



**US Army Corps
of Engineers**
Philadelphia District
Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390
ATTN: CENAP-OP-R

Public Notice

Public Notice No. CENAP-OP-R-2007-470-61	Date SEP 05 2007
Application No.	File No.

In Reply Refer to:
REGULATORY BRANCH

This District has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344).

The purpose of this notice is to solicit comments and recommendations from the public concerning issuance of a Department of the Army permit for the work described below.

APPLICANT: City of Philadelphia Water Department (PWD)

AGENT: KCI Technologies, Inc.

WATERWAY: Tacony Creek

LOCATION: The project area includes an approximately 2200-foot reach of Tacony Creek, located south of Roosevelt Boulevard (Route 1) downstream of the Whitaker Avenue bridge and upstream of the Wyoming Avenue bridge in northeastern Philadelphia (See Enclosures E-1 and E-2). The project area exists within portions of Tacony Creek Park owned by the Fairmount Park Commission, Friends Hospital Grounds owned by the Scattergood Foundation, and right-of-way bordering a former railroad crossing owned by PECO.

ACTIVITY: Restoration activities using natural stream design will be used on approximately 2200 linear feet of Tacony Creek. The proposed work is shown on the enclosed plans labeled E-2 through E-7.

Three unnamed tributaries to Tacony Creek exist within the project area (S-2, S-3, and S-4). One tributary (S-4) is approximately 75' in length and will be extended by approximately 25' to maintain connectivity with a relocated meander bend that will be shifted to protect a PWD manhole from erosion. There is a wetland located along the right descending bank of this tributary, but impacts to this wetland will be avoided. The banks of the other two tributaries (S-2 and S-3, 42' and 62' in length, respectively) will be graded to tie into the proposed new stream bank grades associated with the restoration activities. No wetlands are associated with these tributaries.

The proposed in-stream structures consist of four rock vanes, one cross vane, two boulder clusters, and two J-hook vanes and will be used to maintain channel grade, redirect stream flows away from out meander bends, and create flow diversity and scout pool development to augment aquatic habitat (see enclosures).

Other restoration measures include changes to meander planform geometry, regrading of the streambed in several locations, stone toe protection placement, and riparian plantings and seeding. Stone toe protection will be placed along meander bends within the project reach. Regraded stream banks within the restoration site will be stabilized with stone toe protection (R6 riprap) and natural fiber matting in combination with live stakes and seeding. The grading will involve approximately 4,900 cubic yards of excavation and 4,231 cubic yards of the excavated material will be placed within the floodplain and waters of the United States. The remaining excavated material will be disposed of in an upland location within the project area. The disposal site is currently an unvegetated area adjacent to the trail along the creek.

Live stakes, consisting of mainly willow and dogwood species, will be utilized along lower/steeper channel bank regions due to their adaptability to changing flow conditions and their rapid growth rates. Disturbed floodplain regions will be seeded, mulched, and planted with native tree and shrub species to enhance riparian habitat.

Two existing concrete abutments will be removed to the existing ground elevation at an abandoned railroad crossing. A section of stone wall is proposed to stabilize the stream bank near the proposed abutment removal.

Approximately 3.8 acres (165,686 square feet) of total disturbance of waters of the United States will result from the proposed activity. Approximately 0.60 acre of temporary impacts will occur during construction of the proposed restoration.

PURPOSE: The Philadelphia Water Department proposes to use natural stream design as a cost-efficient approach over structural solutions to improve stream bank geometry and to stabilize impaired sections. The project will protect existing Water Department infrastructure, provide long-term ecological stability, mitigate impacts from urban development, and improve aesthetics, and riparian and aquatic habitats.

A preliminary review of this application indicates that the proposed work would not affect listed species or their critical habitat pursuant to Section 7 of the Endangered Species Act as amended. As the evaluation of this application continues, additional information may become available which could modify this preliminary determination.

The decision whether to issue a permit will be based on an evaluation of the activity's probable impact including its cumulative impacts on the public interest. The decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the work must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the work will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs and welfare of the people. A Department of the Army permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

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 need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the proposed work should be submitted, in writing, within 15 days to the District Engineer, U.S. Army Corps of Engineers, Philadelphia District, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

Review of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located within the permit area of the work. In a letter dated November 17, 2005, the Pennsylvania Historic and Museum Commission determined that there may be historic buildings, structures, and/or archaeological resources located within the project area. However, the proposed activities should have no effect on these resources.

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act 1996 (Public Law 104-267), requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency that may adversely effect Essential Fish Habitat (EFH). A preliminary assessment of the species listed in the "Guide to Essential Fish Habitat Designations in the Northeastern United States, Volume IV: New Jersey and Delaware", dated March 1999, indicated that there is no EFH within the project area.

