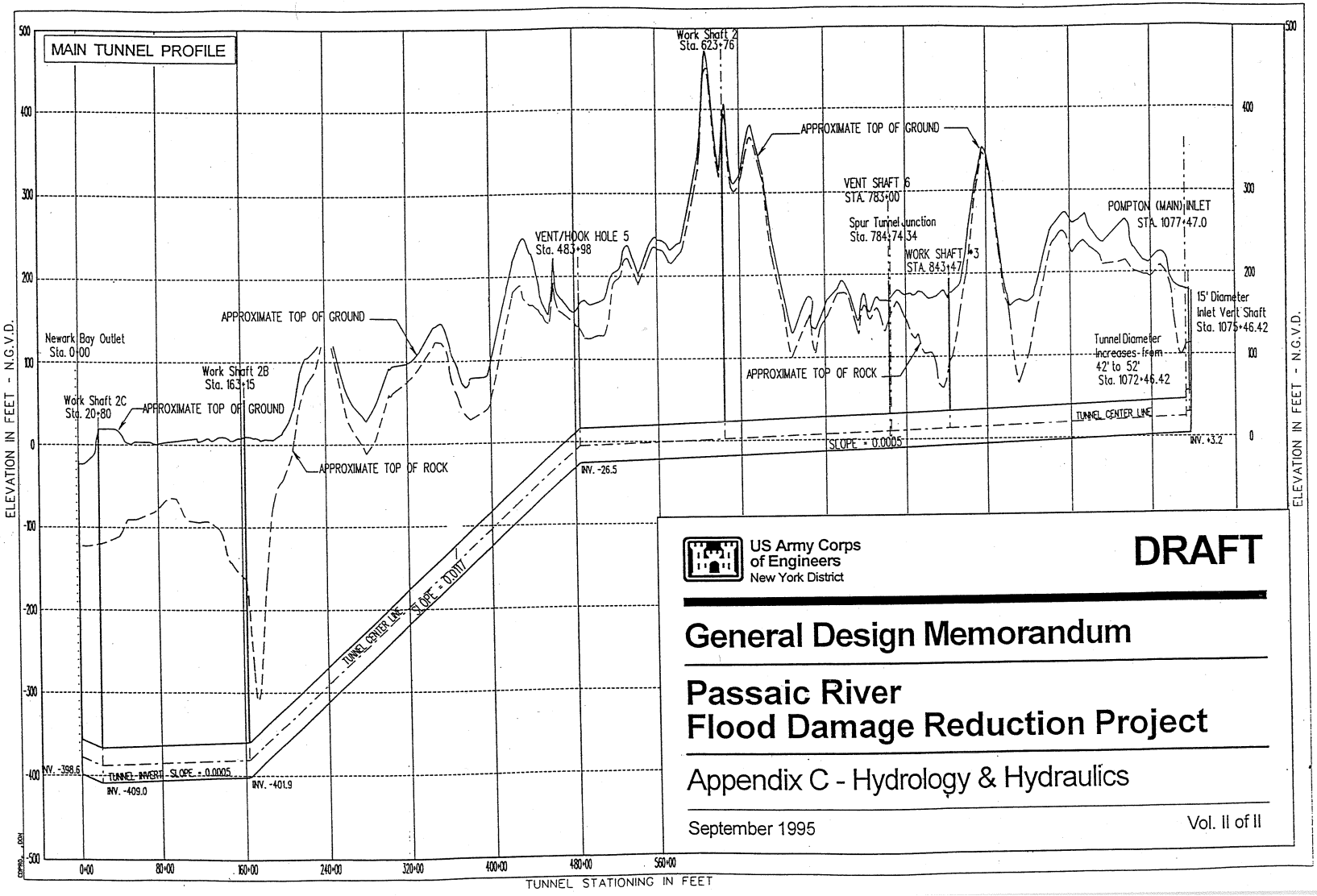


US Army Corps of Engineers
New York District

DRAFT

General Design Memorandum

Passaic River Flood Damage Reduction Project

Appendix C - Hydrology & Hydraulics

September 1995

Vol. II of II

US Army Corps
of Engineers
New York District

DRAFT

General Design Memorandum

Passaic River
Flood Damage Reduction Project

Appendix C - Hydrology & Hydraulics

September 1995

Vol. II of II

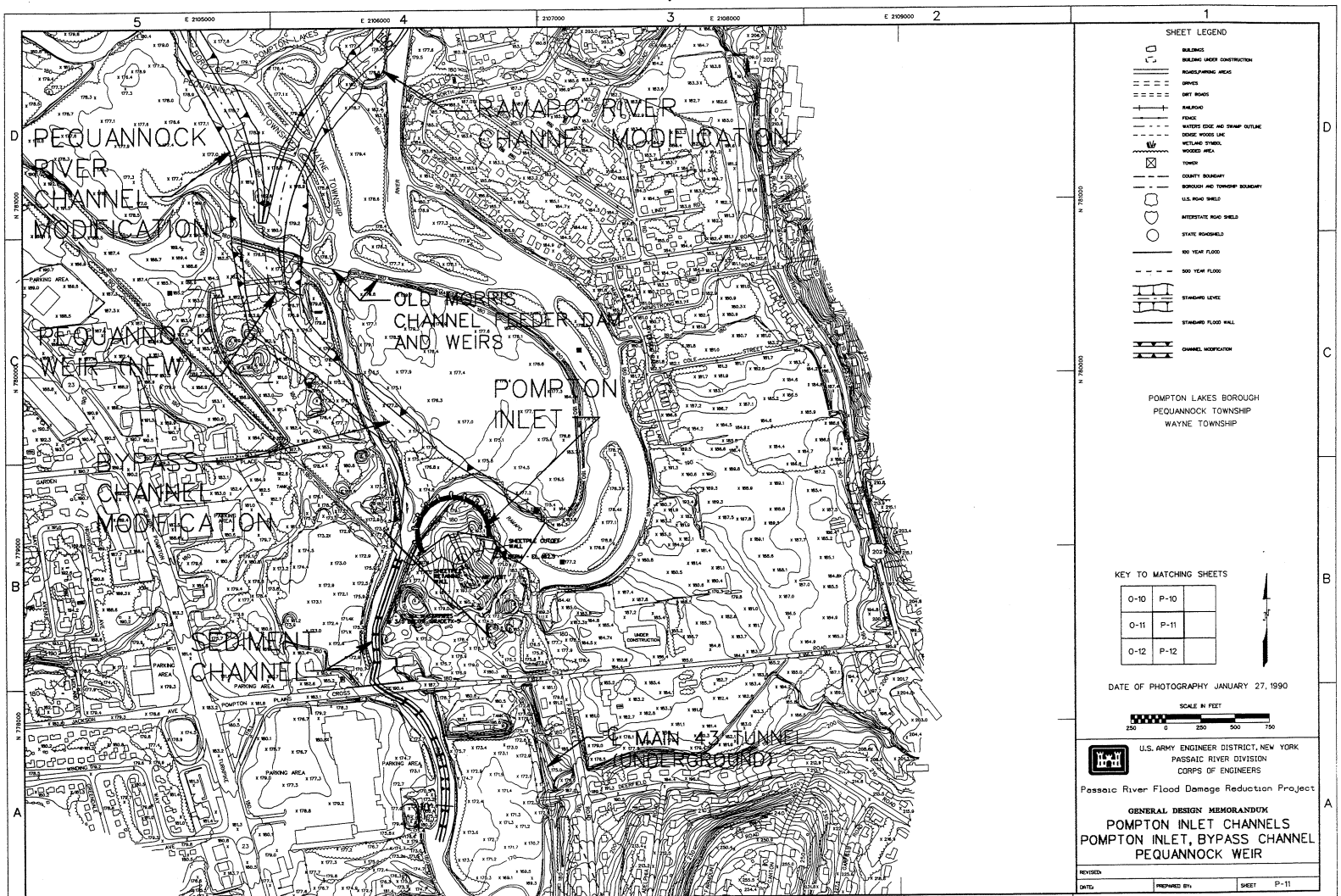
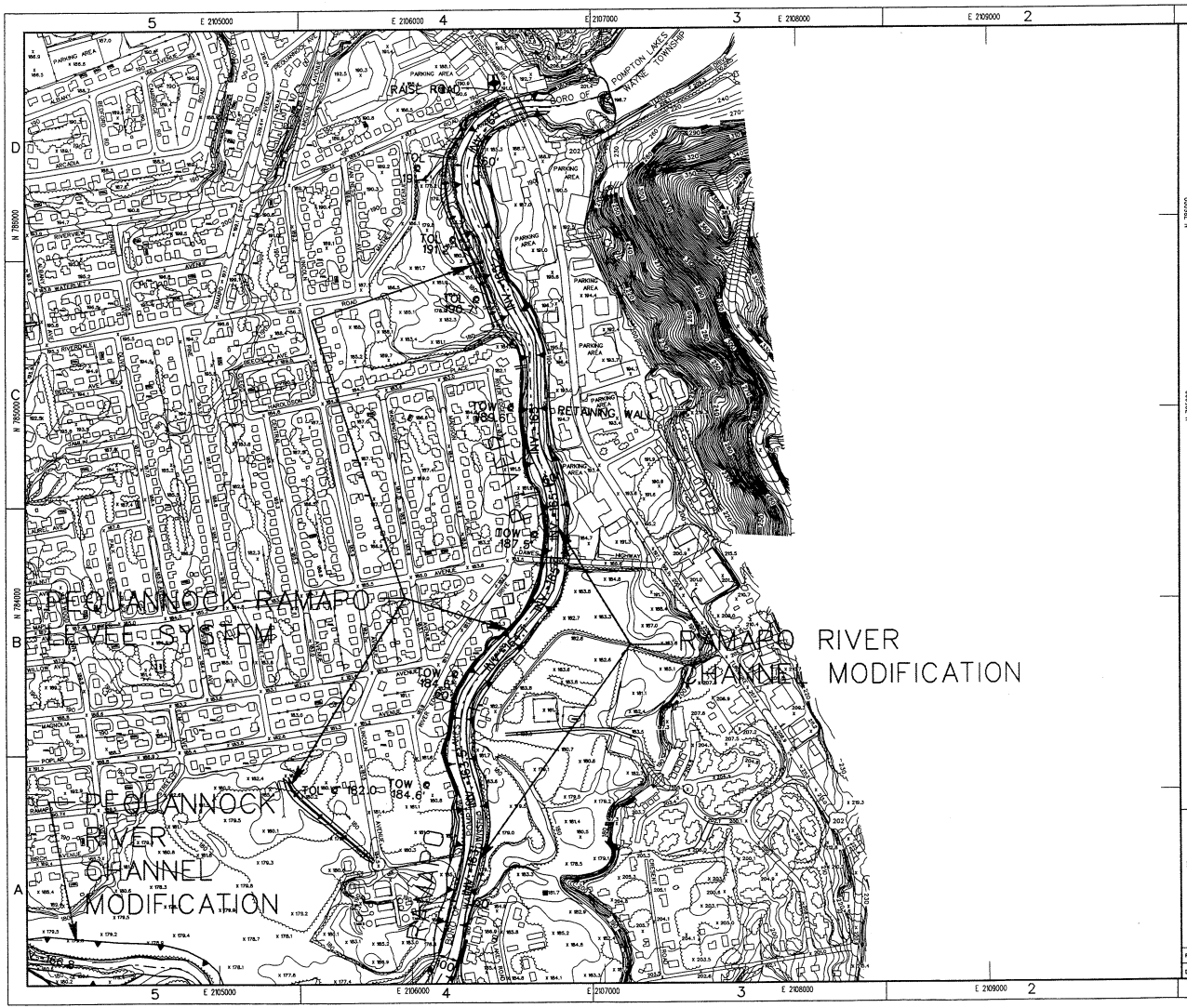

PEQUANNOCK RIVER CHANNEL MODIFICATION
RAMAPO RIVER CHANNEL MODIFICATION
OLD MORRIS CHANNEL FEEDER DAM AND WEIRS
PEQUANNOCK WEIR (NEW)
POMPTON INLET
BYPASS CHANNEL MODIFICATION
SEDIMENT CHANNEL
MAIN 43" TUNNEL (UNDERGROUND)
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD
500 YEAR FLOOD
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
POMPTON LAKES BOROUGH
PEQUANNOCK TOWNSHIP
WAYNE TOWNSHIP
KEY TO MATCHING SHEETS
O-10
P-10
O-11
P-11
O-12
P-12
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
250 0 250 500 750
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
POMPTON INLET CHANNELS
POMPTON INLET, BYPASS CHANNEL
PEQUANNOCK WEIR
REVISED
DATED
PREPARED BY:
SHEET P-11

Figure C-90a


PEQUANNOCK-RAMAPO LEVEE SYSTEM
RAMAPO RIVER CHANNEL MODIFICATION
PEQUANNOCK RIVER CHANNEL MODIFICATION
RAISE ROAD
RETAINING WALL
TOW @ 485.6'
TOL @ 182.0
TOW @ 484.6'
TOW @ 487.5'
TOW @ 485.6'
TOL @ 197.0
TOL @ 197.0
TOL @ 198.0
TOL @ 198.0
TOW @ 485.6'
TOW @ 484.6'
TOW @ 485.6'
TOW @ 485.6'
TOW @ 485

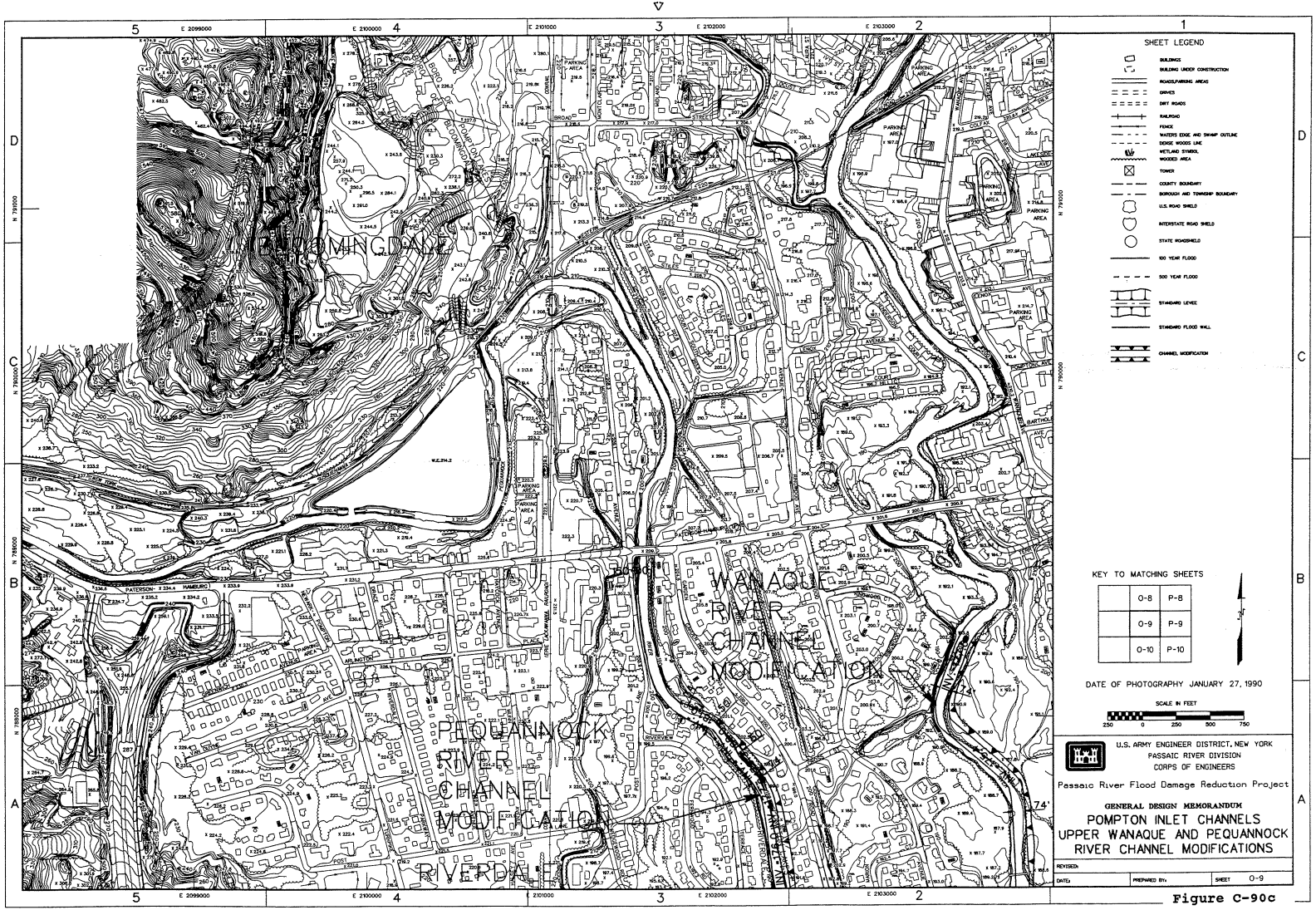

WANAQUE RIVER CHANNEL MODIFICATION
PEQUANNOCK RIVER CHANNEL MODIFICATION
RIVERDALE
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
GRAVEL
DIRT ROADS
RAILROAD
FENCE
WATER'S EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD
500 YEAR FLOOD
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
KEY TO MATCHING SHEETS
O-8
P-8
O-9
P-9
O-10
P-10
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
250 0 250 500 750
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
POMPTON INLET CHANNELS
UPPER WANAQUE AND PEQUANNOCK
RIVER CHANNEL MODIFICATIONS
REVISED
DATE
PREPARED BY
SHEET O-9

Figure C-90c

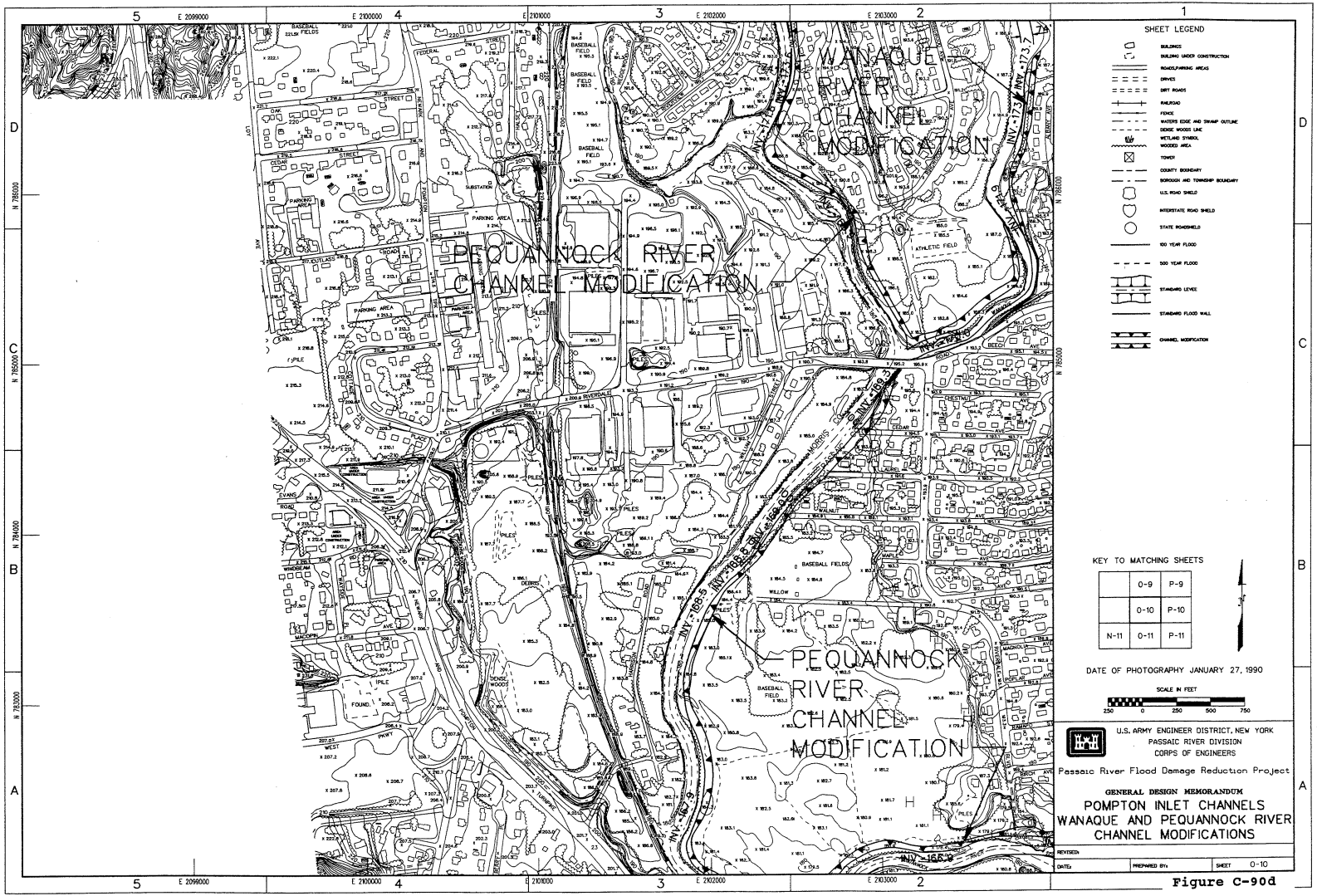
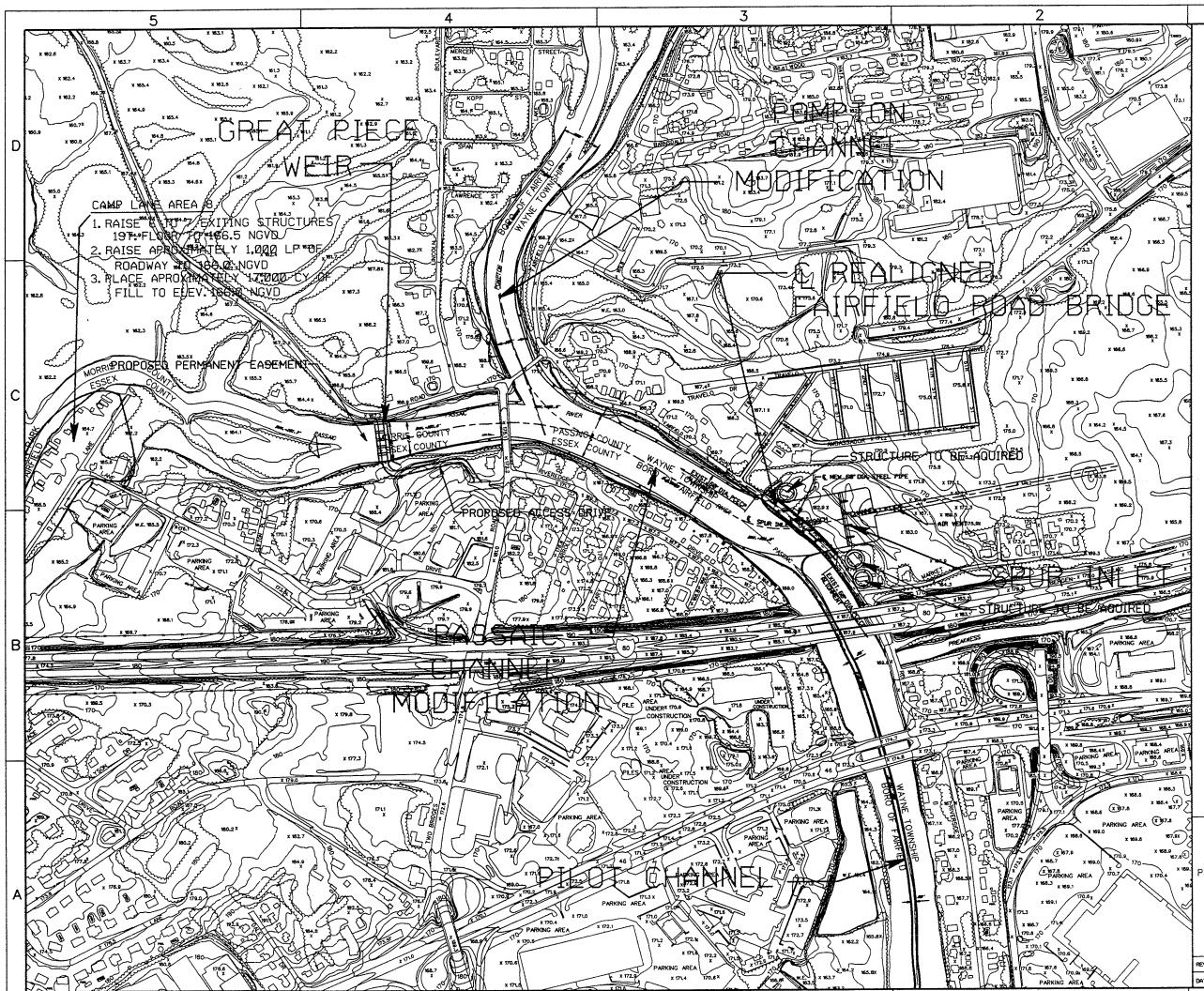

WANAQUE RIVER CHANNEL MODIFICATION
PEQUANNOCK RIVER CHANNEL MODIFICATION
PEQUANNOCK RIVER CHANNEL MODIFICATION
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DECIDUOUS WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD
500 YEAR FLOOD
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
KEY TO MATCHING SHEETS
0-9
P-9
0-10
P-10
N-11
0-11
P-11
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
POMPTON INLET CHANNELS
WANAQUE AND PEQUANNOCK RIVER
CHANNEL MODIFICATIONS
REVISED
DATE
PREPARED BY
SHEET 0-10

Figure C-90d


PEQUANNOCK RIVER
CHANNEL MODIFICATION
PEQUANNOCK RIVER
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD
500 YEAR FLOOD
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
POMPTON LAKES
PEQUANNOCK TOWNSHIP
KEY TO MATCHING SHEETS
O-10
P-10
N-11
O-11
P-11
N-12
O-12
P-12
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
250
0
250
500
750
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
POMPTON INLET CHANNELS
PEQUANNOCK RIVER
CHANNEL MODIFICATIONS
REVISED
DATED
PREPARED BY
SHEET
O-11

Figure C-90e



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD
- 500 YEAR FLOOD
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION

KEY TO MATCHING SHEETS

O-15	P-15	Q-15
O-16	P-16	Q-16
O-17	P-17	Q-17

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

250 0 250 500 750

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

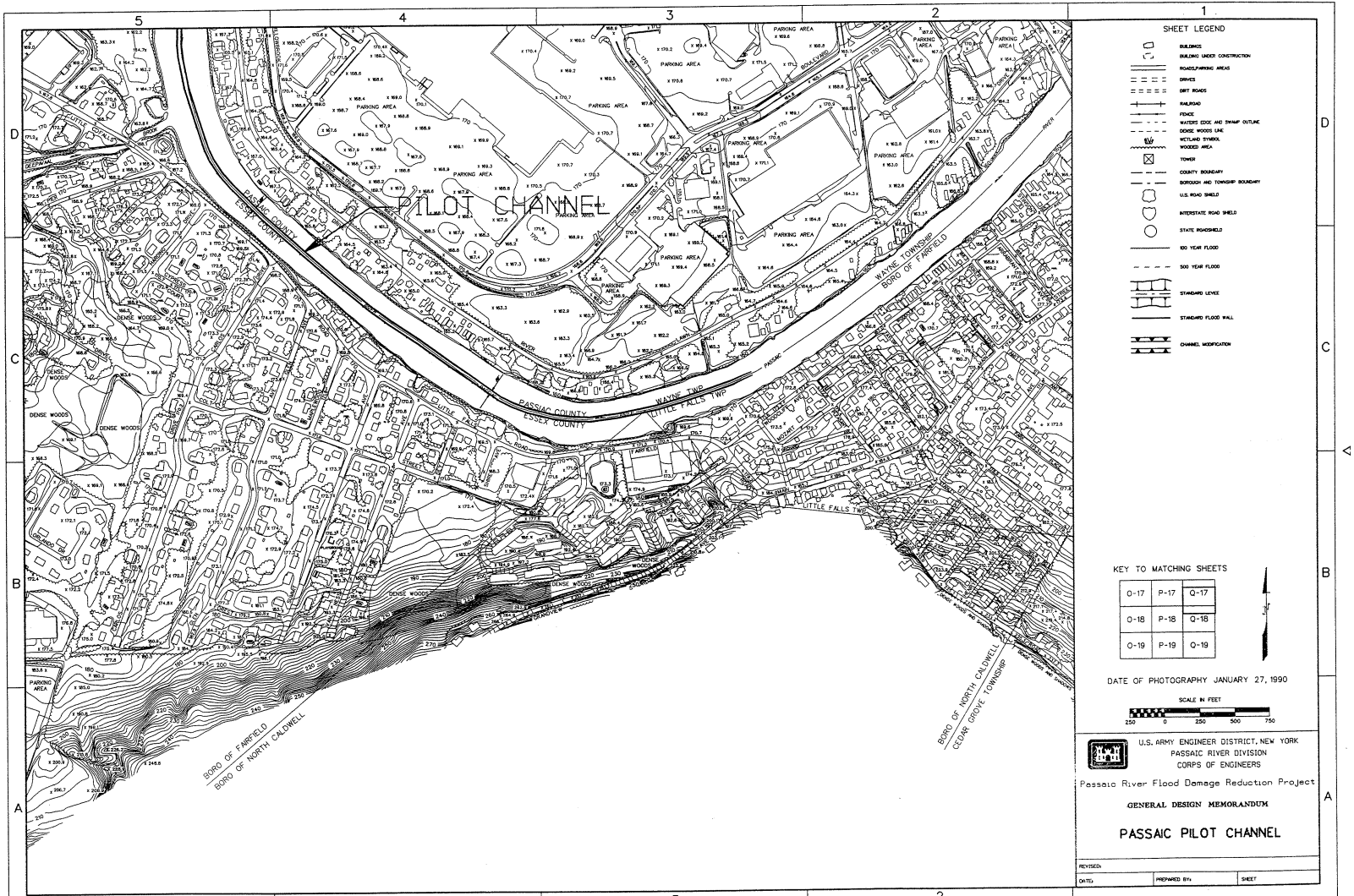
GENERAL DESIGN MEMORANDUM

SPUR INLET
POMPTON AND PASSAIC CHANNEL
GREAT PIECE WEIR

REVISED		
DATE	PREPARED BY	SHEET

Figure C-90f

FILE: spurlet12.dgn



FILE: spur2of2.dgn

Figure C-90g

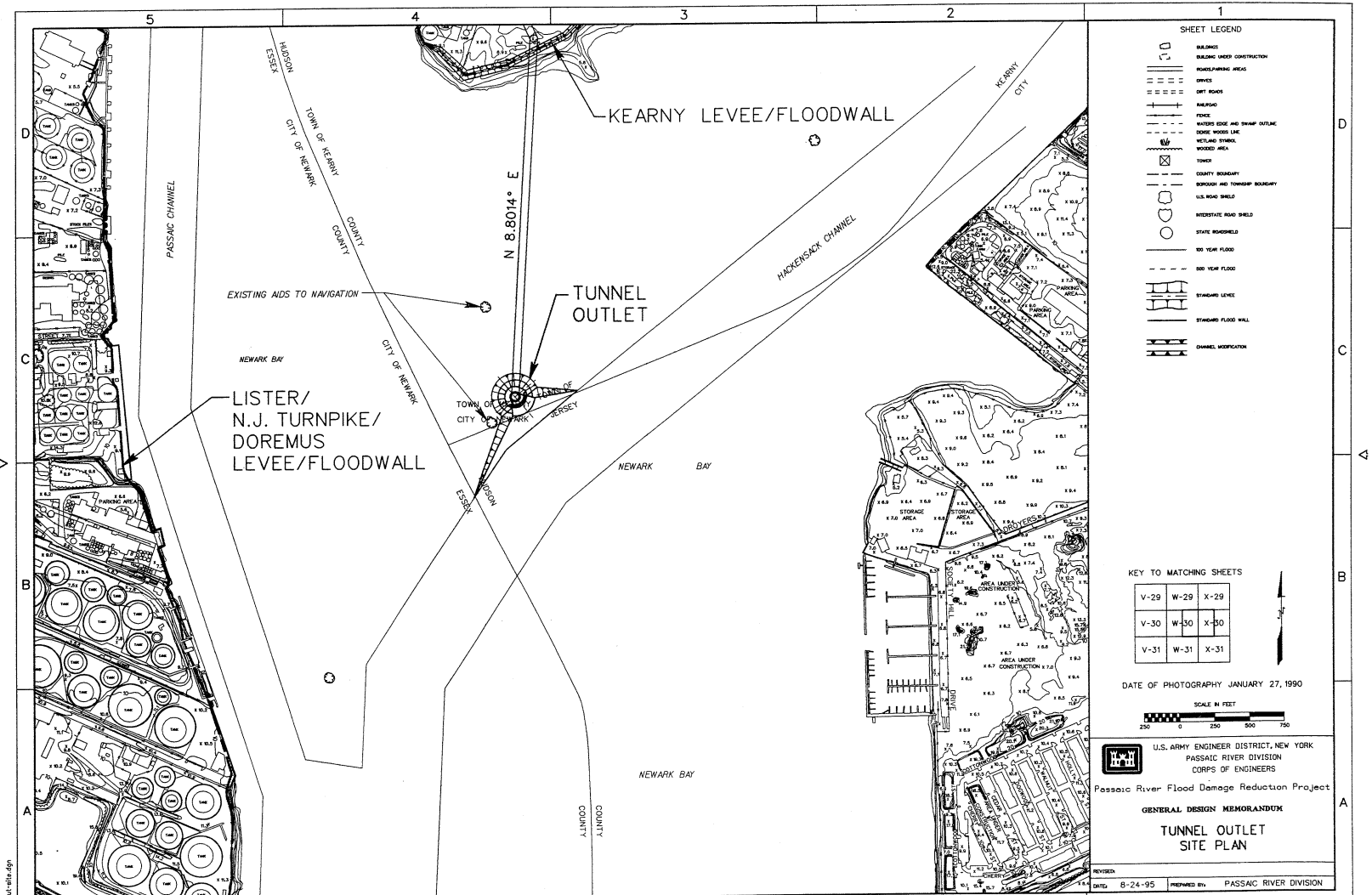

KEARNY LEVEE/FLOODWALL
N 8.8014° E
TUNNEL OUTLET
EXISTING AIDS TO NAVIGATION
LISTER/
N.J. TURNPIKE/
DOREMUS
LEVEE/FLOODWALL
PASSAIC CHANNEL
HACKENSACK CHANNEL
NEWARK BAY
NEWARK BAY
NEWARK BAY
HUDSON
ESSEX
TOWN OF KEARNY
CITY OF NEWARK
COUNTY
COUNTY
CITY OF NEWARK
KEARNY
CITY
TOWN OF
CITY OF NEWARK
STATE OF
NEW
JERSEY
HUDSON
ESSEX
COUNTY
COUNTY
STORAGE AREA
STORAGE AREA
LAUNDRY
SCHOOL
HILL
DRIVE
AREA UNDER CONSTRUCTION
AREA UNDER CONSTRUCTION
PARKING AREA
PARKING AREA
PARKING AREA
CHERRY
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD
500 YEAR FLOOD
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
KEY TO MATCHING SHEETS
V-29 W-29 X-29
V-30 W-30 X-30
V-31 W-31 X-31
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
250 0 250 500 750
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
TUNNEL OUTLET
SITE PLAN
REVISED:
DATED: 8-24-95
PREPARED BY: PASSAIC RIVER DIVISION
FILE: out-site.dgn

Figure C-90h

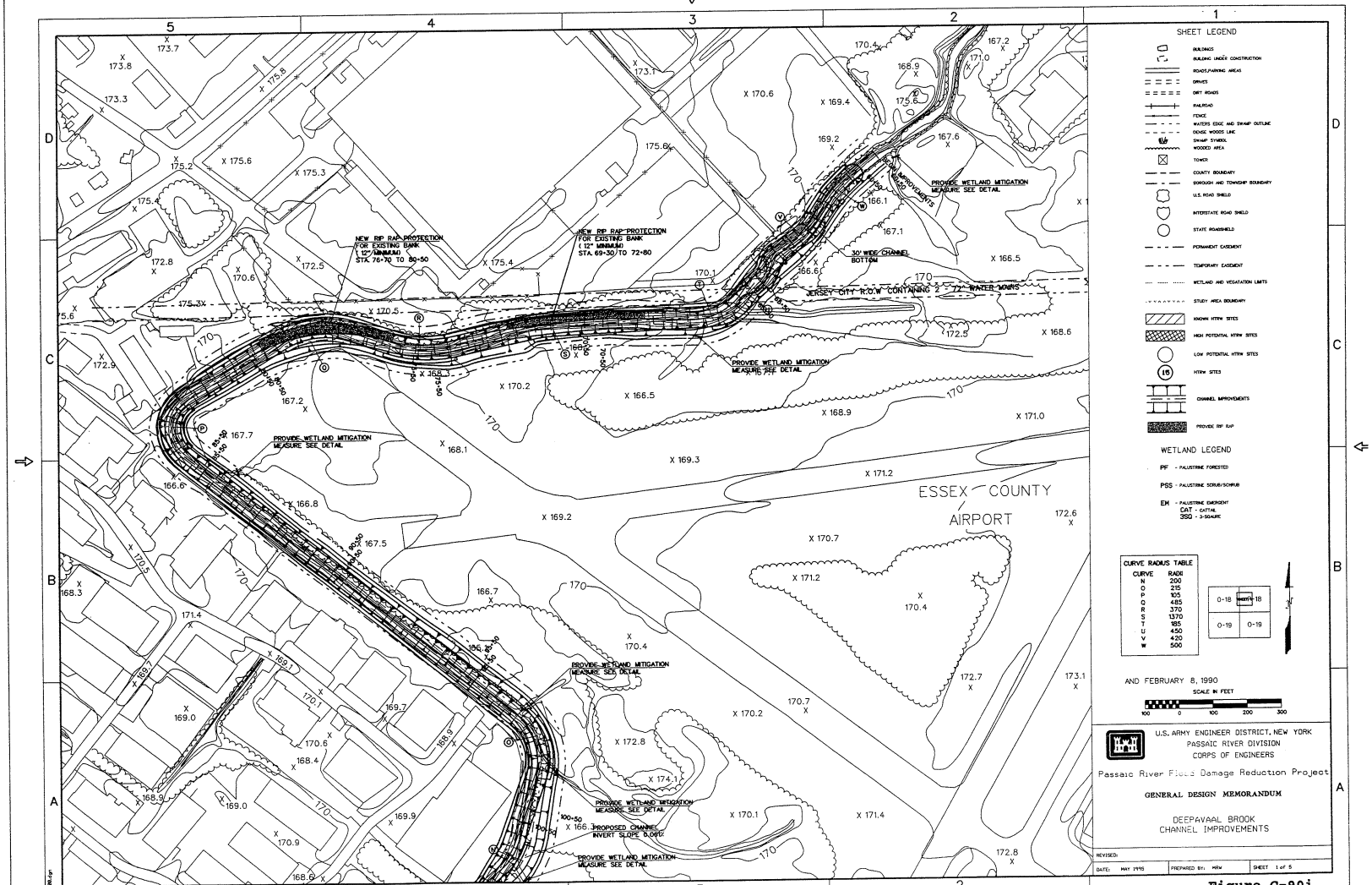

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
EDGE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROAD/SHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
16 HTRW SITES
CHANNEL IMPROVEMENTS
PROVIDE RIP RAP
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
SSQ - 3-SQUARE
CURVE RADIUS TABLE
CURVE RADII
N 200
O 215
P 105
Q 485
R 370
S 1370
T 185
U 450
V 420
W 500
0-18
INSERT 0-18
0-19
0-19
AND FEBRUARY 8, 1990
SCALE IN FEET
100 0 100 200 300
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
DEEPAVAAL BROOK
CHANNEL IMPROVEMENTS
REVISED:
DATE: MAY 1995
PREPARED BY: MRW
SHEET 1 of 5
NEW RIP RAP PROTECTION FOR EXISTING BANK (12" MINIMUM) STA. 76+70 TO 80+50
NEW RIP RAP PROTECTION FOR EXISTING BANK (12" MINIMUM) STA. 69+30 TO 72+60
PROVIDE WETLAND MITIGATION MEASURE SEE DETAIL
30' WIDE CHANNEL BOTTOM
JERSEY CITY R.O.W. CONTAINING 2 72" WATER MAINS
ESSEX COUNTY AIRPORT
PROPOSED CHANNEL INVERT SLOPE 0.00%
ROW

Figure C-90i

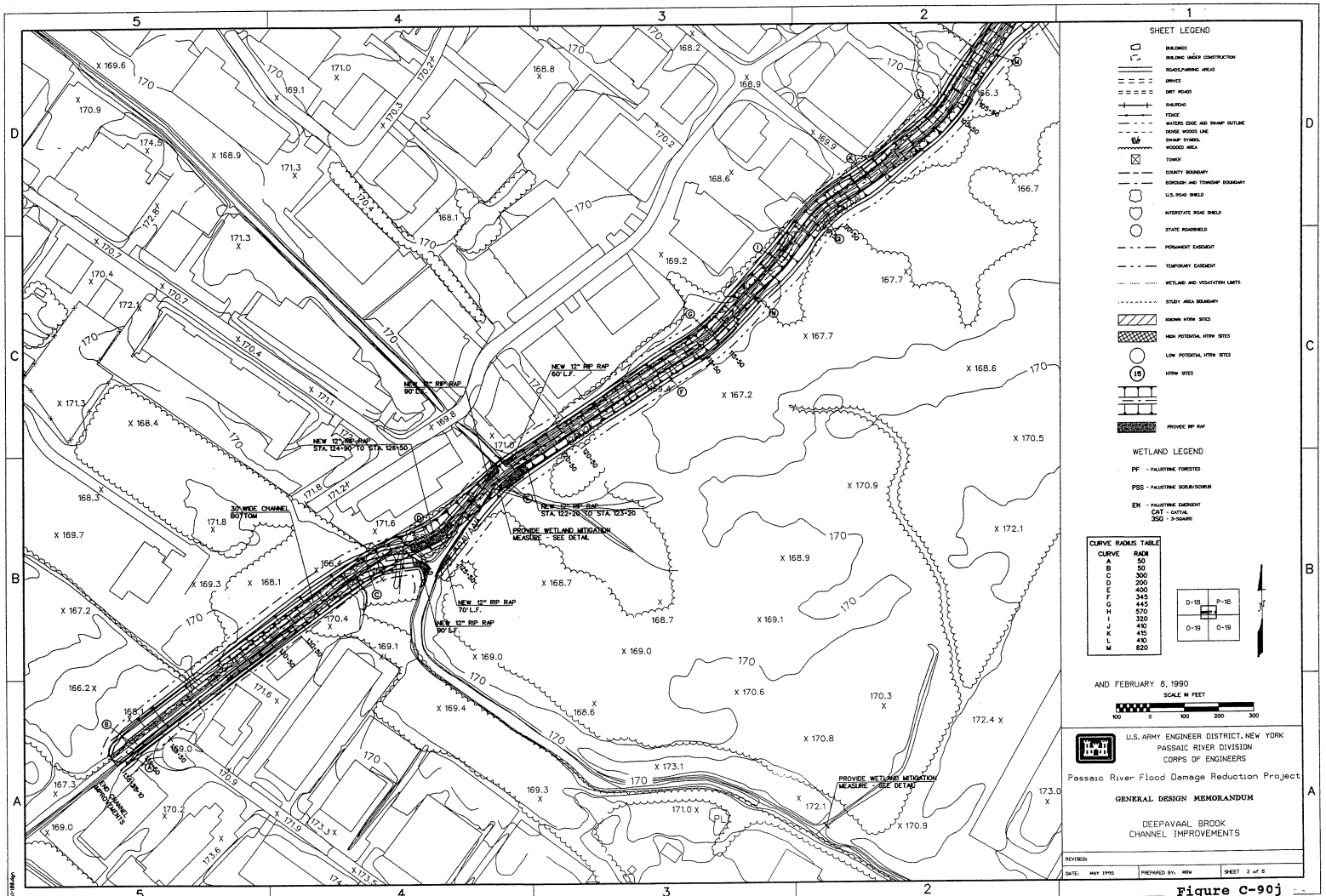

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS,PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGATATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
PROVIDE RIP RAP
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
3SQ - 3-SQUARE
CURVE RADIUS TABLE
CURVE RADII
A 50
B 50
C 300
D 200
E 400
F 345
G 445
H 570
I 320
J 410
K 455
L 410
M 820
O-18
P-18
O-19
P-19
AND FEBRUARY 8, 1990
SCALE IN FEET
100 0 100 200 300
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
DEEPAVAAL BROOK
CHANNEL IMPROVEMENTS
REVISED:
DATE: MAY 1995
PREPARED BY: MEN
SHEET 2 of 6
NEW 12" RIP RAP 60' L.F.
NEW 12" RIP RAP 90' L.F.
NEW 12" RIP RAP STA. 124+90 TO STA. 126+50
NEW 12" RIP RAP STA. 122+20 TO STA. 123+20
30' WIDE CHANNEL BOTTOM
PROVIDE WETLAND MITIGATION MEASURE - SEE DETAIL
NEW 12" RIP RAP 70' L.F.
NEW 12" RIP RAP 80' L.F.
PROVIDE WETLAND MITIGATION MEASURE - SEE DETAIL
DEEPAVAAL BROOK CHANNEL IMPROVEMENTS

