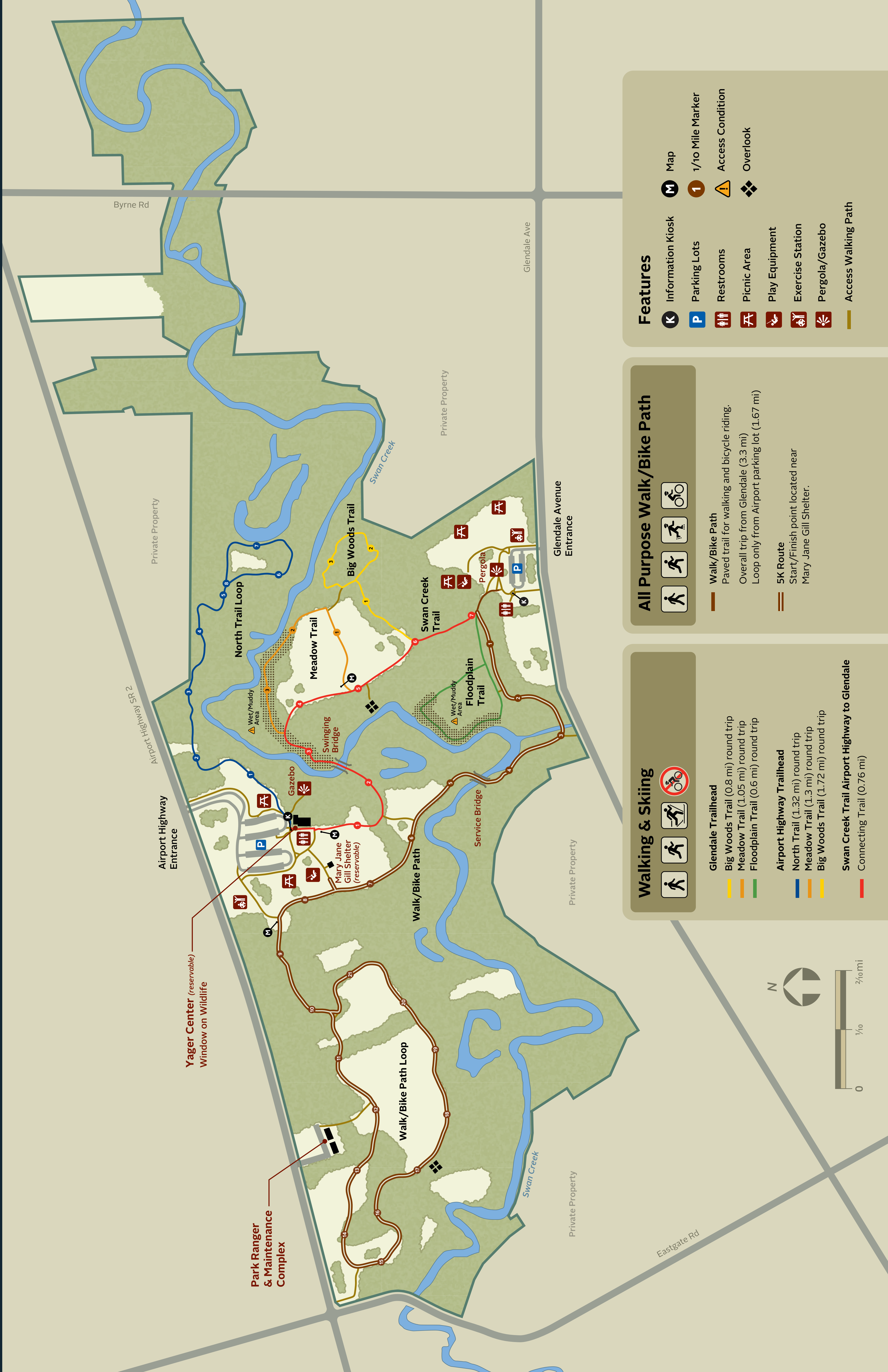
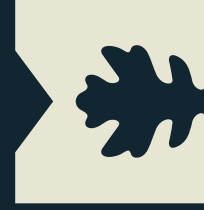
Metroparks will base the consultant selection for Professional Services for Swan Creek Swinging Bridge on the following criteria:

- Depth, experience, qualifications of the project team.
- Approach and understanding of the project, including permitting requirements and permitting timelines.
- Ability to implement the project promptly and meet the schedule.
- Scale, scope and relevance of example projects & references.

Based on the above Contract Award Criteria, the top or highest ranked consultant(s) as determined by Metroparks will be expected to provide a final comprehensive scope of services and a detailed fee proposal for review and approval by the Director of Planning & Capital Projects. Final contract award may be subject to the review and approval by way of legislation through Metroparks Board of Park Commissioners.