In accordance with Section 307(c) of the Coastal Zone Management Act of 1972, applicants for Federal Licenses or Permits to conduct an activity affecting land or water uses in a State's coastal zone must provide certification that the activity complies with the State's Coastal Zone Management Program. The applicant has stated that the proposed activity complies with and will be conducted in a manner that is consistent with the approved State Coastal Zone Management (CZM) Program. No permit will be issued until the State has concurred with the applicant's certification or has waived its right to do so. Comments concerning the impact of the proposed and/or existing activity on the State's coastal zone should be sent to this office, with a copy to the State's Office of Coastal Zone Management.

In accordance with Section 401 of the Clean Water Act, a Water Quality Certificate is necessary from the State government in which the work is located. Any comments concerning the work described above which relate to Water Quality considerations should be sent to this office with a copy to the State.

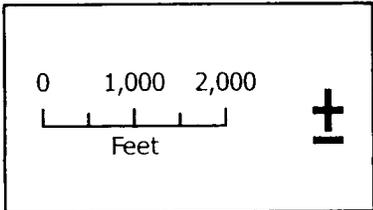
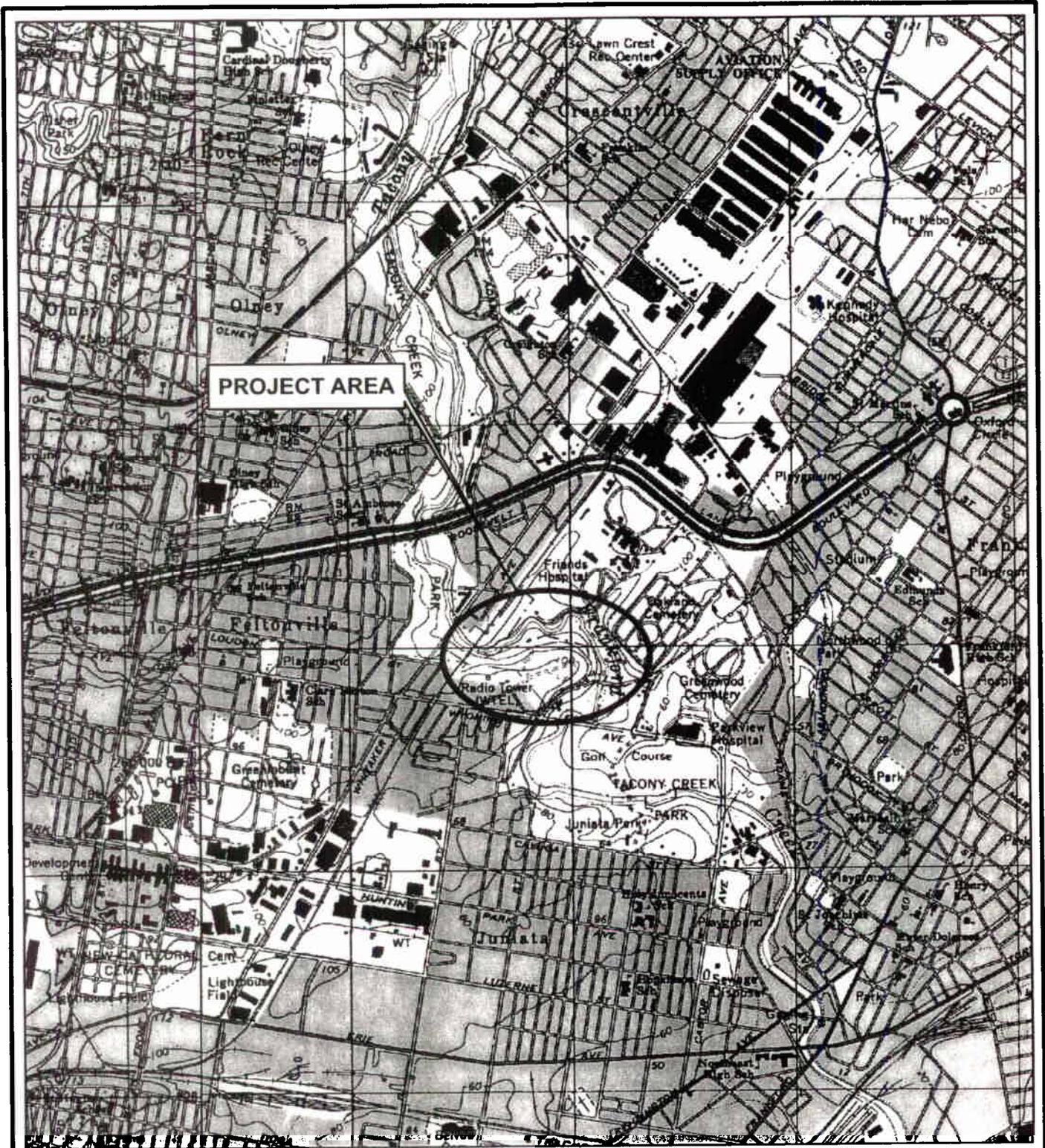
The evaluation of the impact of the work described above on the public interest will include application of the guidelines promulgated by the Administrator, U.S. Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act.

