Public Notice

U.S. Army Corps of Engineers
Pittsburgh District

In Reply Refer to Notice No. below

US Army Corps of Engineers, Pittsburgh District
1000 Liberty Avenue
Pittsburgh, PA 15222-4186

Application No. 200300835 Date: January 26, 2004

Notice No. 04-4 Closing Date: February 9, 2004

1. TO ALL WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act (33 U.S.C. 1344).

2. APPLICANT: PA Department of Transportation
District 1-0
255 Elm Street
P.O. Box 398
Oil City, PA 16301

3. LOCATION: across the Allegheny River, in the City of Warren, Warren County, Pennsylvania.

4. PURPOSE AND DESCRIPTION OF WORK: The applicant is proposing to construct a temporary causeway and to construct a replacement for the Hickory Street Bridge (State Route 3005, Section B00) that was demolished in the fall of 2003. The proposed four-span concrete adjacent box beam bridge will be in the same alignment as that of the demolished four-span concrete closed spandrel river gravel filled arch bridge. Construction of the new bridge will be conducted in two phases. The first phase will include the construction of the south abutment and two piers. In order to construct those structures, temporary causeways are required. The second phase will begin by removing the causeways and relocating them to the north bank to allow construction of the third pier and north abutment. The causeways will be permanently removed after bridge construction is complete. Location maps and drawings of the proposed project are attached to this notice.

5. ENCROACHMENT PERMIT: The applicant is required to obtain an encroachment permit which includes State 401 Water Quality Certification from the:

Pennsylvania Department of Environmental Protection
Northwest Regional Office
Soils and Waterways Section
230 Chestnut Street
Meadville, Pennsylvania 16335

Telephone: 814-332-6942

6. IMPACT ON NATURAL RESOURCES: The District Engineer has

consulted the most recently available information and has coordinated with the United States Fish and Wildlife Service (USFWS) which determined that the project area contains an endangered species. Section 7 of the Endangered Species Act consultation has been completed and the USFWS issued a biological opinion that the level of anticipated take is not likely to result in jeopardy to the endangered species. The permit will be conditioned with the USFWS recommendations and best management practices in order to minimize disturbance to the endangered species and its habitat. This Public Notice serves as a request to the U. S. Fish and Wildlife Service for any additional information they may have.

7. IMPACT ON CULTURAL RESOURCES: The National Register of Historic Places has been consulted, and it has been determined that there are no properties currently listed on the register which would be directly affected by the proposed work. If we are made aware, as a result of comments received in response to this notice, or by other means, of specific archeological, scientific, prehistorical, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 - Public Law 89-665 as amended (including Public Law 96-515).

8. PUBLIC INVOLVEMENT: Any person may request, in writing, within the comment period specified in the paragraph below entitled "RESPONSES," that a public hearing be held to consider this application. The requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

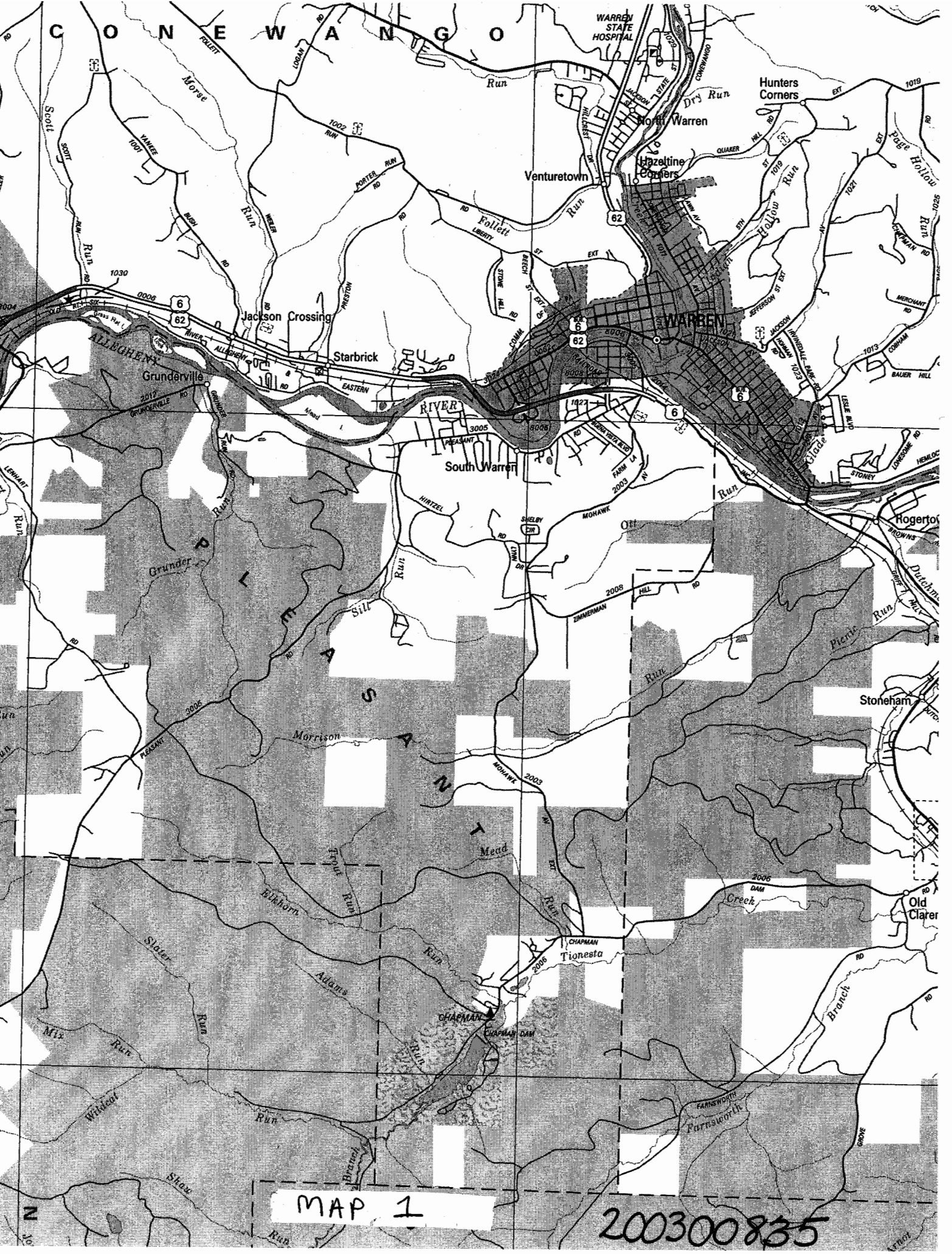
9. EVALUATION: Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposals must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to

determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the overall public interest of the proposed activity. The evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

10. RESPONSES: A permit will be granted unless its issuance is found to be contrary to the public interest. Written statements concerning the proposed activity should be received in this office on or before the closing date of this Public Notice in order to become a part of the record and to be considered in the final determination. Any objections which are received during this period may be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. All responses to this notice should be directed to the Regulatory Branch, attn Christina L. Schroeder, at the above address, by telephoning (412) 395-7375, or by e-mail at Christina.L.Schroeder@usace.army.mil. Please refer to CELRP-OR-F 200300835 in all responses.