APPENDIX

- Project Area Exhibit
- Bridge Photos
- 1983 Pedestrian Bridge Plan Set

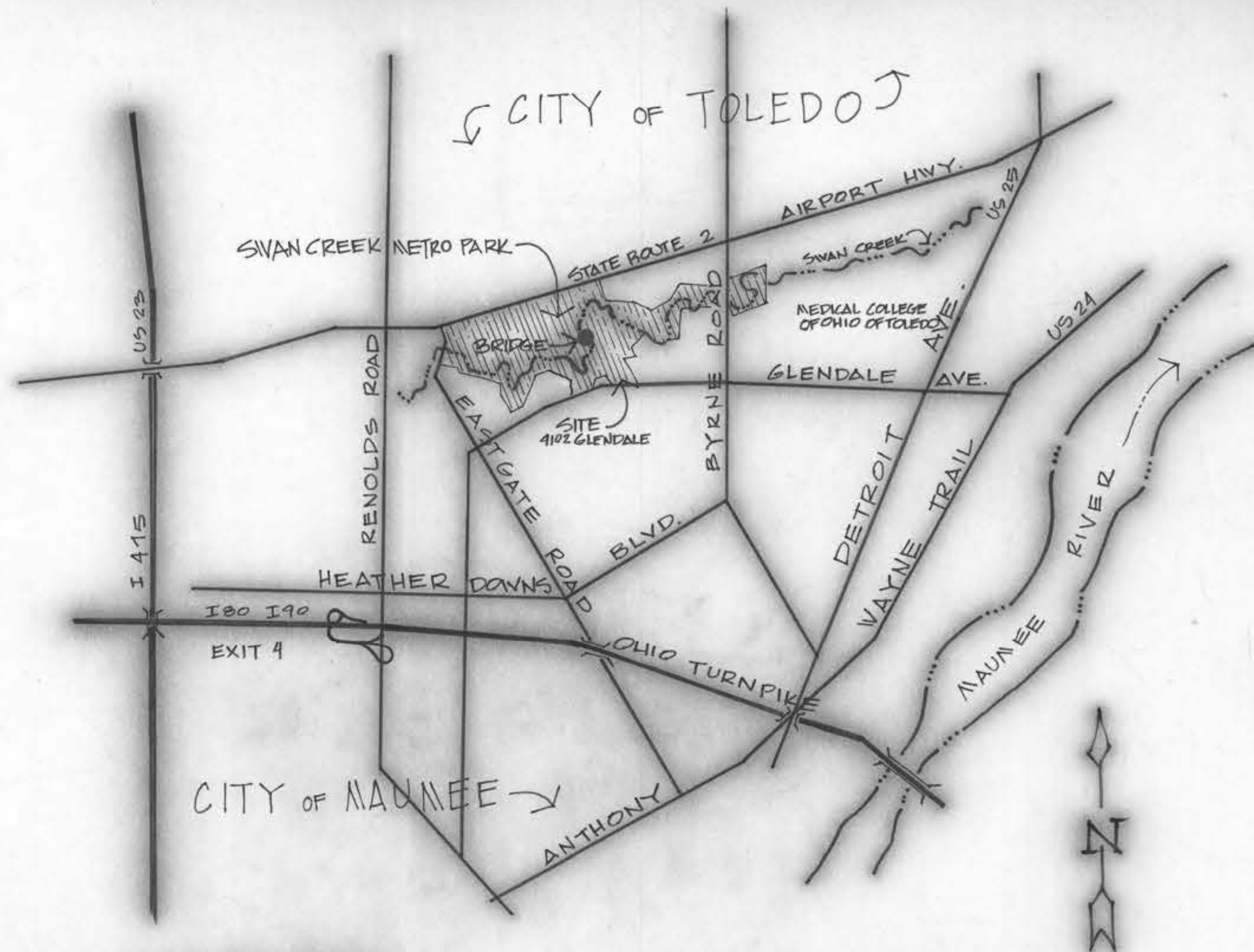








PEDESTRIAN BRIDGE OVER SWAN CREEK IN SWAN CREEK PRESERVE METROPARK



BOARD OF PARK COMMISSIONERS

JOHN YAGER

PRESIDENT

MARY JANE GILL

VICE PRESIDENT

JAMES A KIMBLE

VICE PRESIDENT

ROBERT NETZ

DATE MAY 10, 1983

DIRECTOR/SECRETARY

PREPARED BY:

CONSTRUCTION & PLANNING DEPT.

APPROVED BY:

U.S. ARMY CORPS OF ENGINEERS
MAUMEE WATERSHED CONSERV. DEPT.
CITY OF TOLEDO

APRIL 6, 1983

DATE

MAY 3, 1983

DATE

MAY 5, 1983

DATE

INDEX

SHEET		
1		COVER SHEET
"	2	SITE PLAN
"	3	PLAN/ELEVATION/SECTIONS
"	4	DETAILS

COVER SHEET
SHEET 1 OF 4

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED 3/25/83
		12-12-84
METROPOLITAN PARK DISTRICT of the Toledo Area 5100 W. Central Ave. Toledo, Ohio 43615		DRAWING NUMBER