Any person may request, in writing, to the District Engineer, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state in writing, with particularity, the reasons for holding a public hearing.

Additional information concerning this permit application may be obtained by calling Brenda Schrecengost at (215) 656-5866 between the hours of 1:00 and 3:30 p.m. or writing this office at the above address.



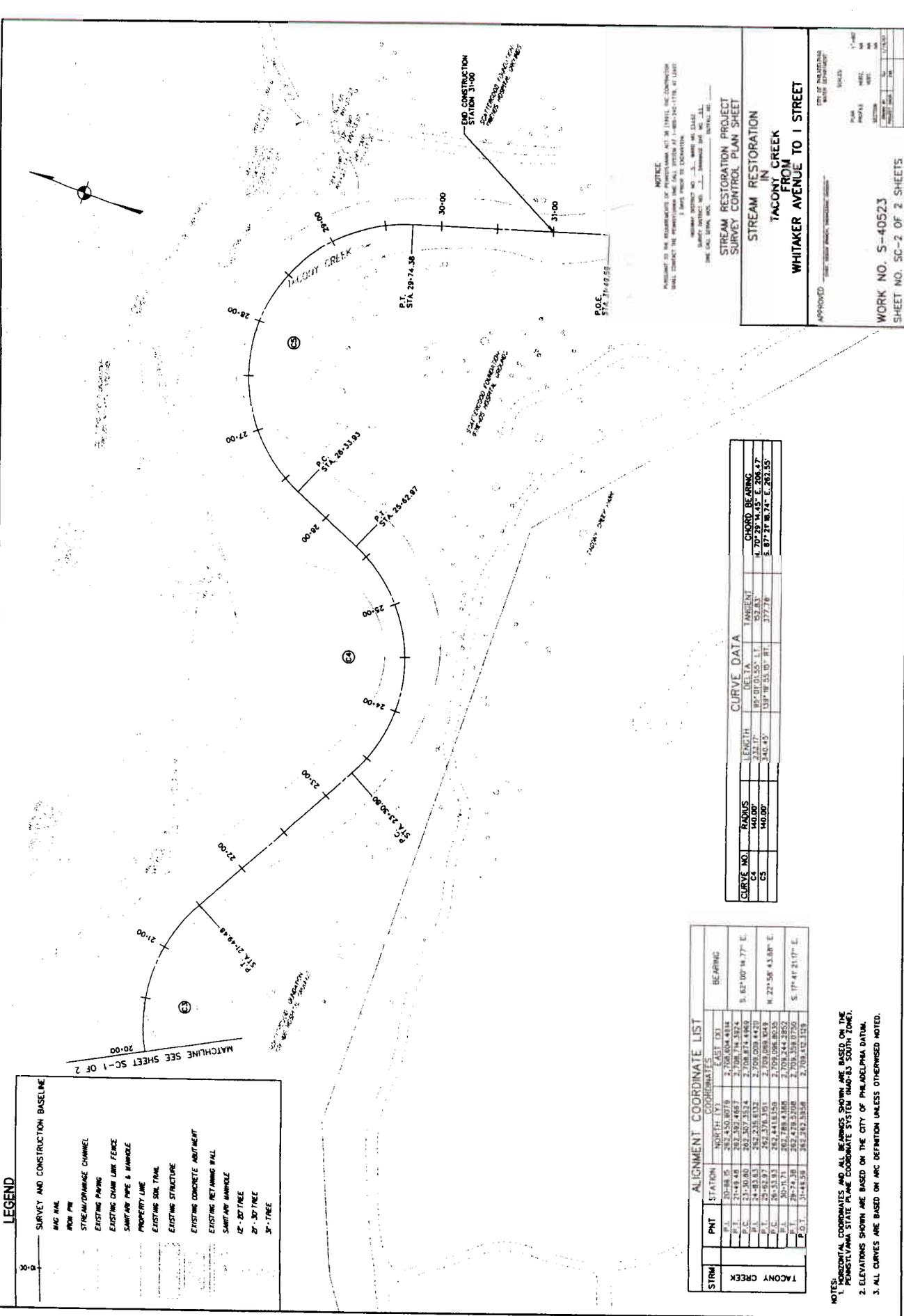
Frank J. Cianfrani
Chief, Regulatory Branch