FOR THE DISTRICT ENGINEER:

Scott A. Hans
Chief, Regulatory Branch



MAP 1

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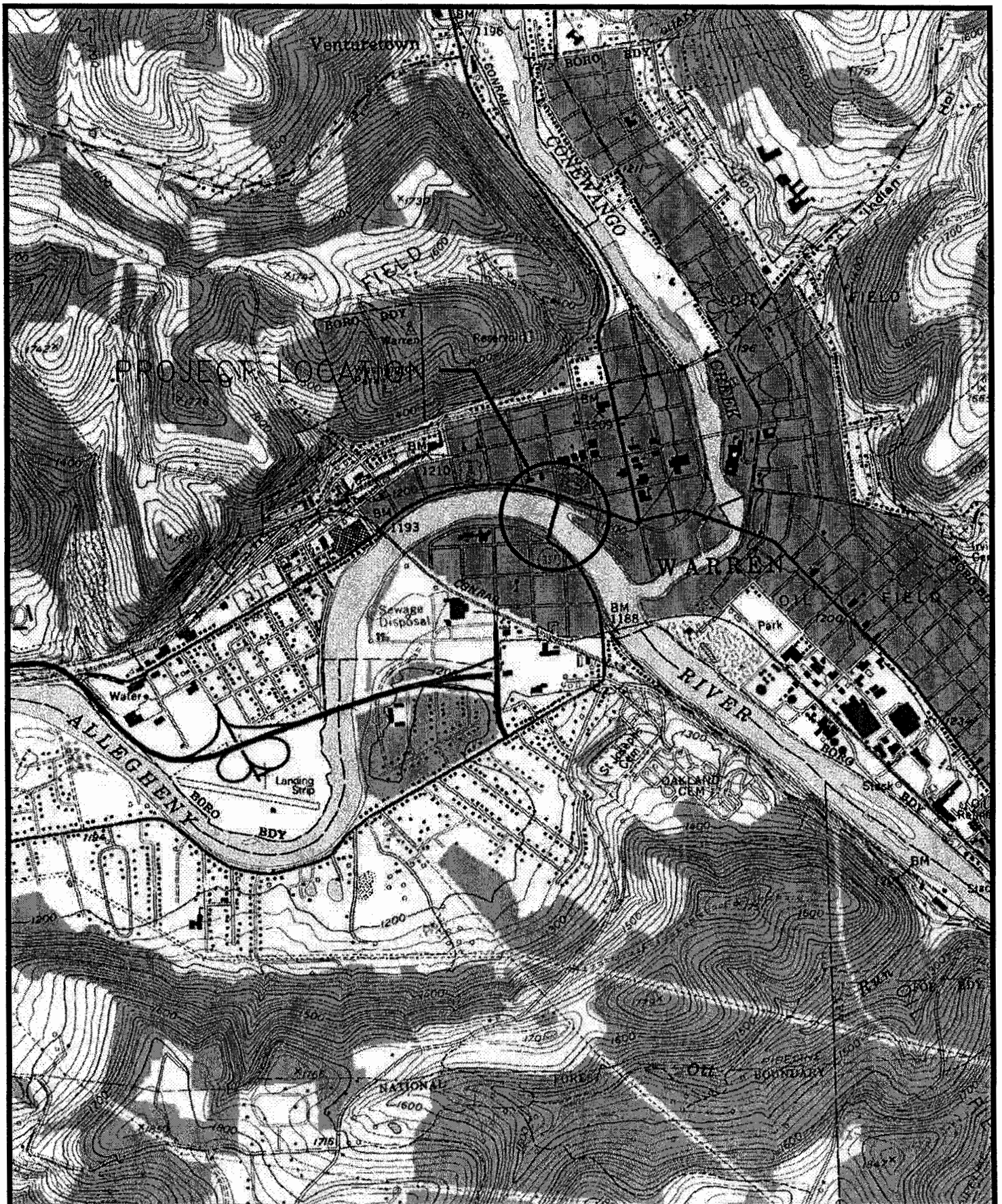


Baker

2000 0 1000 2000

1 inch = 2000 ft.