SW/B3/R/EN/E

THE UNIVERSITY OF CHICAGO

DRAINAGE AREA - 184 SQ MILES. DUE TO URBANIZATION, RUN OFF HAS BEEN ACCELERATED THEREBY CREATING UNIQUE PROBLEMS WITH THIS STREAM. (ATTENTION IS DRAWN TO THE 1973 REPORT ENTITLED, "FLOODING AND EROSION RELATED TO URBANIZATION: SWAN CREEK WATERSHED LUCAS COUNTY, OHIO" SPECIFICALLY PAGES 24-27) PREPARED BY EARTHYVIEW INC. - DR. GEORGE KUNKLE)

EXISTING BRIDGE DATA

FIRST BRIDGE UPSTREAM

TYPE: PRECAST, PRESTRESSED CONCRETE BOX
BEAMS ON REINFORCED CONCRETE
SUBSTRUCTURE, CAPPED PILE ABUTMENTS
AND T-TYPE PIERS

SPANS: 27'-5⁵/₈", 26'-11¹/₄", 23'-5⁵/₈" C/C BEARINGS

ROADWAY: 15'-11¹/₂" ± F/R GUARDRAILS

LOADING: HS 20-44

SKIEW: 29°-00' L.F.

WEARING SURFACE: 1 1/2 IN. BITUMINOUS

APPROACH SLAB: NONE

ALIGNMENT: TANGENT

CLEAR OPENING: 1100 SQ FT.

DATE BUILT: 1974.

FIRST BRIDGE DOWNSTREAM

BYRNE ROAD OVER SWAN CREEK

TYPE: CONTINUOUS CONCRETE BEAM AND
DECK WITH CONCRETE ABUTMENTS
AND PIERS

SPANS: 3 SPANS 53', 70', 53'

SKEW: 34°

ROADWAY: 52.1' FACE / FACE CURBS

CONDITION: GOOD

DATE BUILT: 1952

CLEAR OPENING: 1860 SQ. FT.

PROPOSED STRUCTURE

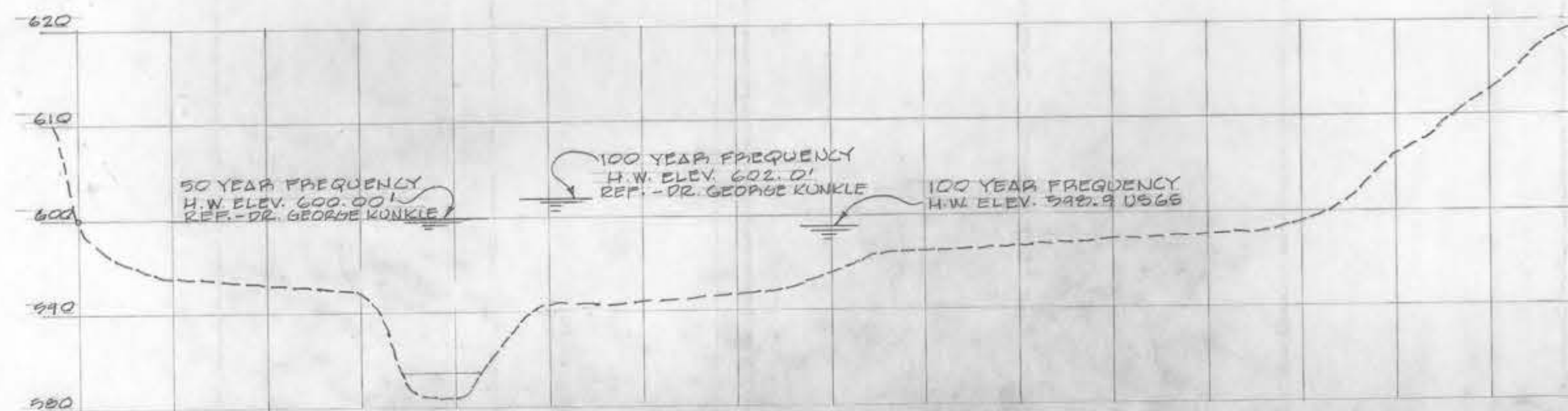
TYPE: PEDESTRIAN SUSPENSION BRIDGE USING TENSIONED WIRE ROPES, PRESSURE
TREATED TIMBER, BREAKAWAY RAILING AND TREE ANCHORS.
SPAN: 71'-10"
DECK WIDTH: 7'-0"
WALKWAY BETWEEN RAILINGS: 5'-0"
LOADING: 55 #/SQ.FT. LIVE LOAD

BENCH MARK INFORMATION

BENCH MARK EXTENDED TO SITE FROM B.M. ELEV. 604.48' ON N.E. ABUTMENT
OF SERVICE BRIDGE 2000 FT. UPSTREAM. P.K. NAIL IN WEST ANCHOR TREE 593.26'.
P.K. NAIL IN EAST ANCHOR TREE 592.84.

NOTE :

DUE TO THE BREAKAWAY RAILING DESIGN, THIN DECK SECTION PROFILE, AND WIDTH OF FLOODPLAIN; IT IS ANTICIPATED THAT THE EFFECTS ON WATER SURFACE ELEVATIONS UPSTREAM FROM THE SITE WILL BE MINIMAL FOR 25, 50, AND 100 YEAR FREQUENCIES.



SWAN CREEK FLOOD PLAIN SECTION A.A.