PROJECT AREA MAP

Tacony Creek Stream Restoration Project
Philadelphia, Pennsylvania

Sources: Frankford, PA
and Germantown, PA
USGS 7.5 Minute Quadrangles



LEGEND

- SURVEY AND CONSTRUCTION BASELINE
- 400' PIV
- STREAM/DRAINAGE CHANNEL
- EXISTING PAVING
- EXISTING CHAIN LINK FENCE
- SAWYER PIPE & MANHOLE
- PROPERTY LINE
- EXISTING SOIL TRENCH
- EXISTING STRUCTURE
- EXISTING CONCRETE ABUTMENT
- EXISTING RETAINING WALL
- SAWYER MANHOLE
- 12" SOFTLINE
- 30" TREE
- 3" TREE

ALIGNMENT COORDINATE LIST

STRM	PNT	STATION	NORTH (Y)	EAST (X)	BEARING
TACONY CREEK	BL	20+00.00	2,708,004.8184	2,708,004.8184	
	PI	20+00.00	2,708,004.8184	2,708,004.8184	
	P.C.	21+30.00	2,708,257.3534	2,708,874.8462	S. 82° 00' 00" E
	P.A.	24+03.53	2,702,235.8132	2,709,008.4420	
	P.T.	25+02.27	2,702,276.1301	2,709,008.4420	
	P.C.	26+53.53	2,702,441.8159	2,709,008.4420	N. 22° 58' 43.88" E
	P.A.	30+15.71	2,702,788.4288	2,709,144.2852	
	P.T.	30+44.38	2,702,478.2328	2,709,329.0750	S. 17° 41' 31.17" E
	P.O.B.	30+44.38	2,702,478.2328	2,709,329.0750	
	P.O.I.	31+00.00	2,702,478.2328	2,709,329.0750	

CURVE DATA

CURVE NO.	RADIUS	LENGTH	DELTA	TANGENT	CHORD BEARING
C4	140.00'	232.17'	85° 07' 03.55" E	63.83'	N. 70° 20' 34.45" E, 204.47'
C5	140.00'	340.45'	131° 16' 53.10" E	377.78'	S. 87° 21' 06.74" E, 282.55'

NOTICE:
 PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 38 (1981), THE CONSTRUCTION SHALL CONTACT THE OPERATOR AND SHALL NOTIFY AT 1-800-765-1176, AT LEAST 14 DAYS PRIOR TO CONSTRUCTION.
 PROJECT NO. 5-40523
 COUNTY DISTRICT NO. 1-1
 SHEET NO. 5C-2 OF 2 SHEETS
 THE CITY OF PHILADELPHIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WATER

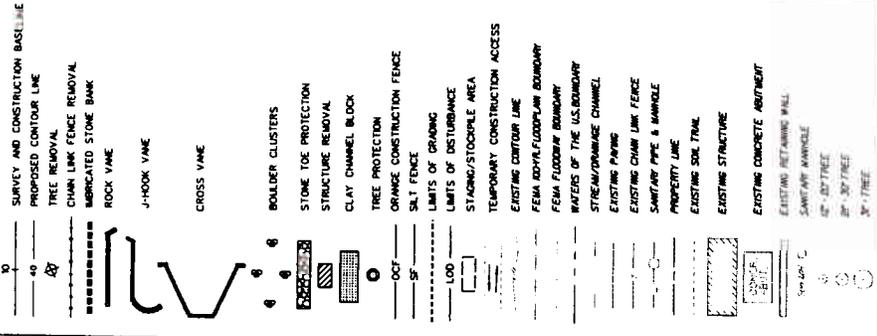
STREAM RESTORATION PROJECT SURVEY CONTROL PLAN SHEET
STREAM RESTORATION IN TACONY CREEK FROM WHITAKER AVENUE TO I STREET

APPROVED: _____
 TITLE: _____
 DATE: _____
 SCALE: _____
 PLAN: _____
 PROFILE: _____
 SECTION: _____
 SHEET NO. 5C-2 OF 2 SHEETS

- NOTES:**
- HORIZONTAL COORDINATES AND ALL BEARINGS SHOWN ARE BASED ON THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD-83 SOUTH ZONE).
 - ELEVATIONS SHOWN ARE BASED ON THE CITY OF PHILADELPHIA DATUM.
 - ALL CURVES ARE BASED ON ARC DEFINITION UNLESS OTHERWISE NOTED.