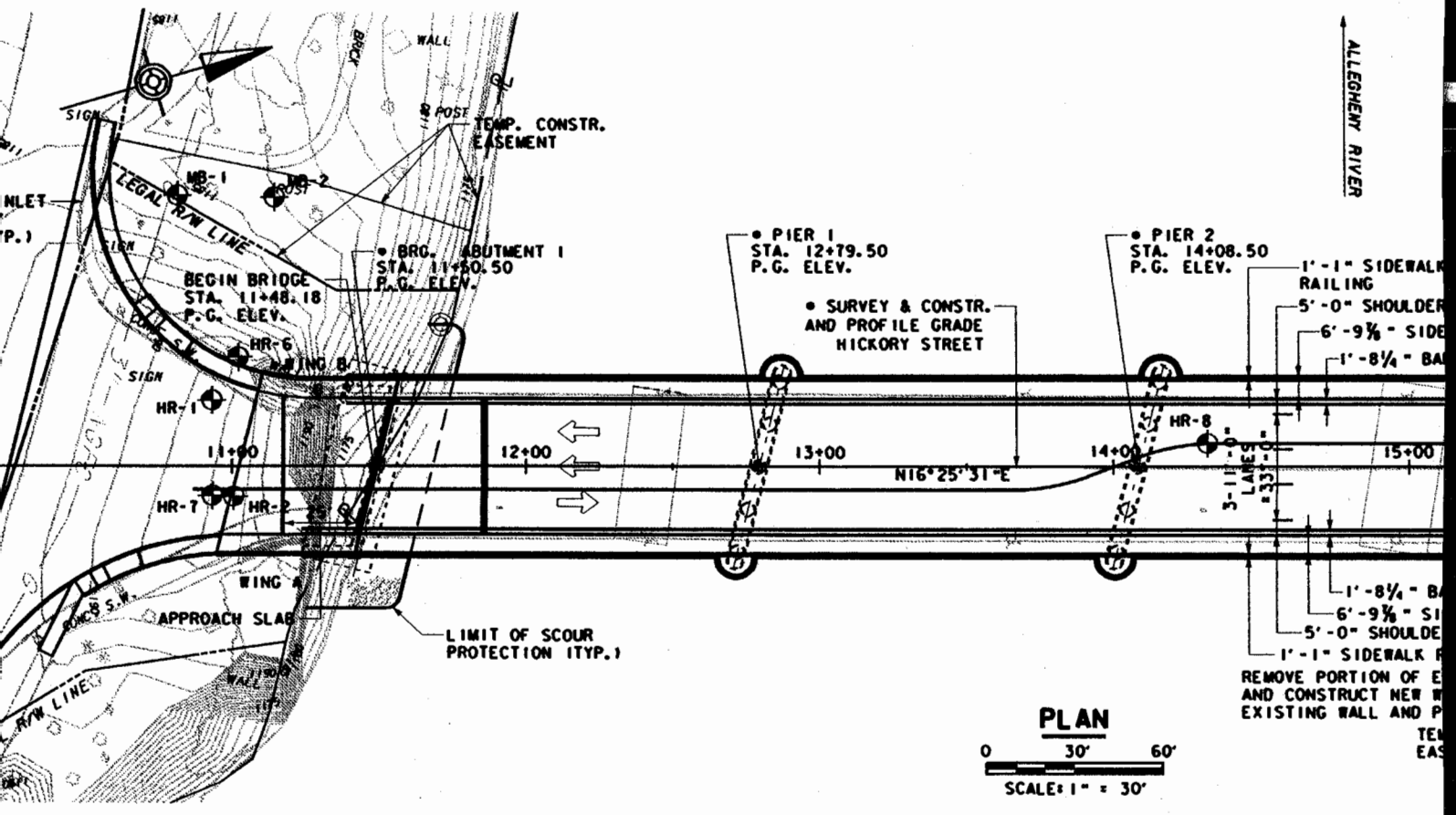
Map 2

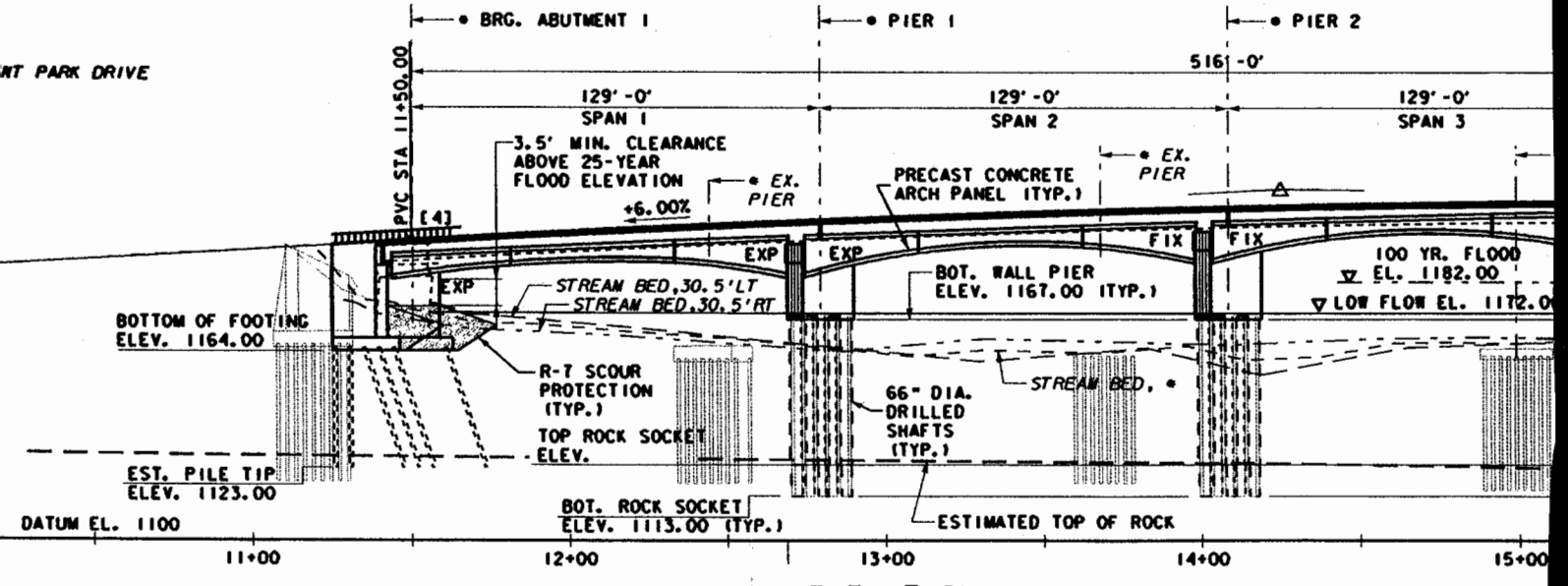
FIGURE 1
PROJECT LOCATION MAP

HICKORY STREET BRIDGE REPLACEMENT PROJECT
WARREN, PENNSYLVANIA

20030 0835

Map 3 200300835





HYDRAULIC DATA

DRAINAGE AREA = 3,131 SQUARE MILES

DESIGN FLOOD DATA:
- FREQUENCY = 100 YEAR FLOOD
- MAGNITUDE OF FLOW = 40,000 C.F.S.
- ELEVATION = 1182.00
- VELOCITY = 4.57 FPS
- FREQUENCY = 25 YEAR FLOOD
- MAGNITUDE OF FLOW = 36,800 C.F.S.
- ELEVATION = 1181.34
- VELOCITY = 4.37 FPS