SCALE: 1" = 10' VERTICAL; 1" = 50' HORIZONTAL

SITE PLAN
SHEET 2 OF 4

SCALE:		APPROVED BY:	DRAWN BY
DATE:			REVISED 5/25/73
METROPOLITAN PARK DISTRICT of the Toledo Area 5100 W. Central Ave. Toledo, Ohio 43615			12-19-84
			DRAWING NUMBER

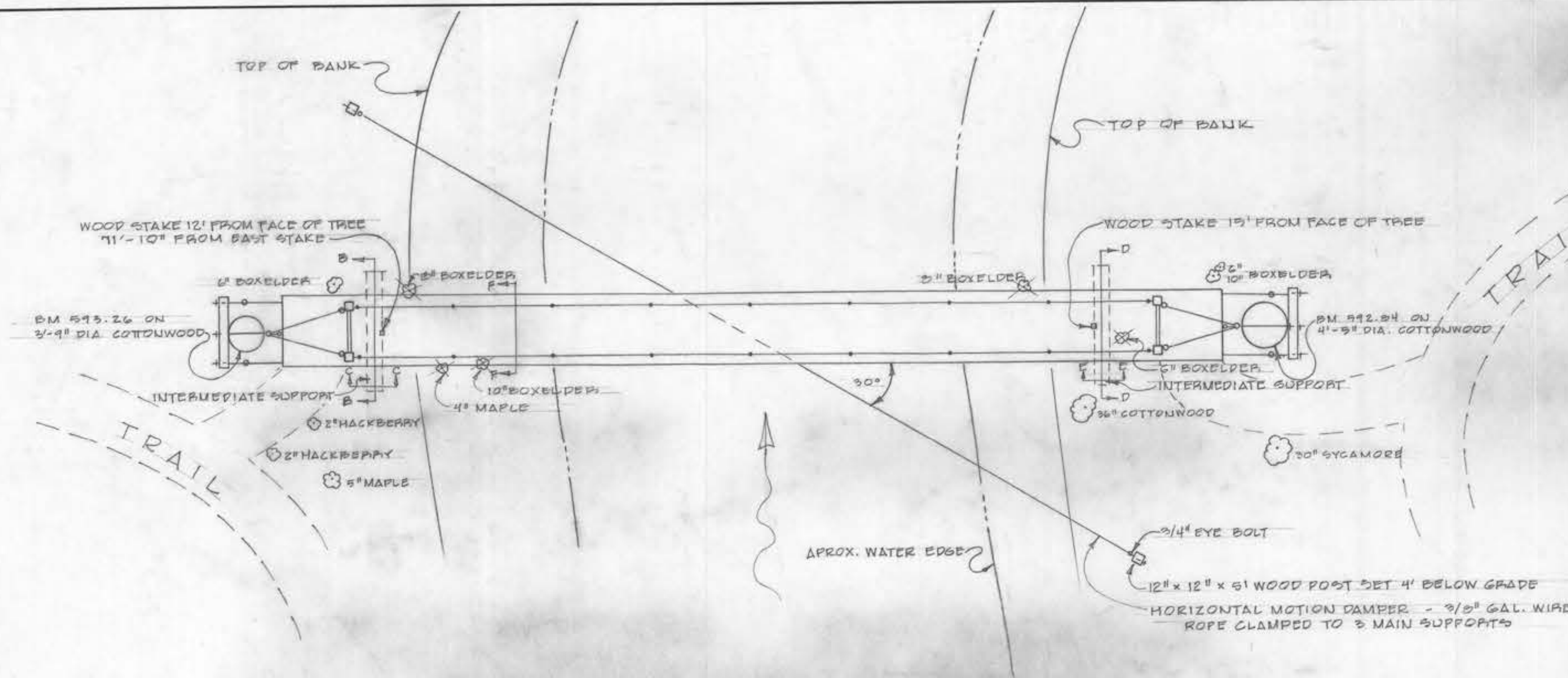
SW/83/R/EN/E

GENERAL NOTES

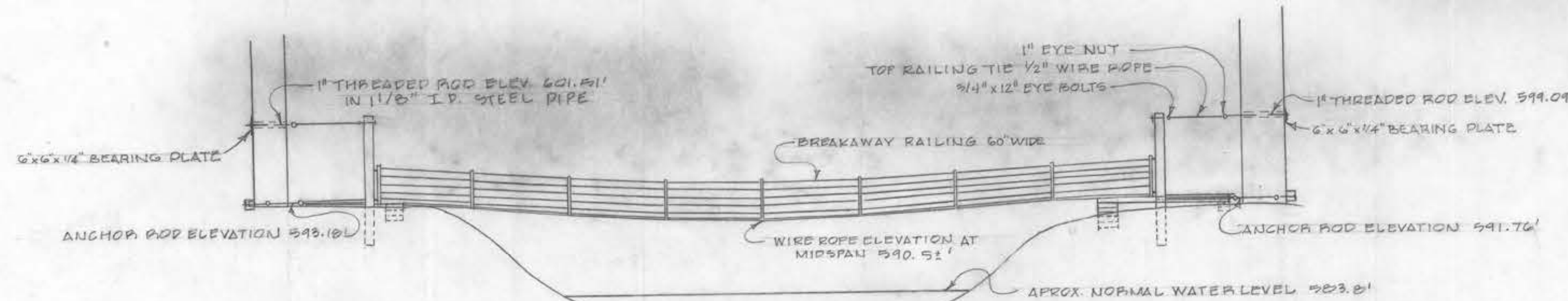
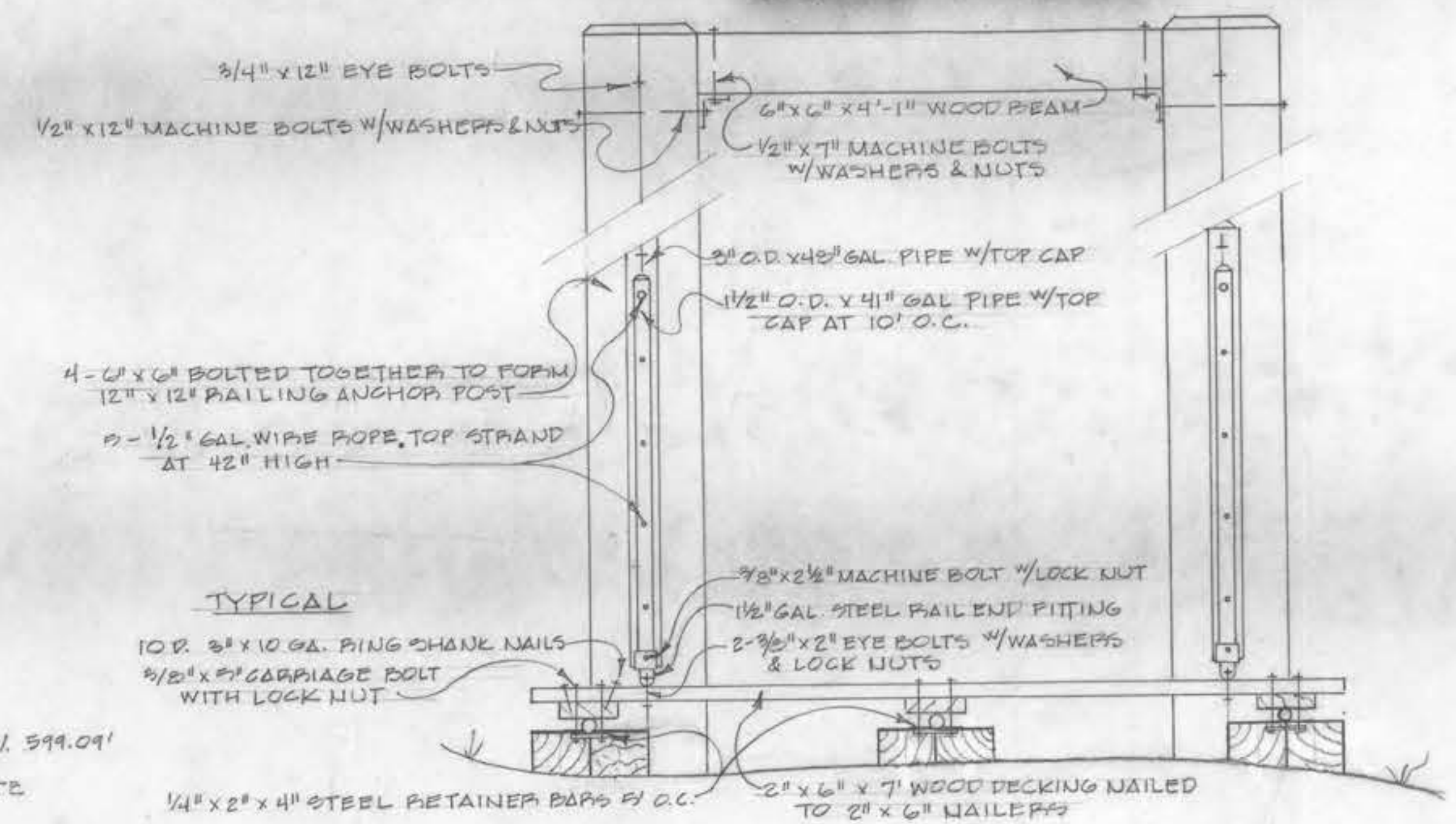
- ALL WOOD TO BE PRESSURE TREATED C.C.A. .25 RETENTION ABOVE GRADE AND .40 RETENTION BELOW GRADE.
- ALL BOLTS AND FASTENING DEVICES TO BE PLATED.
- ALL IRON AND *1/4" WIRE ROPE TO BE COATED WITH ONE COAT HIGH QUALITY PRIMER AND TWO FINISH COATS.
- TREE ANCHORS SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS SET FORTH IN U.S. DEPT. OF AGRICULTURE BULLETIN NO. 1896.
- ALL BACKFILL TO BE IN 6" LIFTS AND WELL TAMPED.
- USE THIMBLES AND TWO CLAMPS AT ALL WIRE ROPE CONNECTIONS.