E-4

LEGEND



NOTICE
 IN ACCORDANCE WITH THE PROVISIONS OF PUBLIC LAW 86-363, THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER PRIOR TO THE COMMENCEMENT OF WORK.
 CONTRACT DISTRICT NO. 1, ROAD DIST. 23-4-2
 COUNTY DISTRICT NO. 1, ROAD DIST. 23-4-2
 ONE CALL 800.451.7000

**STREAM RESTORATION PROJECT
 GRADING PLAN SHEET**

**STREAM RESTORATION
 IN
 TACONY CREEK
 FROM
 WHITAKER AVENUE TO I STREET**

APPROVED: [Signature] DATE: [Date]
 WORK NO. S-40523
 SHEET NO. S-1 OF 25 SHEETS



NOTE:
 1. OFFSET, DISTANCE AND DIRECTION TAKEN FACING DOWNSTREAM
 L AND STATION AS SHOWN.

IMBRICATED STONE BANK SCHEDULE

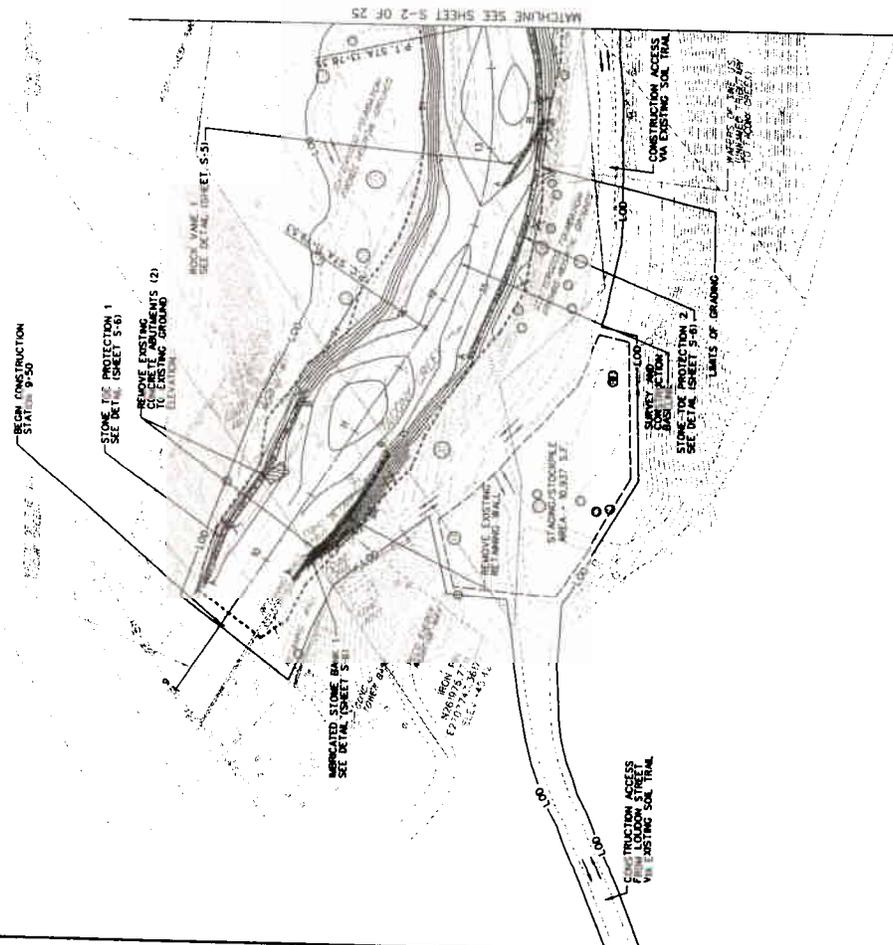
STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE
IMBRICATED STONE BANK 1	A	10+00	20.0' RT.
	B	11+00	24.0' RT.

STONE TOE PROTECTION SCHEDULE

STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
STONE TOE PROTECTION 1	A	8+97	22.0' LT.	33.0'
	B	11+00	36.0' LT.	
STONE TOE PROTECTION 2	A	11+79	32.0' RT.	
	B	14+35	26.0' RT.	

VANE SCHEDULE

STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
ROCK VANE 1	A	12+80	12.0' RT.	33.0'
	B	13+20	32.0' RT.	37.0'



MS

LEGEND

- 1" = 40'
- PROPOSED CONSTRUCTION BASELINE
- PROPOSED CONTOUR LINE
- TREE REMOVAL
- CHAIN LINK FENCE REMOVAL
- MRRICATED STONE BANK
- ROCK VANE
- J-HOOK VANE
- CROSS VANE
- BOULDER CLUSTERS
- STONE TOE PROTECTION STRUCTURE REMOVAL
- CLAY CHANNEL BLOCK
- TREE PROTECTION
- ORANGE CONSTRUCTION FENCE
- SILT FENCE
- LIMITS OF DISTURBANCE
- STAGING/STOCKPILE AREA
- TEMPORARY CONSTRUCTION ACCESS
- EXISTING OUTDOOR LINE
- FEMA FLOODPLAIN BOUNDARY
- WATERS OF THE U.S. BOUNDARY
- STYRENE/DRAINAGE CHANNEL
- EXISTING PAVING
- EXISTING CHAIN LINK FENCE
- SMARTWAY PIPE & MANHOLE
- PROPERTY LINE
- EXISTING SOIL TRAIL
- EXISTING STRUCTURE
- EXISTING CONCRETE ABUTMENT
- EXISTING RETAINING WALL
- SMARTWAY MANHOLE
- 12" - 30" TREE
- 3" - 1" TREE