NOTE: THE BOTTOM OF THE PRECAST CONCRETE ARCH PANELS ARE A MINIMUM OF 3.5 FEET ABOVE THE 25 YEAR FLOOD ELEVATION

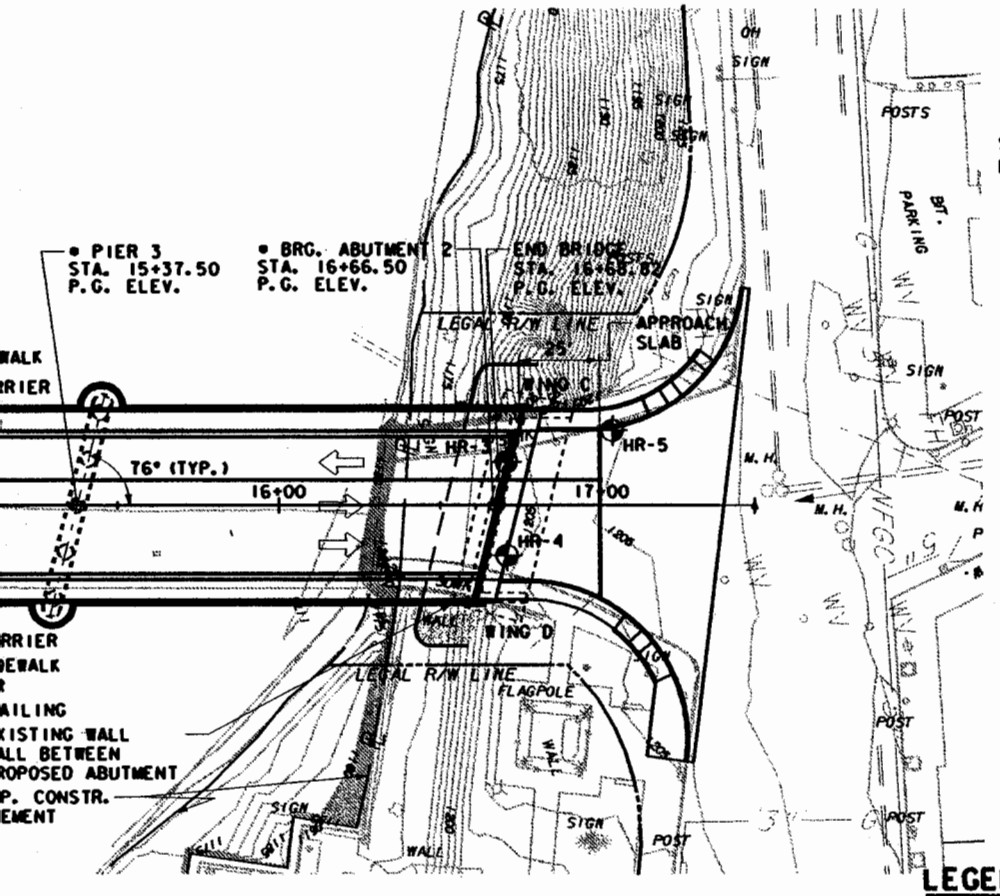
DRAWING 1

200300835

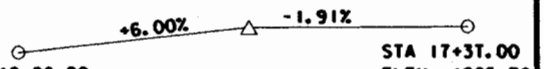
PREPARED BY:

MICHAEL BAKER JR. INC.
AIRPORT OFFICE PARK, BLDG.
420 ROUSER ROAD
CORAOPOLIS, PENNSYLVANIA

By: RWB
By: RJF
: EEM/CLG
By: RWB



VERTICAL CURVE DATA



STA 10+00.00
ELEV. 1186.24

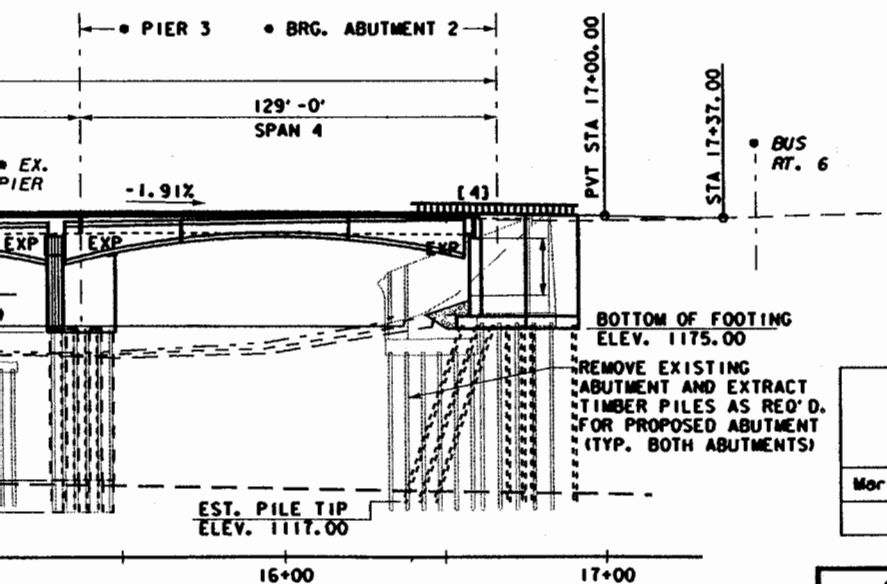
PVI STA. = 14+25
PVI ELEV. = 1211.74
V.C. = 550.00'
M.O. =
K =
SSD =

STA 17+37.00
ELEV. 1205.79

RECEIVED

SEP 10 2003

ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE



LEGEND:

- EXISTING BORING LOCATION
- EXP. DENOTES NEW ELASTOMERIC EXPANSION BEARINGS
- FIX. DENOTES NEW ELASTOMERIC FIXED BEARINGS
- [4] DENOTES NEOPRENE STRIP SEAL DAM 4" MOVEMENT CLASSIFICATION
- P.F. DENOTES PROFILE GRADE

REFERENCES:

REFERENCES:	SHEET:
1. GENERAL NOTES	2
2. INDEX OF DRAWINGS	2
3. LOAD RATINGS	3
4. TYPICAL SECTION	4
5. DECK ELEVATIONS	

PRELIMINARY
Sept. 03, 2003

Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

DESCRIPTION	DWG. NO.	APP. DATE
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	4-28-00
BACKFILL AT STRUCTURES	RC-12M	4-28-00
BRIDGE APPROACH SLAB	RC-23M	11-1-01
ALUMINUM OR STEEL BRIDGE HAND RAILING	BC-720M	1-21-03
ELECTRICAL DETAILS	BC-721M	1-21-03
LIGHTING POLE ANCHORAGE	BC-722M	1-21-03
WALL CONSTR. & EXP. JOINT DETAILS	BC-735M	1-21-03
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	1-21-03
CONCRETE DECK SLAB DETAILS	BC-752M	1-21-03
BEARINGS	BC-755M	1-21-03
STEEL PILE TIP REINFORCEMENTS & SPLICES	BC-757M	1-21-03
NEOPRENE STRIP SEAL DAM	BC-767M	1-21-03
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	1-21-03
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	1-21-03