*1/4" WAS USED AT SWANCREEK - 100,200 TENSILE STRENGTH.

PLAN VIEW SCALE 1/8" = 1'-0"



SECTION F.F. SCALE 1" = 1'-0"



ELEVATION SCALE 1/8" = 1'-0"

PLAN/ELEVATION/SECTION SHEET 3 OF 4

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED 5/25/84
METROPOLITAN PARK DISTRICT of the Toledo Area 5100 W. Central Ave. Toledo, Ohio 43615		DRAWING NUMBER

SW/B3/R/EN/E

DESIGN DATA

OBJECTIVE: TO DESIGN A STRUCTURE WHICH WILL PROVIDE A SAFE PEDESTRIAN CROSSING, WHICH IS PORTABLE AND REQUIRES NO LARGE EQUIPMENT FOR INSTALLATION AND AT THE SAME TIME, PRESENTING A THIN PROFILE TO FLOOD WATERS.

THREADED RODS: GRADE B7 TENSILE STRENGTH 125,000 PSI; 1" DIAM. 98,174 LBS. TENSILE STRENGTH
1 1/2" DIA. = 220,893 LBS. TENSILE STRENGTH

EYE NUTS: FORGED STEEL, HOT DIP GAL., 1 1/2" DIA. = 112,500 LBS. TENSILE STRENGTH 1" DIA. = 50,000 LBS. TENSILE STRENGTH

WIRE ROPE: 1 1/4" DIA. PRE-FORMED MONITOR IMPROVED FLOW STEEL 123,000 LBS. TENSILE STRENGTH

STEEL I BEAM: ASTM A-36 TENSILE STRENGTH 58 - 80,000 PSI. THE FOLLOWING BEAMS MEET THE LOAD REQUIREMENTS; 12" @ 70#/FT. & 20" @ 62#/FT.

BAILING BREAKAWAY SHACKLE: BREAKING STRENGTH 17,000

COMPUTATIONS FOR TENSION ON MAIN SUPPORT STRANDS:

DEAD LOAD: STRANDS 1 1/4" = 2.42 LBS PER LIN. FT., DECK 2x6 = 2.5 LBS. PER LIN. FT.
 $2.5 \times 7 \times 2 = 11.66 \text{ LBS/LIN. FT. / WIRE}$

LIVE LOAD: 85 LBS. PER LIN. FT. $\times \frac{5}{8} = 141.66 \text{ LBS. PER LIN. FT. / WIRE}$

TOTAL LOAD: = 2.42 + 11.66 + 141.66 = 155.74 LBS/LIN. FT. PER WIRE

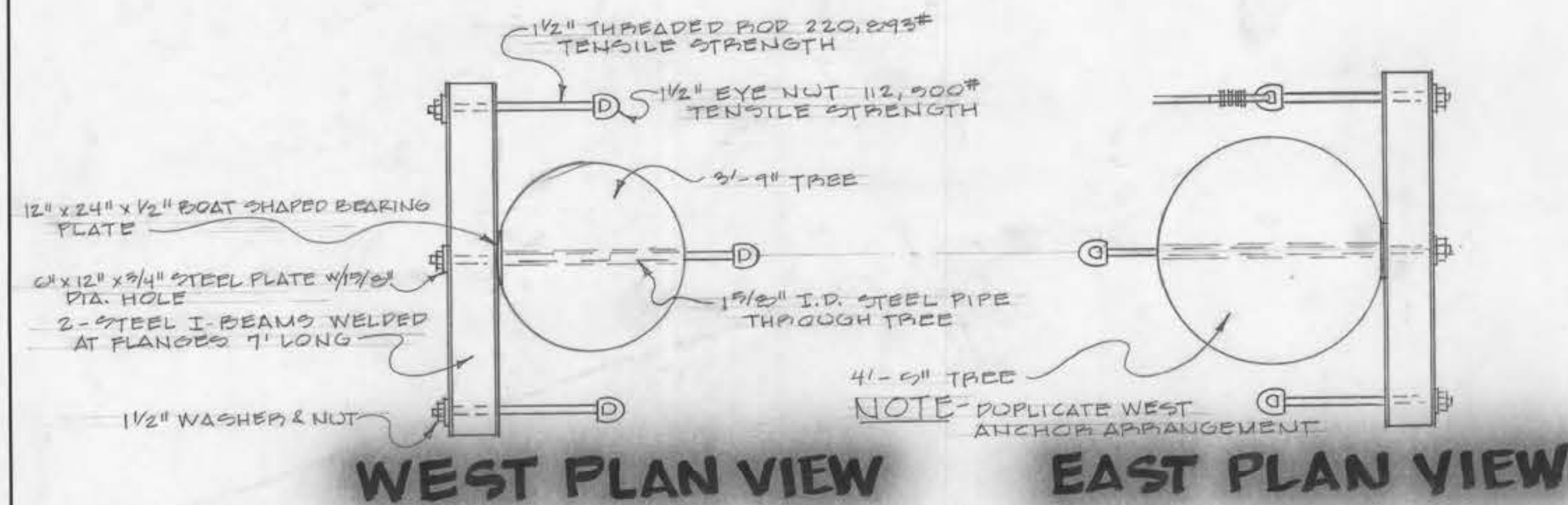
P = TOTAL LOAD IN LBS. F = DEFLECTION IN FT.
L = LENGTH OF SPAN IN FT.