Figure C-90j

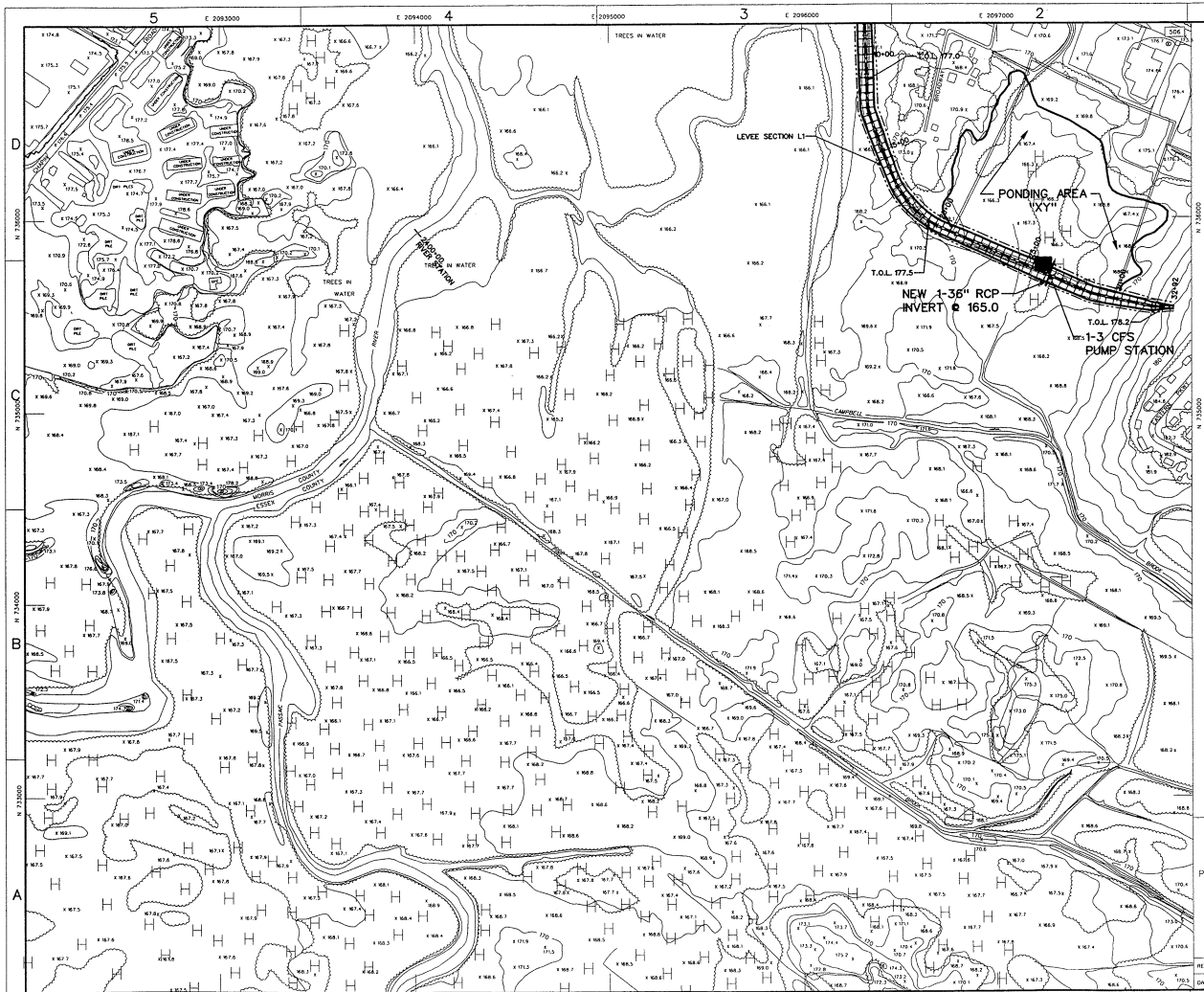

LEVEE SECTION L1
PONDING AREA
11 AC-FT
T.O.L. 177.5
NEW 1-36" RCP
INVERT @ 165.0
T.O.L. 178.2
1-3 CFS
PUMP STATION
TREES IN WATER
PASSAIC
RIVER
MORRIS
COUNTY
ESSEX
COUNTY
CAMPBELL
BROOK
PASSAIC
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
15 HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
3SQ - 3-SQUARE
KEY TO MATCHING SHEETS
M-19 N-19 O-19
M-20 N-20 O-20
M-21 N-21 O-21
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
PASSAIC 2A LEVEE/FLOOD WALL SYSTEM
REVISED:
DATE: NOVEMBER 1994
PREPARED BY: MTW
SHEET 1 of 13

Figure C-90k

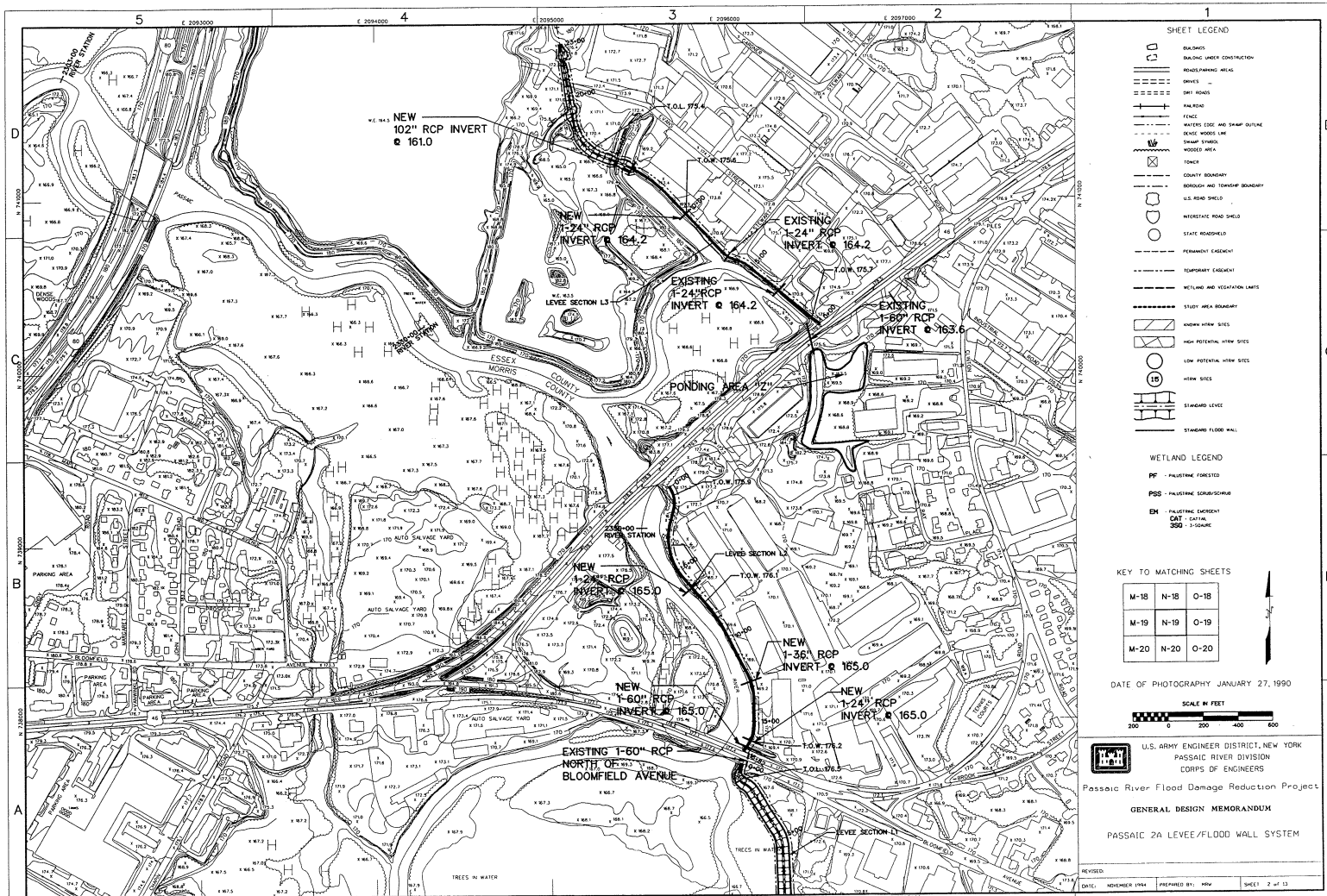

NEW 102" RCP INVERT @ 161.0
NEW 1-24" RCP INVERT @ 164.2
EXISTING 1-24" RCP INVERT @ 164.2
EXISTING 1-24" RCP INVERT @ 164.2
EXISTING 1-60" RCP INVERT @ 163.6
PONDING AREA "2"
NEW 1-24" RCP INVERT @ 165.0
NEW 1-36" RCP INVERT @ 165.0
NEW 1-60" RCP INVERT @ 165.0
NEW 1-24" RCP INVERT @ 165.0
EXISTING 1-60" RCP NORTH OF BLOOMFIELD AVENUE
LEVEE SECTION L1
LEVEE SECTION L2
LEVEE SECTION L3
ESSEX COUNTY
MORRIS COUNTY
PASSAIC
AUTO SALVAGE YARD
BLOOMFIELD AVENUE
TREES IN WATER
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS, PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
SQUARE
KEY TO MATCHING SHEETS
M-18 N-18 O-18
M-19 N-19 O-19
M-20 N-20 O-20
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
PASSAIC 2A LEVEE/FLOOD WALL SYSTEM
REVISED
DATE: NOVEMBER 1994
PREPARED BY: MRW
SHEET 2 of 13

Figure C-901

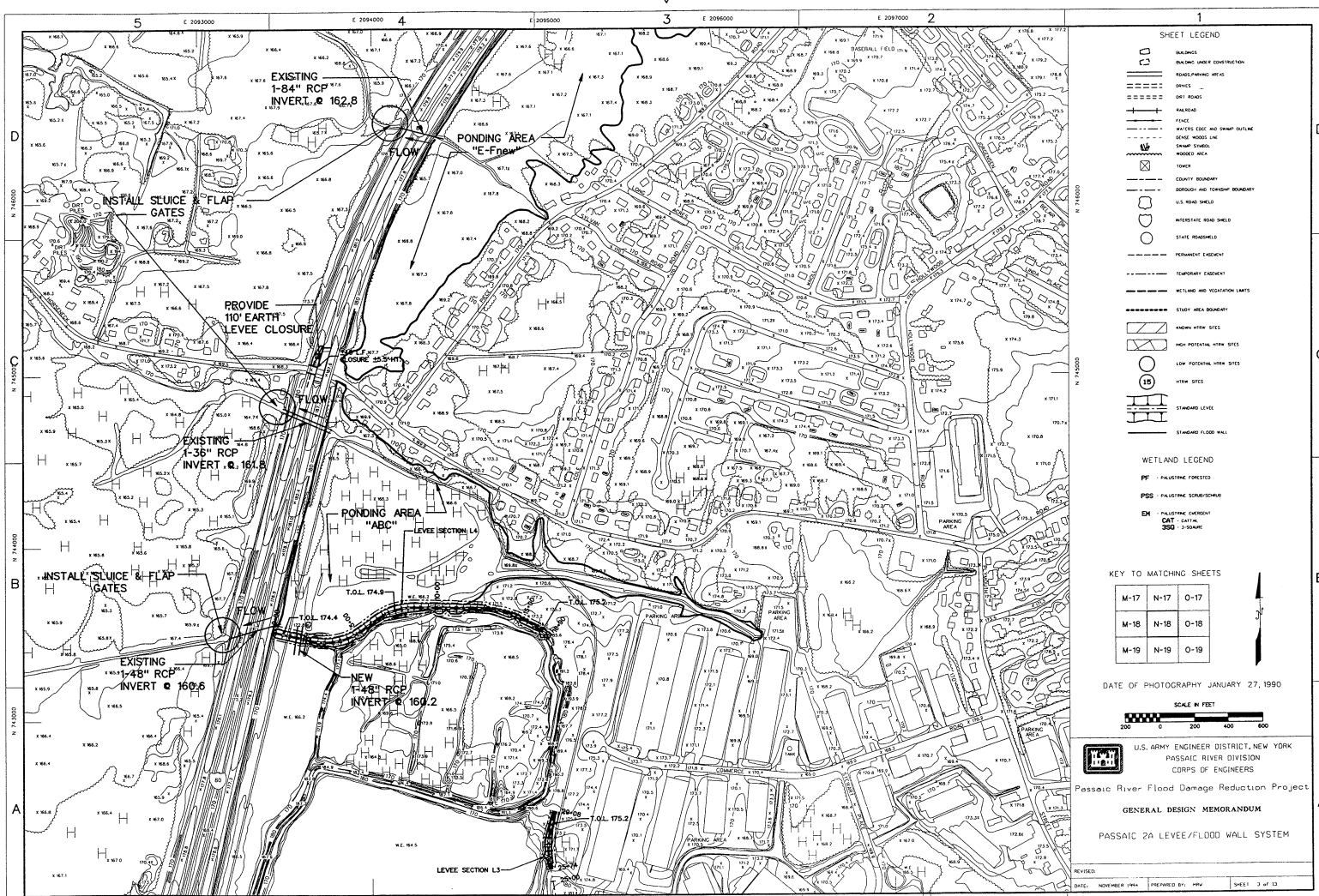


Figure C-90m

SHEET3.DGN

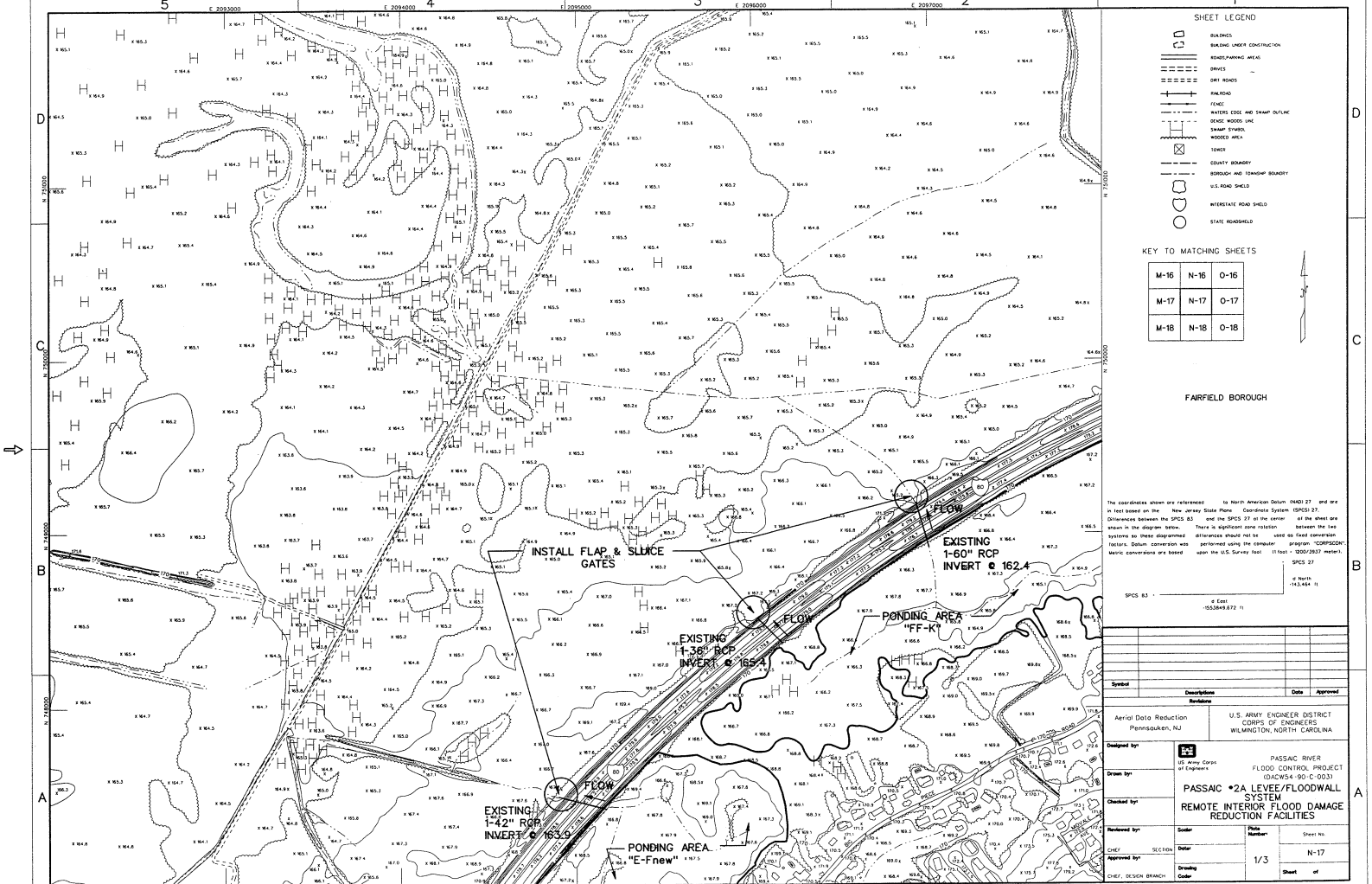
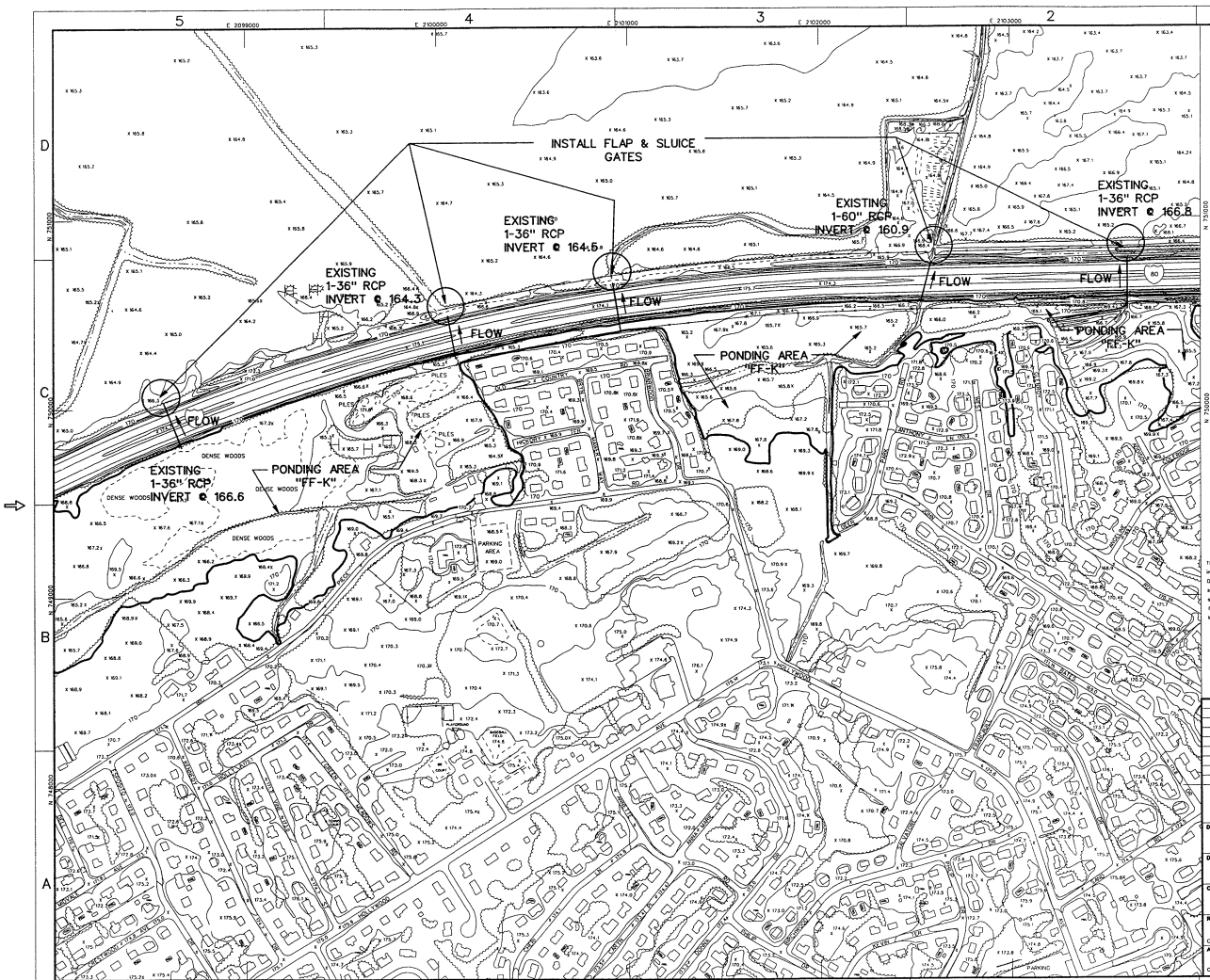

INSTALL FLAP & SLUICE GATES
EXISTING 1-60" RCP INVERT @ 162.4
EXISTING 1-36" RCP INVERT @ 165.4
EXISTING 1-42" RCP INVERT @ 163.9
PONDING AREA "FF-K"
PONDING AREA "E-Fnew"
FLOW
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS, PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDRY
BOROUGH AND TOWNSHIP BOUNDRY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
KEY TO MATCHING SHEETS
M-16 N-16 O-16
M-17 N-17 O-17
M-18 N-18 O-18
FAIRFIELD BOROUGH
SPCS 27
SPCS 83
Aerial Data Reduction
Pennsauken, NJ
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
US Army Corps of Engineers
PASSAIC RIVER
FLOOD CONTROL PROJECT
(DACW54-90-C-0003)
PASSAIC #2A LEVEE/FLOODWALL SYSTEM
REMOTE INTERIOR FLOOD DAMAGE REDUCTION FACILITIES
Designed by:
Drawn by:
Checked by:
Reviewed by:
CHIEF, SECTION
Approved by:
CHIEF, DESIGN BRANCH
Scale
Date
Drawing Code
Plate Number
1/3
Sheet No.
N-17
Sheet of
Symbol
Descriptions
Revisions
Date
Approved

Figure C-90n



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS, PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDRY
BOROUGH AND TOWNSHIP BOUNDRY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD

KEY TO MATCHING SHEETS

N-16	O-16	P-16
N-17	O-17	P-17
N-18	O-18	P-18

The coordinates shown are referenced to North American Datum (NAD) 27 and are in feet based on the New Jersey State Plane Coordinate System (SPCS) 27. Differences between the SPCS 83 and the SPCS 27 at the center of the sheet are shown in the diagram below. There is significant zone rotation between the two systems so these diagrammed differences should not be used as fixed conversion factors. Datum conversion was performed using the computer program "CORPSCON". Metric conversions are based upon the U.S. Survey foot (1 foot = 1200/3937 meters).

SPCS 27
d North -154,865 ft
SPCS 83
d East -153,850.135 ft

Symbol	Descriptions	Date	Approved
	Revisions		

Aerial Data Reduction
Pennsauken, NJ

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Designed by:
Drawn by:
Checked by:
Reviewed by:
CHIEF, SECTION
Approved by:
CHIEF, DESIGN BRANCH

US Army Corps of Engineers

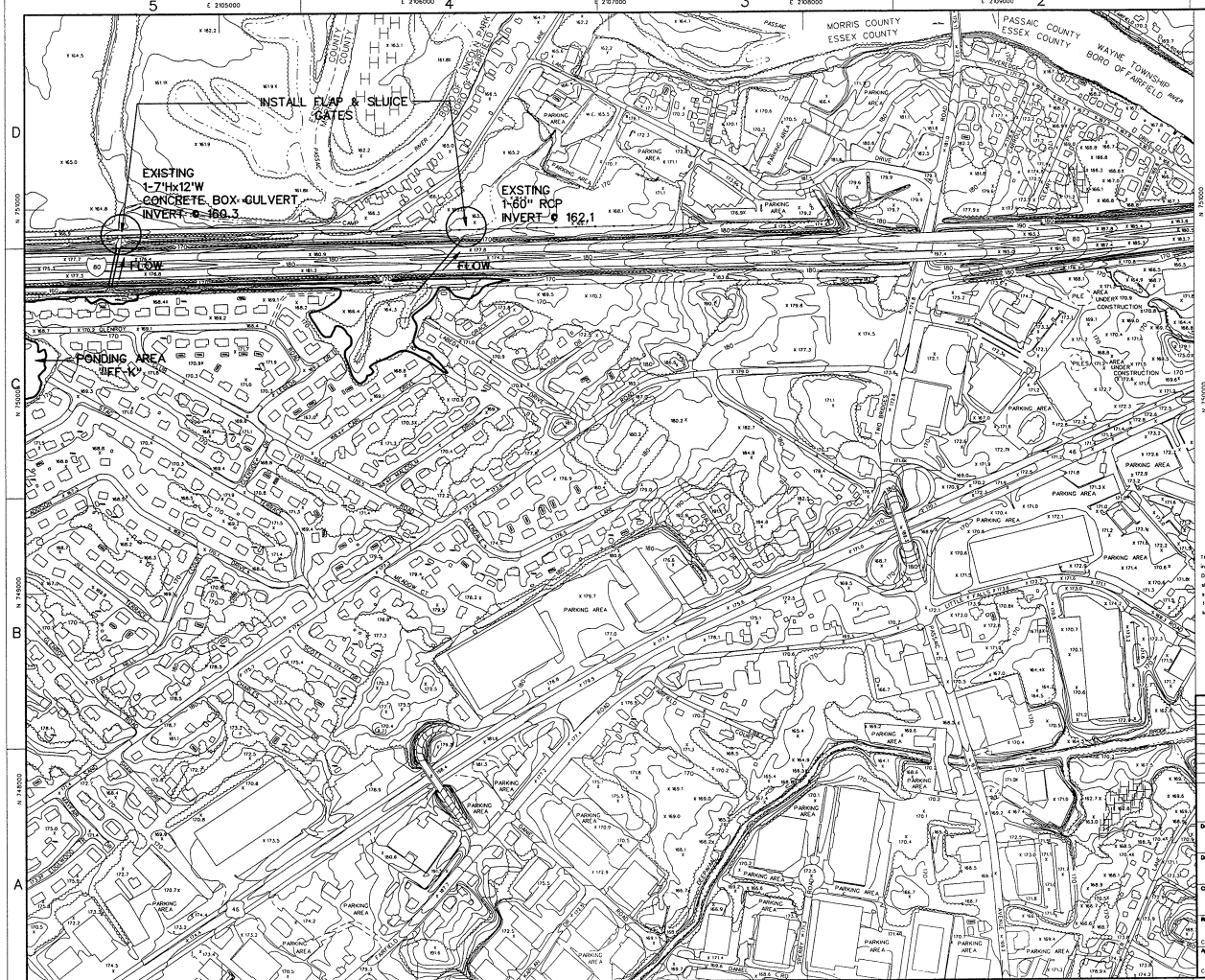
PASSAIC RIVER
FLOOD CONTROL PROJECT
(DACW54-90-C-0013)

PASSAIC #2A LEVEE/FLOODWALL SYSTEM
REMOTE INTERIOR FLOOD DAMAGE REDUCTION FACILITIES

Scale:
Plate Number: 2/3
Sheet No.: O-17
Date:
Drawing Code:
Sheet of

IFA-017.DGN

Figure C-900



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS, PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- SWAMP SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDRY
- BOROUGH AND TOWNSHIP BOUNDRY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD

KEY TO MATCHING SHEETS

O-16	P-16	Q-16
O-17	P-17	Q-17
O-18	P-18	Q-18

LINCOLN PARK BOROUGH
FAIRFIELD BOROUGH
WAYNE TOWNSHIP

The coordinates shown are referenced to North American Datum (NAD) 27 and are in feet based on the New Jersey State Plane Coordinate System (SPCS) 27. Differences between the SPCS 83 and the SPCS 27 at the center of the sheet are shown in the diagram below. There is significant zone rotation between the two systems so these diagrammed differences should not be used as fixed conversion factors. Datum conversion was performed using the computer program "CORPSCON". Metric conversions are based upon the U.S. Survey foot (1 foot = 1200/3937 meter).

SPCS 27
d North 166.266 ft
SPCS 83
d East 053850.595 ft

Symbol	Descriptions	Date	Approved
	Revisions		

Aerial Data Reduction
Pennsauken, NJ

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Designed by:
Drawn by:
Checked by:
Reviewed by: CHIEF, SECTION
Approved by: CHIEF, DESIGN BRANCH

US Army Corps of Engineers

PASSAIC RIVER
FLOOD CONTROL PROJECT
(DACW54-90-C-0003)

PASSAIC #2A LEVEE/FLOODWALL SYSTEM
REMOTE INTERIOR FLOOD DAMAGE REDUCTION FACILITIES

Scale:
Date:
Drawing Code:
Plate Number: 3/3
Sheet No.: P-17
Sheet of

Figure C-90p

IFA-P17.DGN


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
UNCURBED ROADS
ROADS,PARKING AREAS
DRIVES
DIRT ROADS
WATERS EDGE AND SWAMP OUTLINE
TREE LINE
STONE FENCE
FENCE
BRUSH LINE
SWAMP SYMBOL
WOODED AREA
POWERLINE
GUIDE RAIL
SINGLE TREE
TOWER
MANHOLE
CATCH BASIN
FIRE HYDRANT
TEL MANHOLE
FLUSH CB GRATE
UTILITY POLE
MONITOR WELL
LIGHT POLE
GUY WIRE
TEST HOLE
SIGN
VALVE
CURVE DATA
Δ - DEFLECTION ANGLE
D - DEGREE OF CURVE
R - RADIUS OF CURVE
T - TANGENT LENGTH
L - LENGTH OF CURVE
PIPE CULVERT W/HEADWALL, SLUICE GATE, FLAP GATE (NEW)
PIPE CULVERT W/FES (NEW)
TEMPORARY GRAVEL FILTER BASIN
TEMPORARY SILT FENCE
TEMPORARY SILT DITCH
SCALE IN FEET
100 0 100 200 300
BORROW AND WASTE DISPOSAL AREA
PUMP STATION
PARKING AREA
DORSA AVENUE
NAYLON AVENUE
CONTRACTORS STAGING AREA
B.T. PARKING
TURNAROUND
ENVIRONMENTAL SENSITIVE AREA
TREE REMOVAL (LEAF PILE)
GREENOVER AVENUE
STA 0+00
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WILMINGTON, NORTH CAROLINA
U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK
Designed by: LC
Drawn by: LC
Checked by: LC
Reviewed & Approved by:
CHIEF, CIVIL ENGR. SECTION
PASSAIC RIVER NEW JERSEY AND NEW YORK
PASSAIC 10 LEVEE
GENERAL MAP - LEVEE PLAN
Scale: 1" = 100'
Date:
Drawing Code:
Plate Number: P-1
P10GEN.DGN
Sheet 32 of 34

Figure C-90q

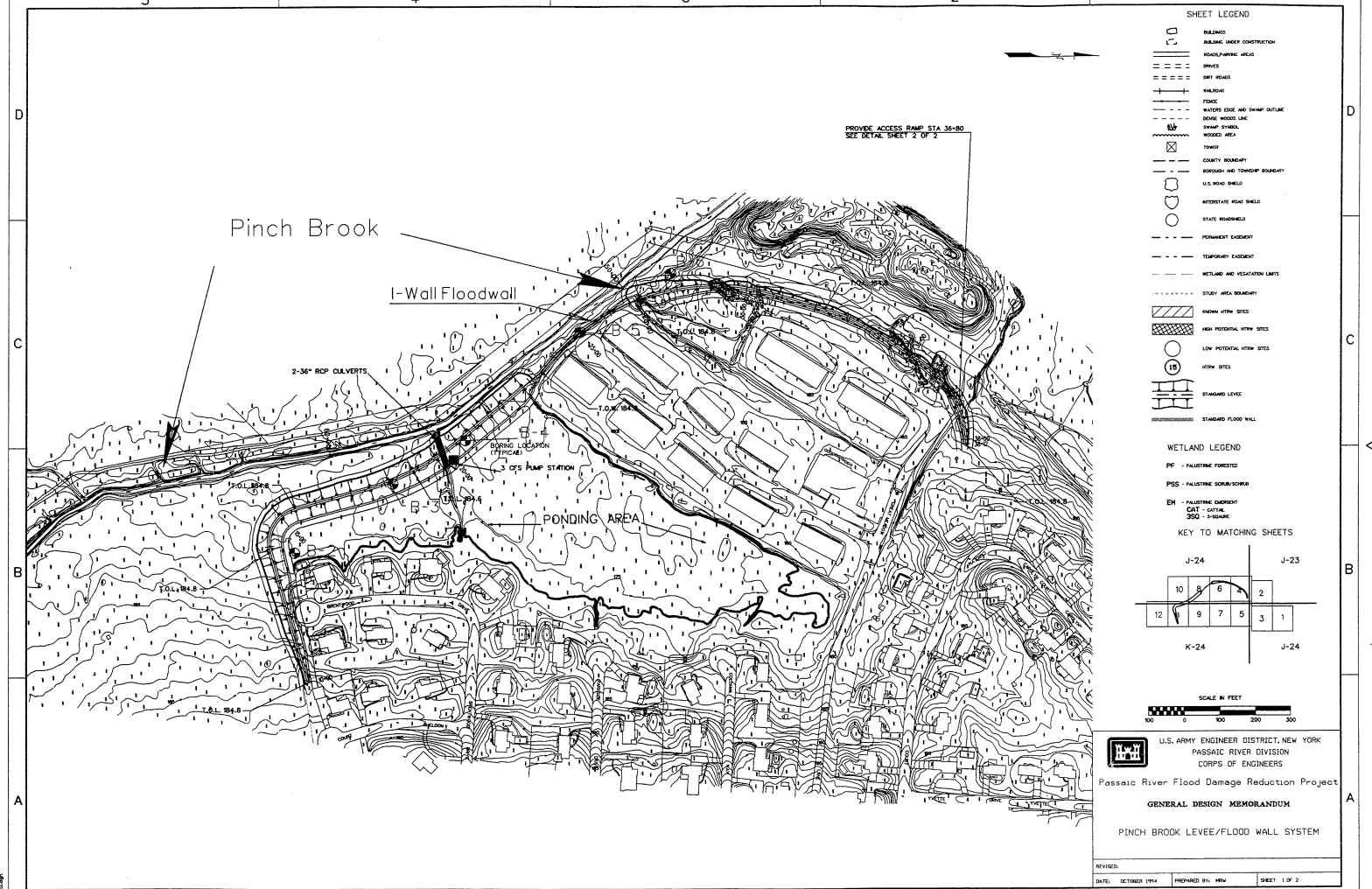

Pinch Brook
I-Wall Floodwall
PROVIDE ACCESS RAMP STA 36+80
SEE DETAIL SHEET 2 OF 2
2-36" RCP CULVERTS
BORING LOCATION (TYPICAL)
3 CFS PUMP STATION
PONDING AREA
T.O.L. 184.8
B-5
B-3
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGATATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
3SQ - 3-SQUARE
KEY TO MATCHING SHEETS
J-24
J-23
K-24
J-24
SCALE IN FEET
100 0 100 200 300
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
PINCH BROOK LEVEE/FLOOD WALL SYSTEM
REVISED:
DATE: OCTOBER 1994
PREPARED BY: MRW
SHEET 1 OF 2

Figure C-90r

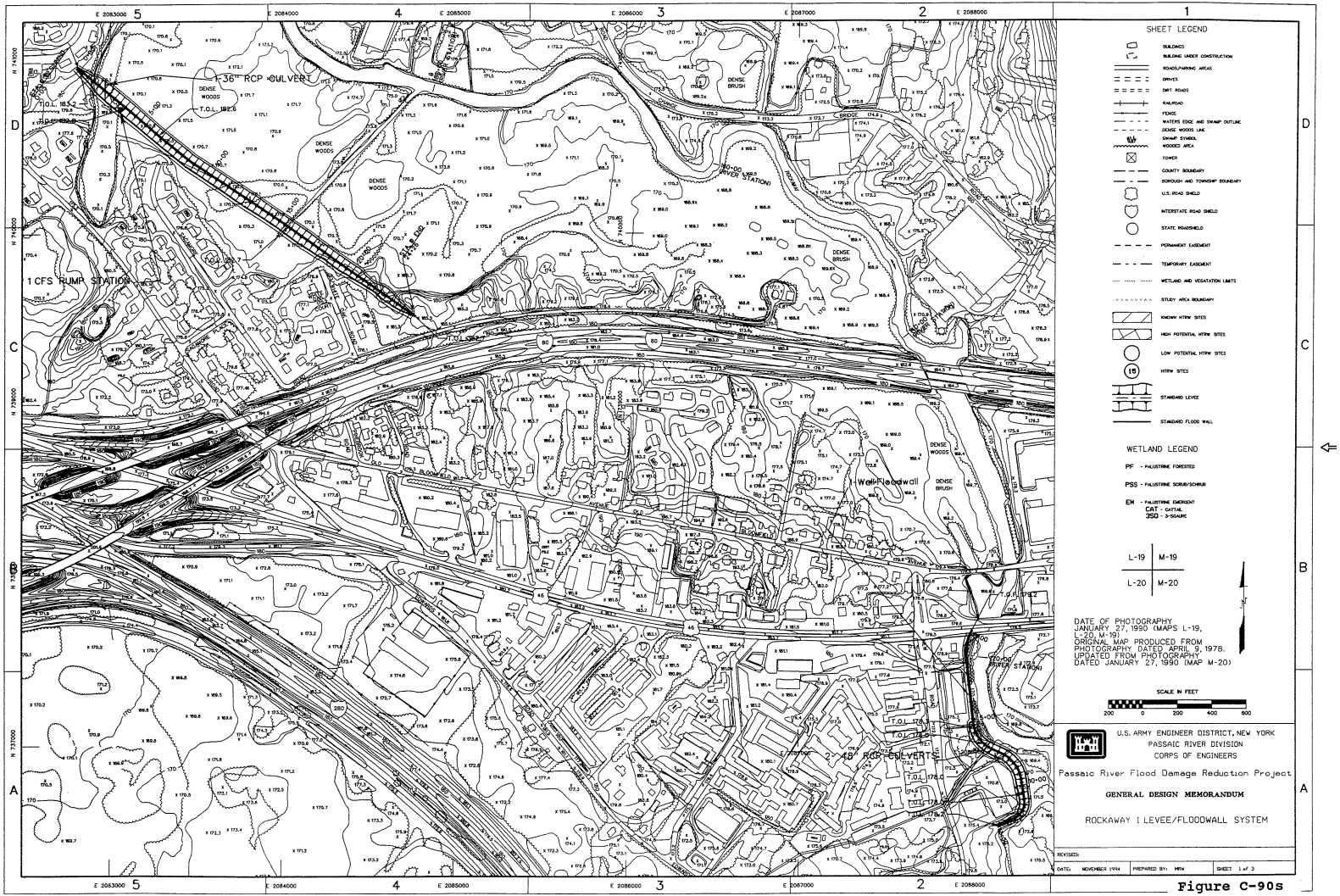
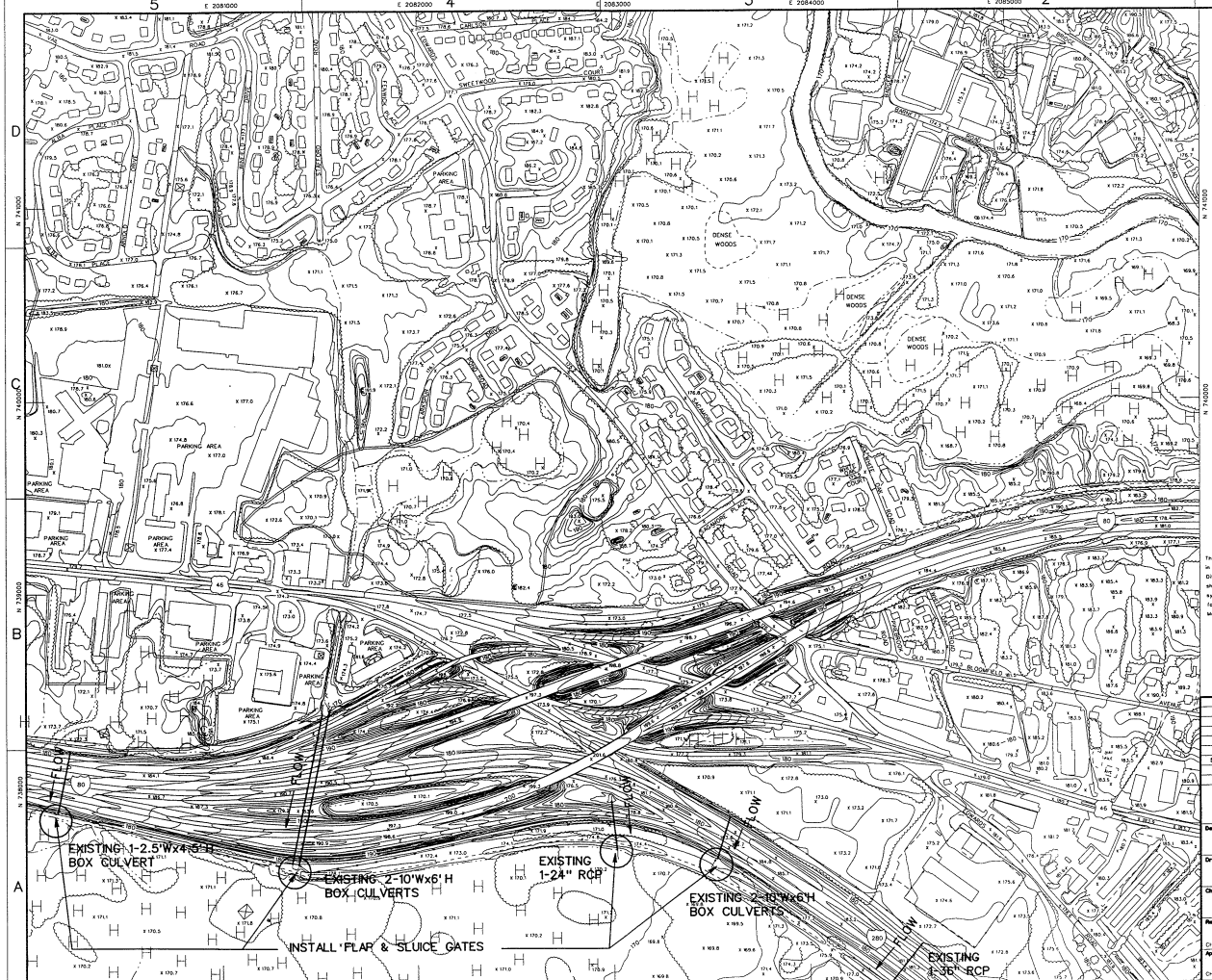

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROAD/SHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SHRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
3SQ - 3-SQUARE
L-19 M-19
L-20 M-20
DATE OF PHOTOGRAPHY JANUARY 27, 1990 (MAPS L-19, L-20, M-19)
ORIGINAL MAP PRODUCED FROM PHOTOGRAPHY DATED APRIL 9, 1976.
UPDATED FROM PHOTOGRAPHY DATED JANUARY 27, 1990 (MAP M-20)
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
ROCKAWAY I LEVEE/FLOODWALL SYSTEM
REVISED:
DATE: NOVEMBER 1994
PREPARED BY: MRW
SHEET 1 of 3
36" RCP CULVERT
1 CFS PUMP STATION
Wall-Floodwall
2 - 18" RCP CULVERTS
DENSE WOODS
DENSE BRUSH

Figure C-90s



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROAD/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- SWAMP SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDRY
- BOROUGH AND TOWNSHIP BOUNDRY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD

KEY TO MATCHING SHEETS

K-18	L-18	M-18
K-19	L-19	M-19
K-20	L-20	M-20

PARSIPPANY-TROY HILLS TOWNSHIP
MONTVILLE TOWNSHIP

The coordinates shown are referenced to North American Datum (NAD) 27 and are in feet based on the New Jersey State Plane Coordinate System (SPCS) 27. Differences between the SPCS 83 and the SPCS 27 at the center of the sheet are shown in the diagram below. There is significant zone rotation between the two systems so these diagrammed differences should not be used as fixed conversion factors. Datum conversion was performed using the computer program "CORPSCON" Metric conversions are based upon the U.S. Survey foot (1 foot = 1200/3937 meters).