NOTICE
 PURSUANT TO THE REQUIREMENTS OF PENNSYLVANIA ACT 38 (1981), THE CONTRACTOR SHALL CONTACT THE PENNSYLVANIA GAME COMMISSION AT 1-800-394-1776, AT LEAST 14 DAYS BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 SURVEY INSTRUMENT NO. 7 APPROVED SEP. 18, 2013
 ONE CALL SERIAL NO. _____ UTILITY NO. _____

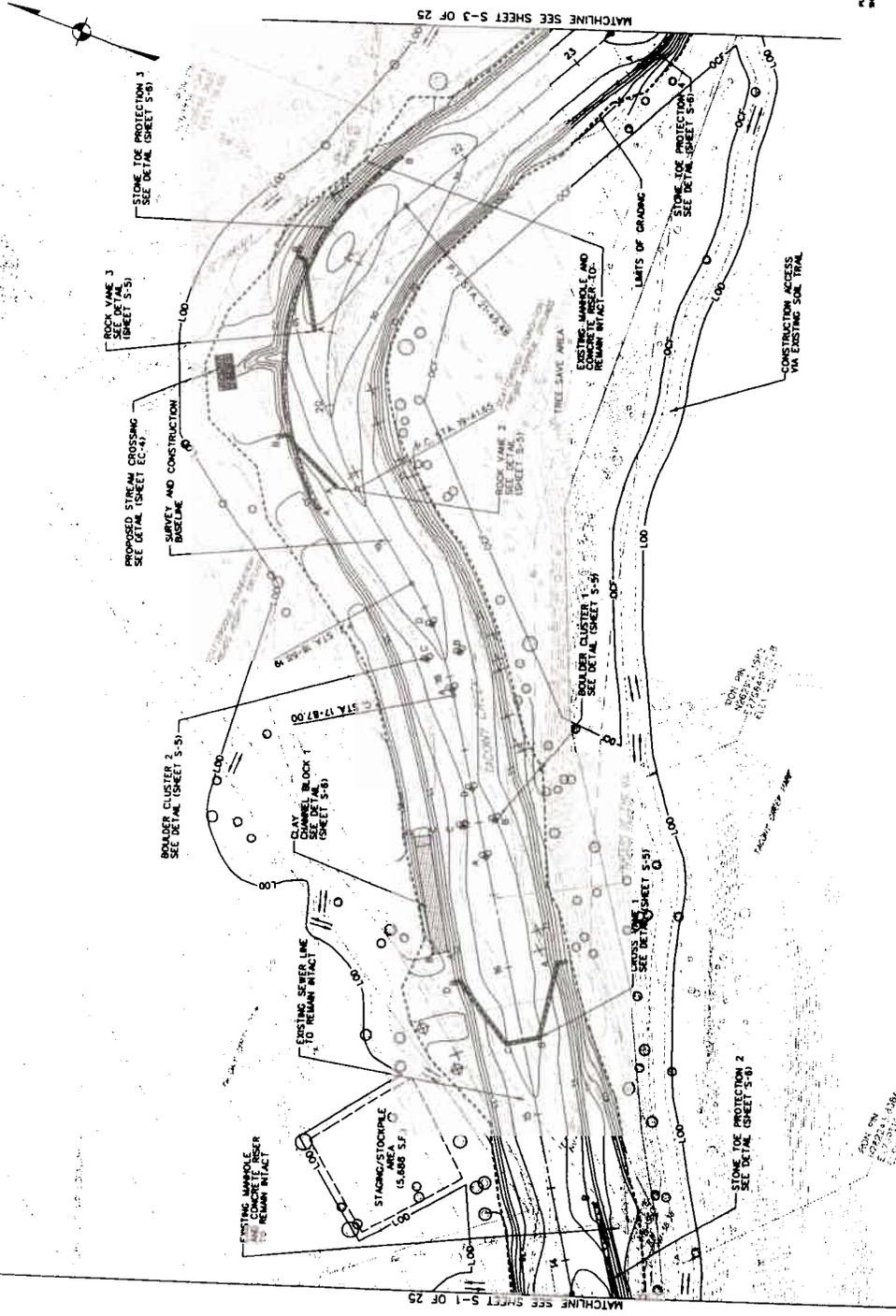
STREAM RESTORATION PROJECT GRADING PLAN SHEET