SUPPLEMENTAL DRAWINGS

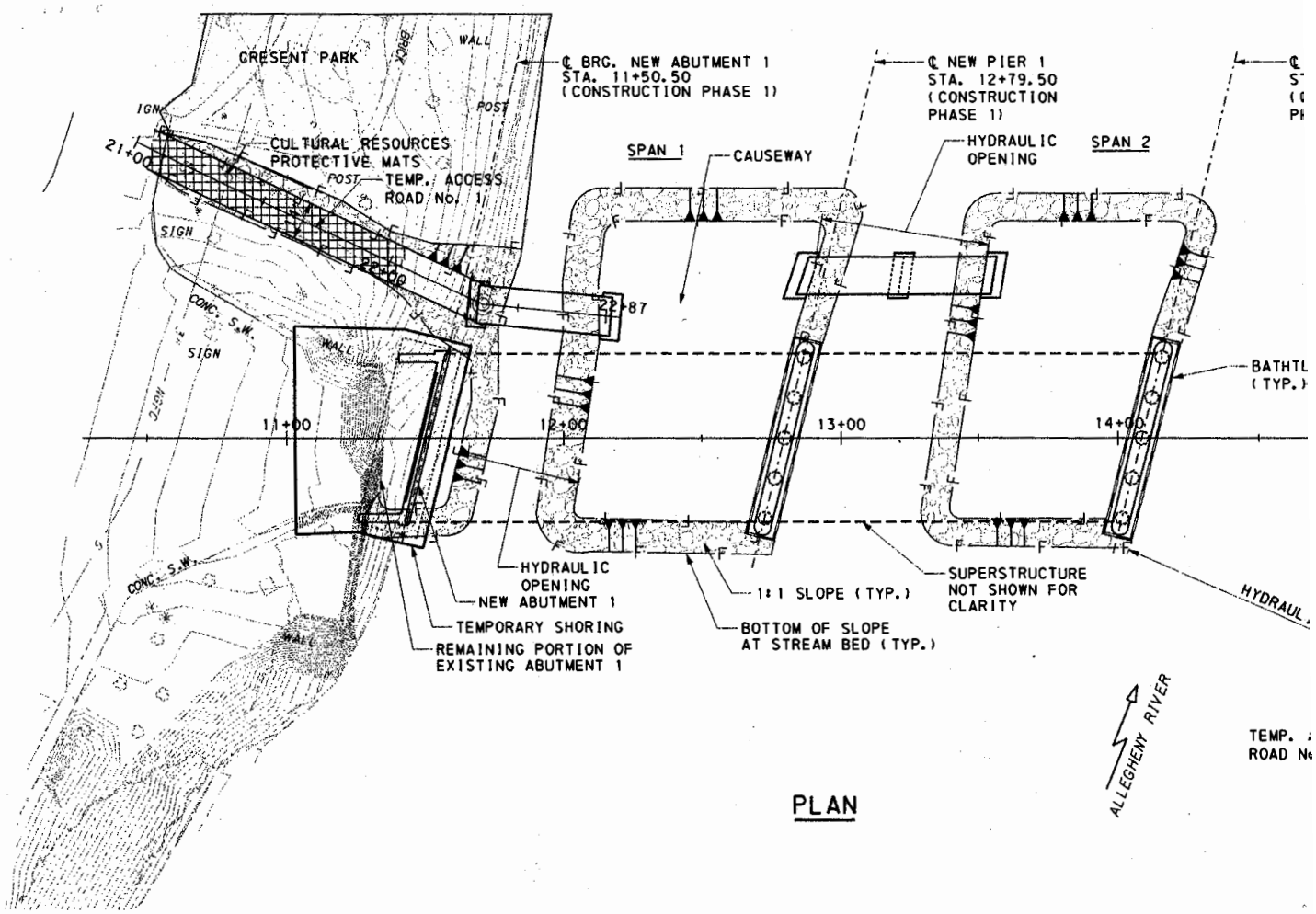
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

WARREN COUNTY
S.R. 3005, SECTION B00
SEGMENT 0410 OFFSET 2048
S.R. 3005 SEC B00 STATION 14+08.50
HICKORY STREET BRIDGE OVER ALLEGHENY RIVER
4 SPAN P/S CONC. ADJACENT BOX BEAM BRIDGE
GENERAL PLAN

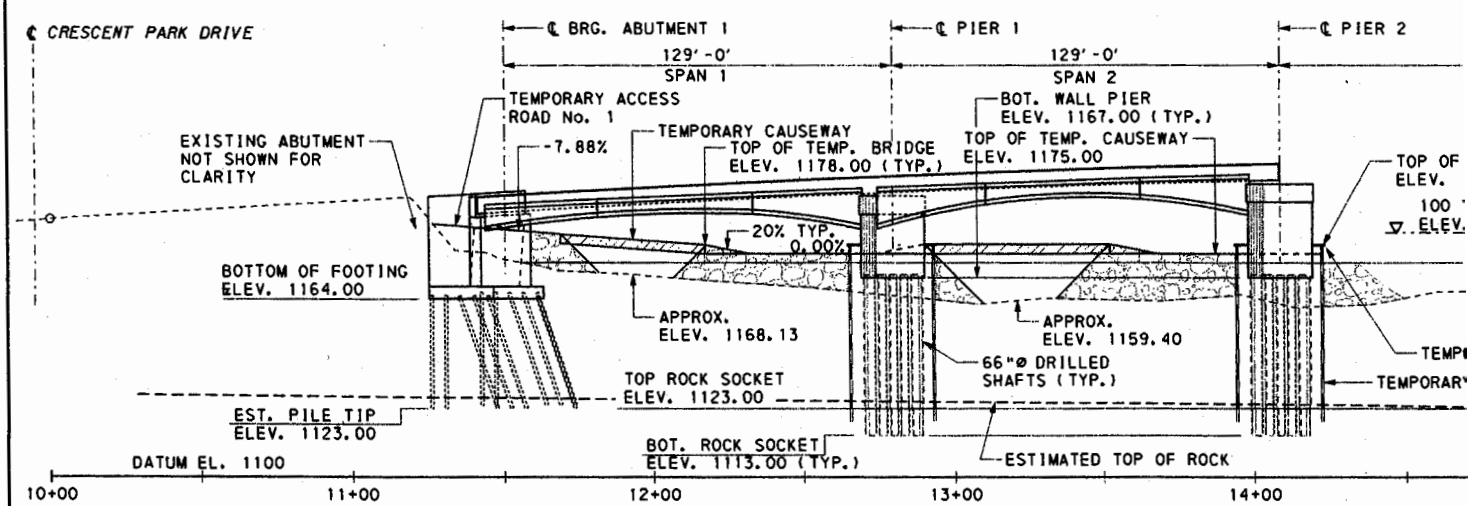
RECOMMENDED DRAWING 1A
200300835
BRIDGE ENGINEER

SHEET ___ OF ___
+ SUPPLEMENTAL DRAWINGS
S -

DGN



PLAN



ELEVATION VIEW

Designed By: RWB	
Checked By:	
Drawn By: EEM/CLG	
Checked By:	