SPCS 27
d North 19,871 ft
SPCS 83
d East -1553867.737 ft

Symbol	Descriptions	Date	Approved
	Revisions		

Aerial Data Reduction
Pennsauken, NJ

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

Designed by:
Drawn by:
Checked by:
Reviewed by:
Approved by: CHIEF, SECTION
CHIEF, DESIGN BRANCH

US Army Corps of Engineers

PASSAIC RIVER
FLOOD CONTROL PROJECT
(DACW54-90-C-0031)

ROCKAWAY #1 LEVEE/FLOODWALL SYSTEM
REMOTE INTERIOR FLOOD DAMAGE REDUCTION FACILITIES

Scale:
Date:
Drawing Code:
Plate Number: 1/3
Sheet No: L-19
Sheet of

Figure C-90t

F A L 19.DGN

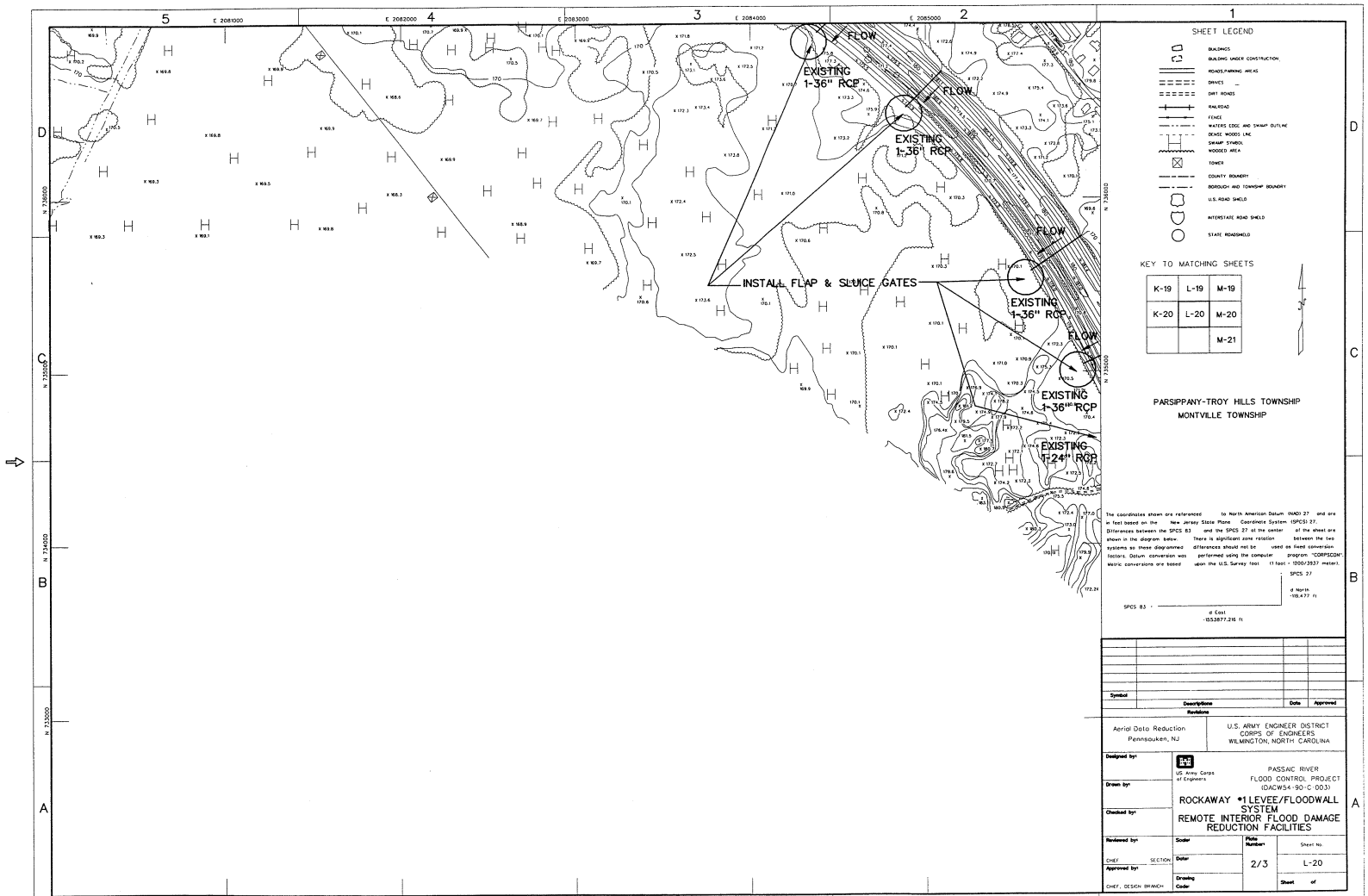

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDRY
BOROUGH AND TOWNSHIP BOUNDRY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
KEY TO MATCHING SHEETS
K-19 L-19 M-19
K-20 L-20 M-20
M-21
PARSIPPANY-TROY HILLS TOWNSHIP
MONTVILLE TOWNSHIP
EXISTING 1-36" RCP
EXISTING 1-24" RCP
FLOW
INSTALL FLAP & SLUICE GATES
E 2081000
E 2082000
E 2083000
E 2084000
E 2085000
N 738000
N 736000
N 734000
N 732000
SPCS 27
d North -119,477 ft
SPCS 83
d East -153877.216 ft
Aerial Data Reduction
Pennsauken, NJ
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA
US Army Corps of Engineers
PASSAIC RIVER
FLOOD CONTROL PROJECT
(DACW54-90-C-0013)
ROCKAWAY #1 LEVEE/FLOODWALL SYSTEM
REMOTE INTERIOR FLOOD DAMAGE REDUCTION FACILITIES
Designed by:
Drawn by:
Checked by:
Reviewed by:
CHIEF, SECTION
Approved by:
CHIEF, DESIGN BRANCH
Scale
Date
Plate Number
2/3
Sheet No.
L-20
Drawing Code
Sheet of
Symbol
Descriptions
Revisions
Date
Approved

Figure C-90u

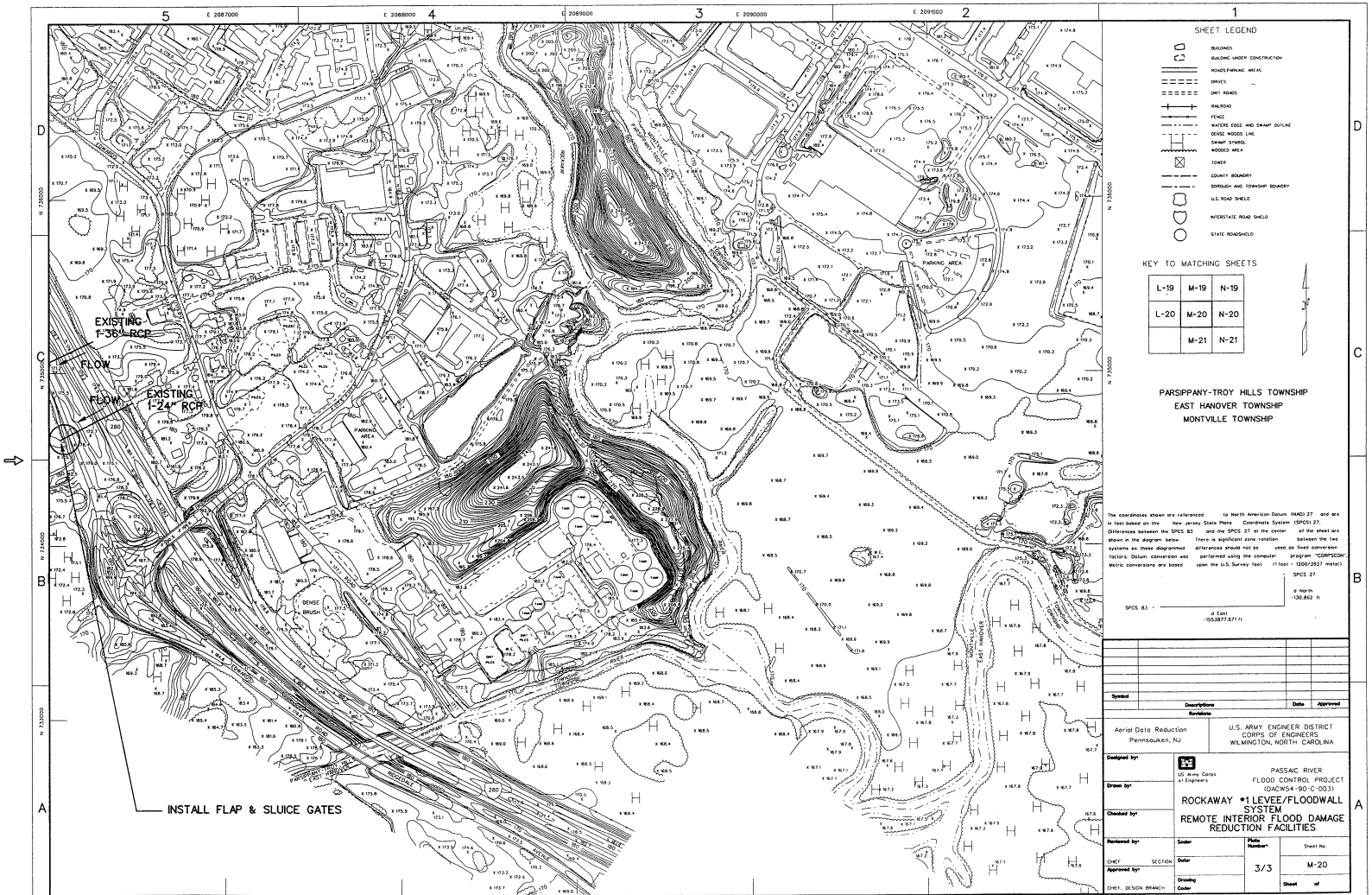


Figure C-90v

IFA-M20.DGN

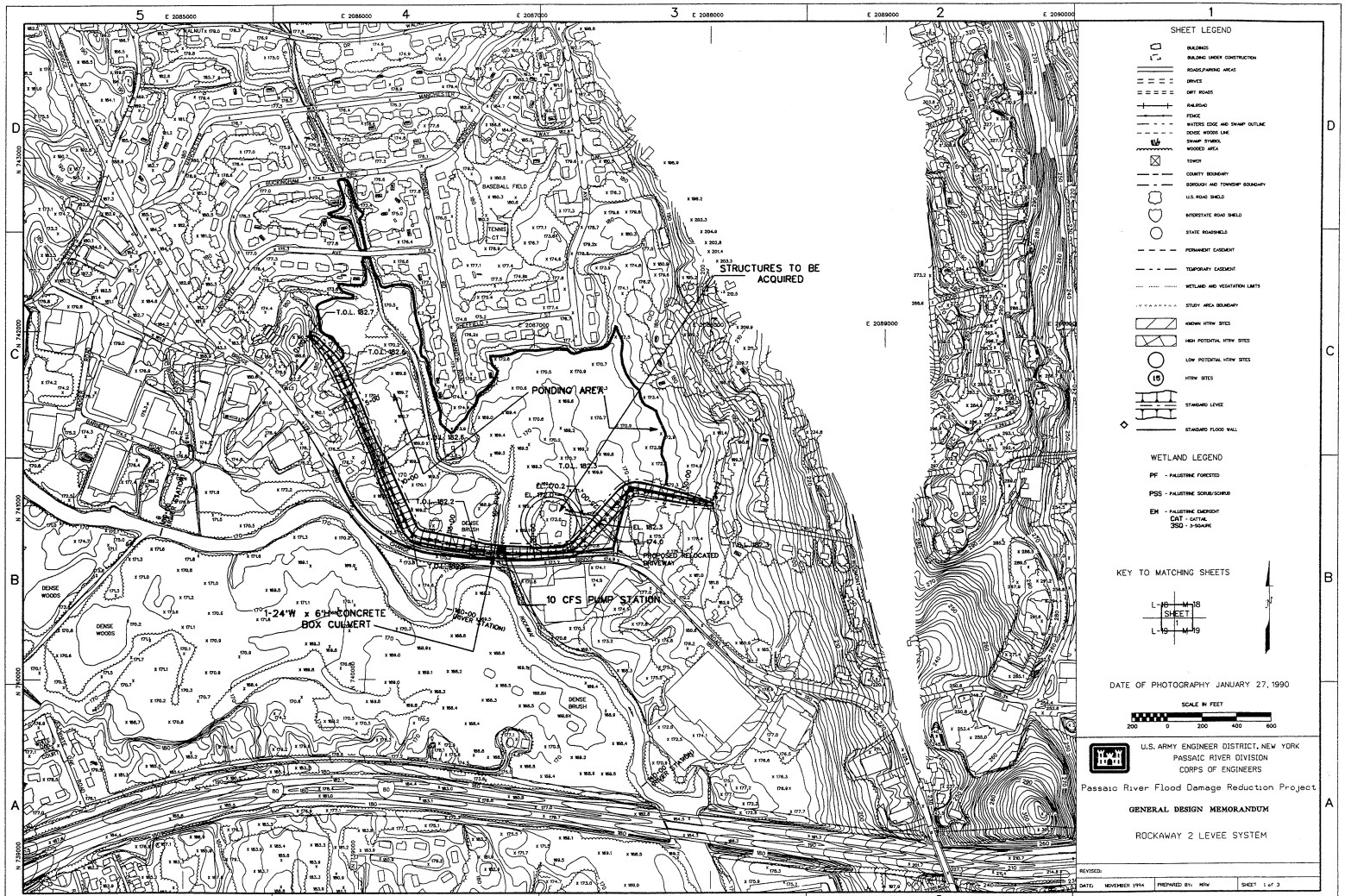

STRUCTURES TO BE ACQUIRED
PONDING AREA
10 CFS PUMP STATION
24'W x 6'H CONCRETE BOX CULVERT
PROPOSED RELOCATED DRIVEWAY
T.O.L. 182.7
T.O.L. 182.6
T.O.L. 182.2
T.O.L. 182.3
EL. 170.2
EL. 174.0
EL. 182.3
BASEBALL FIELD
TENNIS CT.
DENSE WOODS
DENSE BRUSH
MARKET ST.
MAGNOLIA AVE.
BROADWAY
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
3SQ - 3-SQUARE
KEY TO MATCHING SHEETS
L-18
M-18
SHEET
L-19
M-19
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
ROCKAWAY 2 LEVEE SYSTEM
REVISED:
DATE: NOVEMBER 1994
PREPARED BY: MRW
SHEET 1 of 3

Figure C-90w

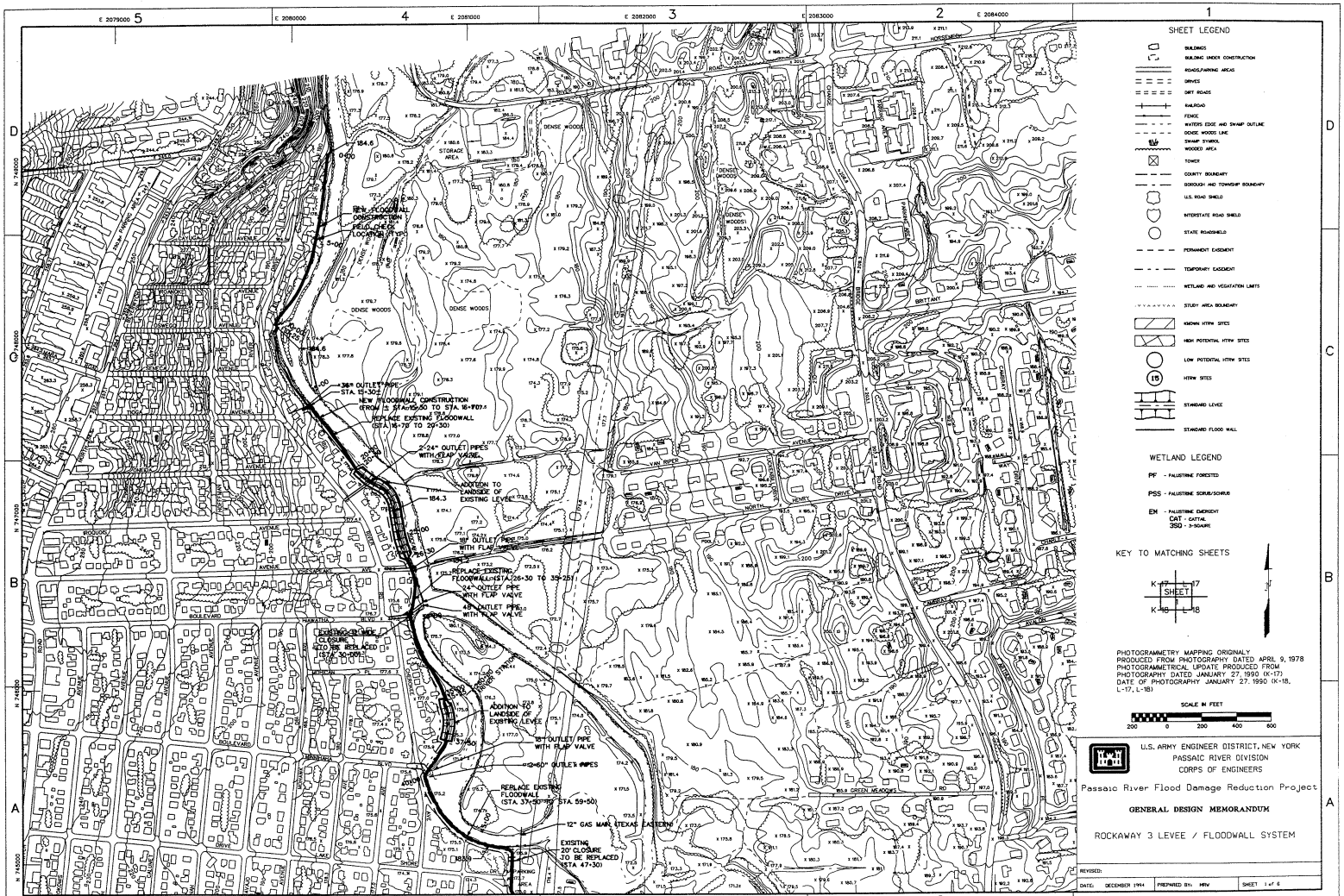

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
SQUARE - 3-SQUARE
KEY TO MATCHING SHEETS
K-17
L-17
SHEET
K-18
L-18
PHOTOGRAMMETRY MAPPING ORIGINALLY PRODUCED FROM PHOTOGRAPHY DATED APRIL 9, 1978
PHOTOGRAMMETRICAL UPDATE PRODUCED FROM PHOTOGRAPHY DATED JANUARY 27, 1990 (K-17)
DATE OF PHOTOGRAPHY JANUARY 27, 1990 (K-18, L-17, L-18)
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
ROCKAWAY 3 LEVEE / FLOODWALL SYSTEM
REVISED:
DATE: DECEMBER 1994
PREPARED BY: HRV
SHEET 1 of 6
NEW FLOODWALL CONSTRUCTION (STA. 0+00 TO STA. 1+50)
36" OUTLET PIPE STA. 11+50
NEW FLOODWALL CONSTRUCTION (FROM ± STA. 16+50 TO STA. 18+70)
REPLACE EXISTING FLOODWALL (STA. 15+75 TO 29+30)
2-24" OUTLET PIPES WITH FLAP VALVES
ADDITION TO LANDSIDE OF EXISTING LEVEE
18" OUTLET PIPE WITH FLAP VALVE
REPLACE EXISTING FLOODWALL (STA. 26+30 TO 39+25)
24" OUTLET PIPE WITH FLAP VALVE
48" OUTLET PIPE WITH FLAP VALVE
EXISTING SEWER CLOSURE (STA. 30+00) TO BE REPLACED
ADDITION TO LANDSIDE OF EXISTING LEVEE
18" OUTLET PIPE WITH FLAP VALVE
2-60" OUTLET PIPES
REPLACE EXISTING FLOODWALL (STA. 37+50 TO STA. 59+50)
12" GAS MAIN, TEXAS EASTERN
EXISTING 20' CLOSURE TO BE REPLACED (STA. 47+30)

Figure C-90x

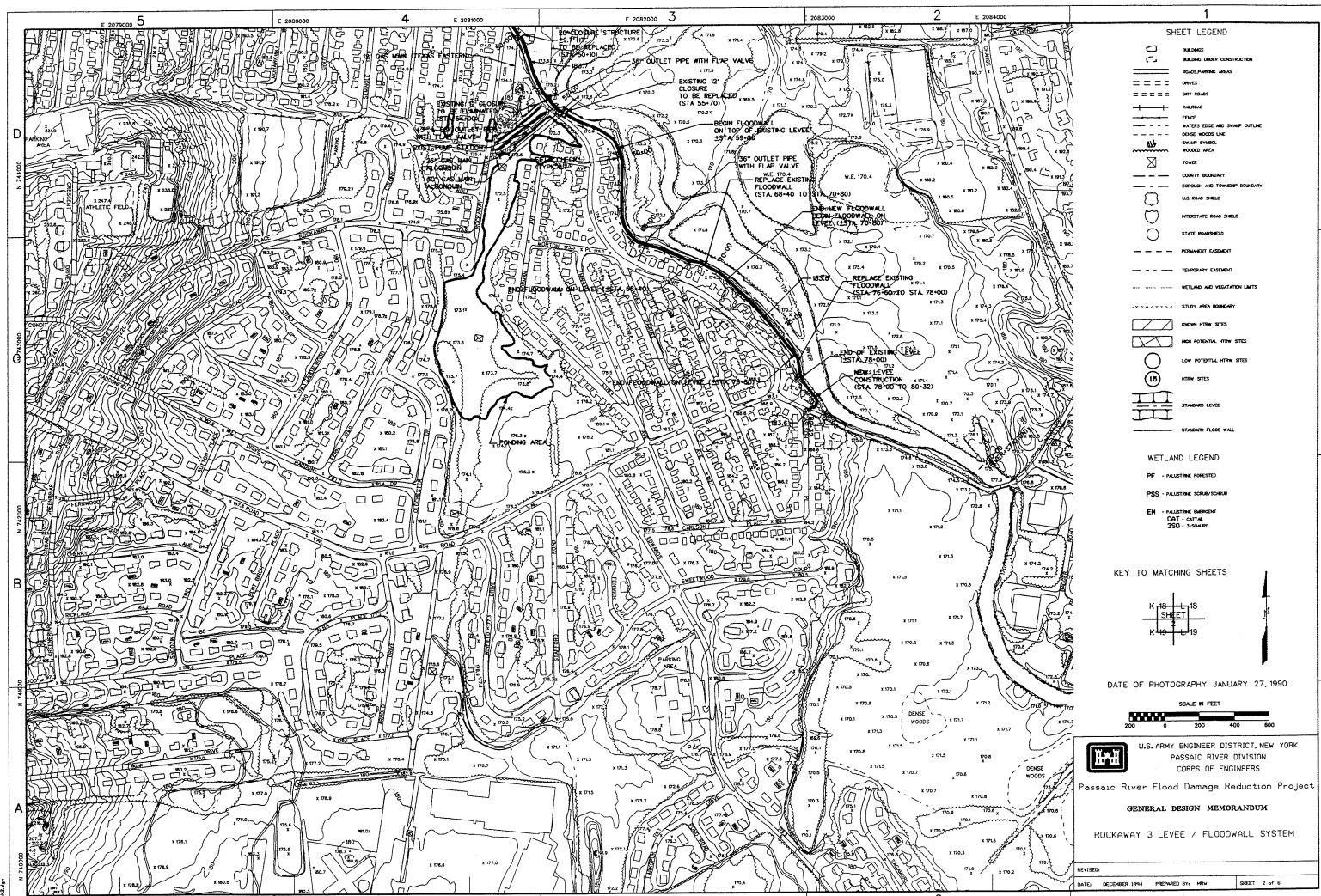

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROAD/SHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGETATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
WETLAND LEGEND
PF - PALUSTRINE FORESTED
PSS - PALUSTRINE SCRUB/SCRUB
EM - PALUSTRINE EMERGENT
CAT - CATTAIL
SQ - SQUARE
KEY TO MATCHING SHEETS
K-18 18 SHEET K-19 19
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
ROCKAWAY 3 LEVEE / FLOODWALL SYSTEM
REVISED:
DATE: DECEMBER 1994
PREPARED BY: HRH
SHEET 2 of 6
36" CLOSURE STRUCTURE
36" OUTLET PIPE WITH FLAP VALVE
EXISTING 12' CLOSURE TO BE REPLACED (STA. 55+70)
BEGIN FLOODWALL ON TOP OF EXISTING LEVEE ±STA 59+00
36" OUTLET PIPE WITH FLAP VALVE
REPLACE EXISTING FLOODWALL (STA. 68+40 TO STA. 70+80)
END NEW FLOODWALL BEGIN FLOODWALL ON LEVEE (±STA. 70+80)
REPLACE EXISTING FLOODWALL (STA. 76+60±10 STA. 78+00)
END OF EXISTING LEVEE (±STA. 78+00)
NEW LEVEE CONSTRUCTION (STA. 78+00 TO 80+32)
END FLOODWALL ON LEVEE (±STA. 78+60)
EXISTING 12' CLOSURE TO BE ELIMINATED
EXISTING PUMP STATION
PARKING AREA
DENSE WOODS
ATHLETIC FIELD
E 2079000
E 2080000
E 2081000
E 2082000
E 2083000
E 2084000
N 744000
N 743000
N 742000
N 741000

Figure C-90y


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
BRIDGE WOODS LINE
SWAMP SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
PERMANENT EASEMENT
TEMPORARY EASEMENT
WETLAND AND VEGATATION LIMITS
STUDY AREA BOUNDARY
KNOWN HTRW SITES
HIGH POTENTIAL HTRW SITES
LOW POTENTIAL HTRW SITES
HTRW SITES
STANDARD LEVEE
STANDARD FLOOD WALL
KEY TO MATCHING SHEETS
6
W5-29
X1-28
3
2
4
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
KEARNY POINT LEVEE/FLOOD WALL SYSTEM
REVISED:
DATE: JANUARY 1995
PREPARED BY: MRW
SHEET 1 of 11
HUDSON COUNTY
ESSEX COUNTY
PASSAIC RIVER
PULASKI
SKYWAY
LINCOLN TRK
HIGHWAY TRUCKS
PENNSYLVANIA AVENUE
STORAGE AREA
PARKING AREA
AREA UNDER CONSTRUCTION
POWER PLANT
TRAILER PARKING
PUMP STATION
375 CFS
SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
SECTION 10
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Figure C-90z

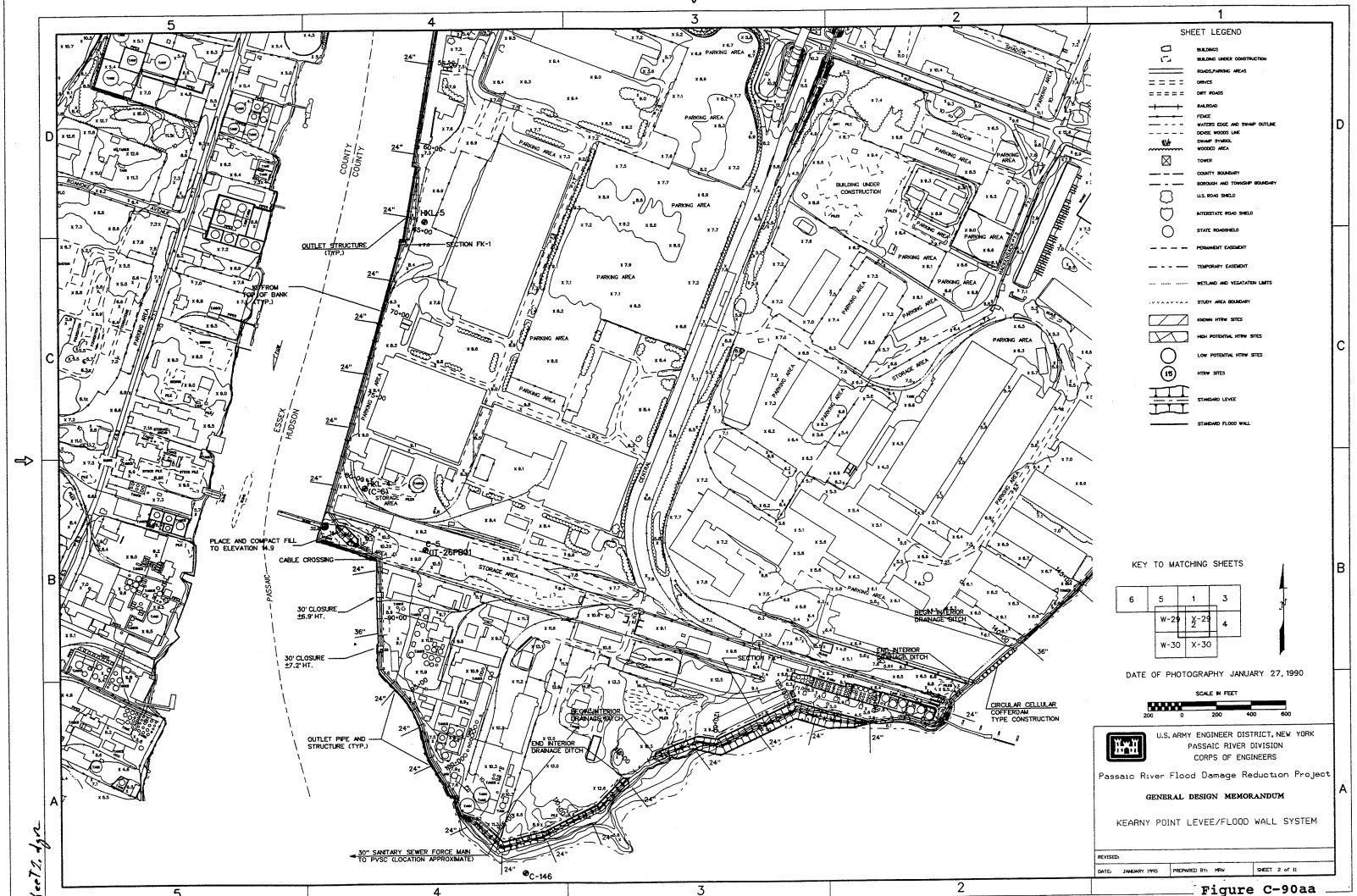


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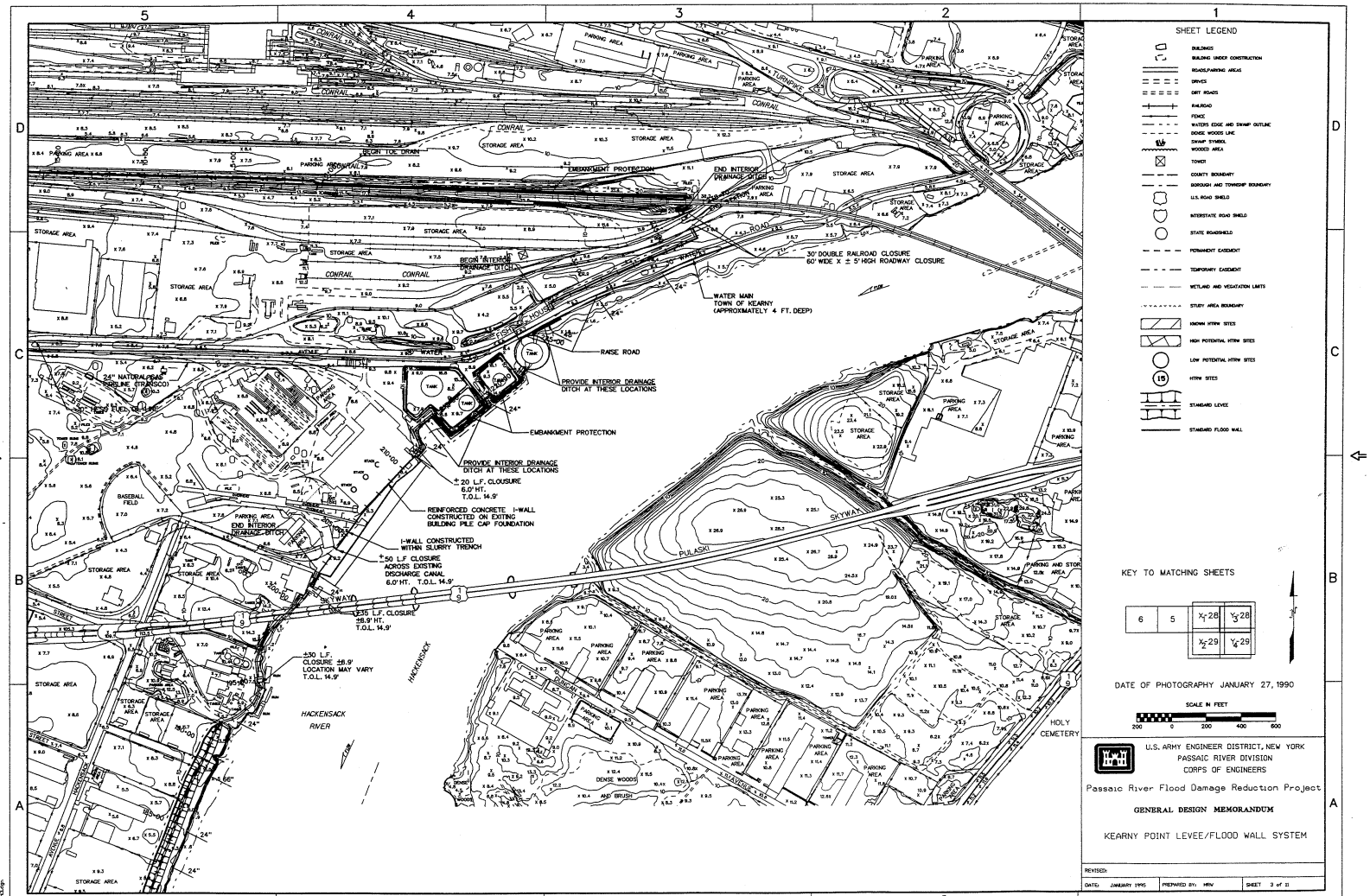
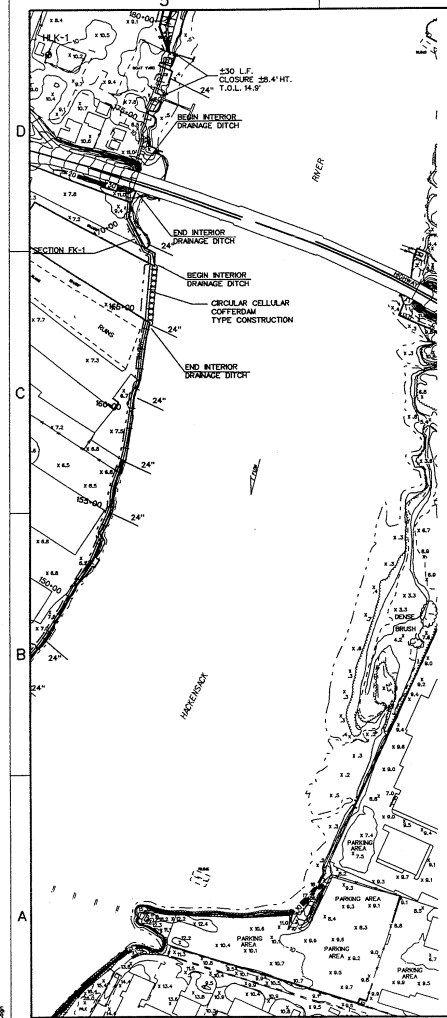


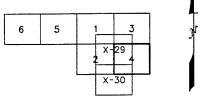
Figure C-90bb



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- SWAMP SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- WETLAND AND VEGETATION LIMITS
- STUDY AREA BOUNDARY
- KNOWN HTRW SITES
- HIGH POTENTIAL HTRW SITES
- LOW POTENTIAL HTRW SITES
- 15 HTRW SITES
- STANDARD LEVEE
- STANDARD FLOOD WALL

KEY TO MATCHING SHEETS



DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

200 0 200 400 600

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

KEARNY POINT LEVEE/FLOOD WALL SYSTEM

REVISED:		
DATE: JANUARY 1995	PREPARED BY: HRV	SHEET 4 of 11

Figure C-90cc

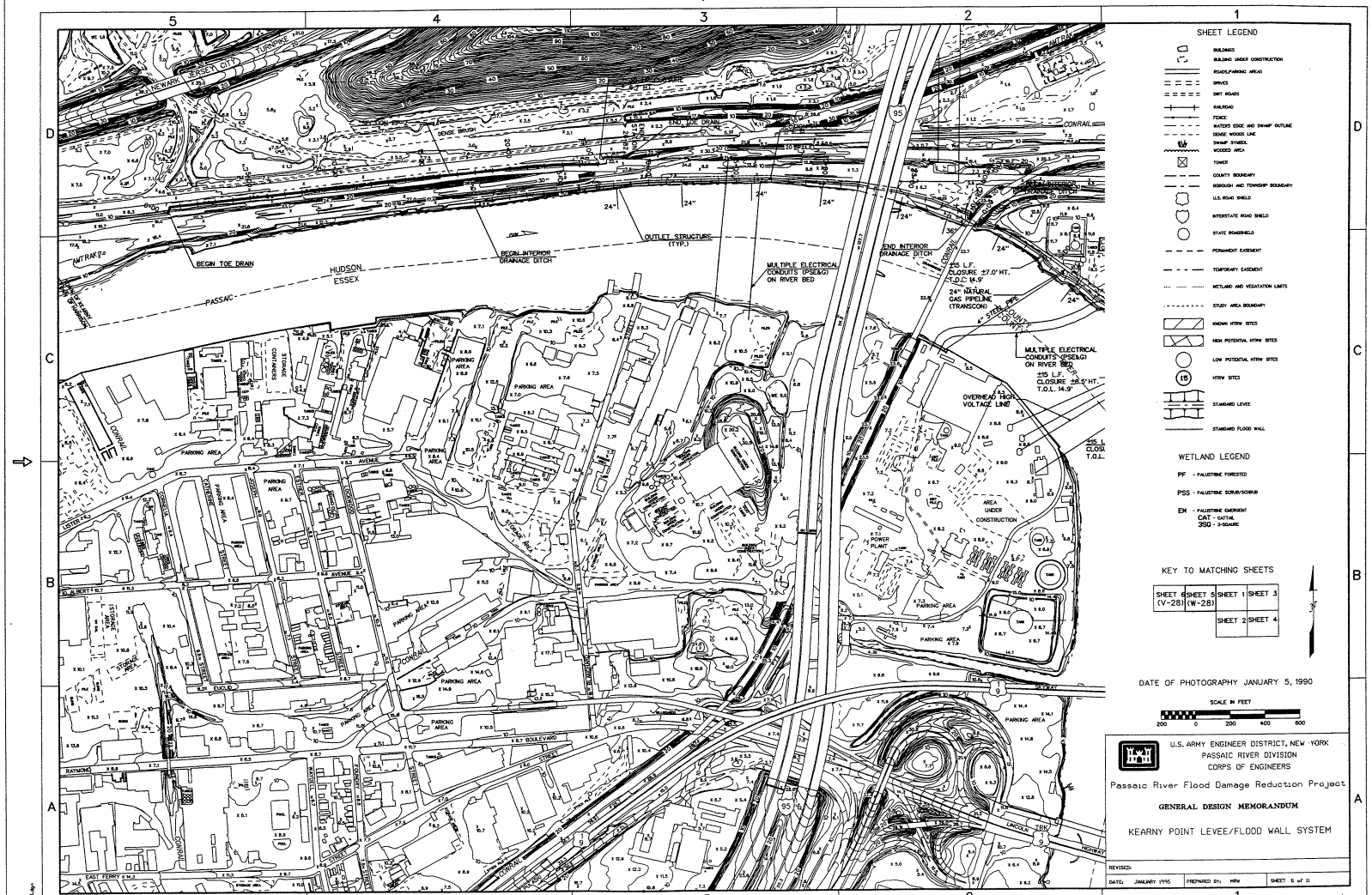


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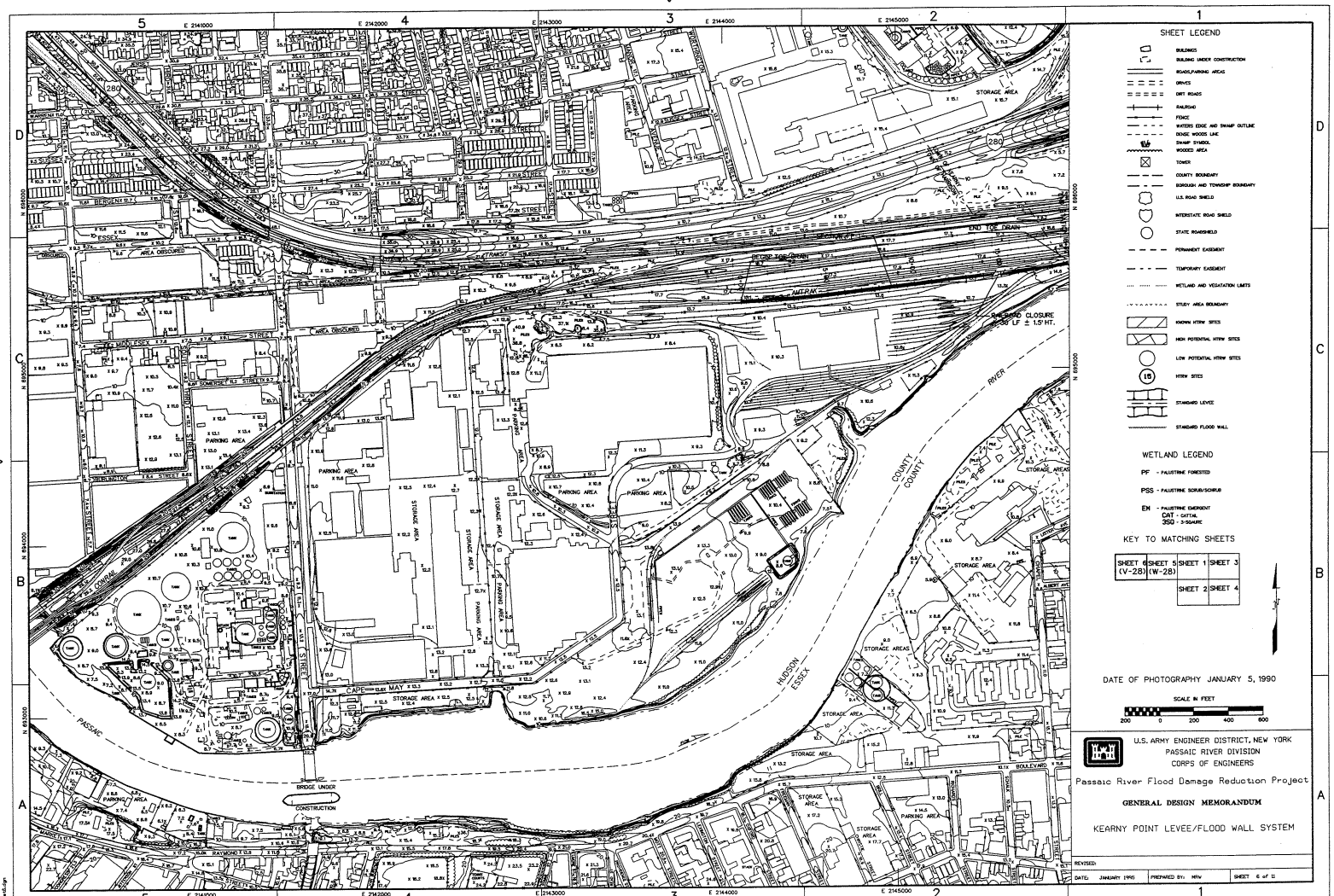