STREAM RESTORATION IN TACONY CREEK FROM WHITAKER AVENUE TO I STREET

APPROVED _____
 CITY OF PHILADELPHIA
 WATER DEPARTMENT

SCALE: 1" = 40'
 PLAN PROFILE
 HORIZ. VERT.
 SECTION CORR.
 SHEET NO. 5-2 OF 25 SHEETS

WORK NO. S-40523
 SHEET NO. S-2 OF 25 SHEETS



STONE TOE PROTECTION SCHEDULE

STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
STONE TOE PROTECTION 3	A	19+42	27.0' LT.	28.0' LT.
	B	21+71	28.0' LT.	28.0' RT.
STONE TOE PROTECTION 4	A	23+30	28.0' RT.	28.0' RT.
	B	25+83	28.0' RT.	28.0' RT.

CLAY CHANNEL BLOCK SCHEDULE

STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
CLAY CHANNEL BLOCK 1	A	19+18	48.0' LT.	37.0' LT.
	B	19+18	48.0' LT.	37.0' LT.
CLAY CHANNEL BLOCK 2	A	19+18	44.0' LT.	37.0' LT.
	B	19+18	44.0' LT.	37.0' LT.

BOULDER CLUSTER SCHEDULE

STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
BOULDER CLUSTER 1	A	19+78	11.0' RT.	34.5'
	B	17+00	11.0' RT.	34.5'
	C	17+24	11.0' RT.	34.5'
	D	17+24	11.0' RT.	34.5'
BOULDER CLUSTER 2	A	17+91	11.0' RT.	34.0'
	B	19+14	11.0' LT.	34.0'
	C	19+15	11.0' LT.	34.0'
	D	19+38	11.0' LT.	34.0'

VANE SCHEDULE

STRUCTURE	POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
CROSS VANE 1	A	19+37	32.0' RT.	37.0'
	B	19+50	11.0' RT.	33.0'
	C	19+50	11.0' LT.	33.0'
	D	19+97	32.0' LT.	37.0'
ROCK VANE 2	A	19+50	12.0' LT.	31.0'
	B	19+88	32.0' LT.	35.0'
ROCK VANE 3	A	20+50	12.0' LT.	28.0'
	B	20+88	32.0' LT.	33.0'

NOTE:
 L: OFFSET, DISTANCE AND DIRECTION TAKEN FACING DOWNSTREAM AND STATION AHEAD.

LEGEND

- SURVEY AND CONSTRUCTION BASELINE
- PROPOSED CONTOUR LINE
- TREE REMOVAL
- CHAIN LINK FENCE REMOVAL
- IMBRICATED STONE BANK
- ROCK VANE
- J-HOOK VANE
- CROSS VANE
- BOULDER CLUSTERS
- STONE TOE PROTECTION
- STRUCTURE REMOVAL
- CLAY CHANNEL BLOCK
- TREE PROTECTION
- ORANGE CONSTRUCTION FENCE
- S&T FENCE
- LIMITS OF GRADING
- STAGING/STOCKPILE AREA
- TEMPORARY CONSTRUCTION ACCESS
- EXISTING CONTOUR LINE
- FEMA 500R FLOODPLAIN BOUNDARY
- FEMA FLOODPLAIN BOUNDARY
- WATERS OF THE U.S. BOUNDARY
- STREAM/DRAINAGE CHANNEL
- EXISTING PAVING
- EXISTING CHAIN LINK FENCE
- SANITARY PIPE & MANHOLE
- PROPERTY LINE
- EXISTING SOIL TRAIL
- EXISTING STRUCTURE
- EXISTING CONCRETE ABUTMENT
- EXISTING RETAINING WALL
- EXISTING MANHOLE
- 12" - 24" TREE
- 18" - 30" TREE
- 36" TREE

NOTICE

PERMITTEE IS THE RESPONSIBLE PARTY FOR OBTAINING ALL NECESSARY PERMITS AND SHALL VERIFY THE ACCURACY OF THE DATA AND INFORMATION PROVIDED TO THE ENGINEER.