RECEIVED
NOV 05 2003
ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

DRAWING 2
200300835

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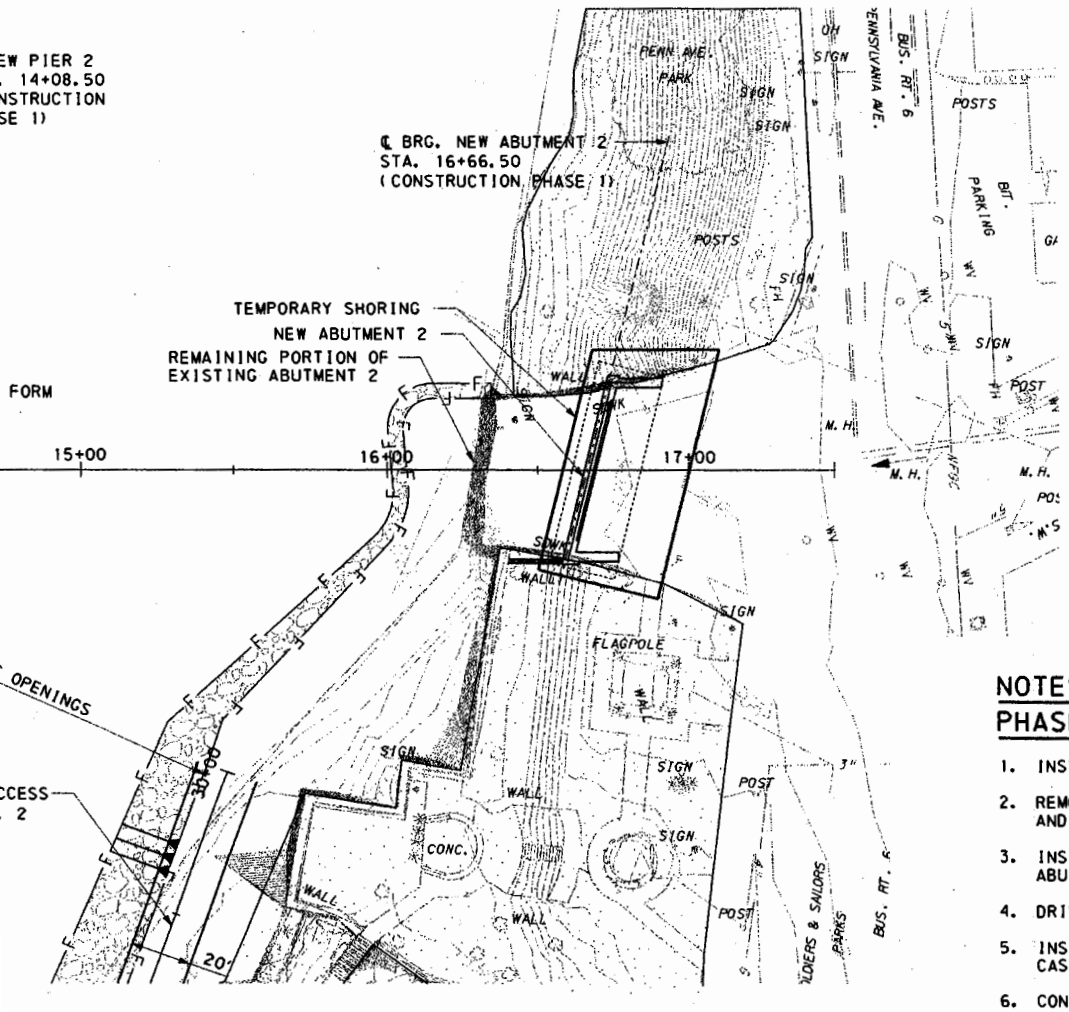
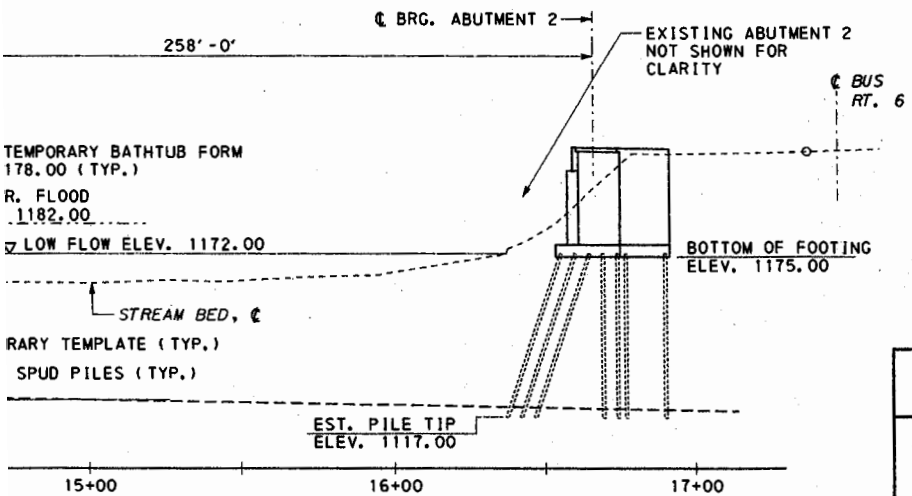


LEGEND:

- PUBLIC PARKS
- CONSTRUCTION ACCESS/ CAUSEWAY
- CONSTRUCTION ACCESS/ CAUSEWAY 1:1 SLOPE
- TEMPORARY BRIDGE WITH COFFER BOX ABUTMENTS
- AREA CONTAINED WITHIN TEMPORARY BATHTUB FORM
- PIER
- TEMPORARY SHORING

NOTES (CAUSEWAY CONSTRUCTION PHASE 1):

1. INSTALL TEMPORARY ACCESS ROADS No. 1 AND No. 2.
2. REMOVE REMAINING PORTIONS OF EXISTING ABUTMENT 1 AND ABUTMENT 2.
3. INSTALL TEMPORARY SHORING AS REQUIRED TO CONSTRUCT ABUTMENT 1 AND ABUTMENT 2.
4. DRIVE PILES AND CONSTRUCT ABUTMENT 1 AND ABUTMENT 2.
5. INSTALL TEMPORARY SPUD PILES, DRILLING TEMPLATE, CASINGS, AND DRILLED SHAFTS FOR PIER 1 AND PIER 2.
6. CONSTRUCT REMAINING PORTION OF PIER 1 AND PIER 2.
7. ERECT P/S CONCRETE ADJACENT BOX BEAMS IN SPAN 1 AND SPAN 2.
8. ERECT ARCH PANELS IN SPAN 1 AND SPAN 2.
9. REMOVE SOUTH CAUSEWAY AND TEMPORARY BRIDGES.
10. PLACE PERMANENT SCOUR PROTECTION AT ABUTMENT 1.
11. REMOVE REMAINING CAUSEWAY, TEMPORARY ACCESS ROAD No. 1 AND ALL TEMPORARY SHORING.