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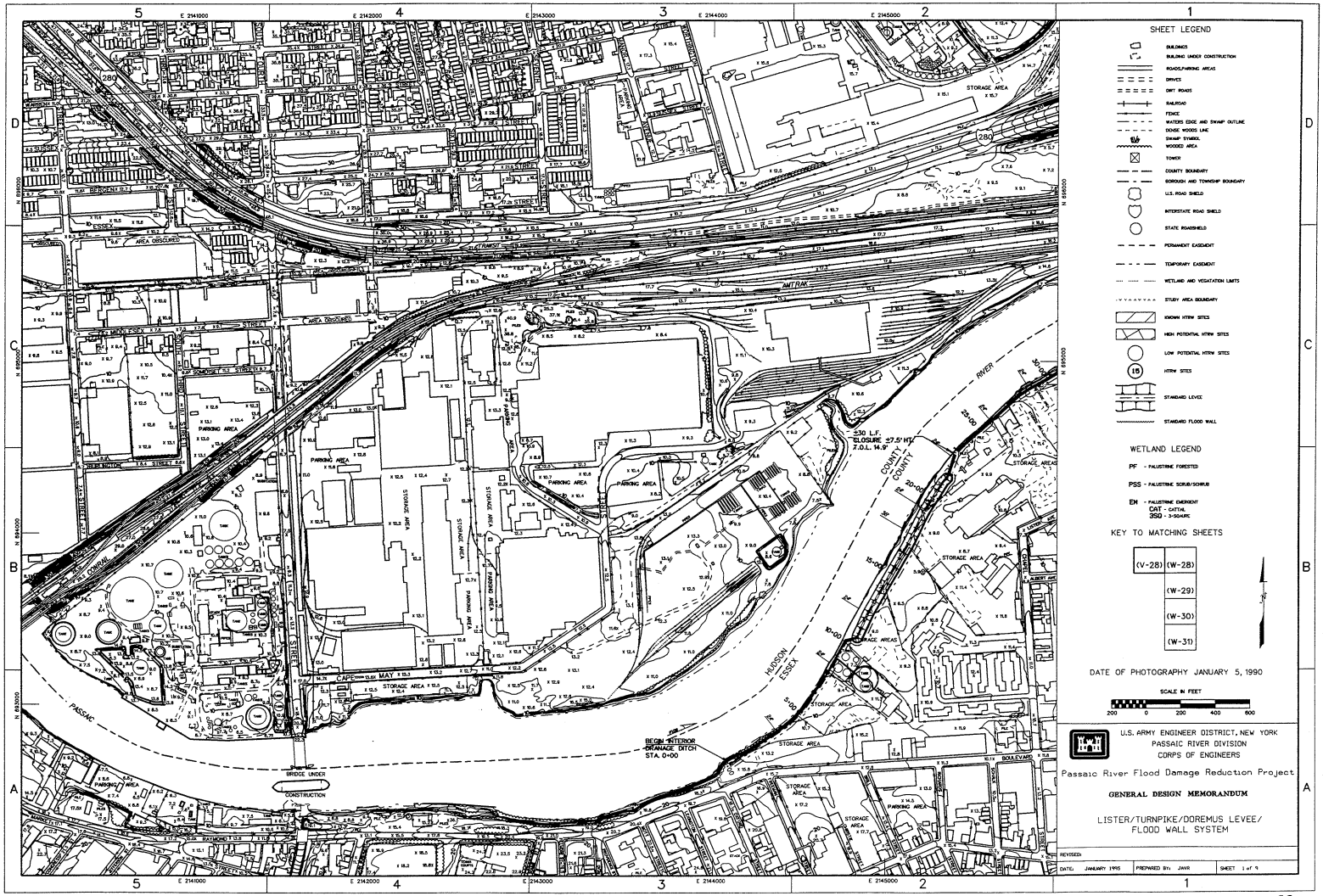


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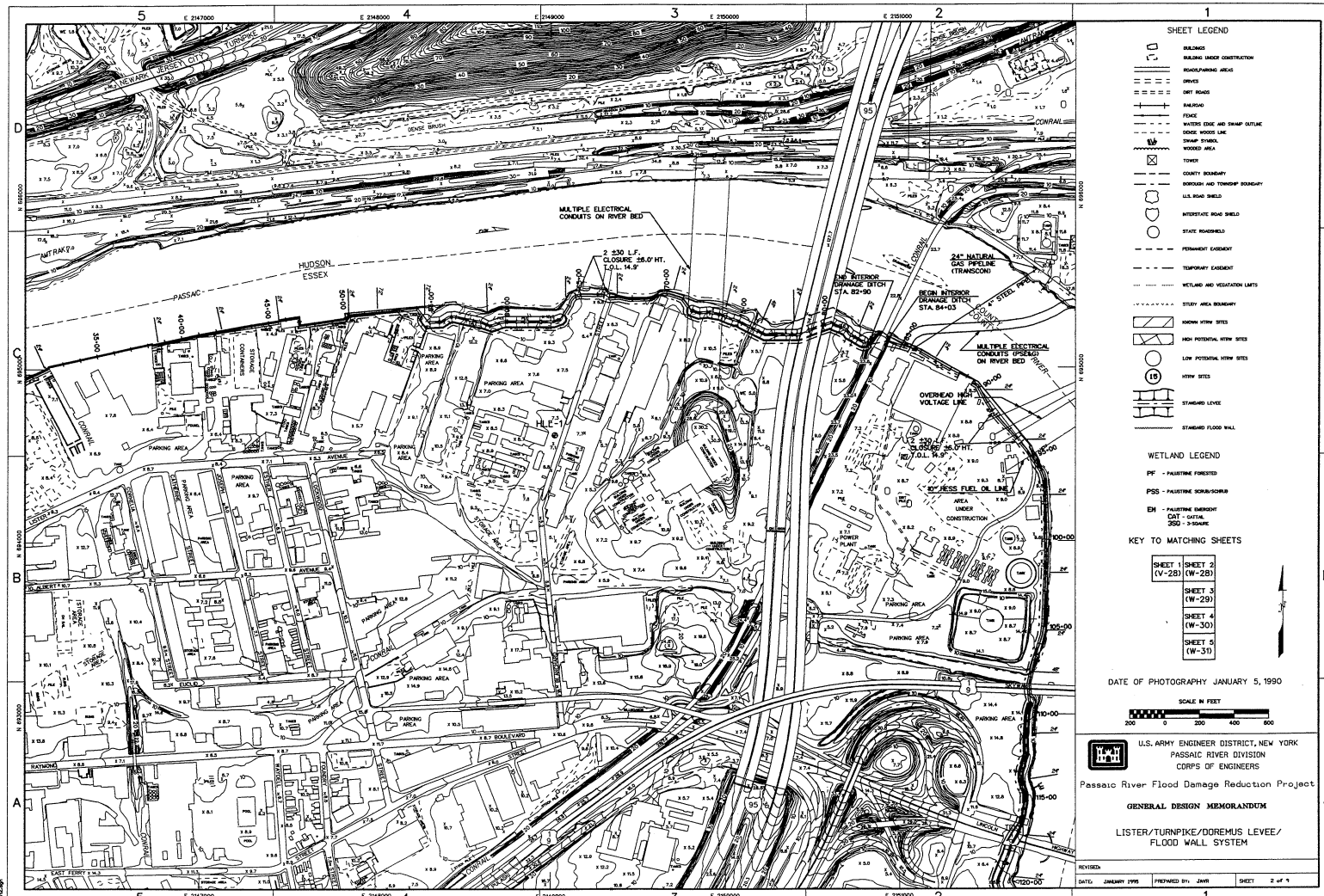


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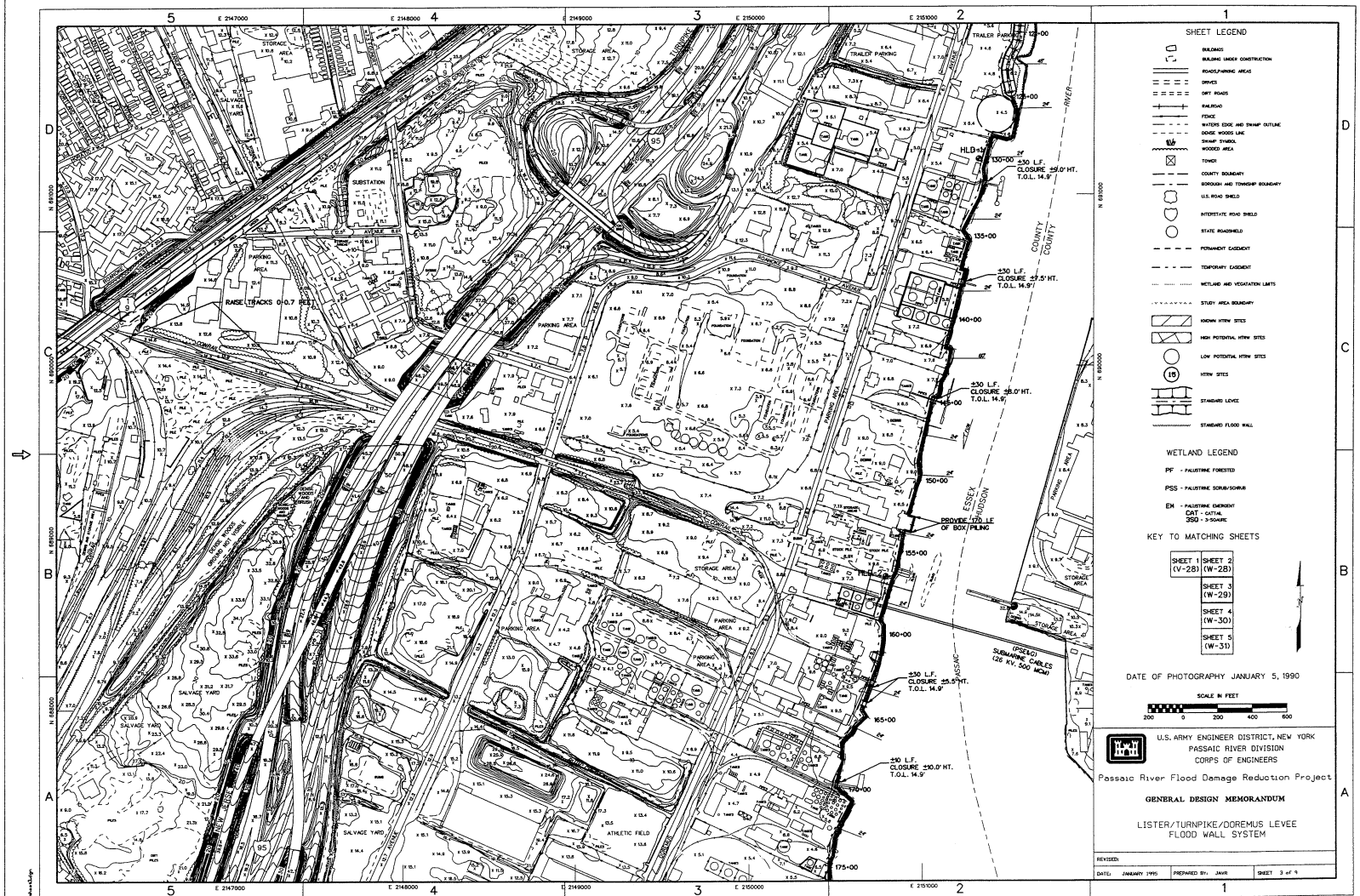


Figure C-90hh

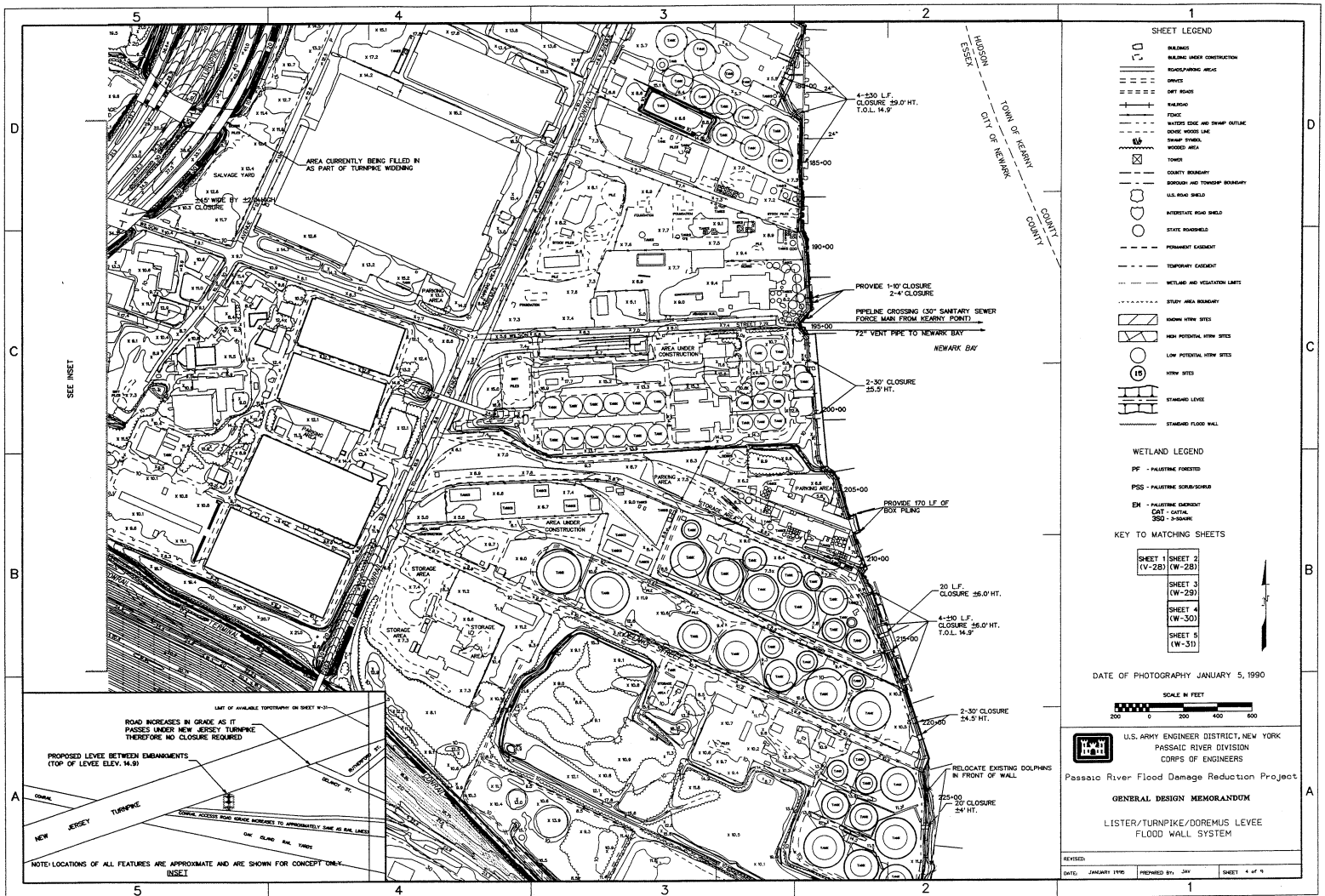


Figure C-90ii

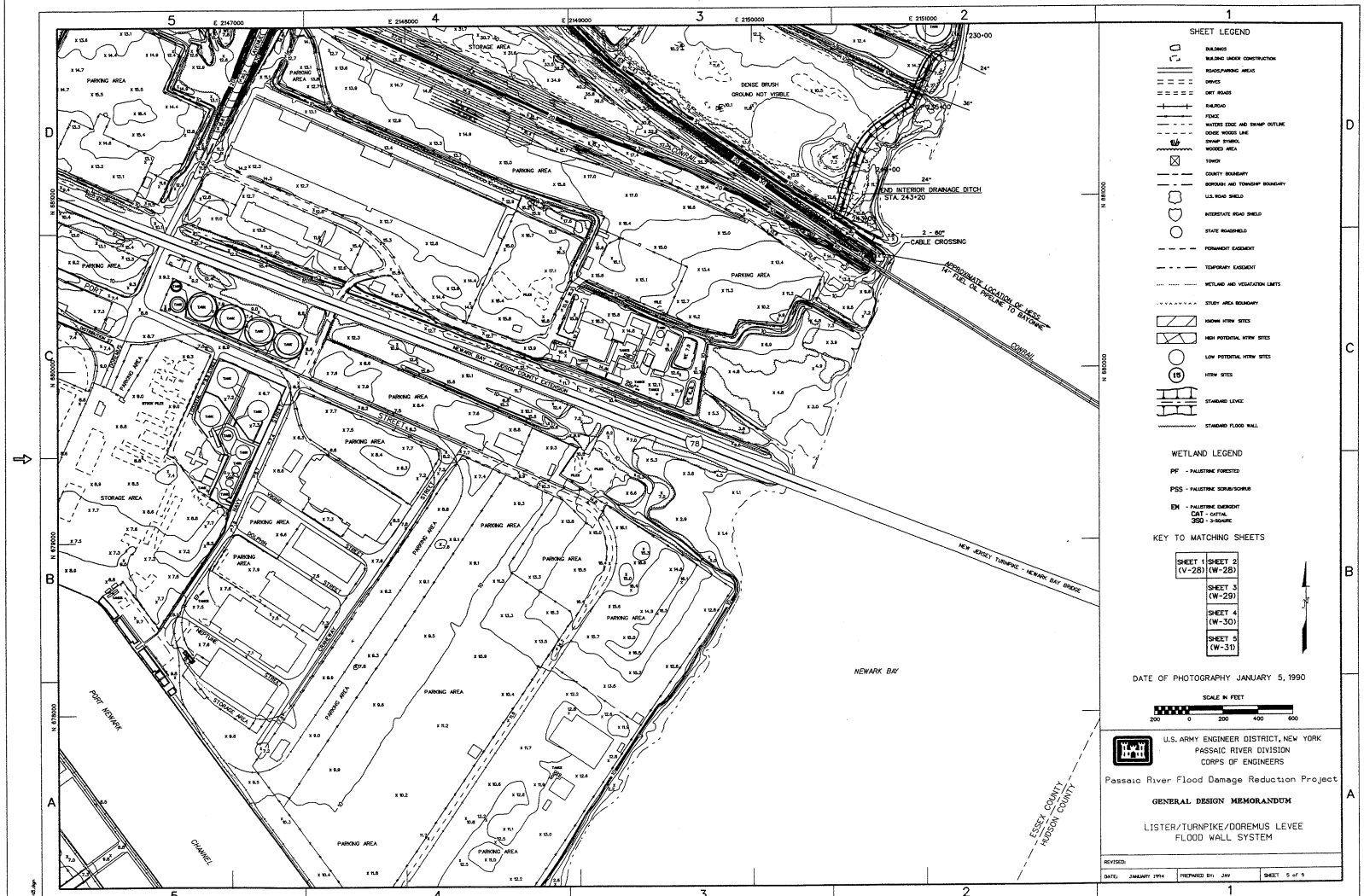


Figure C-90jj

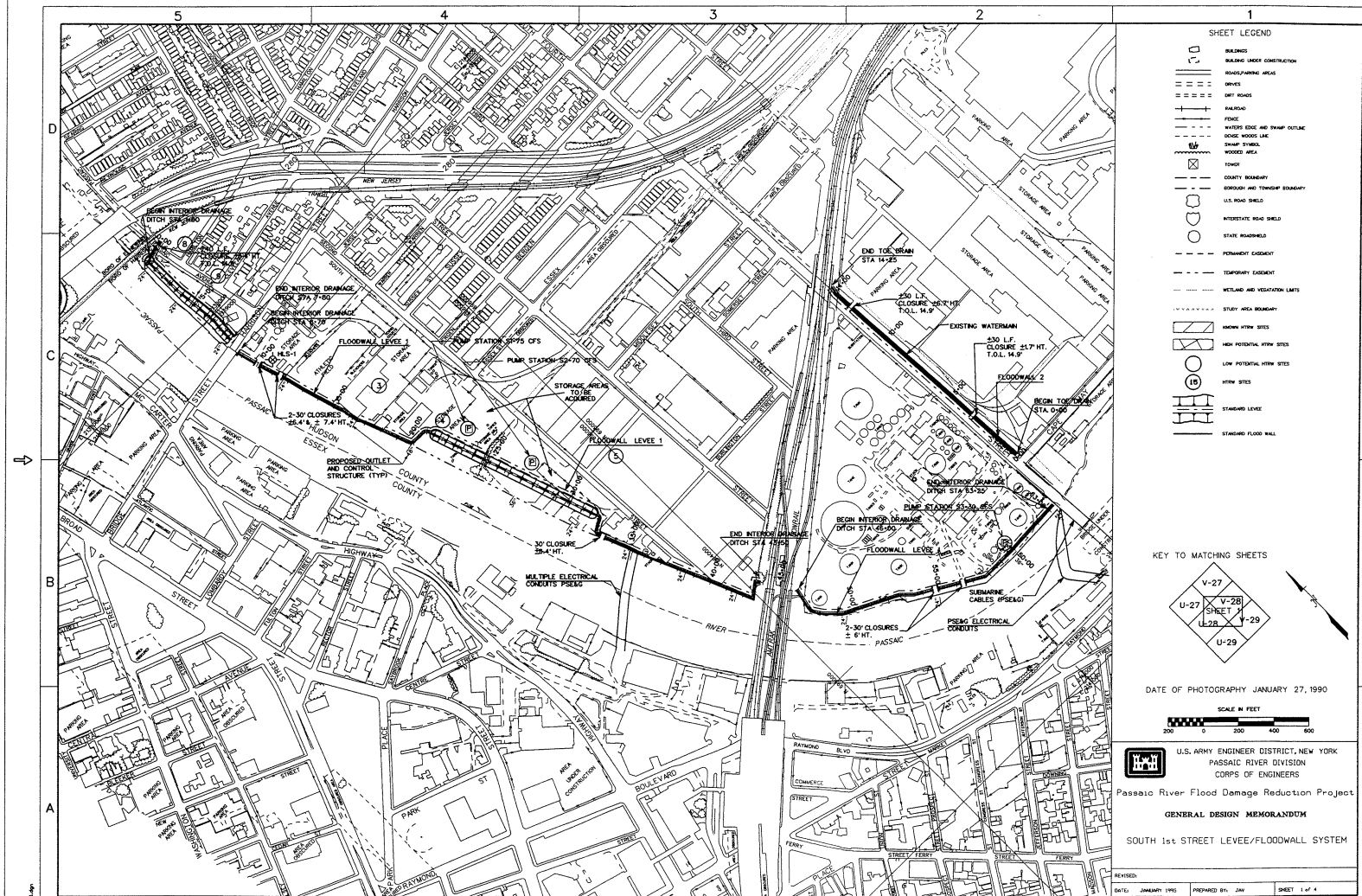


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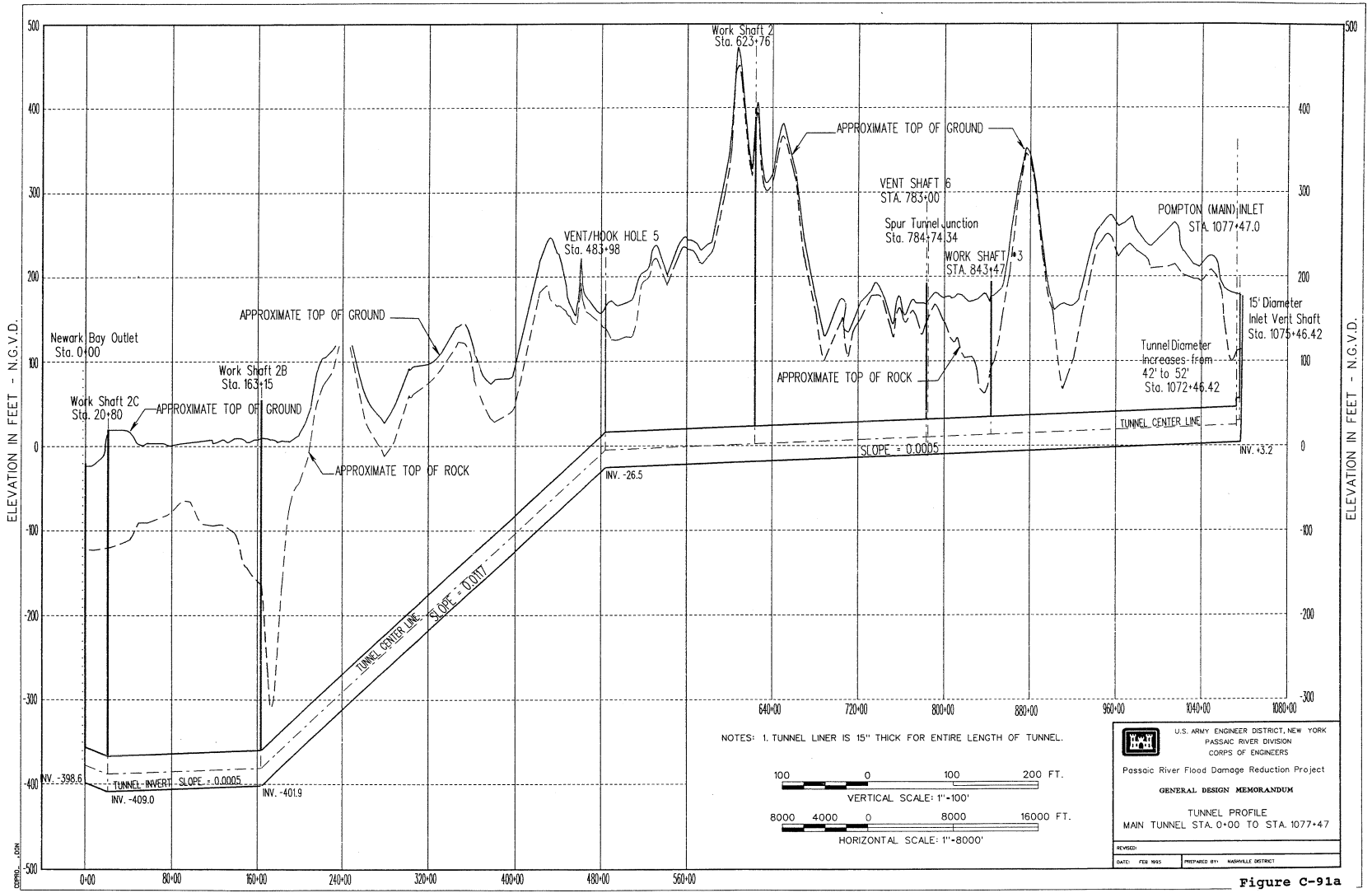
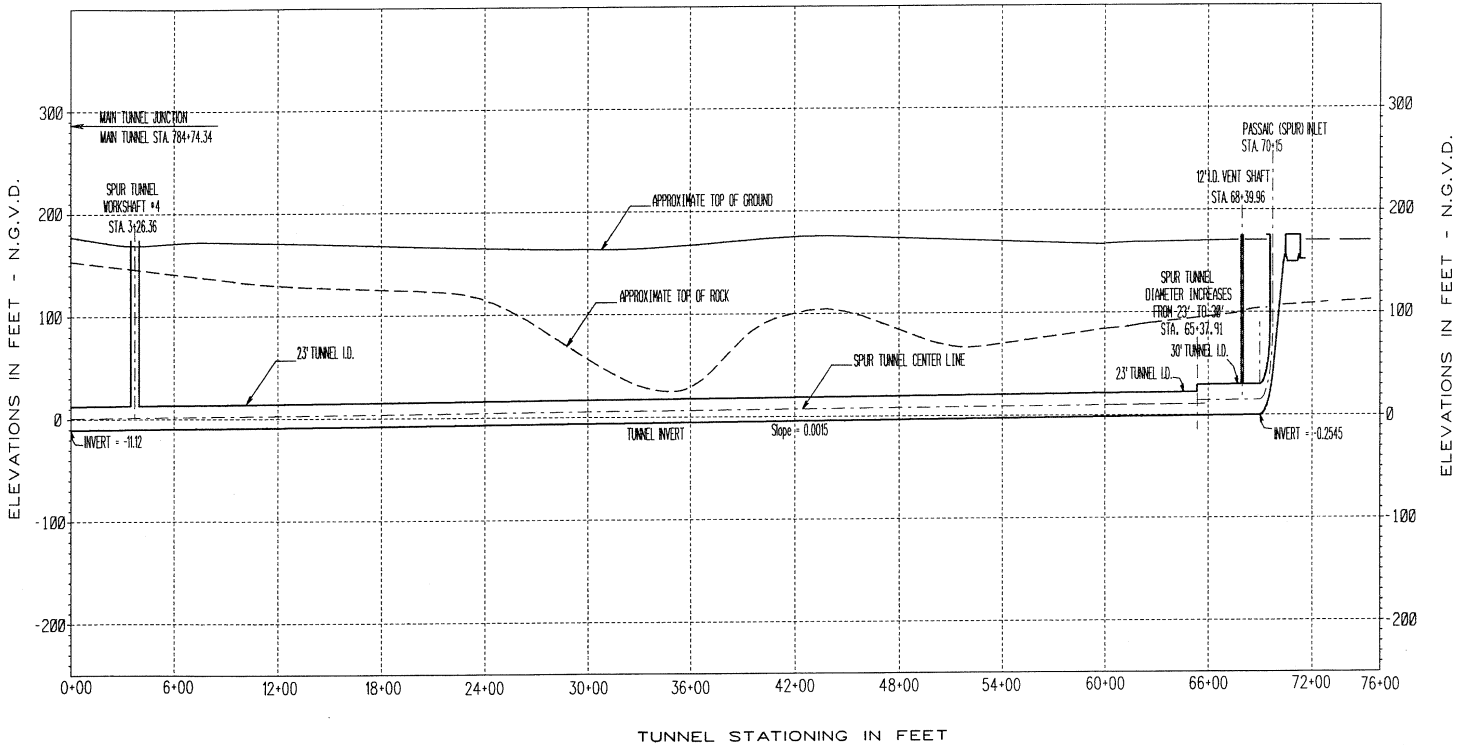

Work Shaft 2
Sta. 623+76
APPROXIMATE TOP OF GROUND
VENT SHAFT 6
STA. 783+00
Spur Tunnel Junction
Sta. 784+74.34
WORK SHAFT 3
STA. 843+47
POMPTON (MAIN) INLET
STA. 1077+47.0
VENT/HOOK HOLE 5
Sta. 483+98
15' Diameter
Inlet Vert Shaft
Sta. 1075+46.42
Tunnel Diameter
Increases from
42' to 52'
Sta. 1072+46.42
Newark Bay Outlet
Sta. 0+00
APPROXIMATE TOP OF GROUND
Work Shaft 2B
Sta. 163+15
Work Shaft 2C
Sta. 20+80
APPROXIMATE TOP OF GROUND
APPROXIMATE TOP OF ROCK
APPROXIMATE TOP OF ROCK
TUNNEL CENTER LINE
SLOPE = 0.0005
INV. +3.2
INV. -26.5
TUNNEL CENTER LINE, SLOPE = 0.0017
INV. -398.6
TUNNEL INVERT SLOPE = 0.0005
INV. -409.0
INV. -401.9
ELEVATION IN FEET - N.G.V.D.
ELEVATION IN FEET - N.G.V.D.
500
400
300
200
100
0
-100
-200
-300
-400
-500
0+00
80+00
160+00
240+00
320+00
400+00
480+00
560+00
640+00
720+00
800+00
880+00
960+00
1040+00
1080+00
TUNNEL STATIONING IN FEET
NOTES: 1. TUNNEL LINER IS 15" THICK FOR ENTIRE LENGTH OF TUNNEL.
100 0 100 200 FT.
VERTICAL SCALE: 1"=100'
8000 4000 0 8000 16000 FT.
HORIZONTAL SCALE: 1"=8000'
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
TUNNEL PROFILE
MAIN TUNNEL STA. 0+00 TO STA. 1077+47
REVISED:
DATE: FEB 1995
PREPARED BY: NASHVILLE DISTRICT

Figure C-91a



NOTES:
1. TUNNEL LINER IS 15' THICK FOR ENTIRE LENGTH OF TUNNEL.

100 50 0 100 200 FT
VERTICAL SCALE: 1"=100'

600 300 0 600 1200FT
HORIZONTAL SCALE: 1"=600'

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

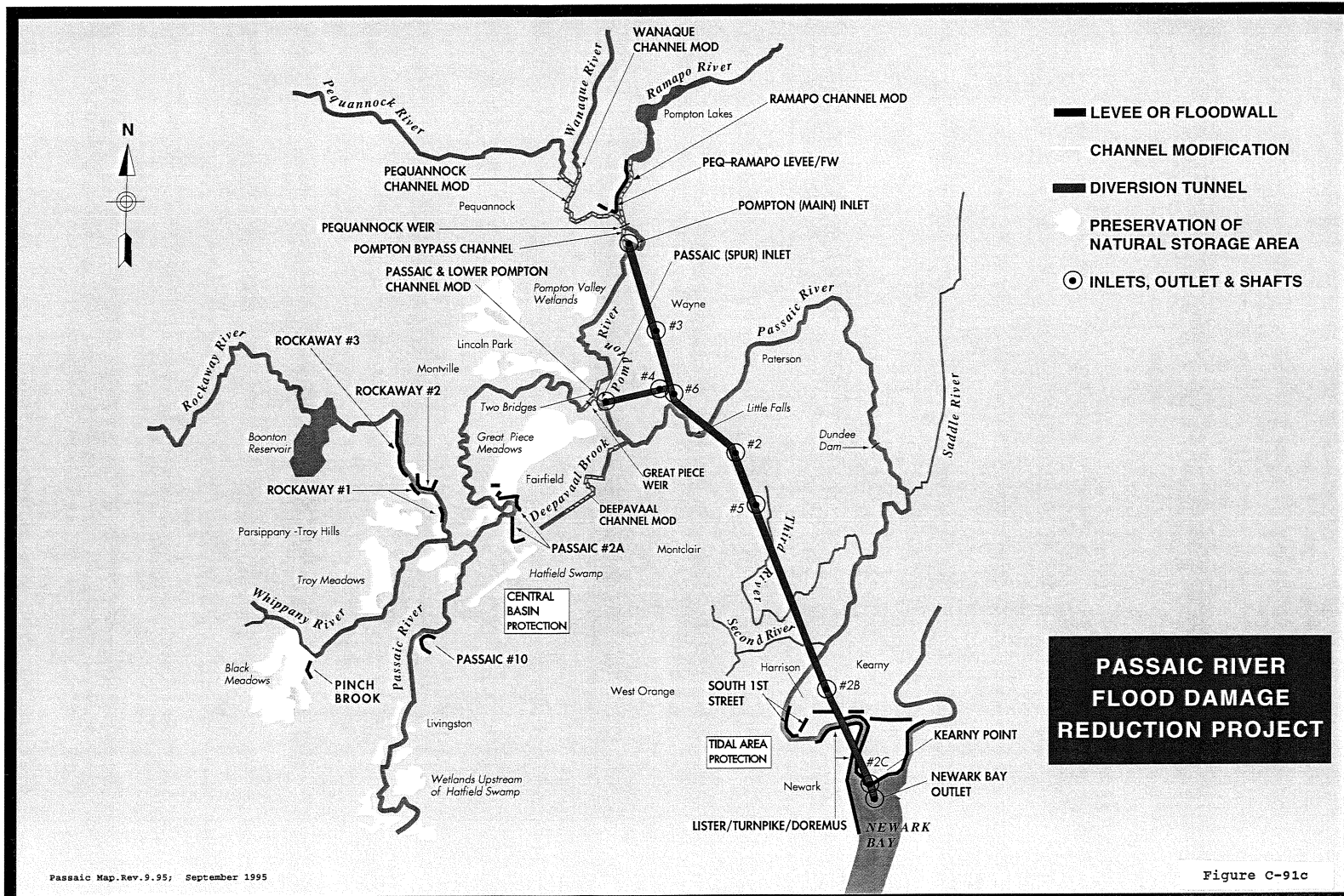
GENERAL DESIGN MEMORANDUM

TUNNEL PROFILE
SPUR TUNNEL STA. 0+00 TO 70+15

REVISED:
DATE: AUG 1995 PREPARED BY: Passaic River Division

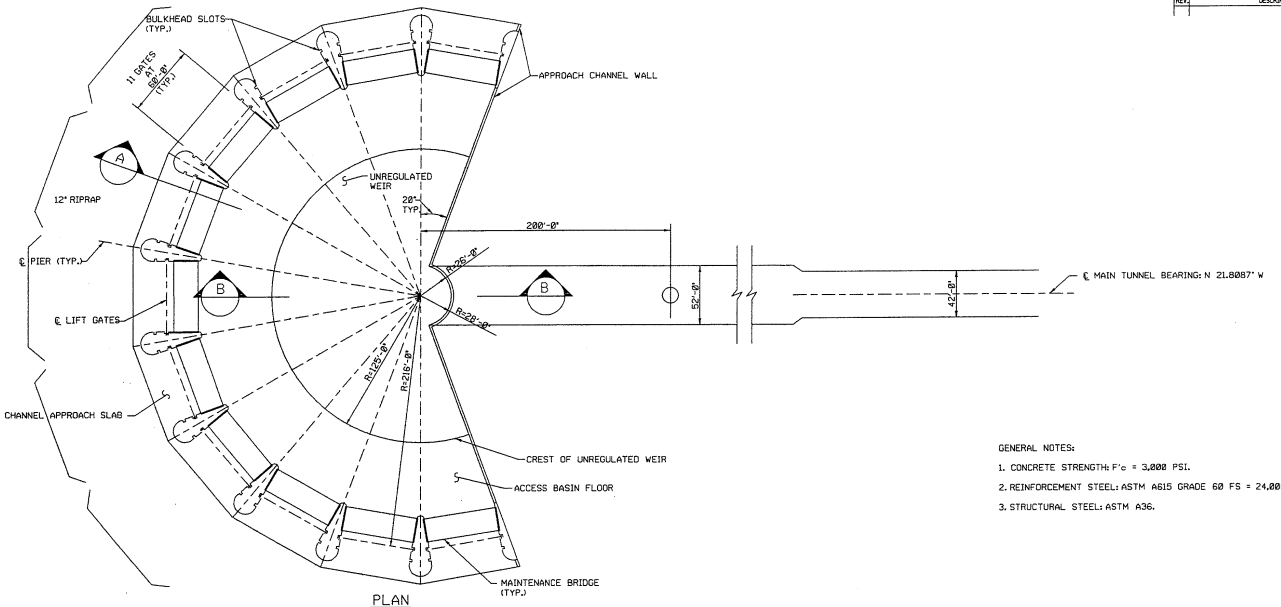
SPUR-PROJ.DGN

Figure C-91b



Passaic Map.Rev.9.95; September 1995

Figure C-91c



GENERAL NOTES:

1. CONCRETE STRENGTH: F'c = 3,000 PSI.
2. REINFORCEMENT STEEL: ASTM A615 GRADE 60 FS = 24,000 PSI.
3. STRUCTURAL STEEL: ASTM A36.