$$\frac{P \times L^2}{8F} \sqrt{1 + 16 \left(\frac{F}{L}\right)^2}$$

$$\frac{155.74 \times (72)^2}{8(2)} \sqrt{1 + 16 \left(\frac{2}{72}\right)^2}$$

59,459.76 $\sqrt{1.012345} = 50,770.26 \text{ LBS OF TENSION}$

SAFETY FACTORS: STEEL I BEAMS 2 TO 1
THREADED RODS 4.3 TO 1
EYE NUTS 2.2 TO 1
WIRE ROPE 1 1/4" = 2.4 TO 1
1 1/2" = 7.97 TO 1



WEST PLAN VIEW

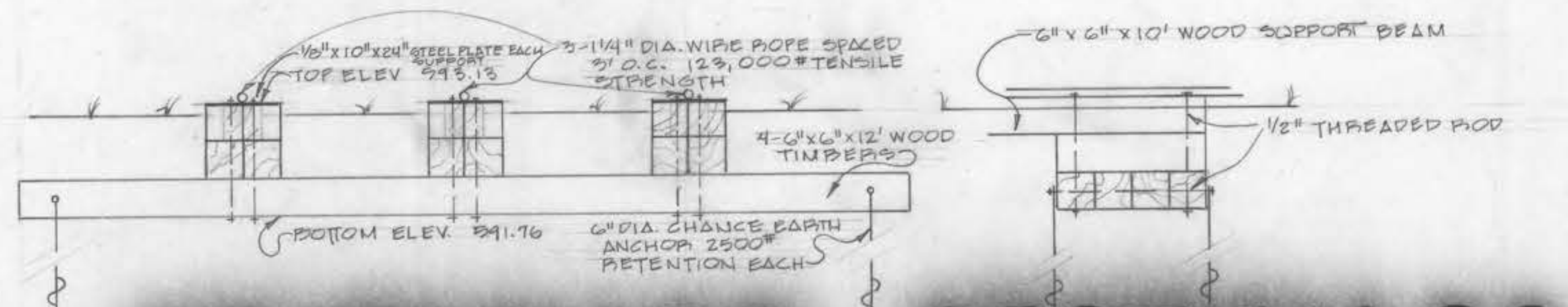
EAST PLAN VIEW

WEST ELEVATION

EAST ELEVATION

ANCHOR DETAIL

SCALE 1/2" = 1'-0"

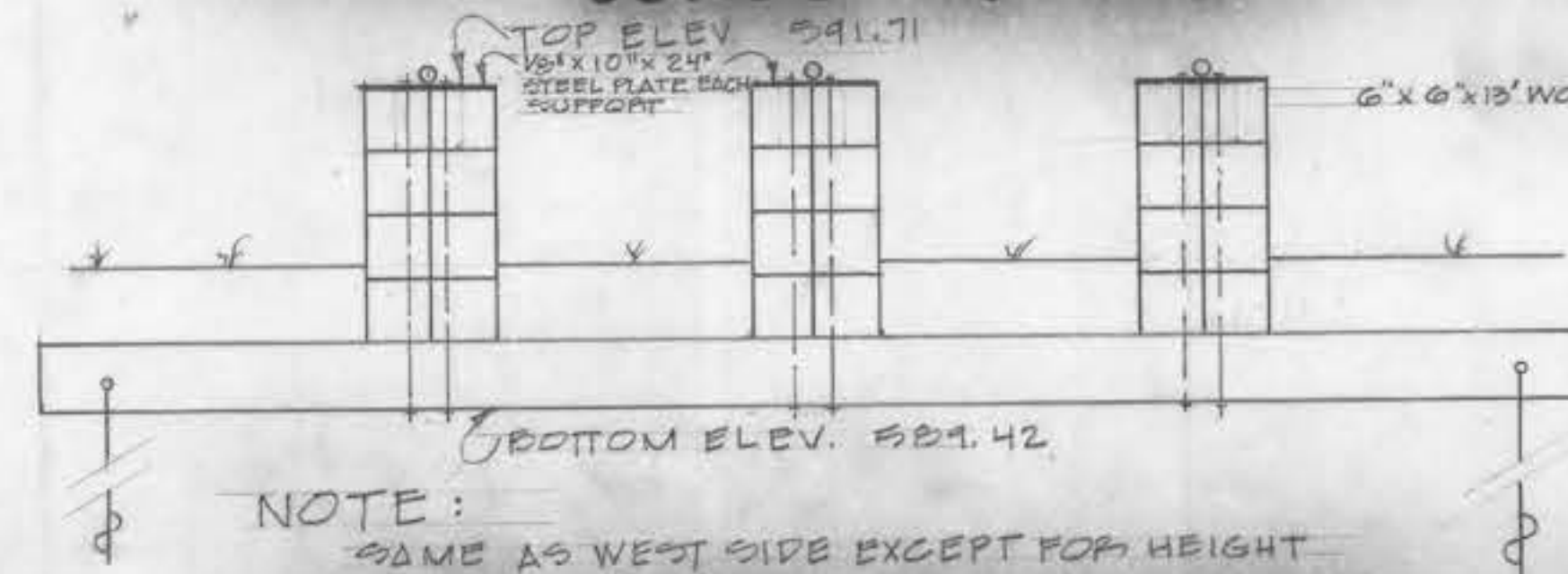


SECTION B.B.