Mark	Description	By	Chk'd.	App'd.	Date
REVISIONS					

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

WARREN COUNTY
S.R. 3005, SECTION B00
SEGMENT 0410 OFFSET 2048
S.R. 3005 SEC B00 STATION 14+08.50
HICKORY STREET BRIDGE OVER ALLEGHENY RIVER
4 SPAN P/S CONC. ADJACENT BOX BEAM BRIDGE
CAUSEWAY CONSTRUCTION PHASE 1

RECOMMENDED DRAWING 2A
200300835

SHEET ___ OF ___
S -

0 30' 60'
SCALE: 1" = 30'

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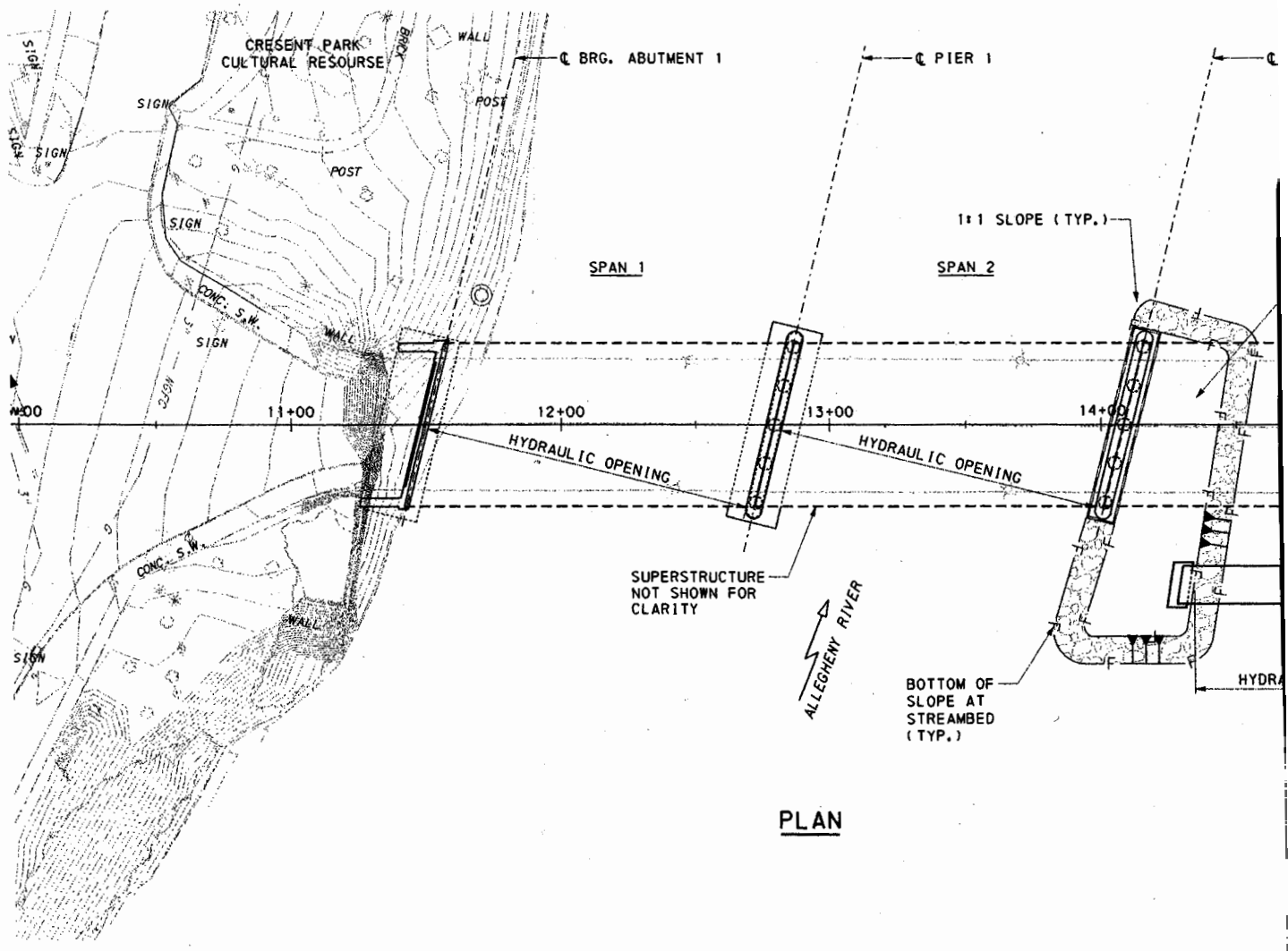
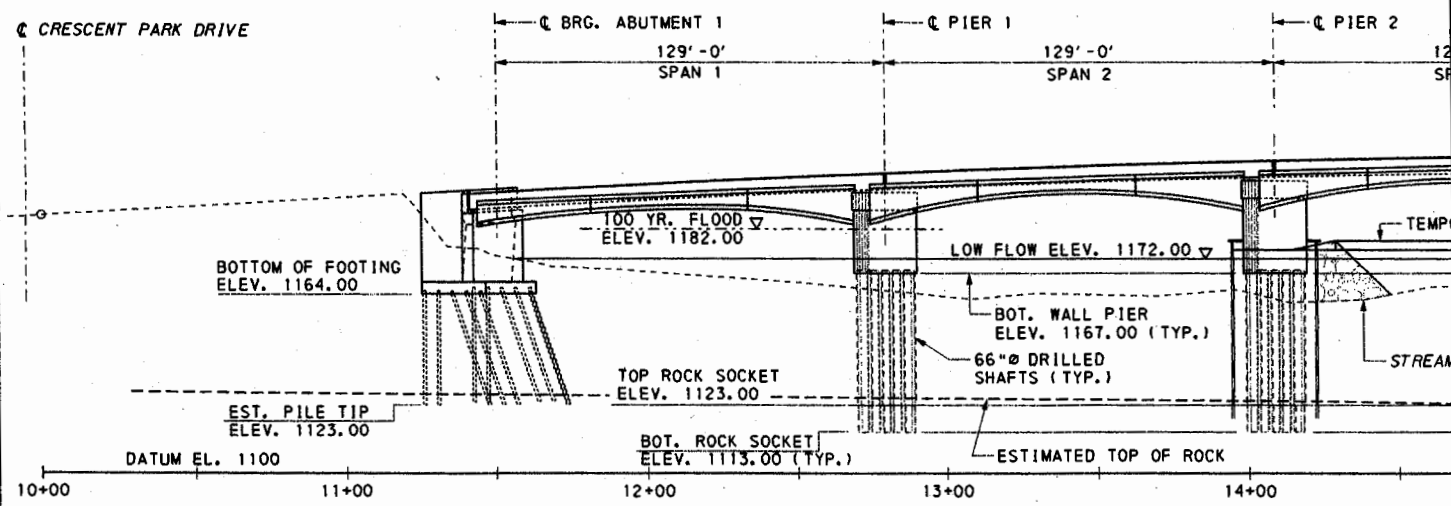


PLAN



ELEVATION VIEW

Designed By: RWB	
Checked By:	
Drawn By: EEM/CLG	
Checked By:	