REVISIONS

REV.	DESCRIPTION	DATE	BY	APPROVED

SCALE: 0 2' 4' 8' 12'

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

POMPTON INLET
PLAN AND ELEVATION

REVISED:

DATE: 21 APRIL 1995 | PREPARED BY: NASHVILLE DISTRICT

TRC INTERNATIONAL, LTD.
CONSULTING ENGINEERS
ENG.JOB NO.94085

HNG-4-1.DGN

Figure C-92a

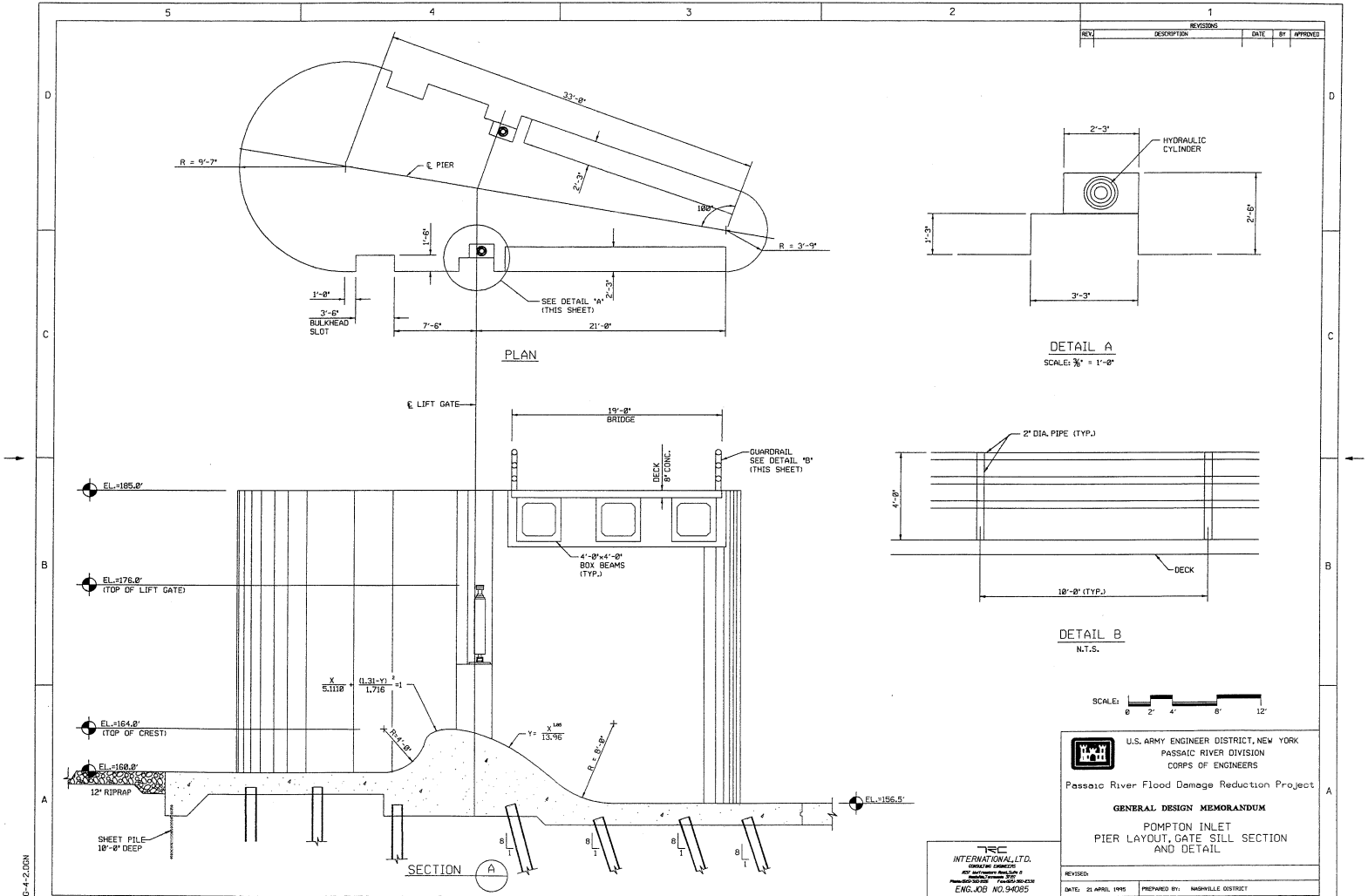

REVISIONS
REV. DESCRIPTION DATE BY APPROVED
33'-0"
R = 9'-7"
℄ PIER
2'-3"
100°
R = 3'-9"
1'-6"
1'-0"
3'-6" BULKHEAD SLOT
SEE DETAIL "A" (THIS SHEET)
2'-3"
7'-6"
21'-0"
PLAN
2'-3"
HYDRAULIC CYLINDER
1'-3"
2'-6"
3'-3"
DETAIL A
SCALE: 3/8" = 1'-0"
℄ LIFT GATE
19'-0" BRIDGE
DECK 8" CONC.
GUARDRAIL SEE DETAIL "B" (THIS SHEET)
EL.=185.0'
EL.=176.0' (TOP OF LIFT GATE)
4'-0"x4'-0" BOX BEAMS (TYP.)
2" DIA. PIPE (TYP.)
4'-0"
DECK
10'-0" (TYP.)
DETAIL B
N.T.S.
X/5.1110 + (1.31-Y)²/1.716 =1
EL.=164.0' (TOP OF CREST)
R=4'-0"
Y= X^1.85/13.96
R = 8'-0"
EL.=160.0'
12" RIPRAP
EL.=156.5'
SHEET PILE 10'-0" DEEP
8:1
SECTION A
SCALE: 0 2' 4' 8' 12'
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
POMPTON INLET
PIER LAYOUT, GATE SILL SECTION AND DETAIL
REVISED:
DATE: 21 APRIL 1995
PREPARED BY: NASHVILLE DISTRICT
TEC INTERNATIONAL,LTD.
CONSULTING ENGINEERS
ENG.JOB NO.94085
HNG-4-2.DGN

Figure C-92b

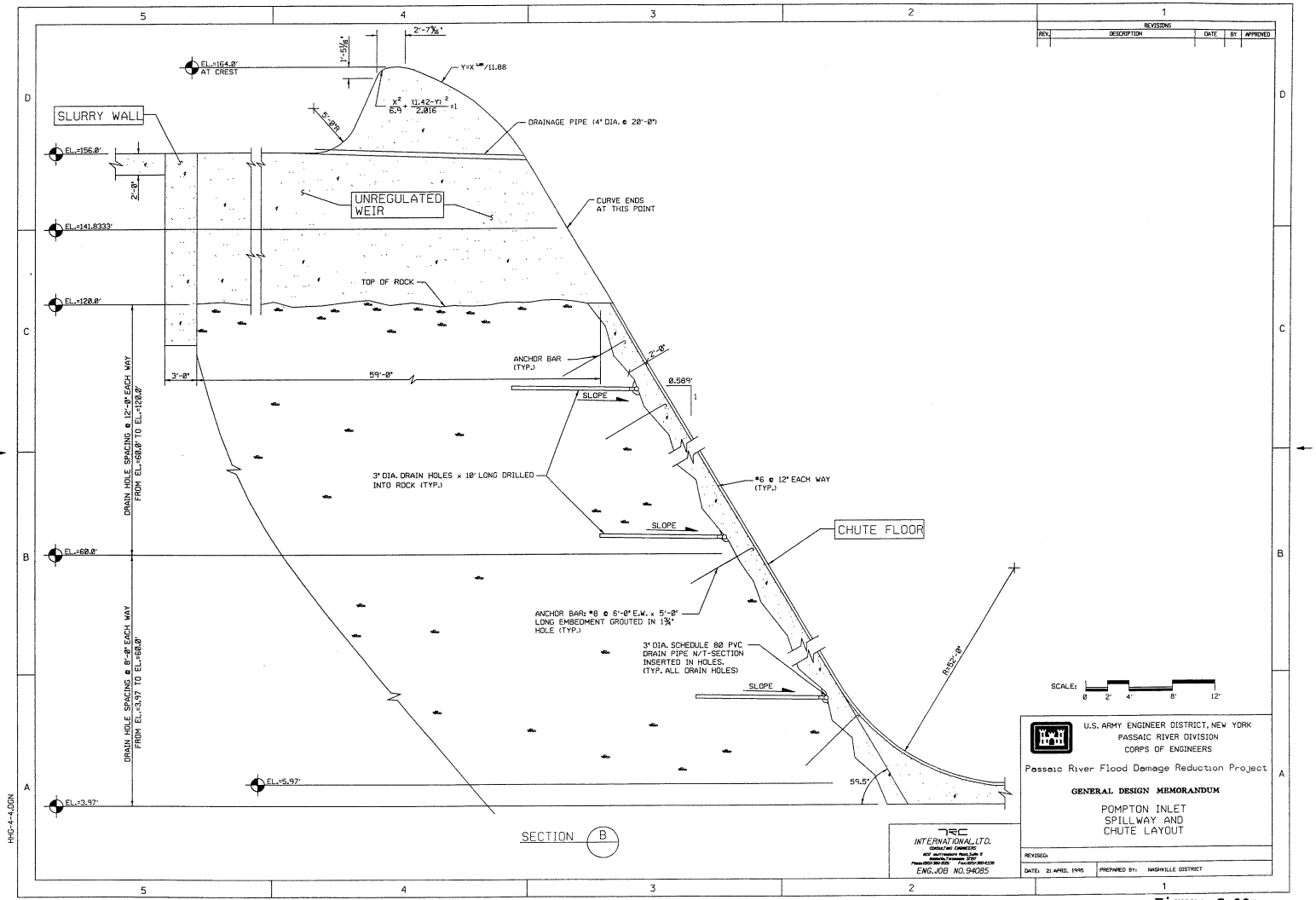
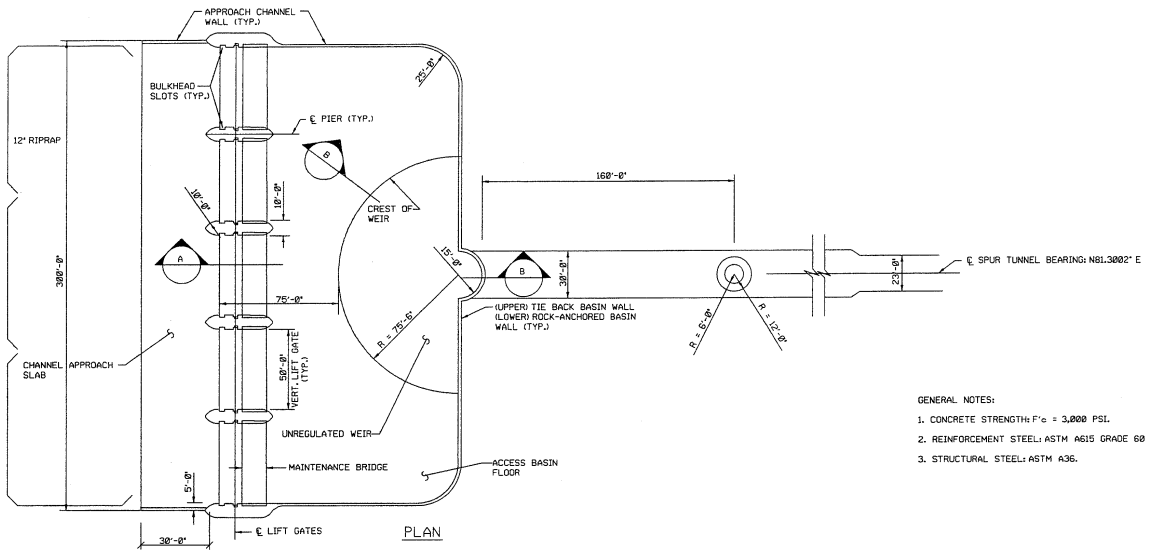

REVISIONS
REV. DESCRIPTION DATE BY APPROVED
EL.=164.0' AT CREST
1'-5/16"
2'-7 7/8"
Y=X^1.88/11.88
X²/5.9 + (11.42-Y)²/2.816 =1
5'-0"R
SLURRY WALL
DRAINAGE PIPE (4" DIA. @ 20'-0")
EL.=156.0'
2'-0"
UNREGULATED WEIR
CURVE ENDS AT THIS POINT
EL.=141.8333'
TOP OF ROCK
EL.=120.0'
ANCHOR BAR (TYP.)
2'-0"
3'-0"
59'-0"
0.589
1
SLOPE
DRAIN HOLE SPACING @ 12'-0" EACH WAY FROM EL.=69.0' TO EL.=120.0'
3' DIA. DRAIN HOLES x 10' LONG DRILLED INTO ROCK (TYP.)
#6 @ 12" EACH WAY (TYP.)
SLOPE
CHUTE FLOOR
EL.=69.0'
ANCHOR BAR: #8 @ 6'-0" E.W. x 5'-0" LONG EMBEDMENT GROUTED IN 1¾" HOLE (TYP.)
3' DIA. SCHEDULE 80 PVC DRAIN PIPE W/T-SECTION INSERTED IN HOLES. (TYP. ALL DRAIN HOLES)
SLOPE
R=52'-0"
DRAIN HOLE SPACING @ 8'-0" EACH WAY FROM EL.=3.97 TO EL.=69.0'
EL.=5.97'
59.5°
EL.=3.97'
SECTION B
SCALE: 0 2' 4' 8' 12'
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
POMPTON INLET SPILLWAY AND CHUTE LAYOUT
INTERNATIONAL,LTD. CONSULTING ENGINEERS
ENG.JOB NO.94085
REVISED:
DATE: 21 APRIL 1995
PREPARED BY: NASHVILLE DISTRICT
HEC-4-4.DGN

Figure C-92c



GENERAL NOTES:

1. CONCRETE STRENGTH: F'c = 3,000 PSI.
2. REINFORCEMENT STEEL: ASTM A615 GRADE 60 FS = 24,000 PSI.
3. STRUCTURAL STEEL: ASTM A36.

SCALE: 0 2' 4' 8' 12'

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

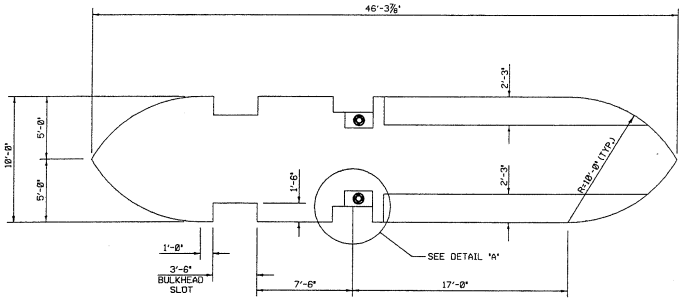
SPUR INLET
PLAN AND ELEVATION

INTERNATIONAL, LTD.
CONSULTING ENGINEERS
ENG. JOB NO. 94085

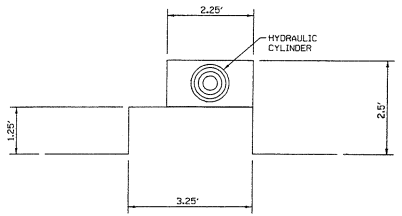
REVISED:

DATE: 21 APRIL 1995 | PREPARED BY: NASHVILLE DISTRICT

Figure C-93a

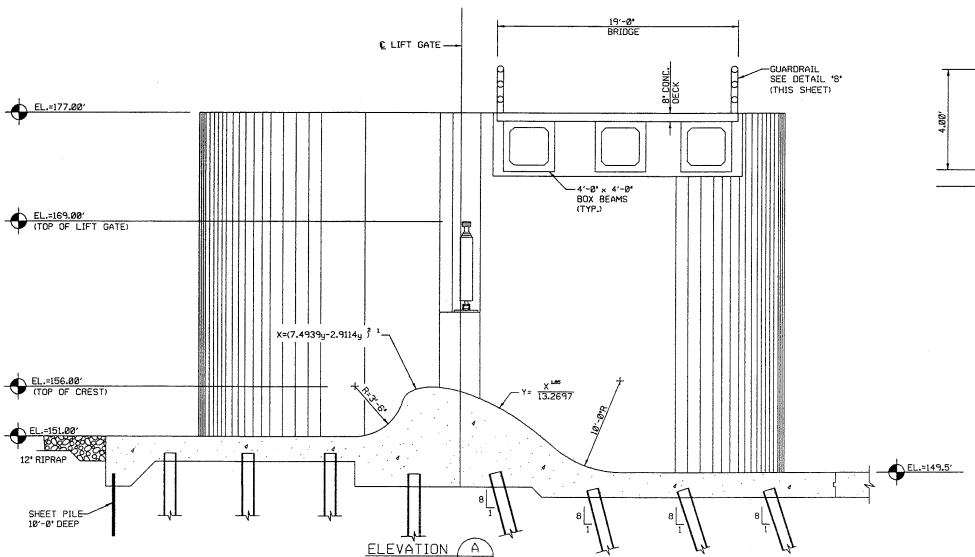


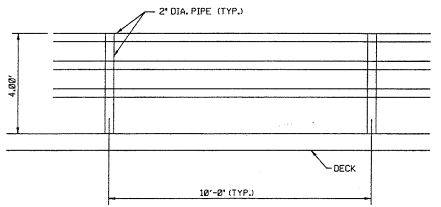
PLAN



DETAIL A

SCALE: ¾" = 1'-0"





DETAIL B

N.T.S.

SCALE: 0 2' 4' 8' 12'

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

SPUR INLET
PIER LAYOUT, GATE SILL SECTION
AND DETAIL

REVISED:

DATE: 21 APRIL 1995 | PREPARED BY: NASHVILLE DISTRICT

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INTERNATIONAL, LTD.
CONSULTING ENGINEERS
ENG. JOB NO. 94085

HNG-5-2.DGN

Figure C-93b

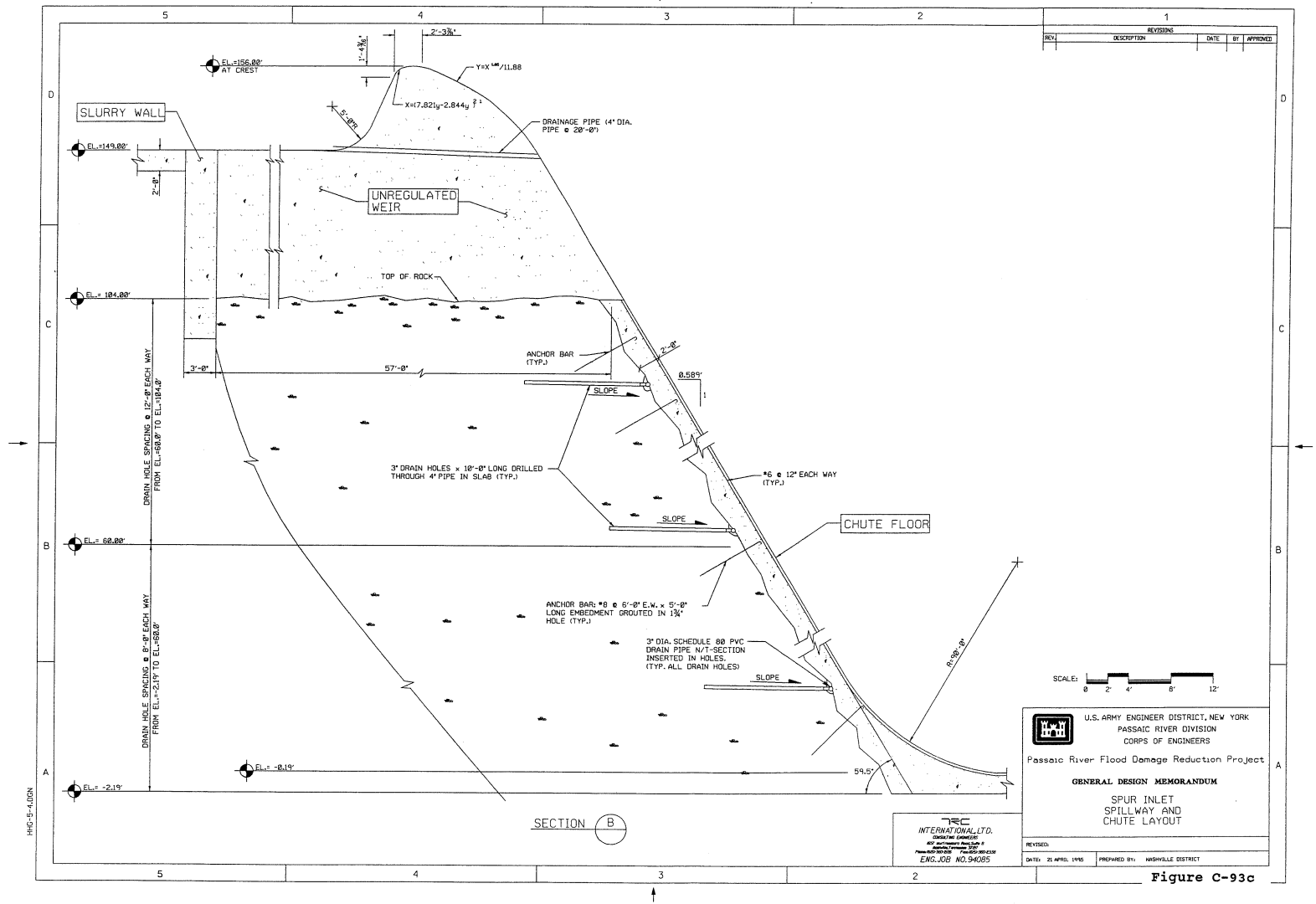
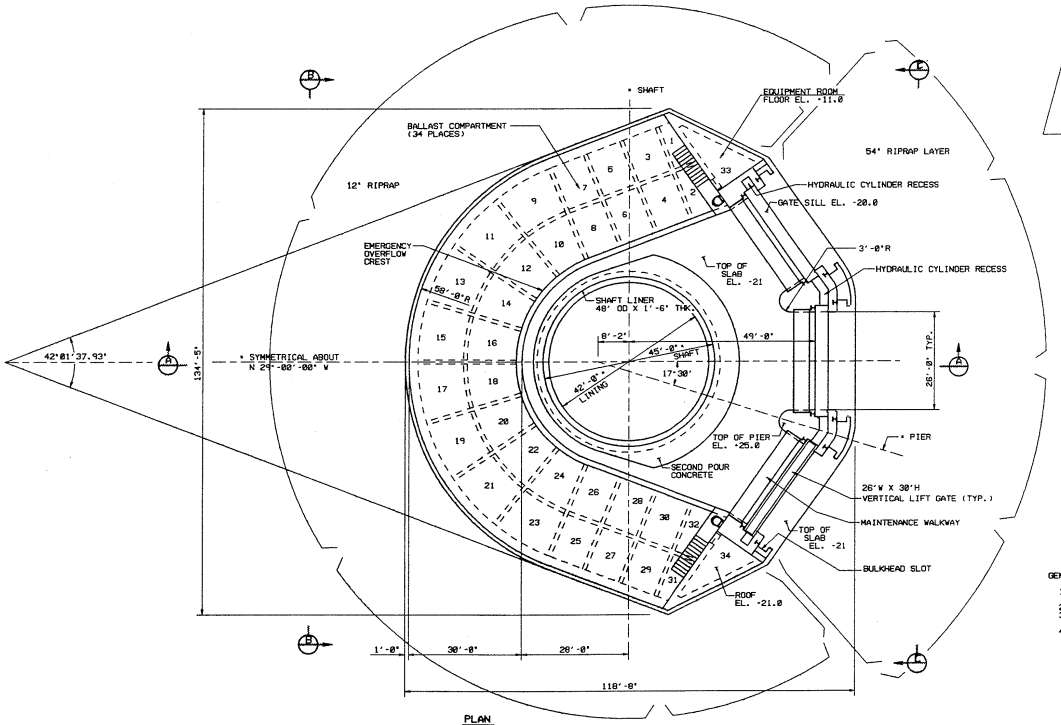

REVISIONS
REV. DESCRIPTION DATE BY APPROVED
SLURRY WALL
UNREGULATED WEIR
EL.=156.00' AT CREST
Y=X^1.85/11.88
x=(7.821y-2.844y^2)^1.1
2'-3⅞"
1'-4⅞"
5'-10⅝"
DRAINAGE PIPE (4" DIA. PIPE @ 20'-0")
EL.=149.00'
2'-0"
TOP OF ROCK
EL.= 104.00'
3'-0"
57'-0"
ANCHOR BAR (TYP.)
2'-0"
0.589'
SLOPE
DRAIN HOLE SPACING @ 12'-0" EACH WAY FROM EL.=60.0' TO EL.=104.0'
3" DRAIN HOLES x 10'-0" LONG DRILLED THROUGH 4" PIPE IN SLAB (TYP.)
#6 @ 12" EACH WAY (TYP.)
CHUTE FLOOR
EL.= 60.00'
ANCHOR BAR: #8 @ 6'-0" E.W. x 5'-0" LONG EMBEDMENT GROUTED IN 1¾" HOLE (TYP.)
3" DIA. SCHEDULE 80 PVC DRAIN PIPE W/T-SECTION INSERTED IN HOLES. (TYP. ALL DRAIN HOLES)
R=300.0'
DRAIN HOLE SPACING @ 8'-0" EACH WAY FROM EL.=-2.19' TO EL.=60.0'
EL.= -0.19'
59.5'
EL.= -2.19'
SECTION B
SCALE: 0 2' 4' 6' 12'
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
SPUR INLET SPILLWAY AND CHUTE LAYOUT
REVISED:
DATE: 21 APRIL 1995
PREPARED BY: NASHVILLE DISTRICT
TEC INTERNATIONAL, LTD.
ENG. JOB NO. 94085
HNG-5-4.DGN

Figure C-93c



PLAN

12" RIPRAP

GENERAL NOTES:

1. OUTLET STRUCTURE SHALL BE CONSTRUCTED OFF-SITE AND FLOATED TO FINAL POSITION.
2. CONCRETE STRENGTH: f'_c = 4000 PSI.
3. REINFORCEMENT STEEL: ASTM A615 GRADE 60 FS - 24,000 PSI.
4. STRUCTURAL STEEL: ASTM A36.

SCALE: 1"= 10'

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

OUTLET STRUCTURE
PLAN

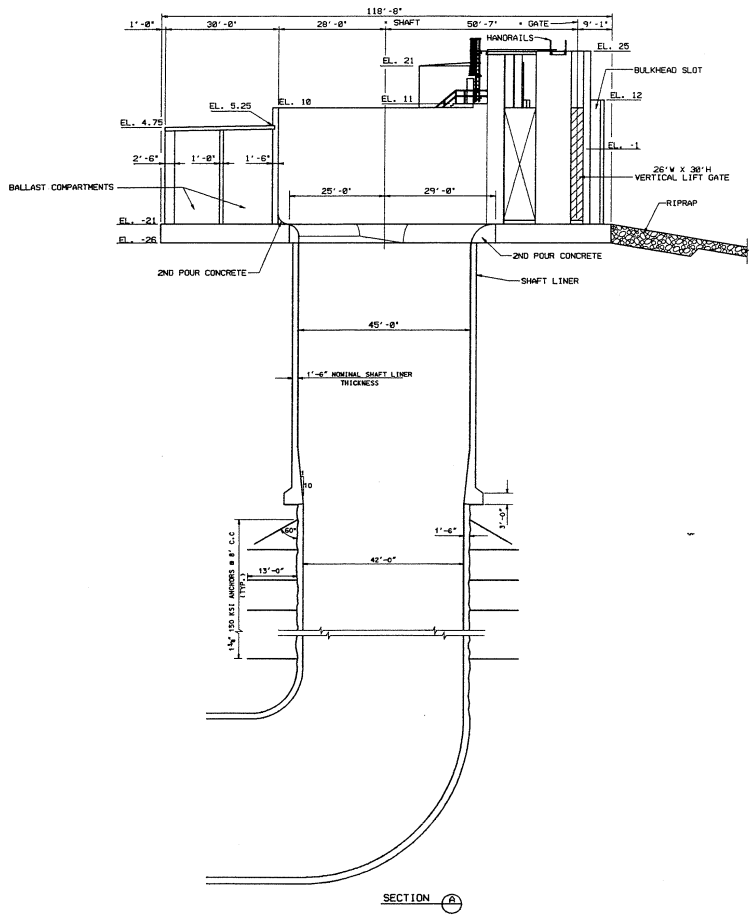
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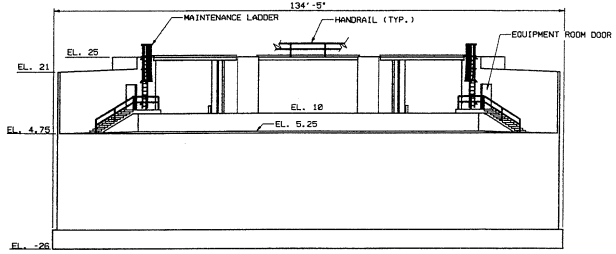
DATE: 12 JANUARY 1995 PREPARED BY: NASHVILLE DISTRICT

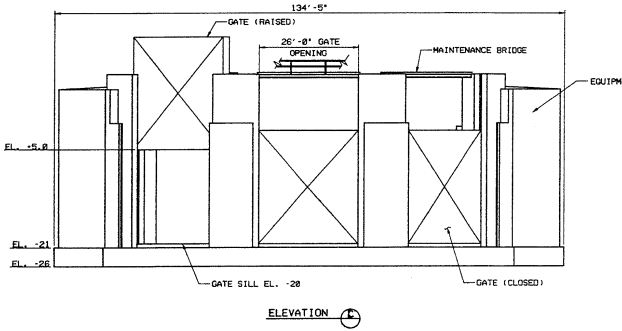
COMPUTER AIDED DESIGN & DRAFTING

HHDGATE2.DGN

Figure C-94a







10 5 0 10 20FT
SCALE: 1"= 10'

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

OUTLET STRUCTURE
ELEVATIONS & SECTIONS

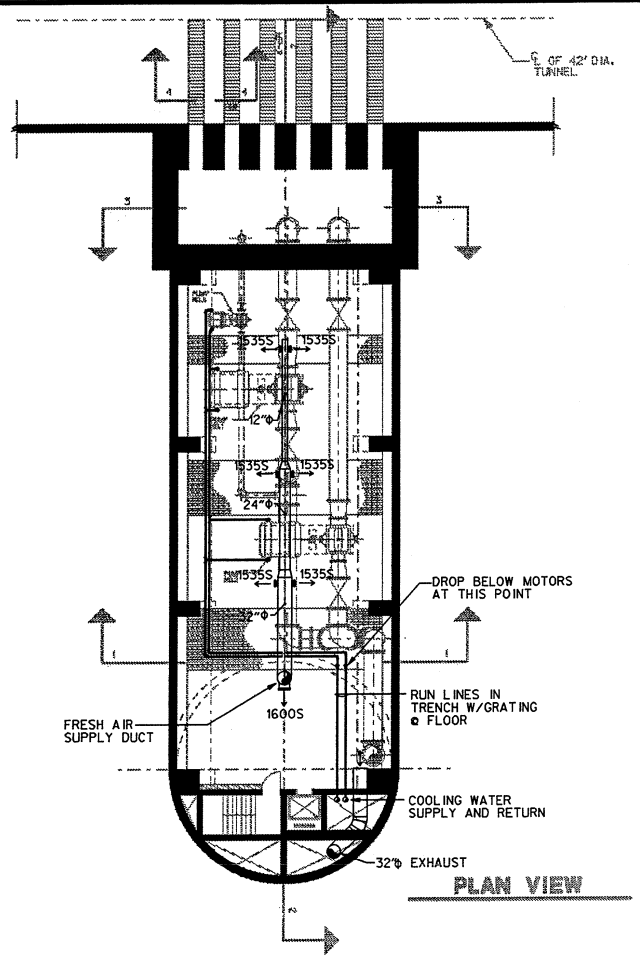
REVISED:

DATE: 12 JANUARY 1995 PREPARED BY: NASHVILLE DISTRICT

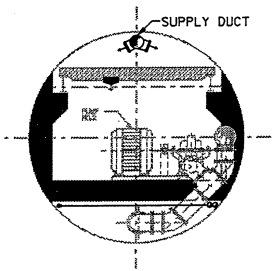
Computer Aided Design & Drafting

HHDGATE3.DGN

Figure C-94b



PLAN VIEW



SECTION NO.1

20' 0 20'

SCALE : 1" = 20'-0"

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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

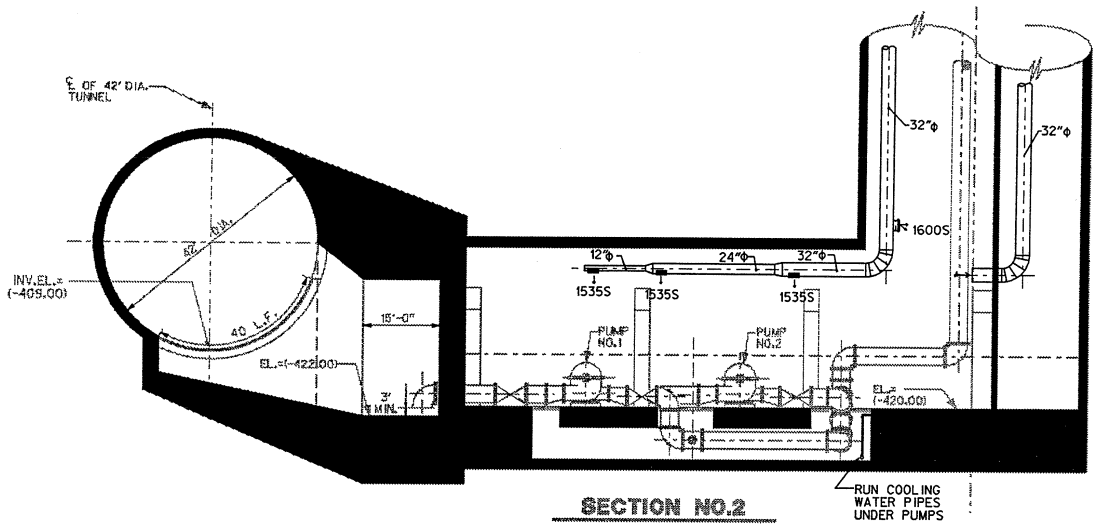
TUNNEL PUMP STATION PLAN
PUMP LEVEL

GRESHAM, SMITH AND PARTNERS
Birmingham · Jacksonville · Nashville

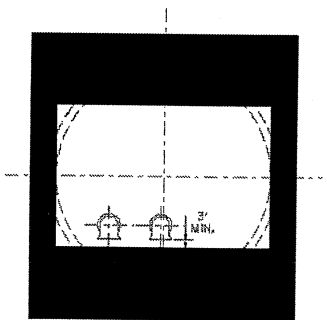
REVISED

DATED 24 APRIL 1995 PREPARED BY: NASHVILLE DISTRICT

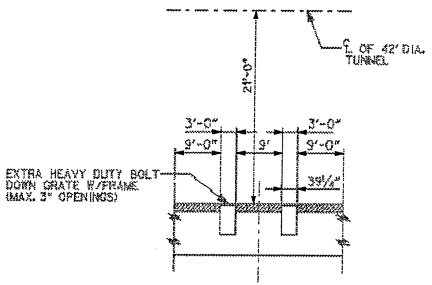
Figure C-95a



SECTION NO.2



SECTION NO.3



SECTION NO.4

20' 0 20'

SCALE : 1" = 20'-0"

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

TUNNEL PUMP STATION
PUMP LEVEL SECTIONS

GRESHAM, SMITH AND PARTNERS
Birmingham · Jacksonville Nashville

REVISED:

DATE: 24 APRIL 1995 PREPARED BY: NASHVILLE DISTRICT

Figure C-95b

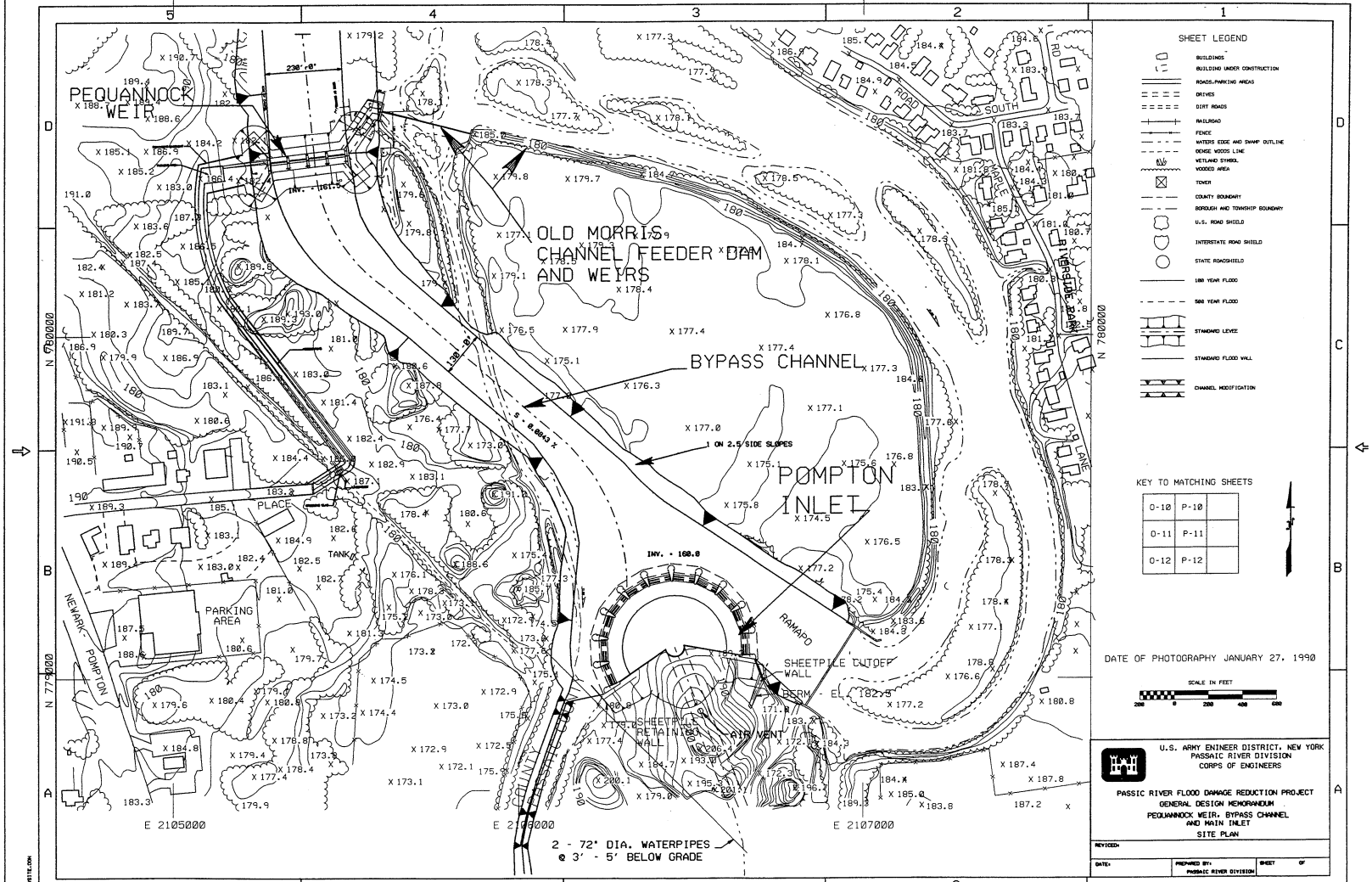
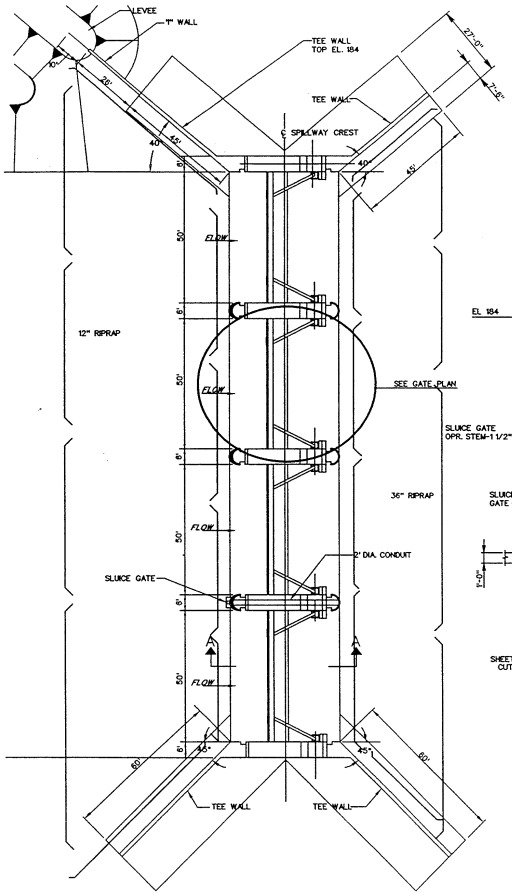
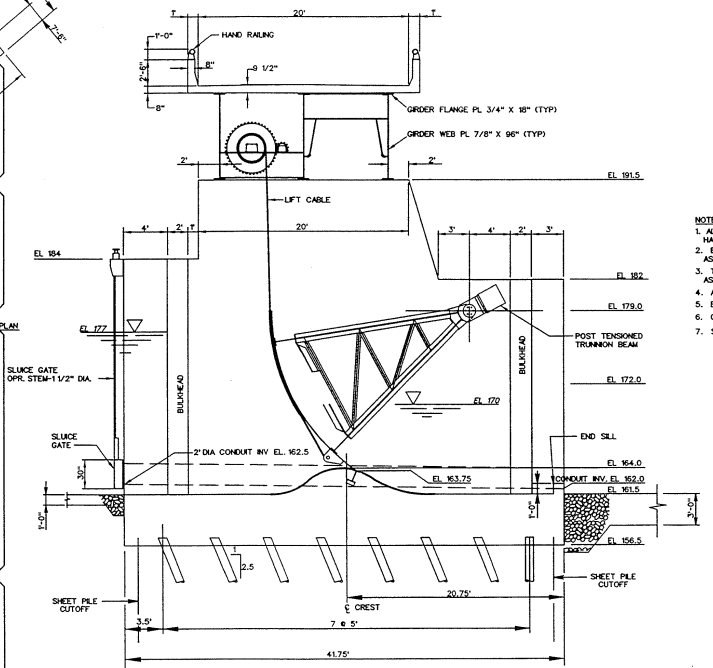

PEQUANNOCK WEIR
OLD MORRIS CHANNEL FEEDER DAM AND WEIRS
BYPASS CHANNEL
POMPTON INLET
1 ON 2.5 SIDE SLOPES
SHEETPILE CUTOFF WALL
BERM - EL 182.5
RAMAPO
SHEETPILE RETAINING WALL
AIR VENT
2 - 72" DIA. WATERPIPES @ 3' - 5' BELOW GRADE
INV. = 160.0
INV. = 161.5
230' @
130' @
PARKING AREA
TANK
NEWARK - POMPTON
PLACE
ROAD
SOUTH
LANE
E 2105000
E 2106000
E 2107000
N 780000
N 779000
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD
500 YEAR FLOOD
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
KEY TO MATCHING SHEETS
O-10
P-10
O-11
P-11
O-12
P-12
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
200 0 200 400 600
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
PASSIC RIVER FLOOD DAMAGE REDUCTION PROJECT
GENERAL DESIGN MEMORANDUM
PEQUANNOCK WEIR, BYPASS CHANNEL AND MAIN INLET
SITE PLAN
REVISED:
DATE:
PREPARED BY: PASSAIC RIVER DIVISION
SHEET OF

Figure C-96a



PLAN OF WEIR (BRIDGE REMOVED)
SCALE: 1" = 40'-0"



SECTION A-A
SCALE: 1" = 10'-0"

NOTES:
1. ALL CONCRETE (WEIR, WINGWALLS & BRIDGE DECK) SHALL HAVE COMPRESSIVE STRENGTH OF 4,000 PSI.
2. BRIDGE STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
3. TAINTER GATE STRUCTURAL STEEL SHALL CONFORM TO ASTM A572, GRADE 50.
4. ALL PILES SHALL BE TIMBER-12" DIA. TAPERING TO 7".
5. ESTIMATED PILE TIP ELEVATION IS EL. 127.
6. CONDUIT AND SLUICE GATE ARE IN ONE PIER ONLY.
7. SEE PLATE NO. G-9-12 FOR DETAILS OF WINGWALLS.

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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

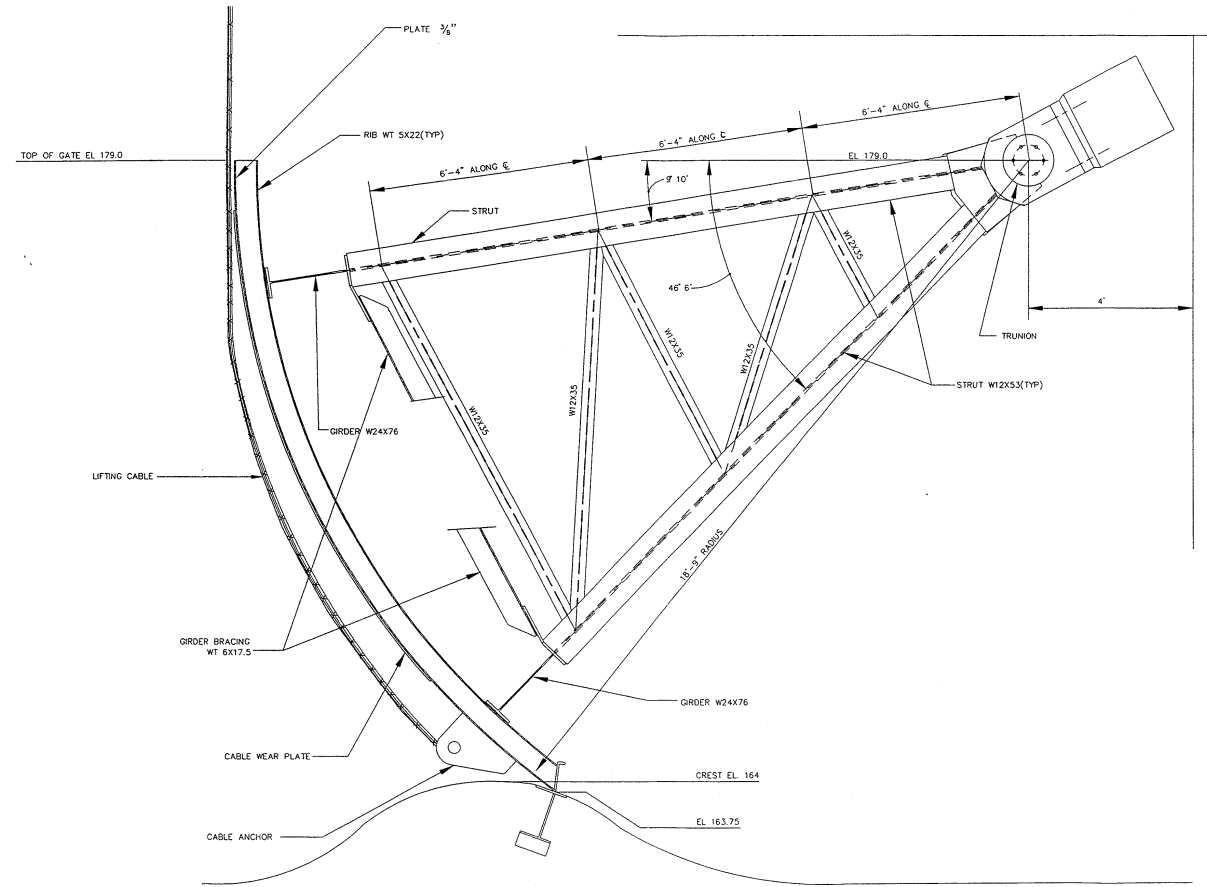
GENERAL DESIGN MEMORANDUM

PEQUANNOCK WEIR
PLAN AND SECTION

REVISED:
DATE:
PREPARED BY: PHILADELPHIA DISTRICT

PROJTO3.DGN

Figure C-96b



ELEVATION
NOT TO SCALE

NOTES:
1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A572 GRADE 50.
2. FOUR (4) TAINTER GATES REQUIRED.