SECTION C.C.

SCALE 3/4" = 1'-0"

SCALE 3/4" = 1'-0"

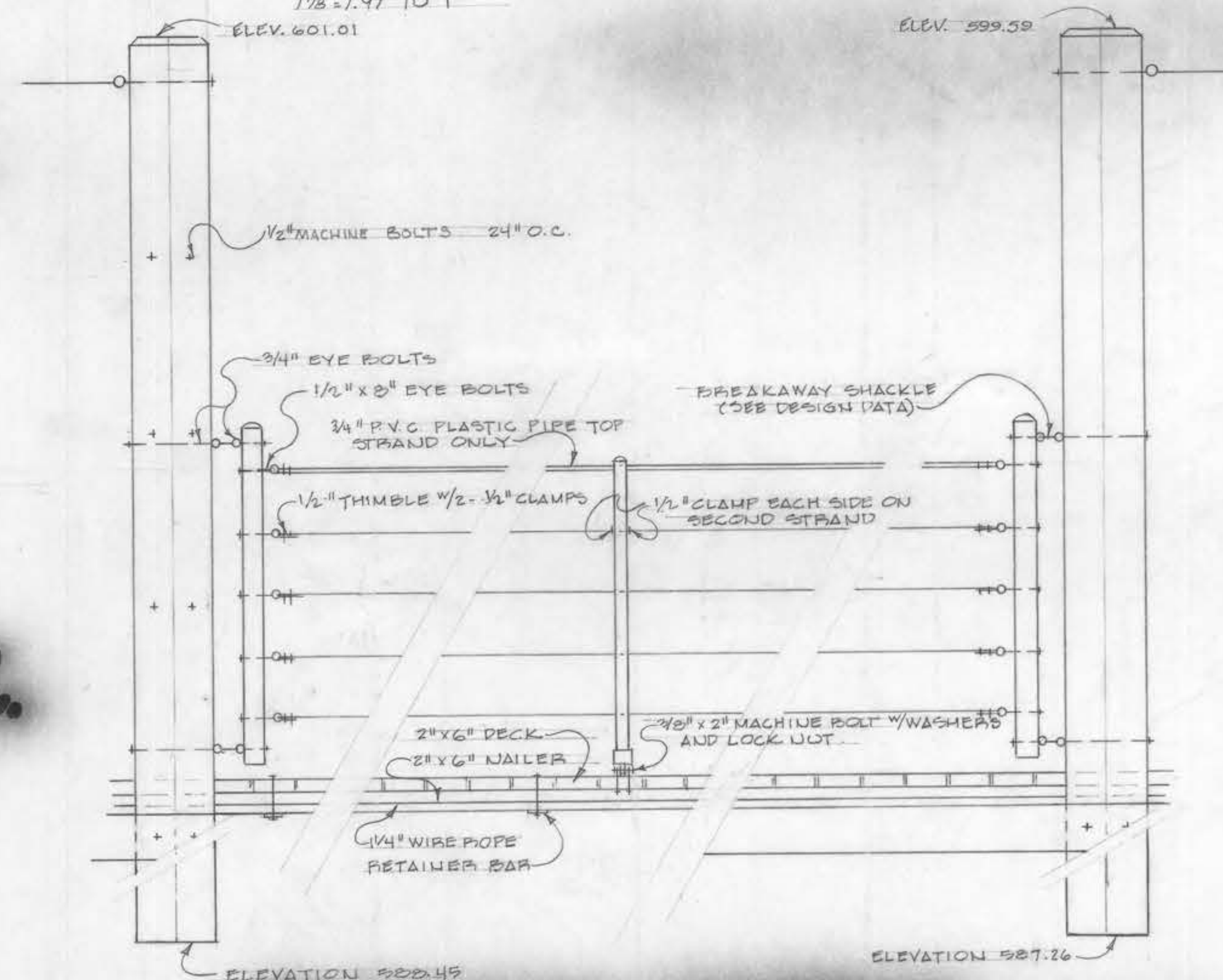


SECTION D.D.

SECTION E.E.

SCALE 3/4" = 1'-0"

SCALE 3/4" = 1'-0"



RAILING DETAIL

SCALE 1" = 1'-0"

DETAIL SHEET
SHEET 4 OF 4

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED 5/25/89
METROPOLITAN PARK DISTRICT of the Toledo Area 5100 W. Central Ave. Toledo, Ohio 43615		12-19-84
		DRAWING NUMBER

SW/BS/R/EN/E