DATE: 08/11/2011

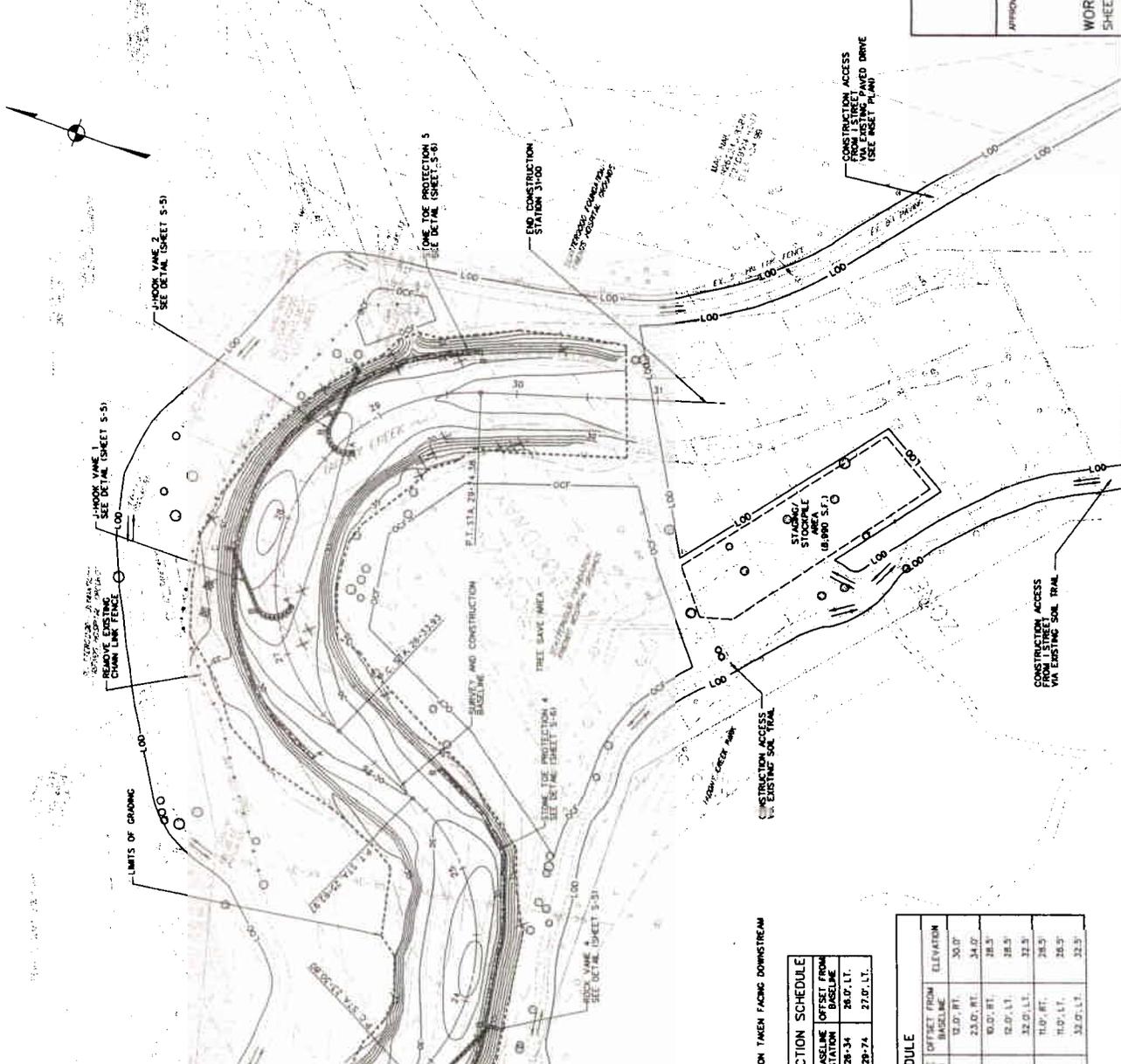
PROJECT: STREAM RESTORATION PROJECT

LOCATION: TACONY CREEK FROM WHITAKER AVENUE TO I STREET

SCALE: AS SHOWN

APPROVED: [Signature]

WORK NO. S-40523
SHEET NO. S-3 OF 25 SHEETS



STONE TOE PROTECTION SCHEDULE

STRUCTURE POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
STONE TOE PROTECTION 5	A	28+34	28.0' LT.
	B	28+74	27.0' LT.

VANE SCHEDULE

STRUCTURE POINT	BASELINE STATION	OFFSET FROM BASELINE	ELEVATION
ROCK VANE 4	A	23+50	32.0' RT.
	B	23+88	33.0' RT.
J-HOOK VANE 1	A	27+35	30.0' RT.
	B	27+34	32.0' LT.
	C	27+72	32.0' LT.
J-HOOK VANE 2	A	28+68	31.0' RT.
	B	28+85	31.0' LT.
	C	28+83	32.0' LT.

NOTE: L = OFFSET DISTANCE AND DIRECTION TAKEN FACING DOWNSTREAM AND STATION MEAS.

MATCHLINE SEE SHEET S-2 OF 25

E-7