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

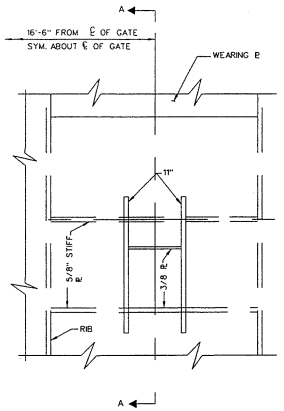
GENERAL DESIGN MEMORANDUM

PEQUANNOCK WEIR
ELEVATION-TAINTER GATE

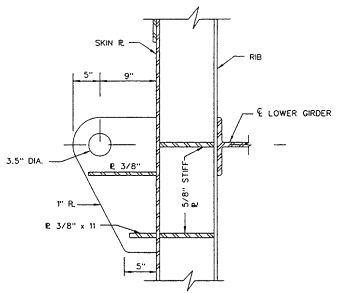
REVISED:
DATE 19 JAN 95 | PREPARED BY: PHILADELPHIA DISTRICT

PROJDTOS.DGN

Figure C-96c



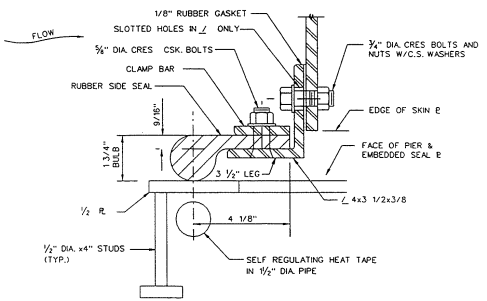
ELEVATION



SECTION A-A

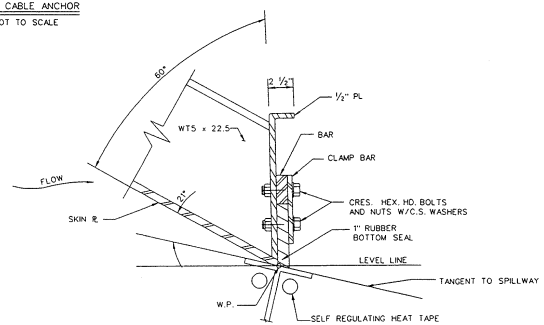
LIFTING CABLE ANCHOR

NOT TO SCALE



TYPICAL SIDE SEAL SECTION

NOT TO SCALE



TYPICAL BOTTOM SEAL SECTION

NOT TO SCALE

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

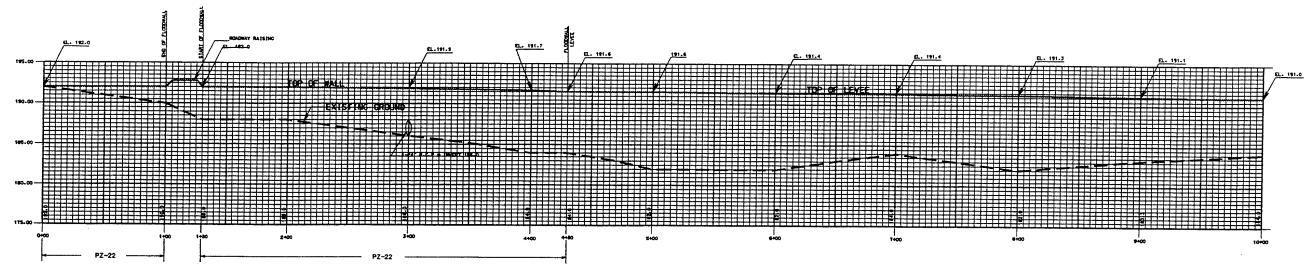
TAINTER GATE DETAILS

REVISED:	
DATE:	PREPARED BY: PHILADELPHIA DISTRICT

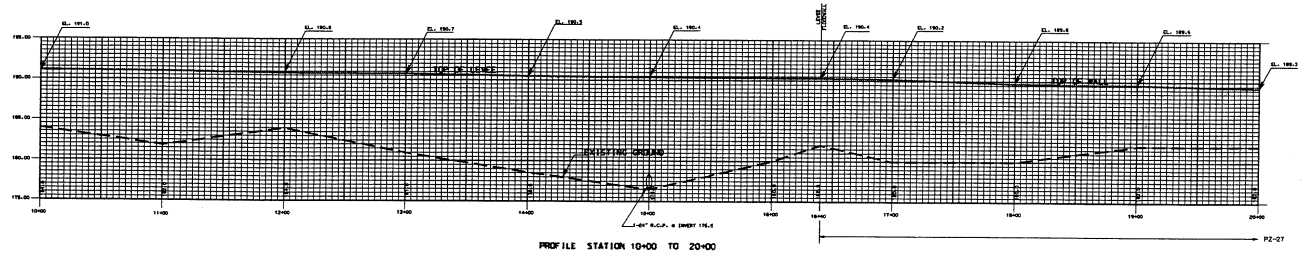
PROJECTION

E 2101000 E 2102000 E 2103000

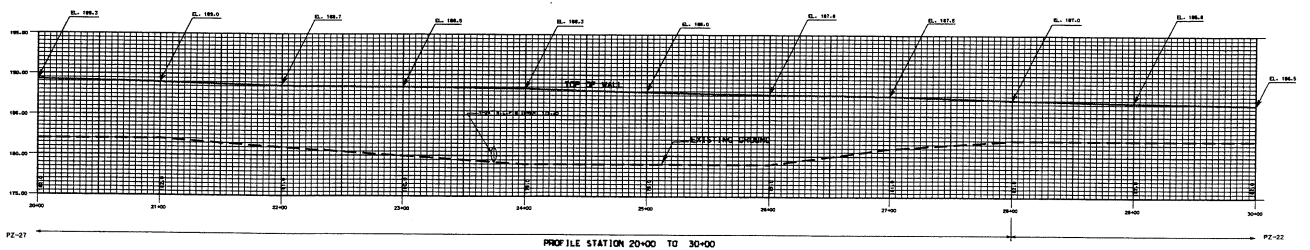
Figure C-96d



PROFILE STATION 0+00 TO 10+00



PROFILE STATION 10+00 TO 20+00



PROFILE STATION 20+00 TO 30+00

SCALE IN FEET

HORIZONTAL 50 0 25 50 75 100

VERTICAL 5 0 5 10 15

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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

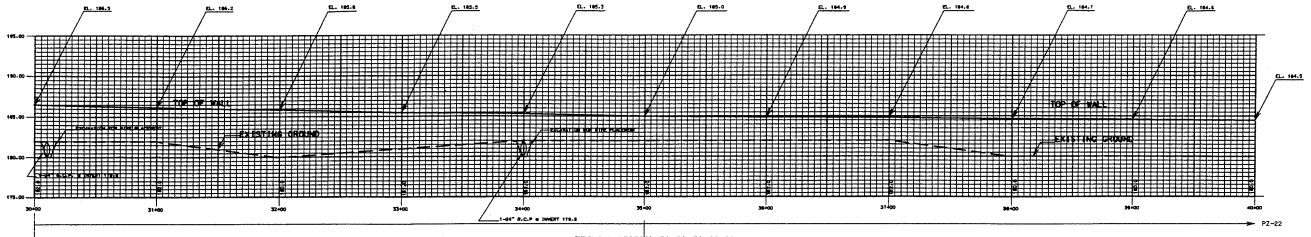
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

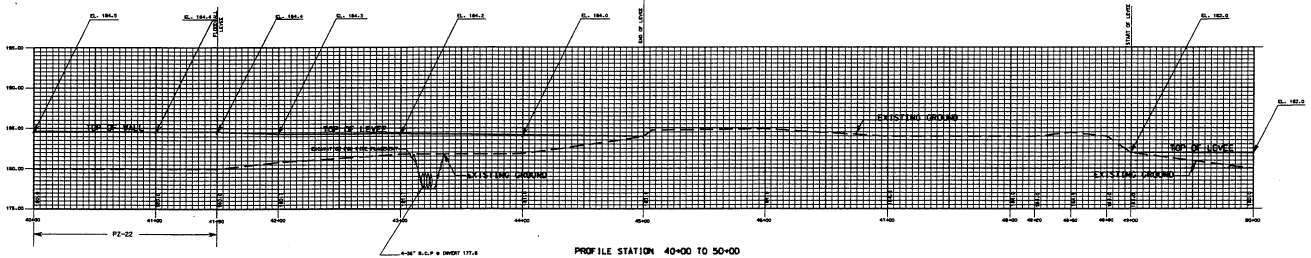
PEQUANNOCK-RAMAPO LEVEE/FLOODWALL SYSTEM
PROFILE DRAWINGS
STATION 0+00 TO 30+00

REVISED:		
DATE:	PREPARED BY:	SHEET

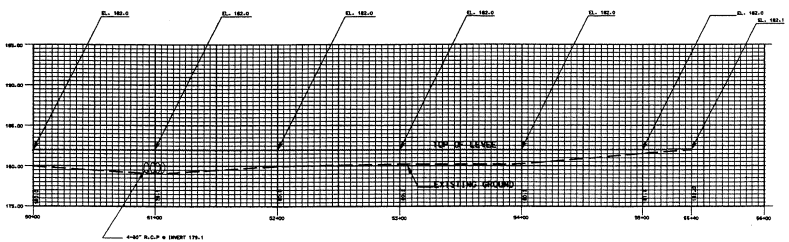
Figure C-97a



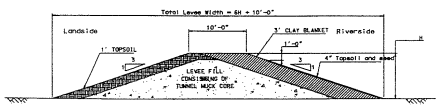
PROFILE STATION 30+00 TO 40+00



PROFILE STATION 40+00 TO 50+00



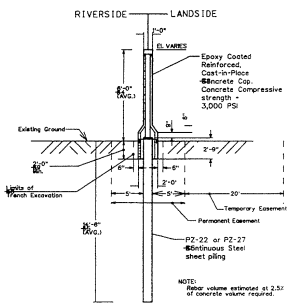
PROFILE STATION 50+00 TO 56+00



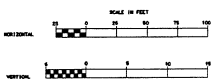
PEQUANNOCK/RAMAPO
PROPOSED LEVEE DETAIL
SCALE: N.T.S.

Levee Construction Sequence

1. Strip about 6" depth below the levee to remove all surface vegetation and debris. Also grub to a 3' depth to remove all large vegetation & debris such as tree roots, old foundations, and piles.
2. Excavate inspection trench with 5' width and 1V/1H side slopes with height trench = height levee but less than or equal to 6'. After trench inspection, replace soil and recompact to at least original in-situ conditions.
3. Haul in levee fill from offsite and compact to 90% standard proctor density. Place compacted soils organic in nature in thin spread lift over the levee surface to prevent grass roots from cover approximate 6" layer.
4. Provide 4" of topsoil (or stripped organic materials), seeding and an erosion control mat over the levee surface.



PEQUANNOCK-RAMAPO
PROPOSED FLOODWALL DETAIL
SCALE: N.T.S



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Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

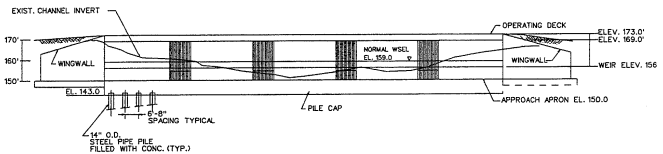
PEQUANNOCK-RAMAPO LEVEE/FLOODWALL SYSTEM

PROFILE GRAPHICS

STATION 30+00 TO 56+00

REVISED:		
DATE:	PREPARED BY:	SHEET

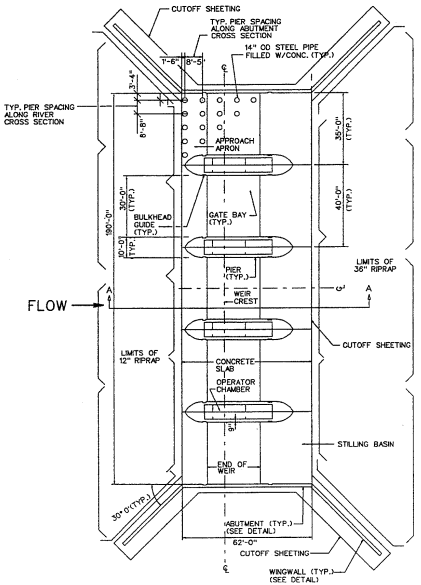
Figure C-97b



UPSTREAM WEIR ELEVATION

SCALE: 1" = 50'-0"

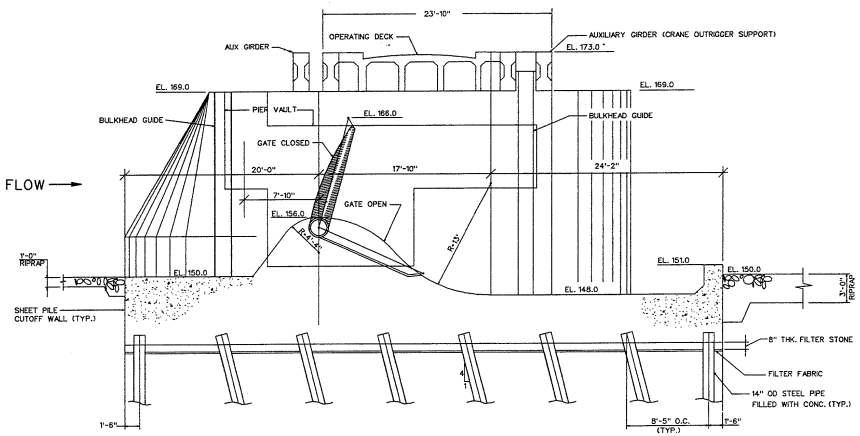
NOTE: GATES SHOWN IN THE OPEN POSITION



WEIR PLAN

SCALE: 1" = 50'-0"

NOTE: OPERATING DECK NOT SHOWN



WEIR SECTION A-A

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

GENERAL NOTES:

1) PILES WILL CONSIST OF 14" OD STEEL PIPE. PILES FILLED WITH CONCRETE.
2) WEIR PILE TIP ELEVATIONS ESTIMATED TO BE AT EL. 121.0. ESTIMATED PILE LENGTH 43.0 FT. MINIMUM PENETRATION REQUIRED 23 FT.
3) WINGWALL PILES TIP EL. 113.0. ESTIMATED PILE PILE LENGTH 35.0 FT.

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CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

GREAT PIECE WEIR

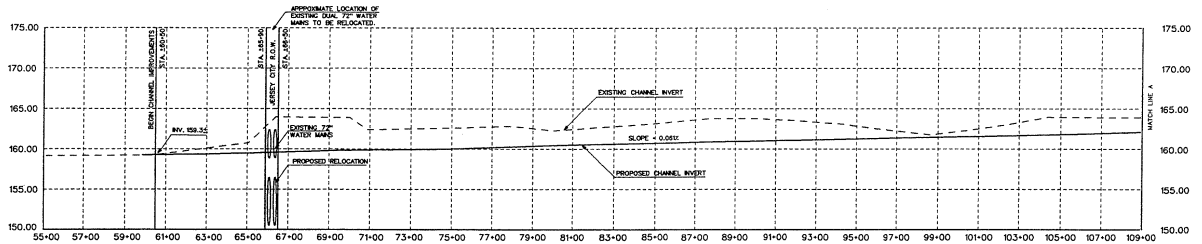
PLAN, ELEVATION, AND SECTION

REVISED: MARCH 1995

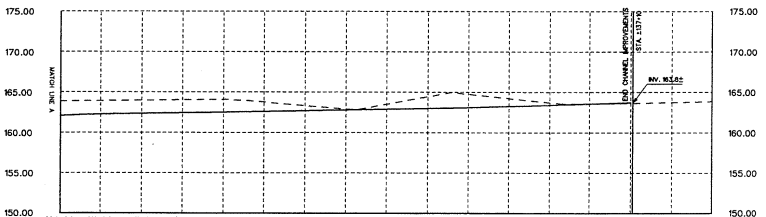
DATE: JANUARY 1995 | PREPARED BY: URS CONSULTANTS

GPW-HHL.DGN

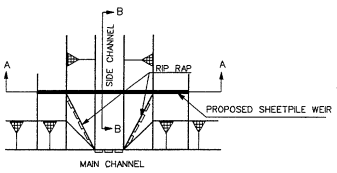
Figure C-98



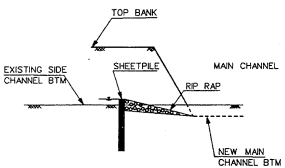
PROFILE DEEPAVAAL BROOK SECTION STA. 55+00 - STA 109+00



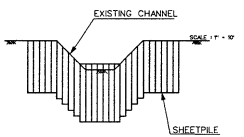
PROFILE DEEPAVAAL BROOK SECTION STA. 109+00 - 141+00



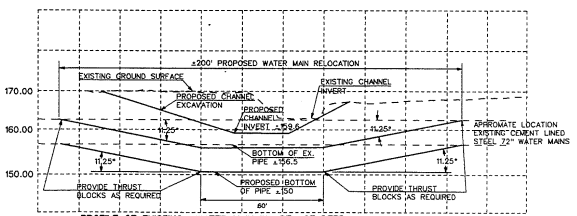
PLAN



SECTION B - B



SECTION A - A



PROFILE OF EXISTING WATER MAIN IN AREA OF DEEPAVAAL BROOK WITH CONCEPTUAL WATER MAIN CROSSING IMPROVEMENT

SCALE (HOR.) 1" = 20'
SCALE (VERT.) 1" = 10'

NOTE:
PROVIDE SIDEGATES, BLOWOFFS AND VALUES FOR EACH MAIN

SCALE IN FEET

VERTICAL	5	0	10	15	20
HORIZONTAL	200	0	200	400	600

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Passaic River Flood Damage Reduction Project

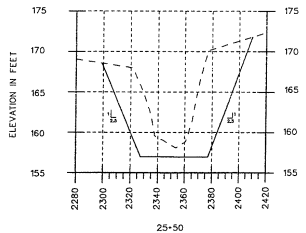
GENERAL DESIGN MEMORANDUM

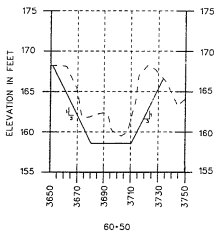
DEEPAVAAL BROOK CHANNEL IMPROVEMENTS
PROFILES

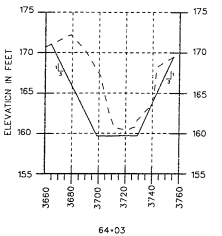
REVISED:			
DATE: APRIL 1990	PREPARED BY: JAY	SHEET 3 OF 5	

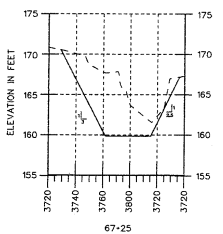
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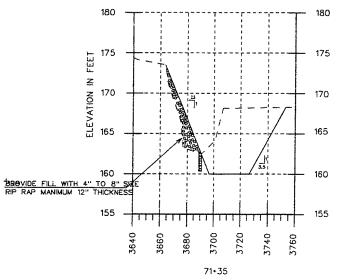
Figure C-99a

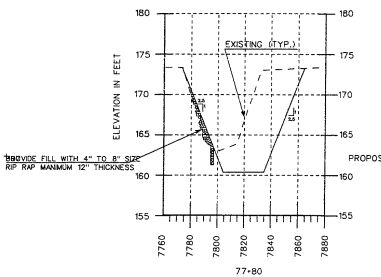


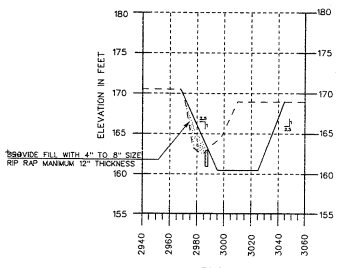


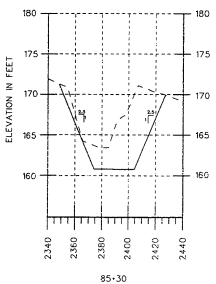


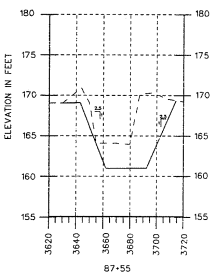


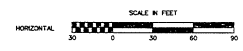












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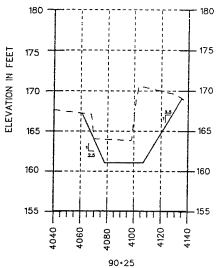
Passaic River Flood Damage Reduction Project

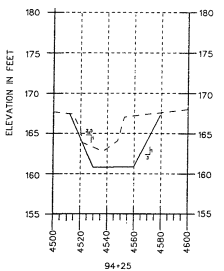
GENERAL DESIGN MEMORANDUM

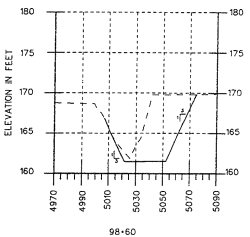
DEEPAVAAL BROOK CHANNEL
IMPROVEMENTS CROSS SECTIONS

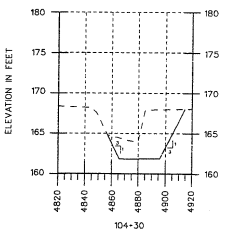
REVISED:		
DATE: APRIL 1995	PREPARED BY: JAV	SHEET 4 OF 5

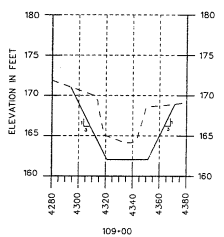
Figure C-99b

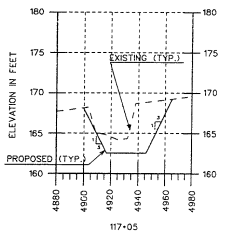


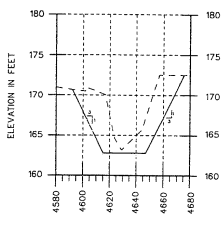


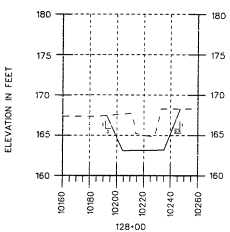


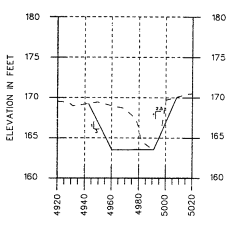












SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 0 0 5 10 15

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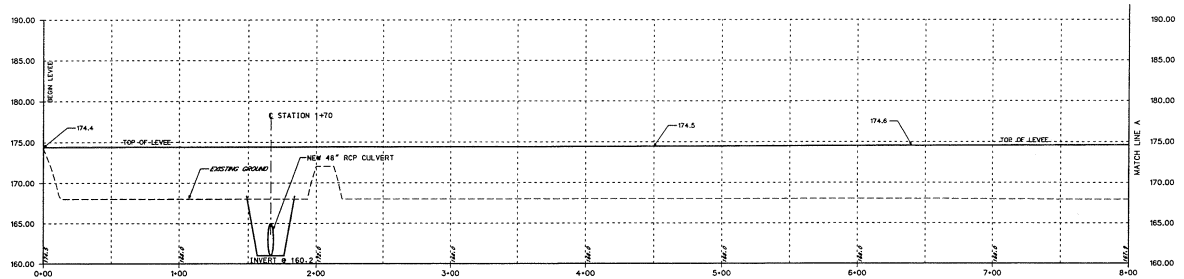
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

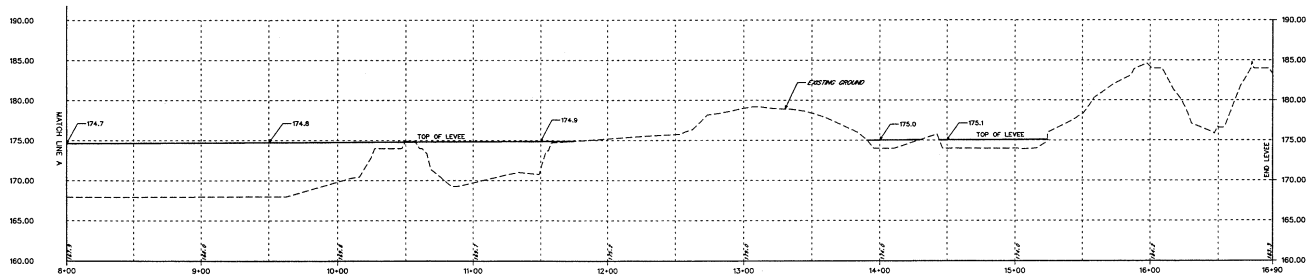
DEEPAVAAL BROOK CHANNEL
IMPROVEMENTS CROSS SECTIONS

REVISED:			
DATE: APRIL 1996	PREPARED BY: JAV	SHEET 5 OF 5	

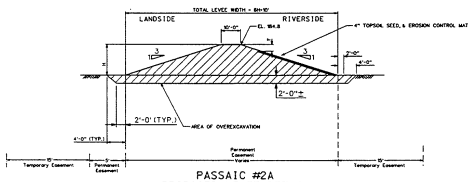
Figure C-99c



PASSAIC 2A LEVEE L4 STATION 0+00 - 8+00



PASSAIC 2A LEVEE L4 STATION 8+00 - 16+90

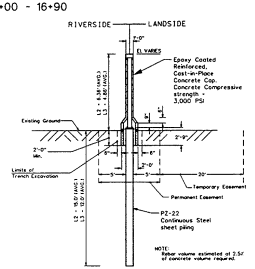


PASSAIC #2A
PROPOSED LEVEE DETAIL

SCALE: N.T.S.

Construction Sequence

1. An organic cohesive layer may be encountered. Overexcavate the entire layer (approx. 2'-0") and grub to a maximum depth of 3'-0" to remove all large vegetation and debris such as tree roots, old foundations and pipes. When the organic cohesive layer is not encountered, strip approximately 6" below the levee surface and grub 3'-0" as mentioned above.
2. Compact levee fill to a minimum of 90% standard proctor density.
3. Stripped and overexcavated organic soils can be used as topsoil on the levee slopes. Placement of an erosion control mat is recommended for the riverside of the levee only.



PASSAIC #2A
PROPOSED FLOODWALL DETAIL
SCALE: N.T.S.

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

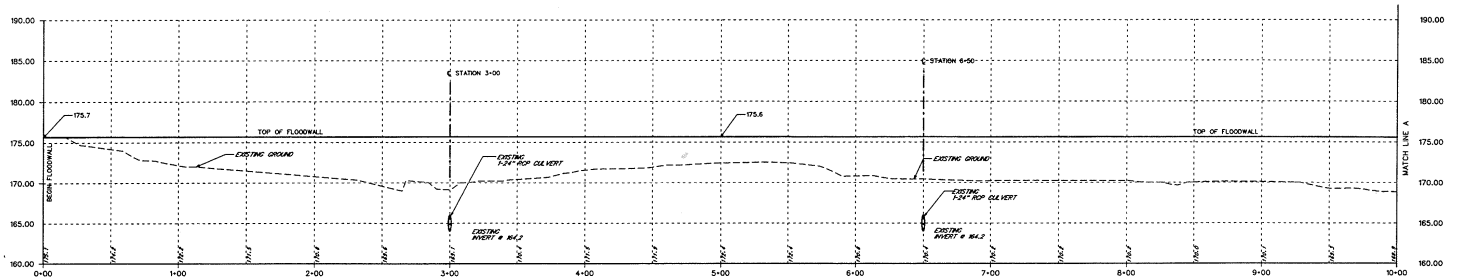
PROFILE PASSAIC 2A LEVEE L4

REVISED:

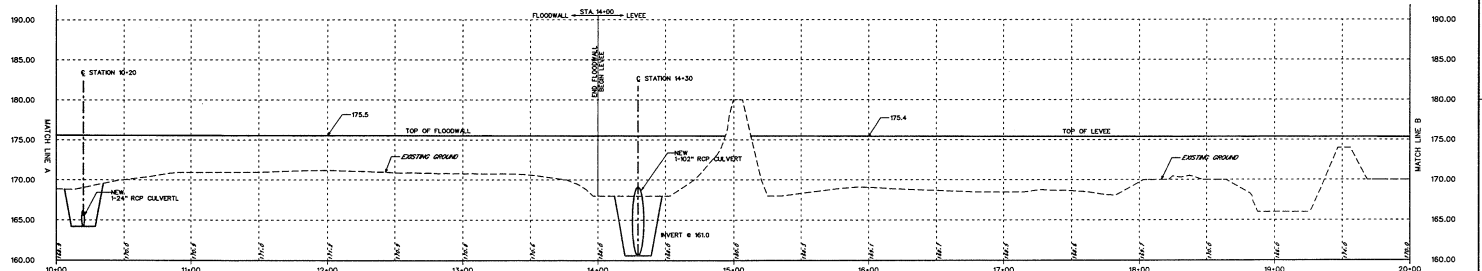
DATE: NOVEMBER 1994 | PREPARED BY: MRW | SHEET 8 of 13

Figure C-100a

PROF1.DGN



PASSAIC 2A LEVEE L3 STATION 0+00 - 10+00



PASSAIC 2A LEVEE L3 STATION 10+00 - 20+00

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

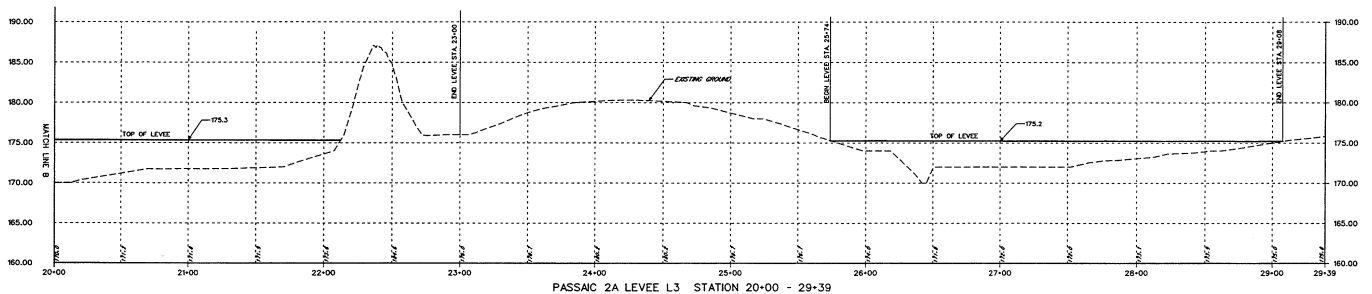
GENERAL DESIGN MEMORANDUM

PROFILE PASSAIC 2A LEVEE L3

REVISED:		
DATE: NOVEMBER 1994	PREPARED BY: MRW	SHEET 9 of 13

PROF2.DGN

Figure C-100b



PASSAIC 2A LEVEE L3 STATION 20+00 - 29+39

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

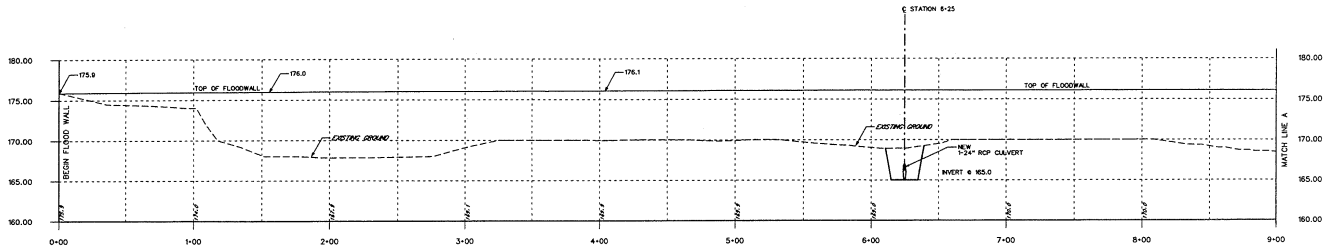
PROFILE PASSAIC 2A LEVEE L3

REVISED:

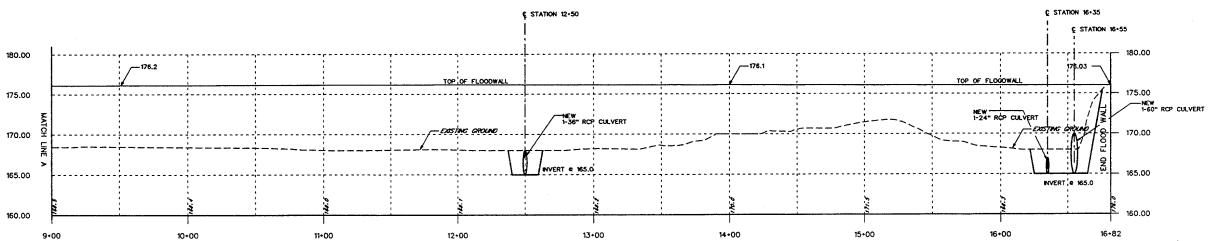
DATE: NOVEMBER 1994 | PREPARED BY: MRW | SHEET 18 of 13

PROF2.DGN

Figure C-100c



PASSAIC 2A LEVEE L2 STATION 0+00 - 9+00



PASSAIC 2A LEVEE L2 STATION 9+00 - 16+82

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

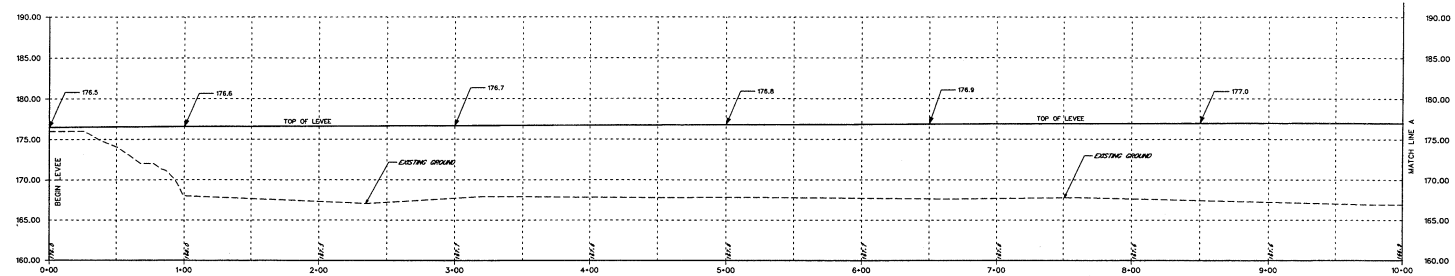
PROFILE PASSAIC 2A LEVEE L2

REVISED:

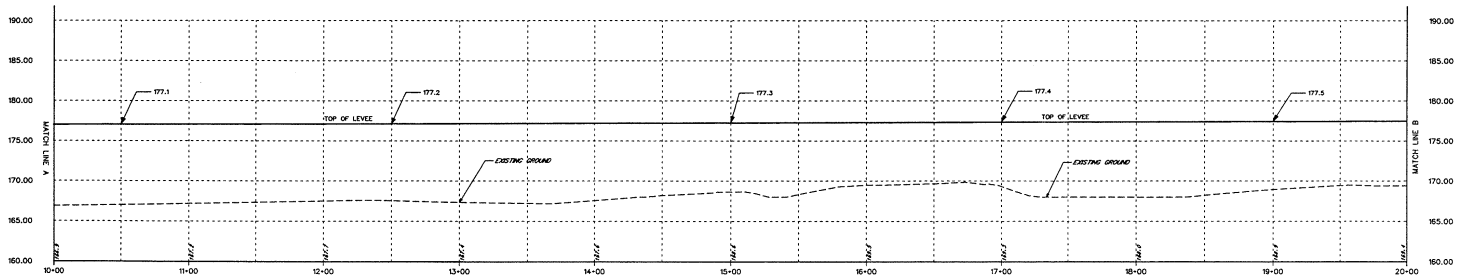
DATE: NOVEMBER 1994 | PREPARED BY: MRW | SHEET 11 of 13

PROF2LOGN

Figure C-100d



PASSAIC 2A LEVEE L1 STATION 0+00 - 10+00



PASSAIC 2A LEVEE L1 STATION 10+00 - 20+00

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

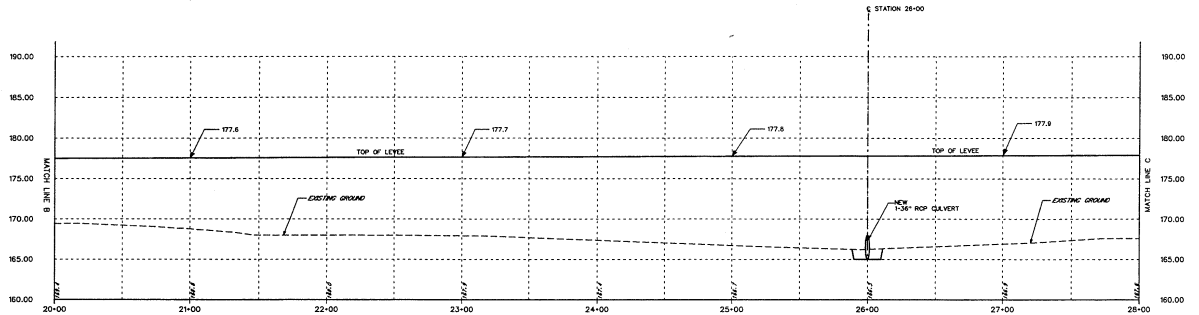
PROFILE PASSAIC 2A LEVEE L1

REVISED:

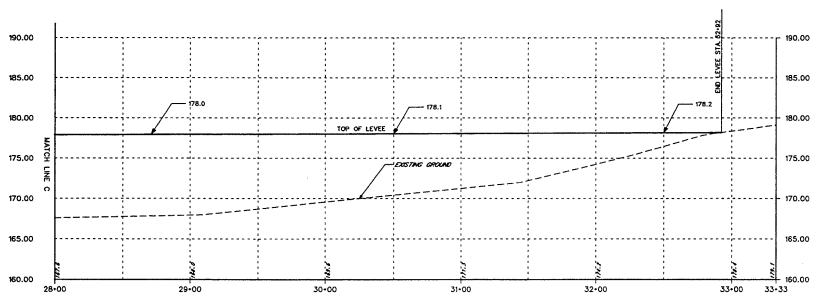
DATE: NOVEMBER 1994 | PREPARED BY: MRV | SHEET 12 of 13

PROF-A.DGN

Figure C-100e



PASSAIC 2A LEVEE L1 STATION 20+00 - 28+00



PASSAIC 2A LEVEE L1 STATION 28+00 - 33+33

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

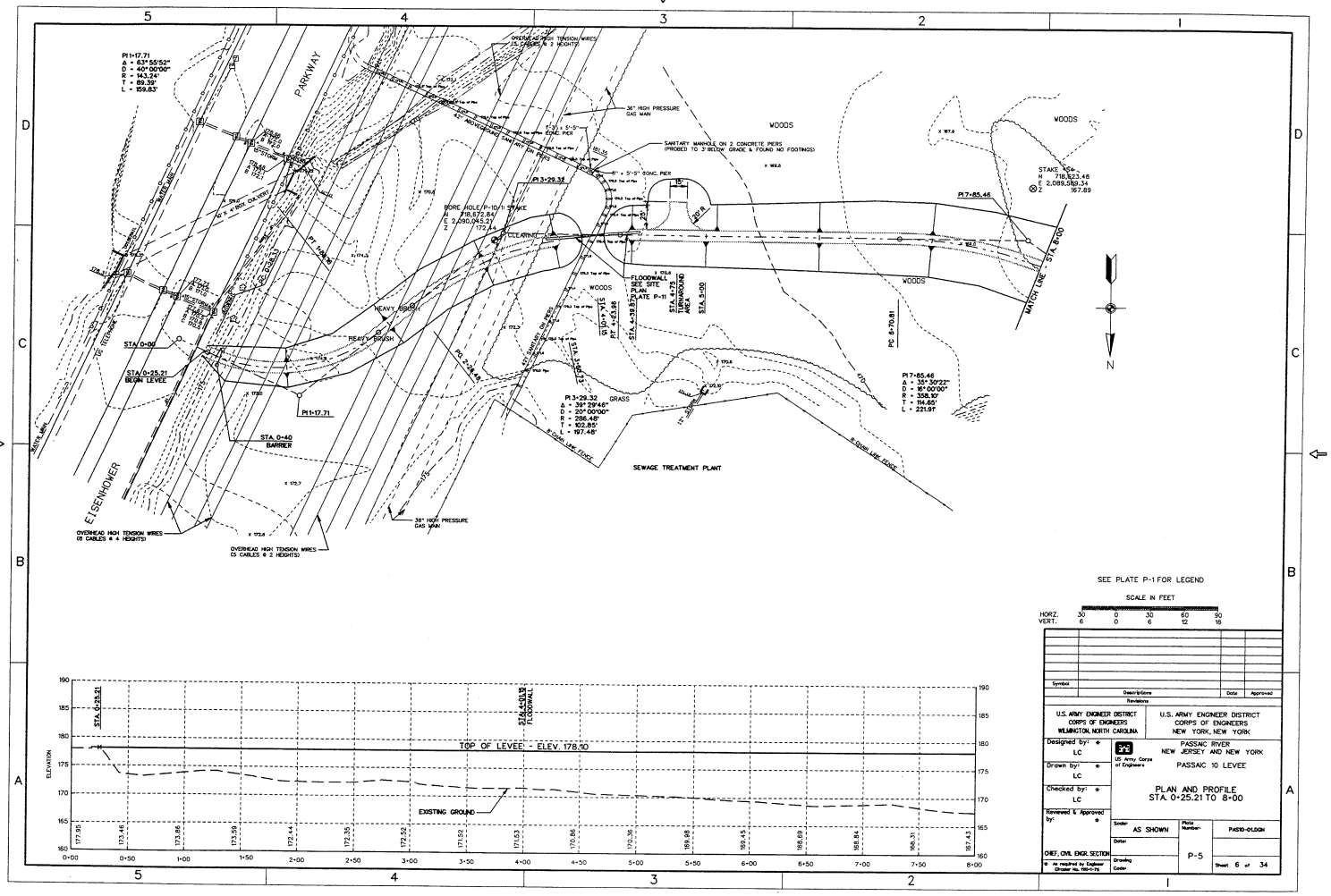
PROFILE PASSAIC 2A LEVEE L1

REVISED:

DATE: NOVEMBER 1994 | PREPARED BY: MRM | SHEET 13 of 13

PROF4.DGN

Figure C-100f



SEE PLATE P-1 FOR LEGEND

SCALE IN FEET

HORZ.	30	0	30	60	90
VERT.	6	0	6	12	18

Symbol	Revisions Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WILMINGTON, NORTH CAROLINA	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK
Designed by: * LC	PASSAIC RIVER NEW JERSEY AND NEW YORK
Drawn by: * LC	US Army Corps of Engineers — PASSAIC 10 LEVEE
Checked by: * LC	PLAN AND PROFILE STA 0+25.21 TO 8+00
Reviewed & Approved by: *	Scale: AS SHOWN; Plate Number: P-5; PASTO-01.DGN
CHIEF, CIVIL ENGR. SECTION	Drawing Code:
* As required by Engineer Circular No. 1110-1-75	Sheet 6 of 34