DRAWING 3

200300835

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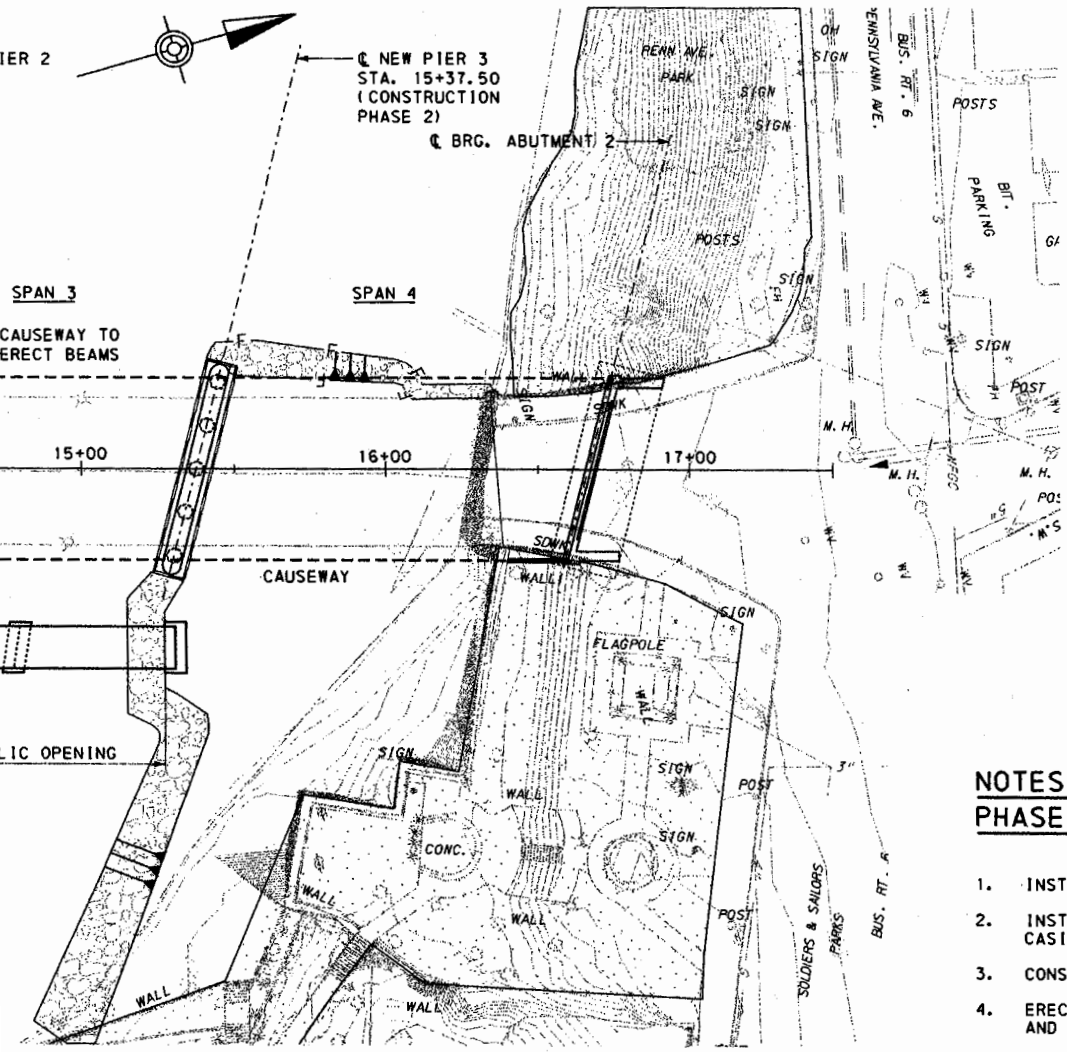
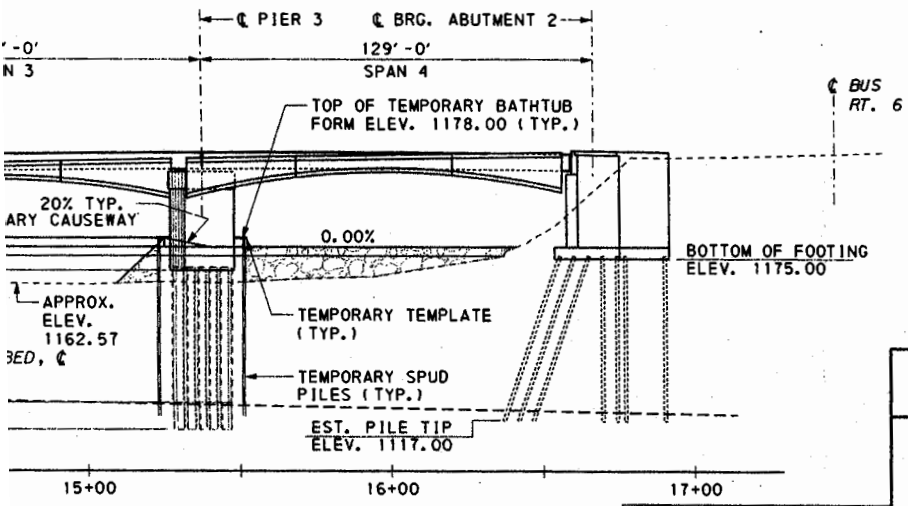


LEGEND:

- PUBLIC PARKS
- CONSTRUCTION ACCESS/ CAUSEWAY
- CONSTRUCTION ACCESS/ CAUSEWAY 1:1 SLOPE
- TEMPORARY BRIDGE WITH COFFER BOX ABUTMENTS
- AREA CONTAINED WITHIN TEMPORARY BATHTUB FORM
- PIER
- TEMPORARY SHORING

NOTES (CAUSEWAY CONSTRUCTION PHASE 2):

1. INSTALL NORTH CAUSEWAY AND TEMPORARY BRIDGE.
2. INSTALL TEMPORARY SPUD PILES, DRILLING TEMPLATE, CASINGS AND DRILLED SHAFTS FOR PIER 3.
3. CONSTRUCT REMAINING PORTION OF PIER 3.
4. ERECT P/S CONCRETE ADJACENT BOX BEAMS IN SPAN 3 AND SPAN 4.
5. ERECT ARCH PANELS IN SPAN 3 AND SPAN 4.
6. REMOVE TEMPORARY NORTH CAUSEWAY, TEMPORARY BRIDGE AND TEMPORARY ACCESS ROAD No. 2.
7. CONSTRUCT REMAINING PORTIONS OF THE BRIDGE AND APPROACH ROADWAYS.



Mark	Description	By	Chk'd.	App'd.	Date

REVISIONS

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DEPARTMENT OF TRANSPORTATION

WARREN COUNTY
S.R. 3005, SECTION B00
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HICKORY STREET BRIDGE OVER ALLEGHENY RIVER
4 SPAN P/S CONC. ADJACENT BOX BEAM BRIDGE
CAUSEWAY CONSTRUCTION PHASE 2

RECOMMENDED DRAWING 3A
200300835

SHEET ___ OF ___
S -

0 30' 60'
SCALE: 1" = 30'