Figure C-101a

0-01.DGN

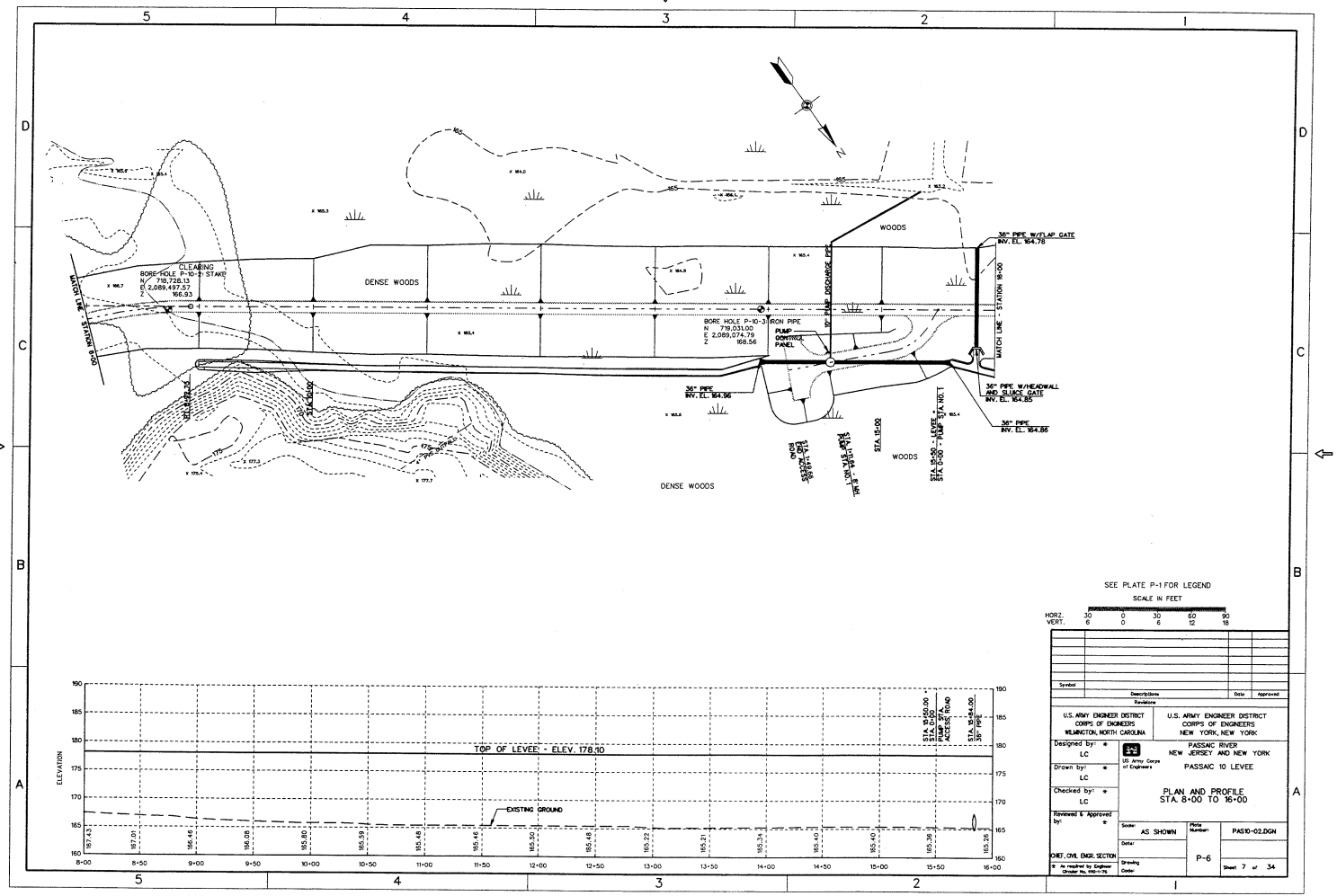
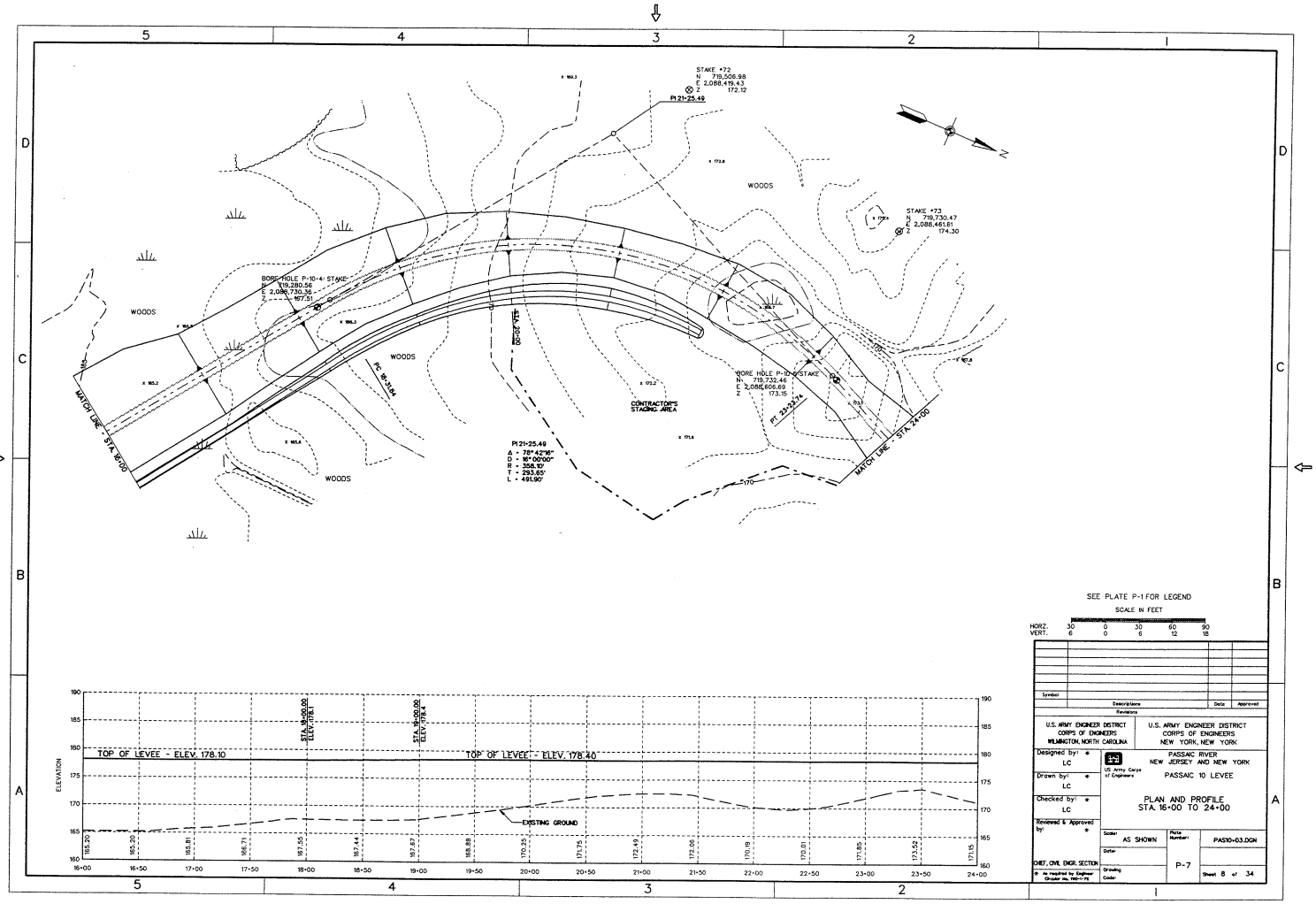


Figure C-101b

PAS10-02.DGN



Symbol	Revisions: Description	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WILMINGTON, NORTH CAROLINA

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
NEW YORK, NEW YORK

Designed by: * LC
Drawn by: * LC
Checked by: * LC
Reviewed & Approved by: *

US Army Corps of Engineers

PASSAIC RIVER
NEW JERSEY AND NEW YORK
PASSAIC 10 LEVEE

PLAN AND PROFILE
STA. 16+00 TO 24+00

Scale: AS SHOWN
Date:
Grading Code:
Plate Number: PAS10-03.DGN
P-7
Sheet 8 of 34

CHIEF, CIVIL ENGR. SECTION
* As required by Engineer Circular No. 1110-1-75

S10-03.DGN

Figure C-101c

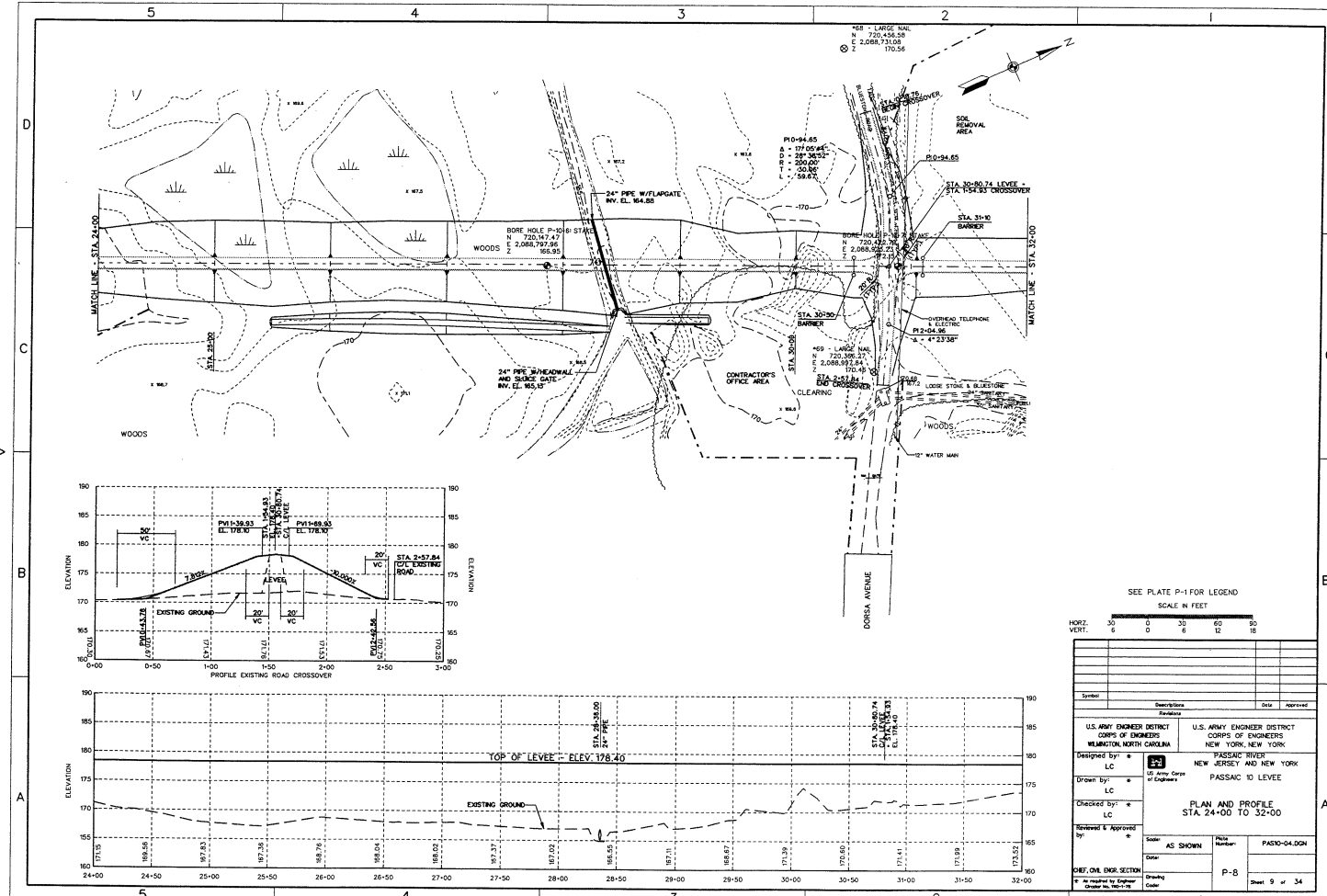
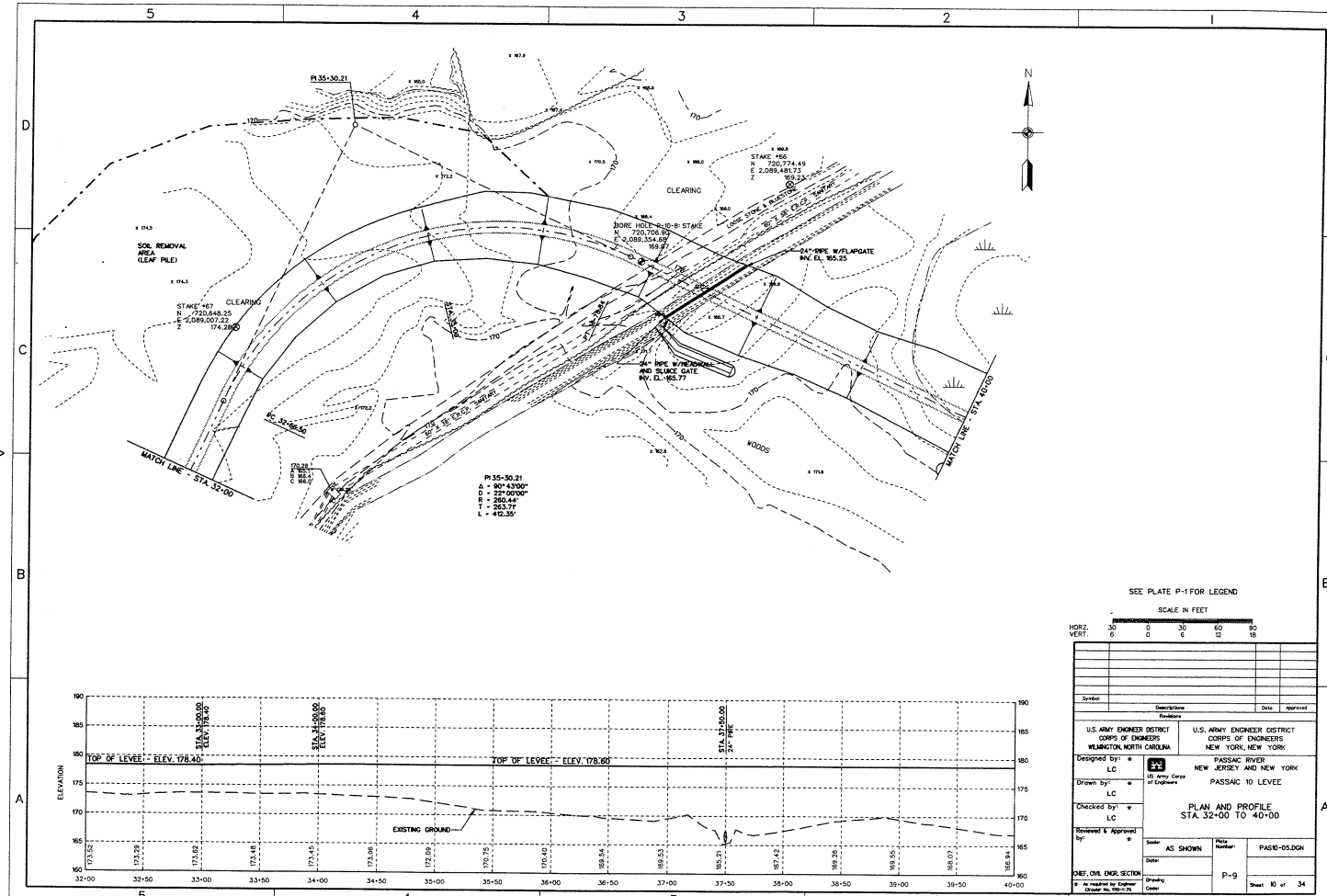


Figure C-101d



SEE PLATE P-1 FOR LEGEND

SCALE IN FEET

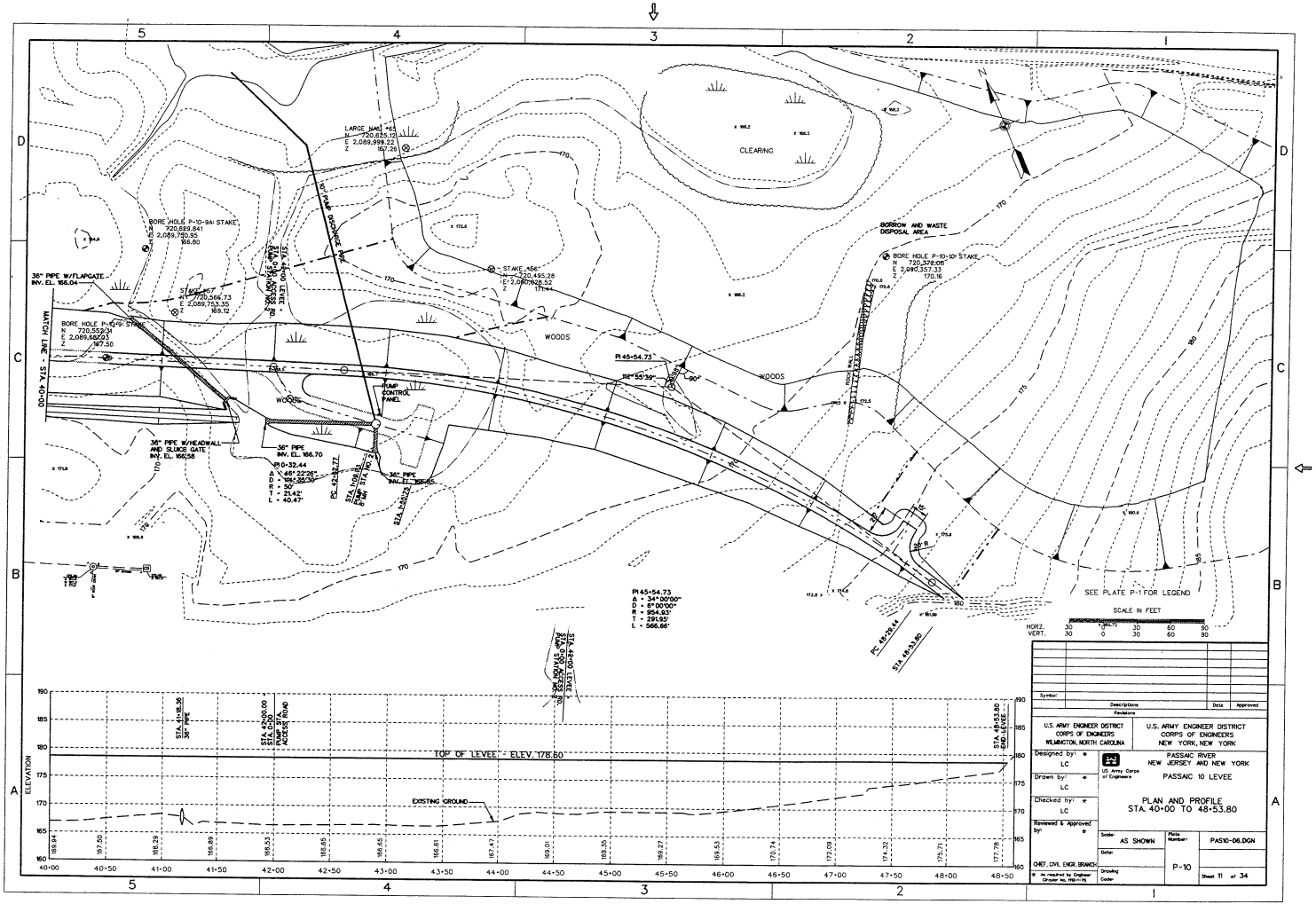
HORZ.	30	0	30	60	90
VERT.	6	0	6	12	18

Symbol	Descriptions Revisions	Date	Approved

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS WILMINGTON, NORTH CAROLINA	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS NEW YORK, NEW YORK
Designed by: * LC	PASSAIC RIVER NEW JERSEY AND NEW YORK
Drawn by: * LC	US Army Corps of Engineers PASSAIC 10 LEVEE
Checked by: * LC	PLAN AND PROFILE STA 32+00 TO 40+00
Reviewed & Approved by: *	Scale: AS SHOWN
CHIEF, CIVIL ENGR. SECTION	Date:
* As required by Engineer Order No. 1110-1-75	Drawing Code: P-9
	Plate Number: PAS10-05.DGN
	Sheet 10 of 34

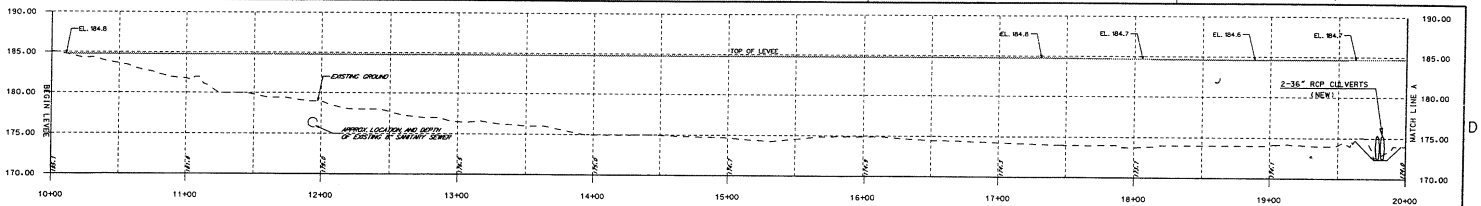
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Figure C-101e

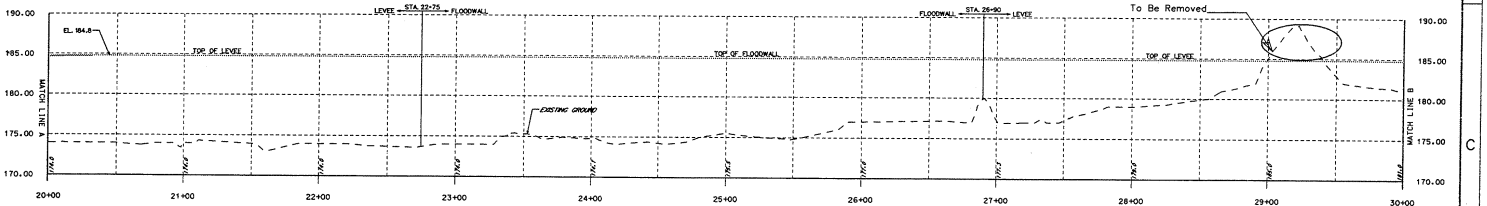


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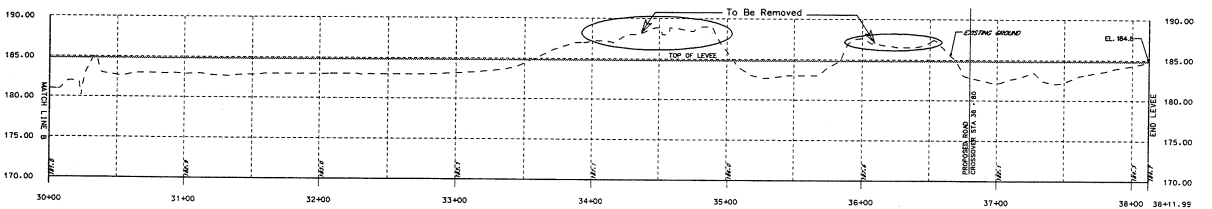
Figure C-101f



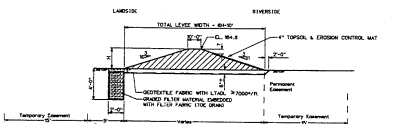
PINCH BROOK STATION 10+00 - 20+00



PINCH BROOK STATION 20+00 - 30+00

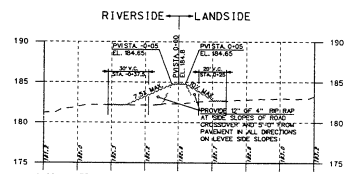


PINCH BROOK STATION 30+00 - 38+11.99

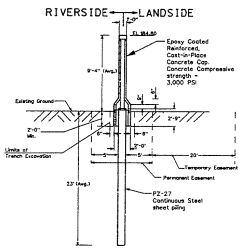


N.T.S

1. Strip about 6" depth below the levee to remove all surface vegetation and debris. Also grub to a 3' depth to remove all large vegetation & debris such as tree roots, old foundations and pipes.
2. Haul in levee fill from offsite and compact to 90% standard proctor density. If the stripped material is organic in nature, spread it over the levee surface to promote growth of grass cover (approximate 6" layer).
3. Provide 4" of topsoil for stripped organic materials, seeding and an erosion control mat over the levee surface.
4. Toe drain is required to the levee portion north of Floodwall.



PROFILE PROPOSED ROAD CROSSOVER STATION 36+80



TYPICAL I-WALL SECTION

N.T.S.

SCALE IN FEET

HORIZONTAL: 30 0 30 60 90

VERTICAL: 5 0 5 10 15

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CORPS OF ENGINEERS

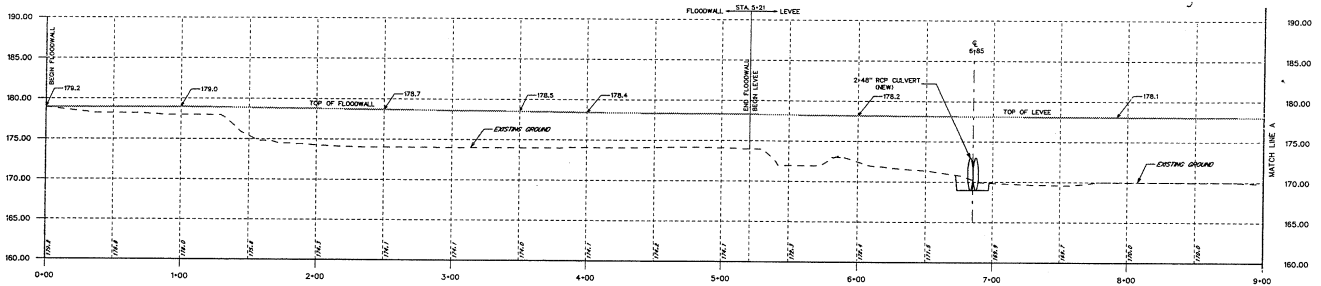
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

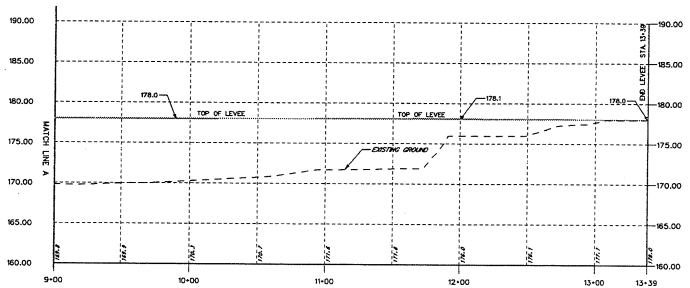
PINCH BROOK ALIGNMENT PROFILE
CROSSOVER CROSS SECTION

REVISED:		
DATE: OCTOBER 1994	PREPARED BY: MRW	SHEET 2 OF 2

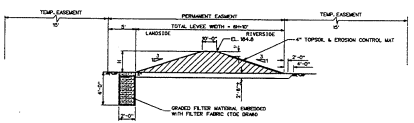
Figure C-102



PROFILE DOWNSTREAM ROCKAWAY 1 STATION 0+00 - 9+00

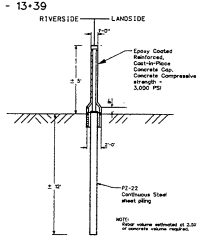


PROFILE DOWNSTREAM ROCKAWAY 1 STATION 9+00 - 13+39



ROCKAWAY 1
PROPOSED LEVEE DETAIL
SCALE: N.T.S.

1. An organic cohesive layer may be encountered. Overexcavate the entire layer (approx. 2'-0") and grub to a minimum depth of 3'-0" to remove all large vegetation and debris such as tree roots, old foundations and piles. When the organic cohesive layer is not encountered, strip approximately 6" below the levee surface and grub 3'-0" as mentioned above.
2. Compact levee fill to a minimum of 90% standard proctor density.
3. Stripped and overexcavated organic soils can be used as topsoil on the levee slopes. Placement of an erosion control mat is recommended for the riverside of the levee only.
4. A toe drain is recommended for the South levee only.



ROCKAWAY 1
PROPOSED FLOODWALL DETAIL
SCALE: N.T.S.

SCALE IN FEET
HORIZONTAL 30 0 30 60 90
VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
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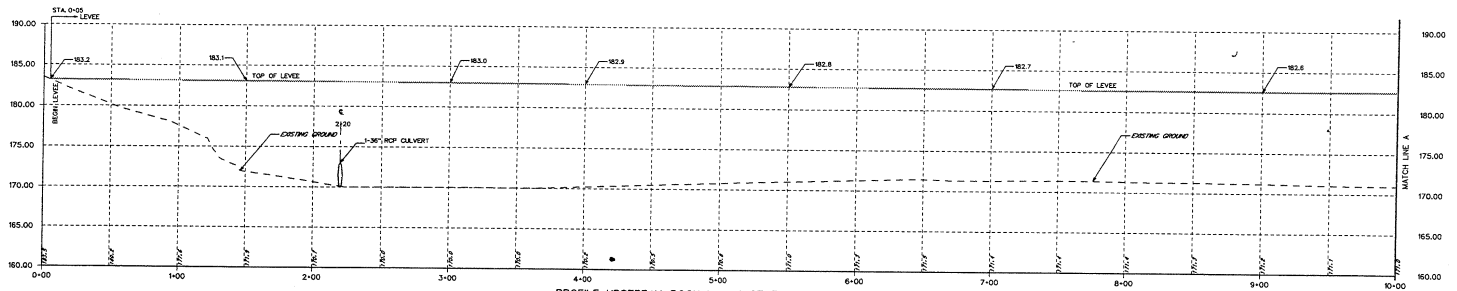
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

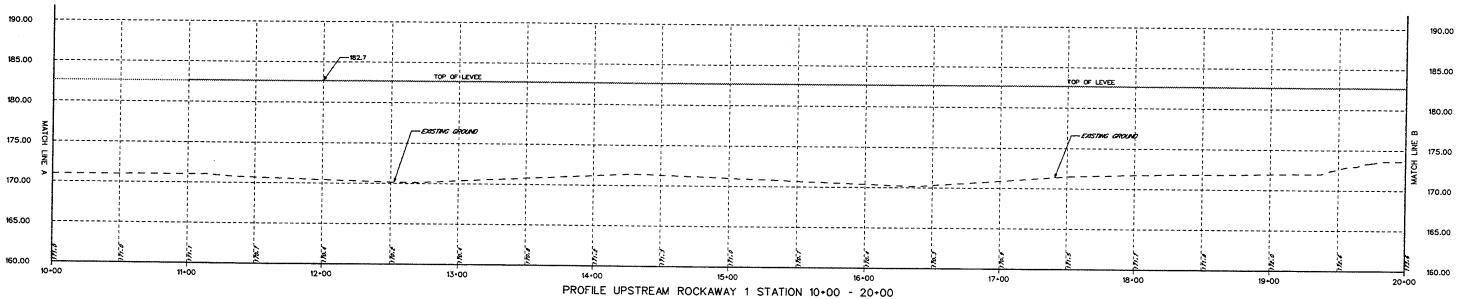
PROFILE DOWNSTREAM ROCKAWAY 1
LEVEE / FLOODWALL SYSTEM

REVISED:		
DATE: NOVEMBER 1994	PREPARED BY: MRH	SHEET 2 of 3

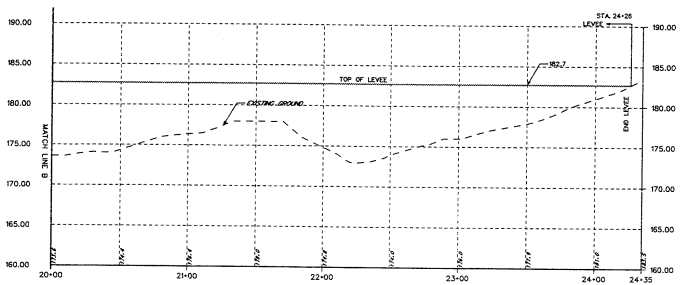
Figure C-103a



PROFILE UPSTREAM ROCKAWAY 1 STATION 0+00 - 10+00



PROFILE UPSTREAM ROCKAWAY 1 STATION 10+00 - 20+00



PROFILE UPSTREAM ROCKAWAY 1 STATION 20+00 - 24+35

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

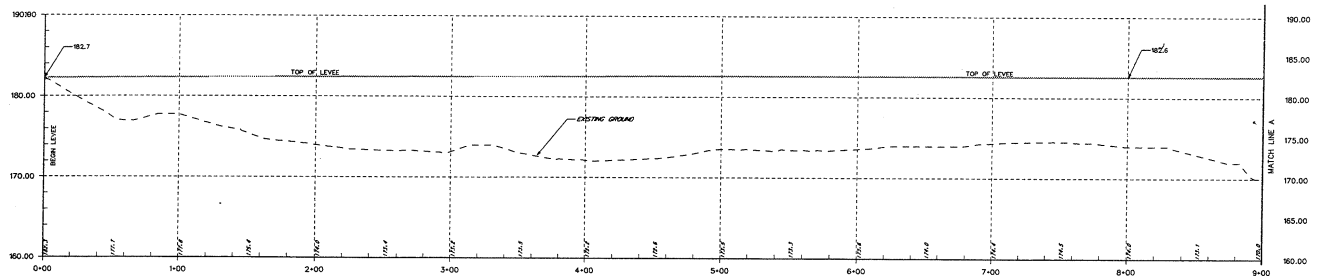
GENERAL DESIGN MEMORANDUM

PROFILE UPSTREAM ROCKAWAY 1
LEVEE / FLOODWALL SYSTEM

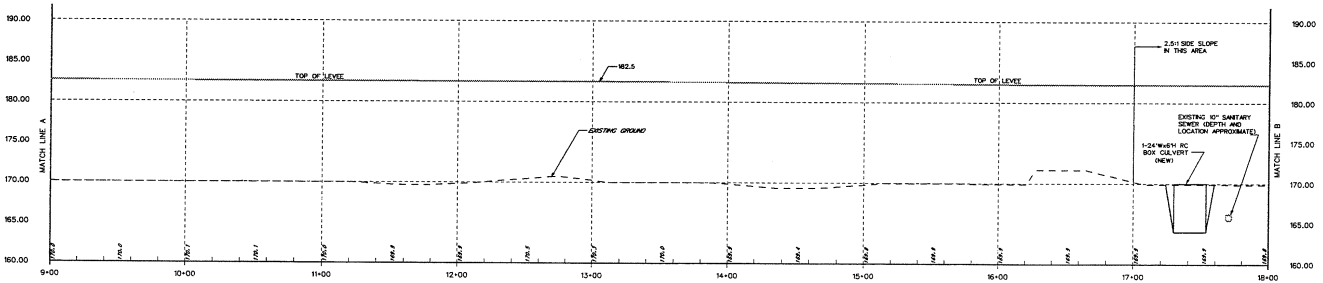
REVISED:

DATE: NOVEMBER 1994 | PREPARED BY: MRW | SHEET 3 of 3

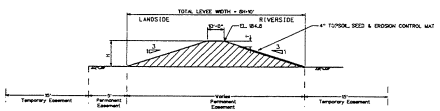
Figure C-103b



PROFILE ROCKAWAY 2 STATION 0+00 - 9+00



PROFILE ROCKAWAY 2 STATION 9+00 - 18+00



N.T.S

ROCKAWAY #2

PROPOSED LEVEE DETAIL

1. Strip approximately 6" depth below the levee to remove all surface vegetation and debris. Also grub to 3' depth to remove all large vegetation and debris such as tree roots, old foundations and pipes, etc. wherever required
2. Compact levee fill to a minimum of 90% standard proctor density.
3. Stripped soils can be used as topsoil on the levee slopes. Placement of an erosion control mat is recommended for the riverside of the levee only.

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

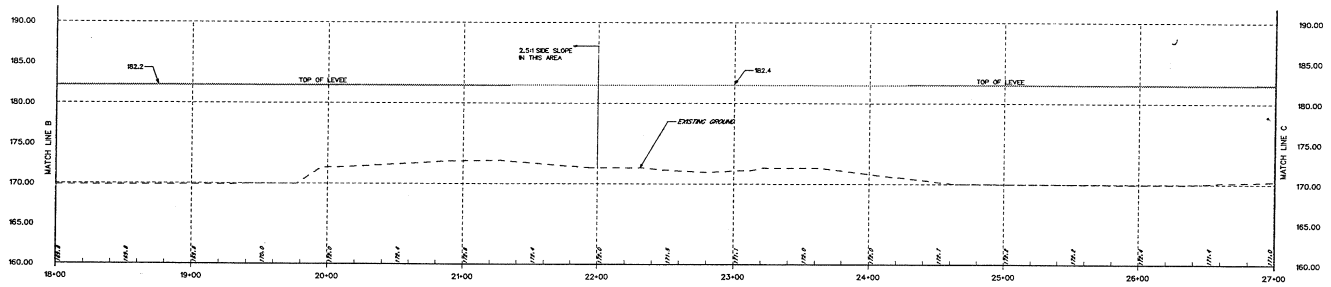
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

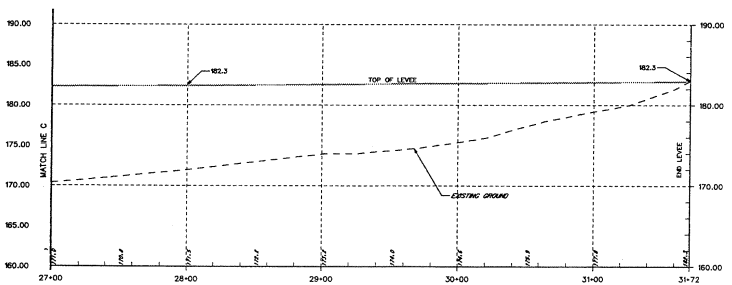
PROFILE ROCKAWAY 2
LEVEE SYSTEM

REVISED:			
DATE: NOVEMBER 1994	PREPARED BY: MRV	SHEET 2 of 3	

Figure C-104a



PROFILE ROCKAWAY 2 STATION 18+00 - 27+00



PROFILE ROCKAWAY 2 STATION 27+00 - 31+72

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

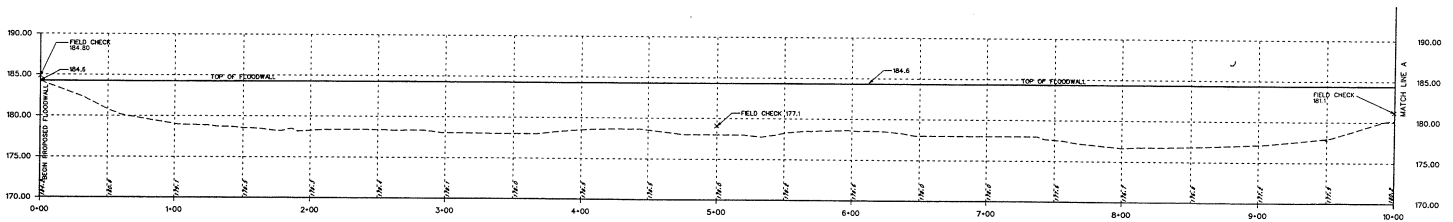
GENERAL DESIGN MEMORANDUM

PROFILE ROCKAWAY 2
LEVEE SYSTEM

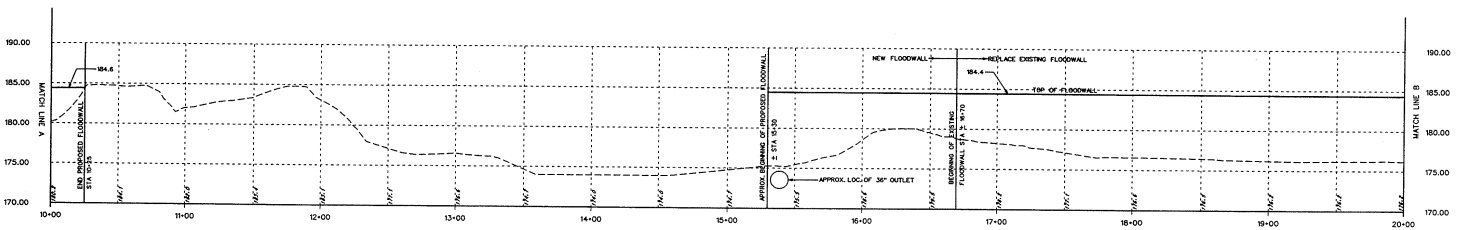
REVISED:

DATE: NOVEMBER 1994 | PREPARED BY: MRV | SHEET 3 of 3

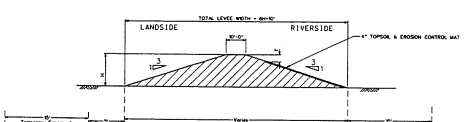
Figure C-104b



PROFILE ROCKAWAY 3 STATION 0+00 - 10+00



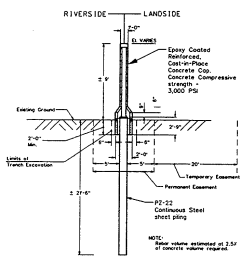
PROFILE ROCKAWAY 3 STATION 10+00 - 20+00



ROCKAWAY #3
PROPOSED LEVEE DETAIL
SCALE: N.T.S.

SCALE: N.T.S.

1. Strip approximately 6" depth below the levee to remove all surface vegetation and debris. Also grub to 3' depth to remove all large vegetation and debris such as tree roots, old foundations and slabs, etc. wherever required.
2. Compact levee fill to a minimum of 90% standard proctor density.
3. Stripped soils can be used as topsoil on the levee slopes. Placement of an erosion control mat is recommended for the riverside of the levee only.



ROCKAWAY #3
PROPOSED FLOODWALL DETAIL
SCALE: N.T.S

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

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CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

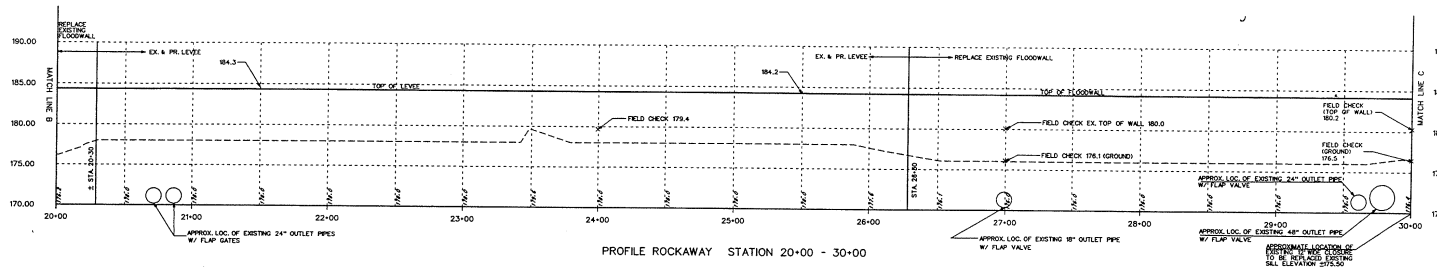
GENERAL DESIGN MEMORANDUM

PROFILE ROCKAWAY 3
LEVEE / FLOODWALL SYSTEM

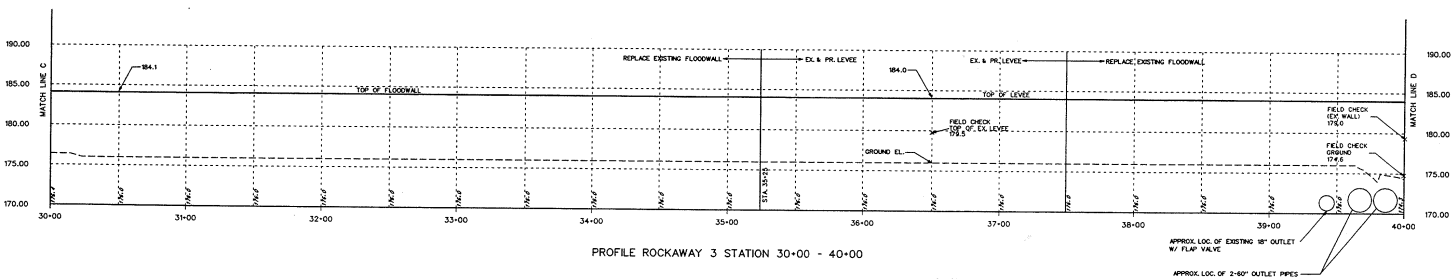
REVISED:		
DATE: NOVEMBER 1994	PREPARED BY: MRN	SHEET 3 of 6

Figure C-105a

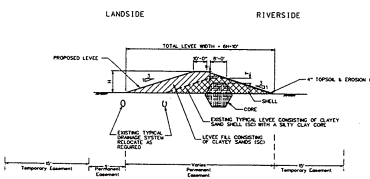
SHEET LEGEND



PROFILE ROCKAWAY STATION 20+00 - 30+00

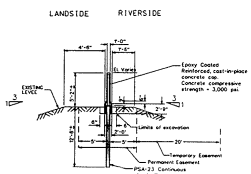


PROFILE ROCKAWAY 3 STATION 30+00 - 40+00



ROCKAWAY #3
PROPOSED LEVEE DETAIL
SCALE: N.T.S.

1. Strip approximately 6" depth below the proposed levee and 4' depth on the top and landside slope of the existing levee to remove all surface vegetation and debris. Also grub the proposed levee area to 3' depth to remove all large vegetation and debris such as tree roots, old foundations and pipes, etc. wherever required.
2. Compact levee fill to a minimum of 90% standard proctor density.
3. Stripped soils can be used as topsoil on the levee slopes. Placement of an erosion control mat is recommended for the riverside of the levee only.



NOTE: Rebar volume estimated as 2.5% of concrete volume required.

ROCKAWAY #3
PROPOSED FLOODWALL ON LEVEE DETAIL
SCALE: N.T.S.

SCALE IN FEET

HORIZONTAL: 30 0 30 60 90

VERTICAL: 5 0 5 10 15

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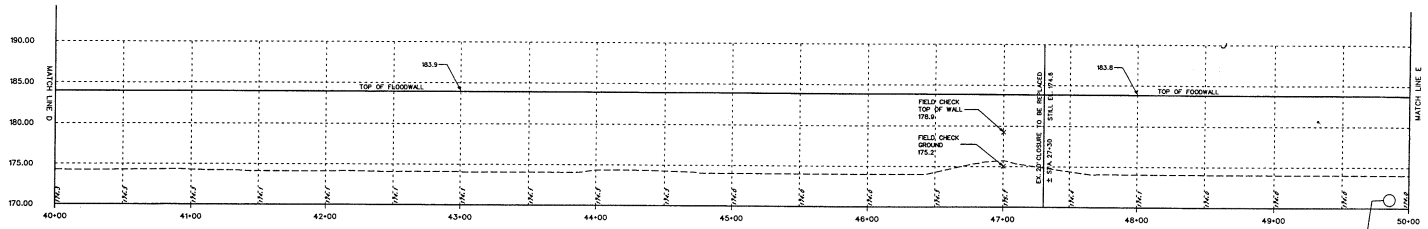
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

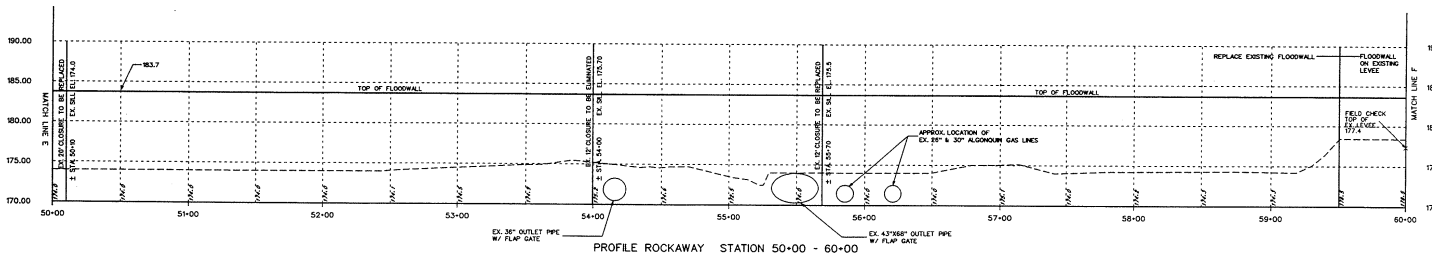
PROFILE ROCKAWAY 3
LEVEE / FLOODWALL SYSTEM

REVISED:		
DATE: NOVEMBER 1994	PREPARED BY: NAN	SHEET 4 of 6

Figure C-105b



PROFILE ROCKAWAY 3 STATION 40+00 - 50+00



PROFILE ROCKAWAY STATION 50+00 - 60+00

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

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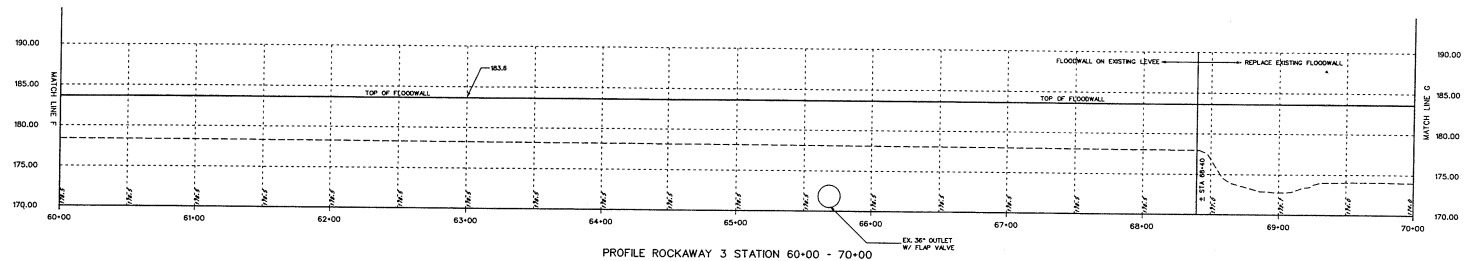
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

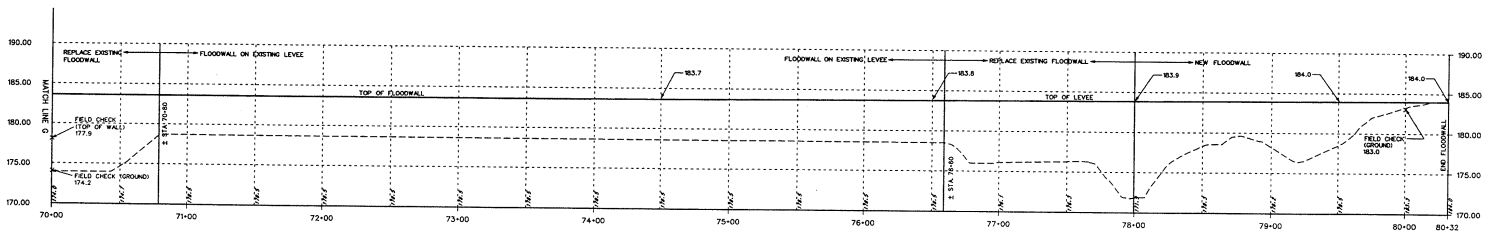
PROFILE ROCKAWAY 3
LEVEE / FLOODWALL SYSTEM

REVISED:		
DATE: NOVEMBER 1994	PREPARED BY: MRW	SHEET 5 of 6

Figure C-105c



PROFILE ROCKAWAY 3 STATION 60+00 - 70+00



PROFILE ROCKAWAY STATION 70+00 - 80+32

SCALE IN FEET

HORIZONTAL 30 0 30 60 90

VERTICAL 5 0 5 10 15

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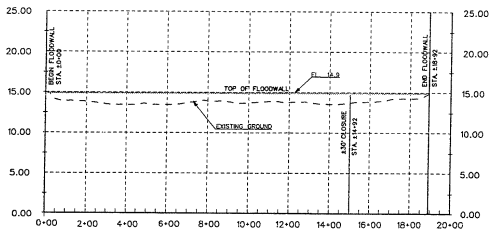
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

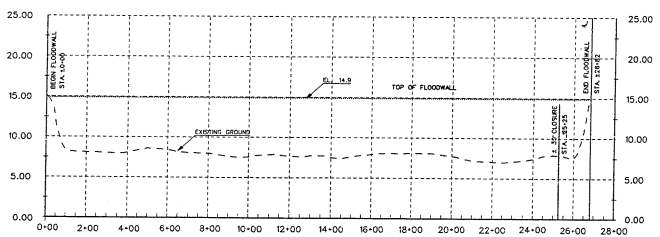
PROFILE ROCKAWAY 3
LEVEE / FLOODWALL SYSTEM

REVISED:		
DATE: NOVEMBER 1994	PREPARED BY: MRW	SHEET 6 of 6

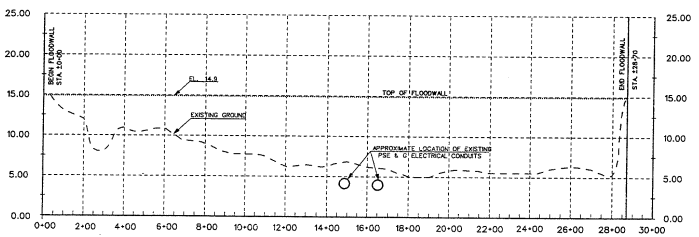
Figure C-105d



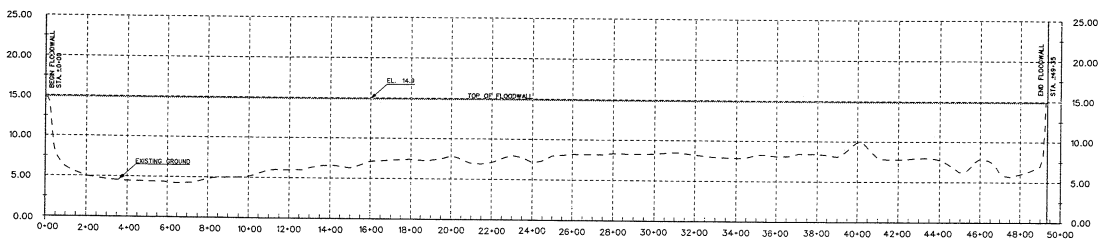
PROFILE SECTION FP-1



PROFILE SECTION FP-2



PROFILE SECTION FP-3



PROFILE SECTION FP-4

SCALE IN FEET

VERTICAL 5 0 5 10 15

HORIZONTAL 200 0 200 400 600

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PASSAIC RIVER DIVISION
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Passaic River Flood Damage Reduction Project

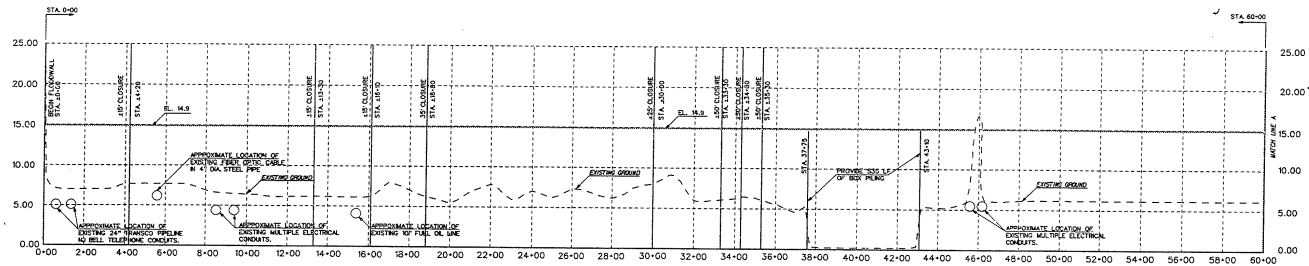
GENERAL DESIGN MEMORANDUM

PROFILE KEARNY POINT LEVEE / FLOODWALL STSTEM SECTIONS FP-1 , FP-2 , FP-3 , FP-4

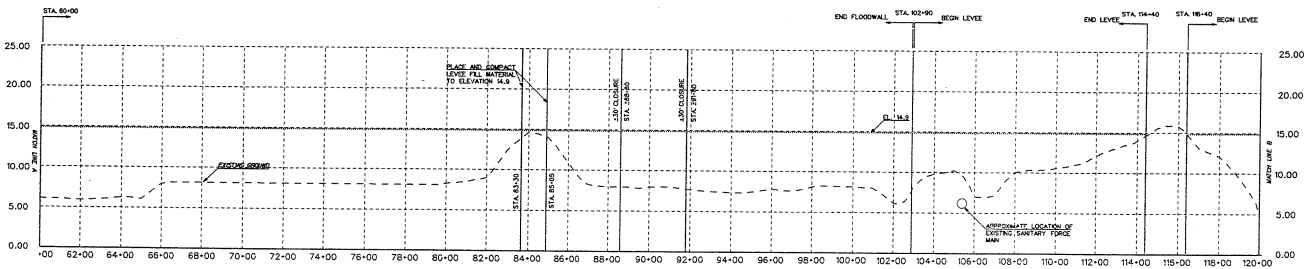
REVISED:

DATE: MARCH 1985 | PREPARED BY: JAW | SHEET 7 OF 11

Figure C-106a



PROFILE FK-1 STA 0+00 - 60+00



PROFILE FK-1 STA 60+00 - 120+00

SCALE IN FEET

VERTICAL 5 0 5 10 15

HORIZONTAL 200 0 200 400 600

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Passaic River Flood Damage Reduction Project

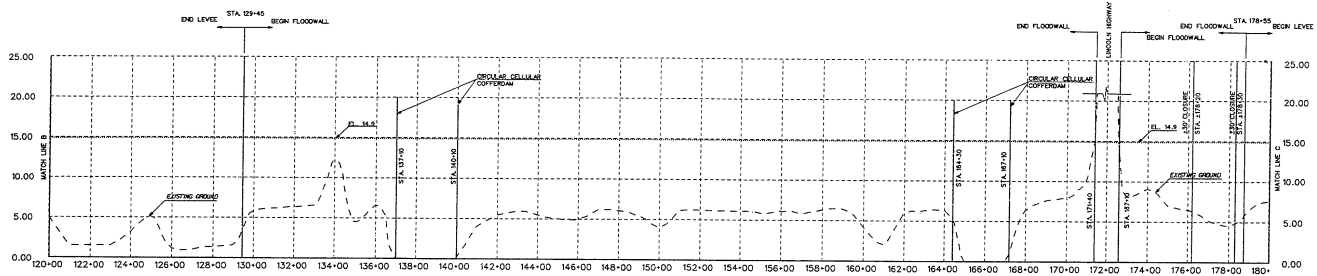
GENERAL DESIGN MEMORANDUM

PROFILE KEARNY POINT LEVEE / FLOODWALL SYSTEM STA 0+00 - 120+00 SECTION FK-1

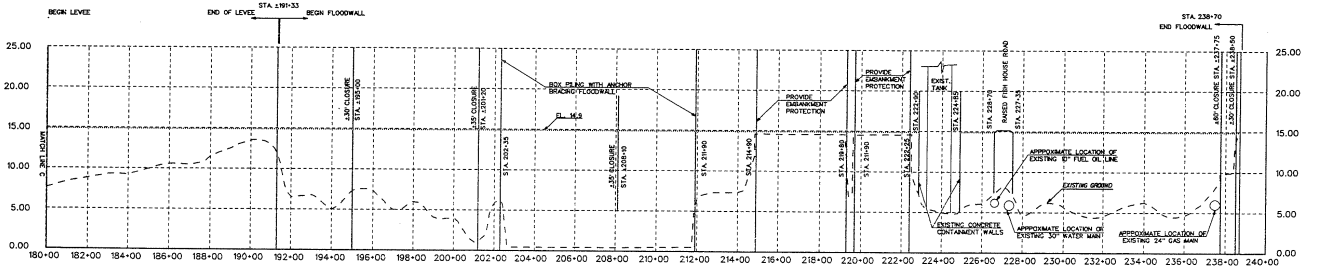
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DATE: MARCH 1995 | PREPARED BY: JAW | SHEET 9 OF 11

Figure C-106b



PROFILE SECTION FK-1 STA 120+00 - 180+00



PROFILE SECTION FK-1 STA 180+00 - 240+00

SCALE IN FEET

VERTICAL: 5 0 5 10 15

HORIZONTAL: 200 0 200 400 600

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PASSAIC RIVER DIVISION
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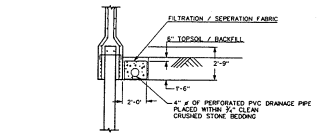
GENERAL DESIGN MEMORANDUM

PROFILE KEARNY POINT LEVEE / FLOODWALL SYSTEM SECTION FK-1 STA 120+00 - 240+00

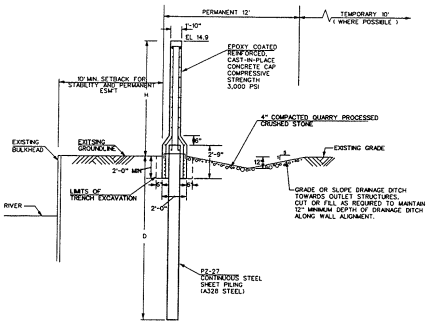
REVISED:

DATE: MARCH 1995 | PREPARED BY: JAW | SHEET 9 OF 11

Figure C-106c



SUBSURFACE TOE DRAIN DETAIL
N.T.S.

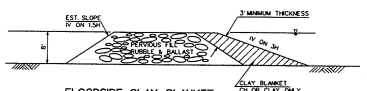


FLOODWALL (I- WALL)
TYPICAL SECTION
N.T.S.

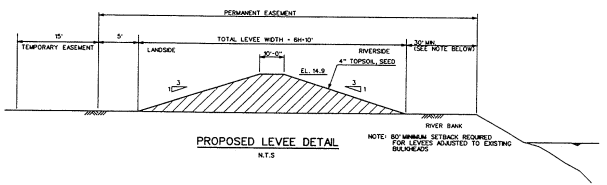
NOTE: I - WALL EASEMENTS ADJACENT TO EXISTING BULKHEAD SHOWN.

TABLE OF WALL HEIGTHS AND SHEET PILE PENETRATION DEPTHS

PROJECT ✓	WALL HEIGHT (H)	SHEET PILE DEPTH (D)
SOUTH FIRST STREET		
FLOODWALL 1	6.73	22.56
FLOODWALL 2	5.69	20.98
	"	
KEARNY POINT	7.35	24.65
LISTER/TURNPIKE/DOREMUS		
SECTION A	8.12	26.15
SECTION B	8.14	26.28

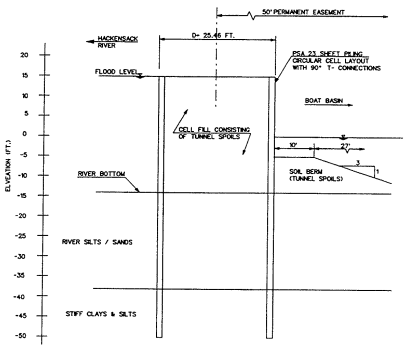


FLOODSIDE CLAY BLANKET
FOR RAILROAD EMBANKMENT
SCALE: 1" = 10'

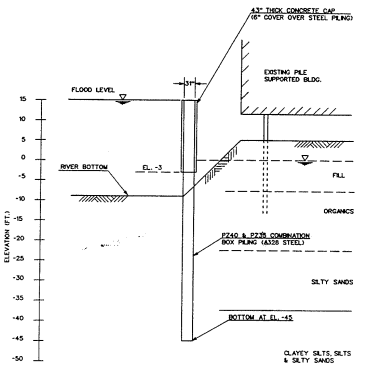


PROPOSED LEVEE DETAIL
N.T.S

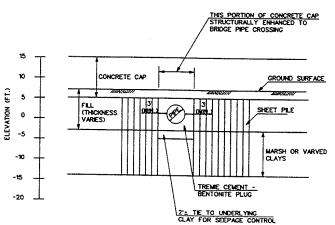
NOTE: 50' MINIMUM SETBACK REQUIRED FOR LEVEES ADJUSTED TO EXISTING BULKHEADS



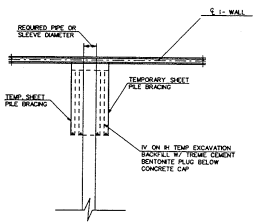
CELLULAR COFFERDAM
CIRCULAR - TYPE
TYPICAL SECTION
SCALE: 1" = 10'



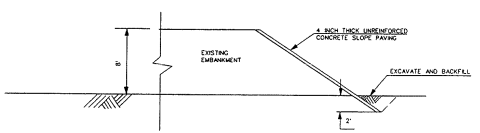
BOX PILING TYPICAL SECTION
NO EASEMENTS REQUIRED
SCALE: 1" = 10'



IN - PLACE PIPE CROSSING DETAIL
SCALE: 1" = 5'



IN - PLACE PIPE CROSSING DETAIL PLAN
SCALE: 1" = 5'



FLOODSIDE CONCRETE SLOPE PAVING
FOR PSE & G AND RR EMBANKMENTS
SCALE: 1" = 5'

SCALE IN FEET
10 0 10 20 30

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Passaic River Flood Damage Reduction Project

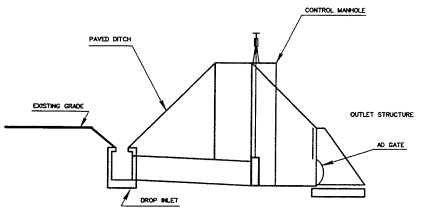
GENERAL DESIGN MEMORANDUM

TYPICAL CONSTRUCTION DETAILS PASSAIC RIVER TIDAL AREA PROTECTION
LEVEE / FLOODWALL SYSTEMS

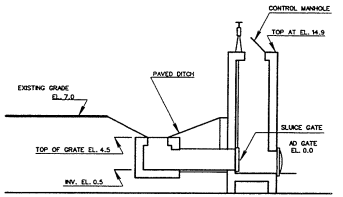
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DATE: MARCH 1995 | PREPARED BY: J.A.Y. | SHEET OF

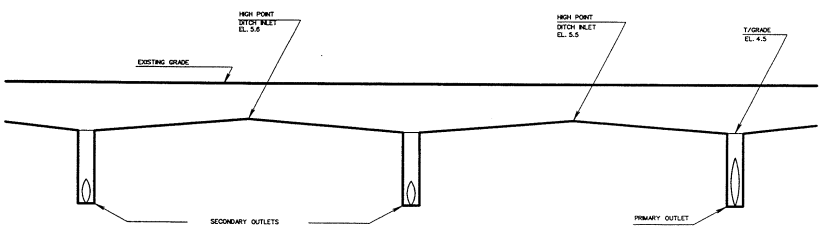
Figure C-106d



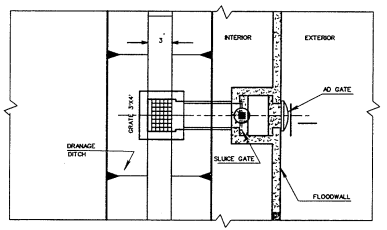
LEVEE SECTION - CROSS SECTION DETAILS



FLOOD WALL SECTION - CROSS SECTION DETAILS



DRANAGE DITCH DETAILS



FLOODWALL SECTION - PLAN VIEW DETAILS

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PASSAIC RIVER DIVISION
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Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

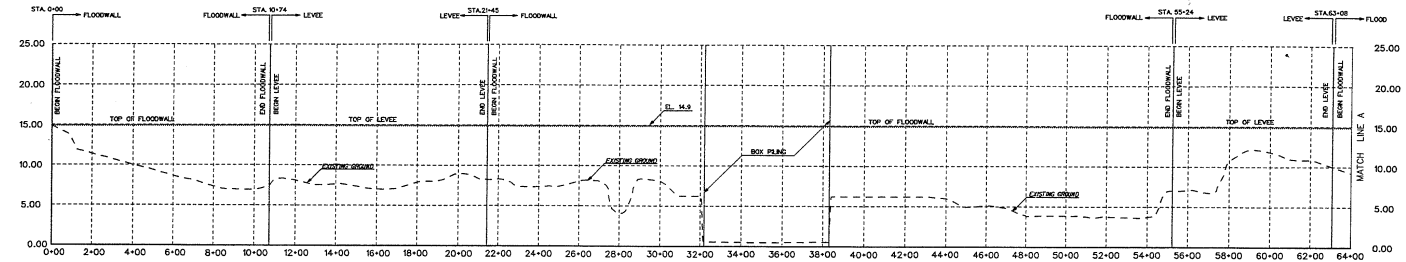
PASSIAC RIVER TIDAL AREA PROTECTION
TYPICAL INTERIOR FLOOD
DAMAGE REDUCTION FACILITIES

REVISED:

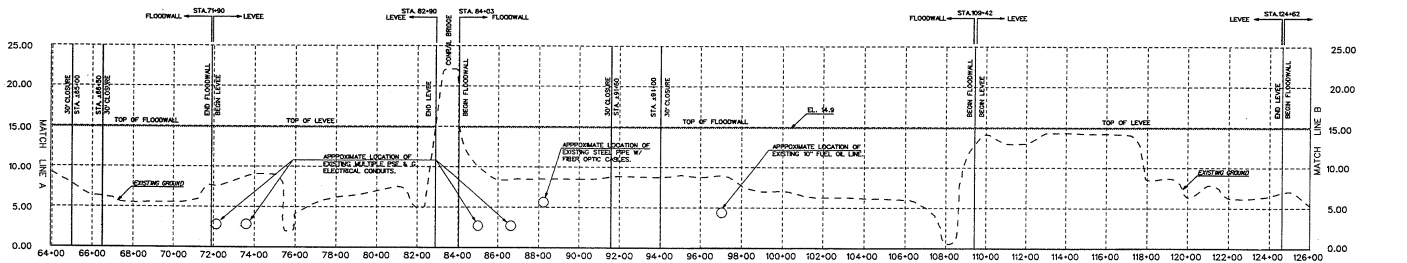
DATE: MARCH 1995 | PREPARED BY: JAV | SHEET OF OF

E 2101000 E 2102000 E 2103000

Figure C-106e



PROFILE LISTER / TURNPIKE / DOREMUS LEVEE / FLOODWALL STATION 0+00 - 64+00



PROFILE LISTER / TURNPIKE / DOREMUS LEVEE / FLOODWALL STATION 64+00 -126+00

SCALE IN FEET

VERTICAL 5 0 5 10 15

HORIZONTAL 200 0 200 400 600

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PASSAIC RIVER DIVISION
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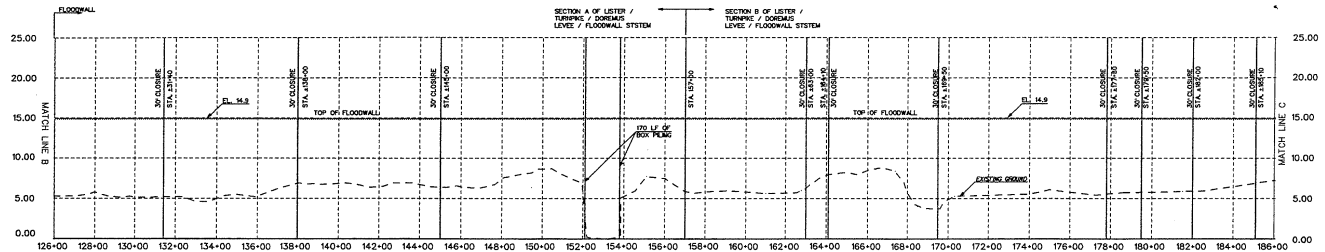
GENERAL DESIGN MEMORANDUM

PROFILE LISTER / TURNPIKE / DOREMUS LEVEE
FLOODWALL SYSTEM STATION 0+00 - 126+00

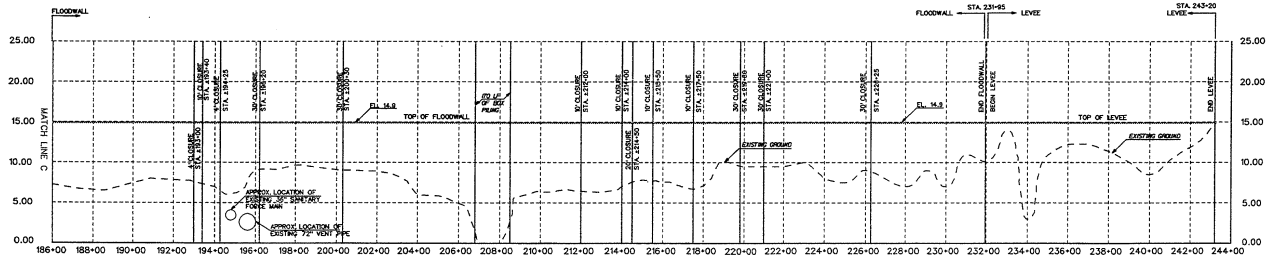
REVISED:

DATE: MARCH 1995 | PREPARED BY: J.A.V | SHEET 6 OF 9

Figure C-107a



PROFILE LISTER / TURNPIKE / DOREMUS LEVEE / FLOODWALL SYSTEM SECTION A -SECTION B / STATION 126+00 - 186+00



PROFILE LISTER / TURNPIKE / DOREMUS LEVEE / FLOODWALL SYSTEM SECTION B / STATION 186+00 - 244+00

SCALE IN FEET

VERTICAL 5 0 5 10 15

HORIZONTAL 200 0 200 400 600

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

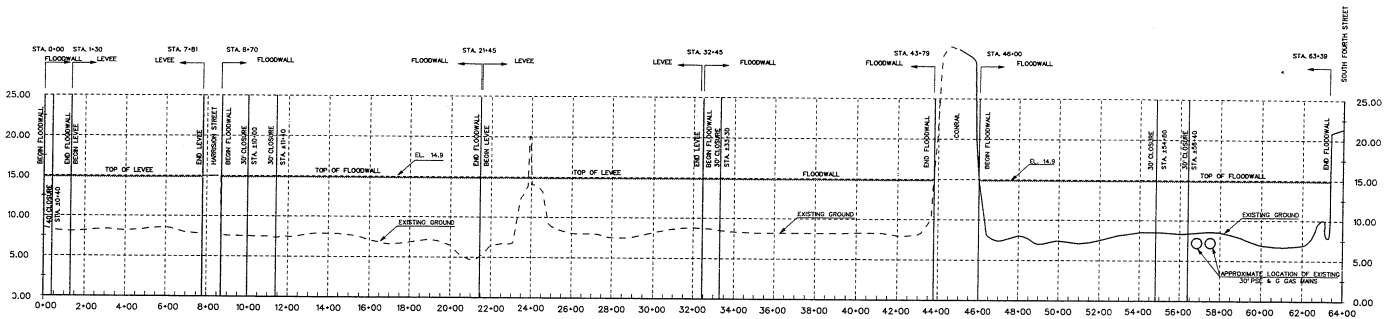
GENERAL DESIGN MEMORANDUM

PROFILE LISTER /TURNPIKE / DOREMUS LEVEE FLOODWALL SYSTEM STATION 126+00 - 244+00

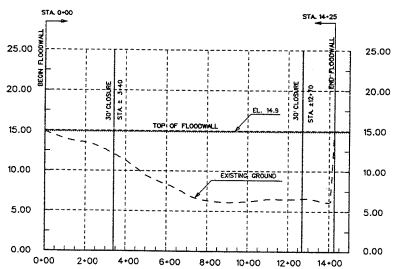
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Figure C-107b



PROFILE FLOODWALL / LEVEE 1 - SOUTH 1st. STREET LEVEE / FLOODWALL SYSTEM STATION 0+00 - 63+39



PROFILE FLOODWALL 2 - SOUTH 1st. STREET LEVEE / FLOODWALL SYSTEM STATION 0+00 - 14+25

SCALE IN FEET
VERT. 5 0 5 10 15
SCALE IN FEET
HORIZ. 200 0 200 400 600

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GENERAL DESIGN MEMORANDUM

PROFILE SOUTH 1st. STREET
LEVEE / FLOODWALL SYSTEM

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Figure C-108

Remaining figures (Figures C-109a through C-176)

will be found in Volume I.

****

Plates 1 through 181 follow this page.

Plates

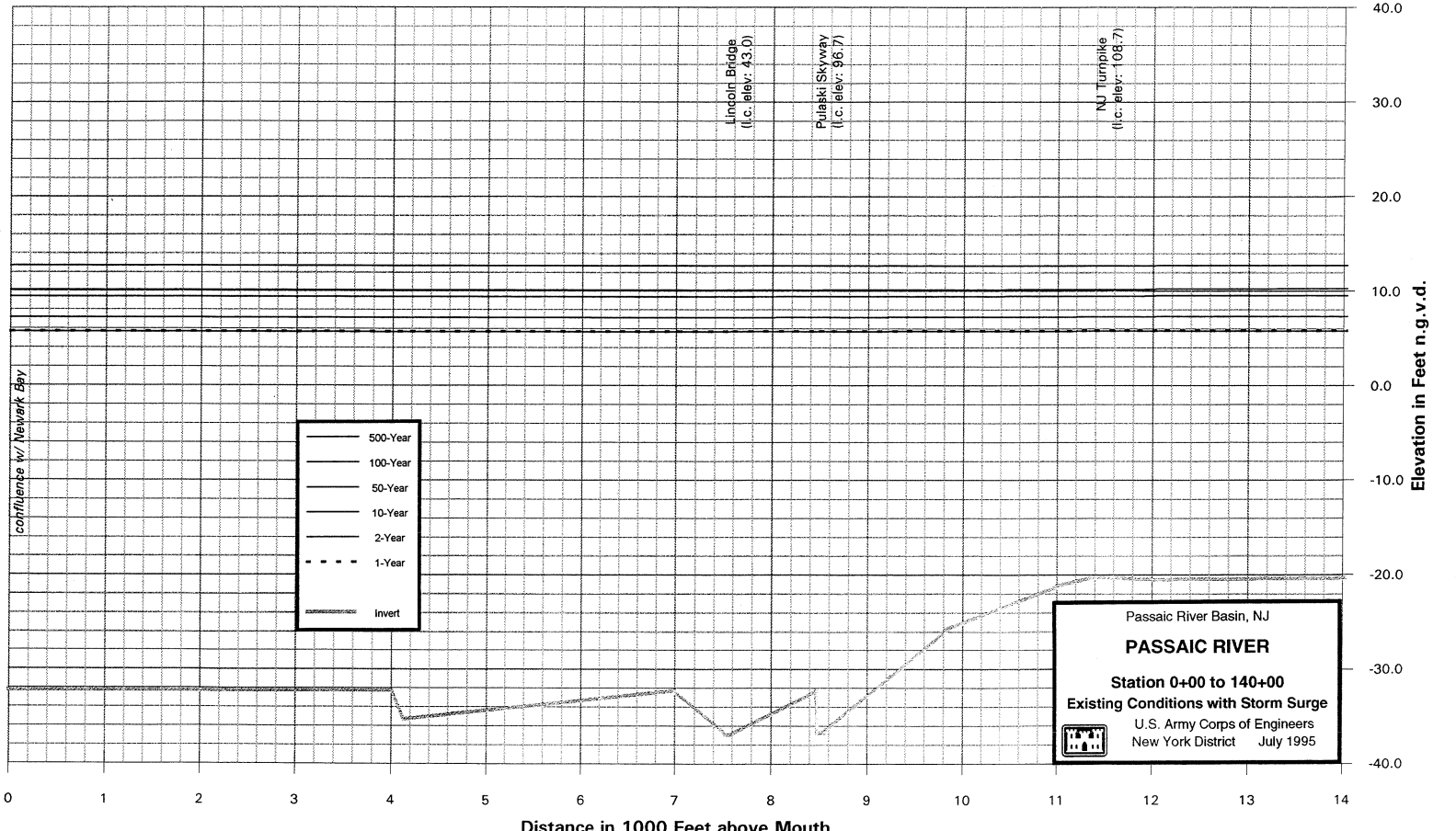

Lincoln Bridge
(l.c. elev: 43.0)
Pulaski Skyway
(l.c. elev: 96.7)
NJ Turnpike
(l.c. elev: 108.7)
confluence w/ Newark Bay
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 0+00 to 140+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C–1

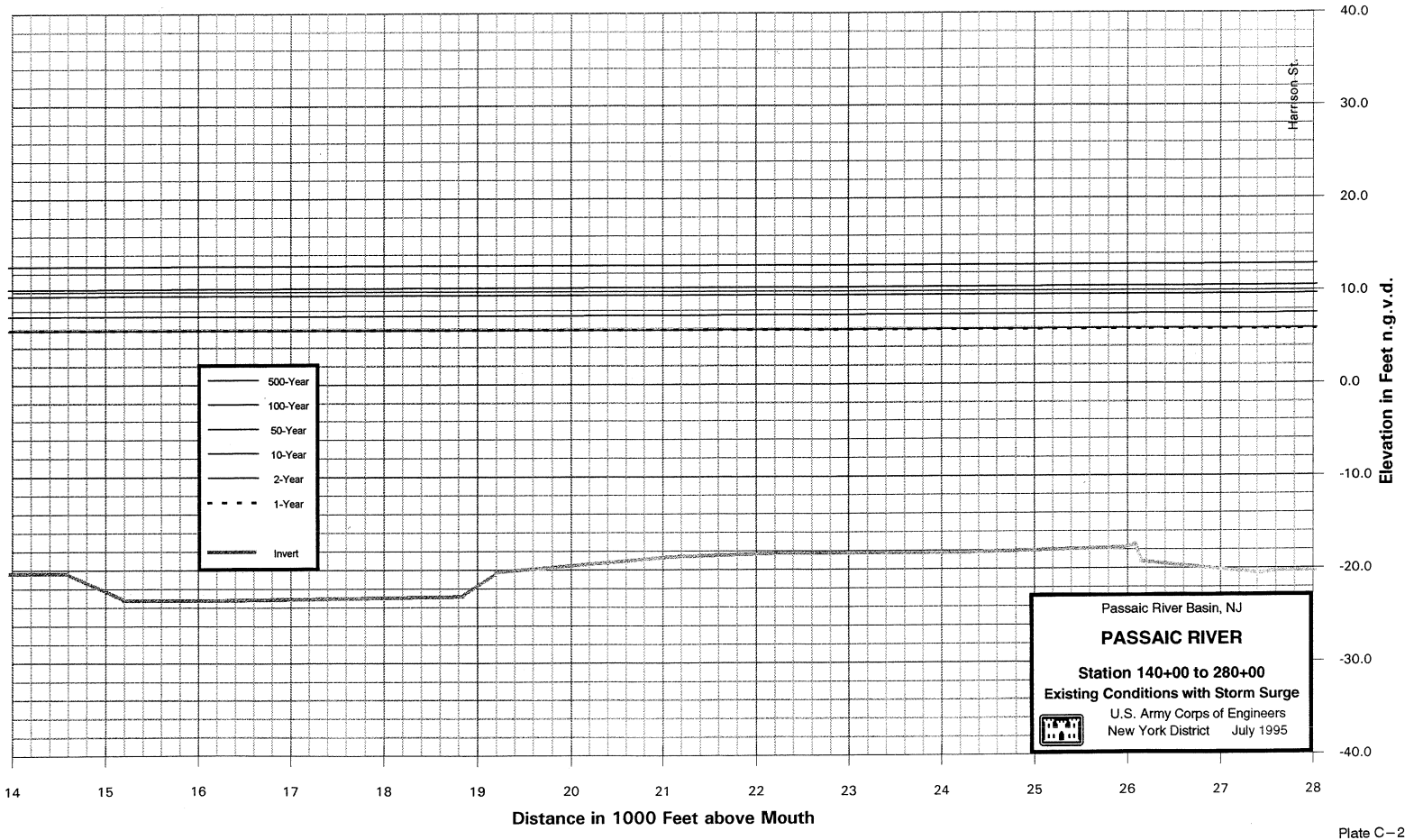

Harrison St.
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 140+00 to 280+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C–2

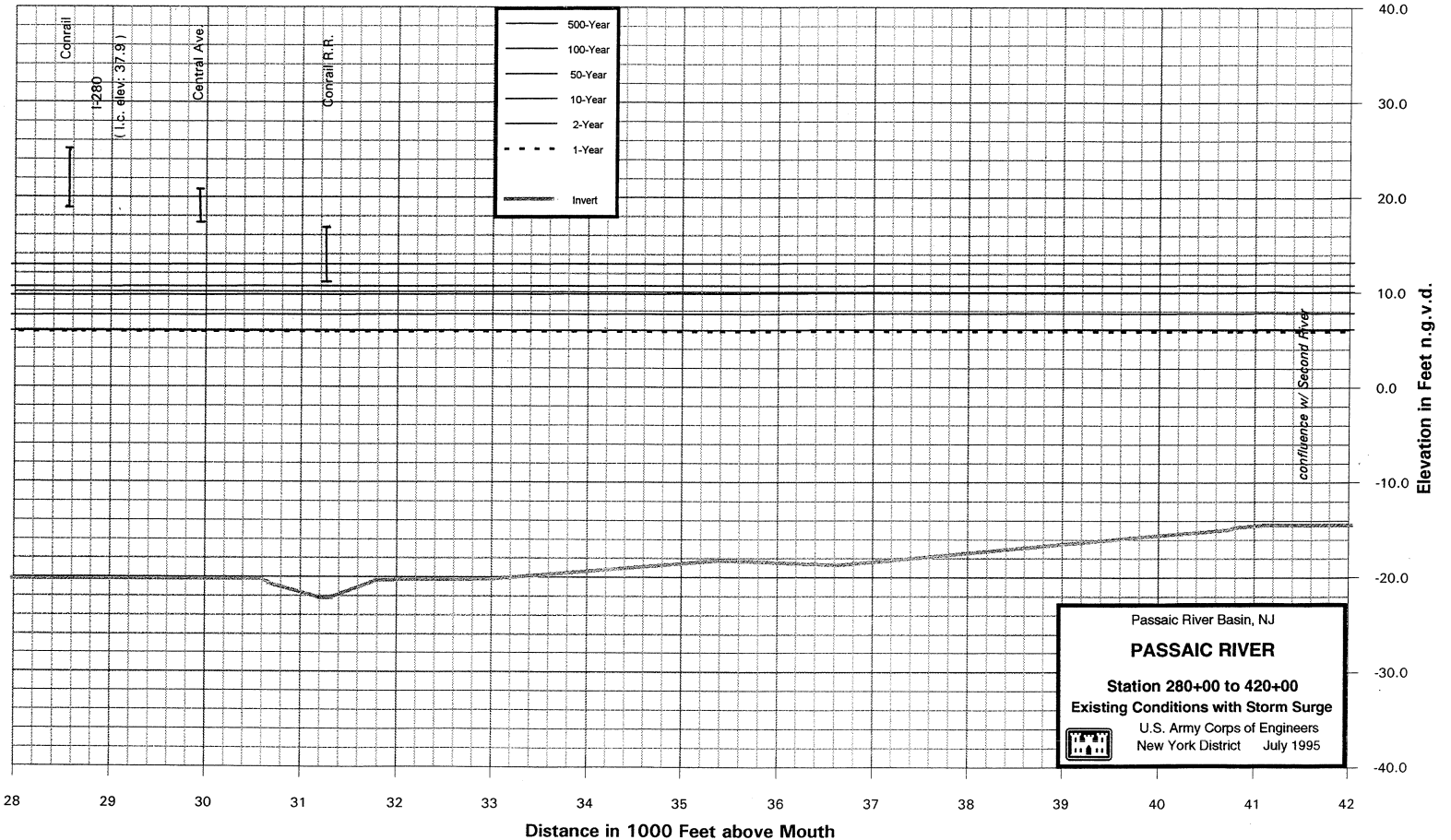

Conrail
I-280
(l.c. elev: 37.9)
Central Ave.
Conrail R.R.
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
confluence w/ Second River
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 280+00 to 420+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C–3

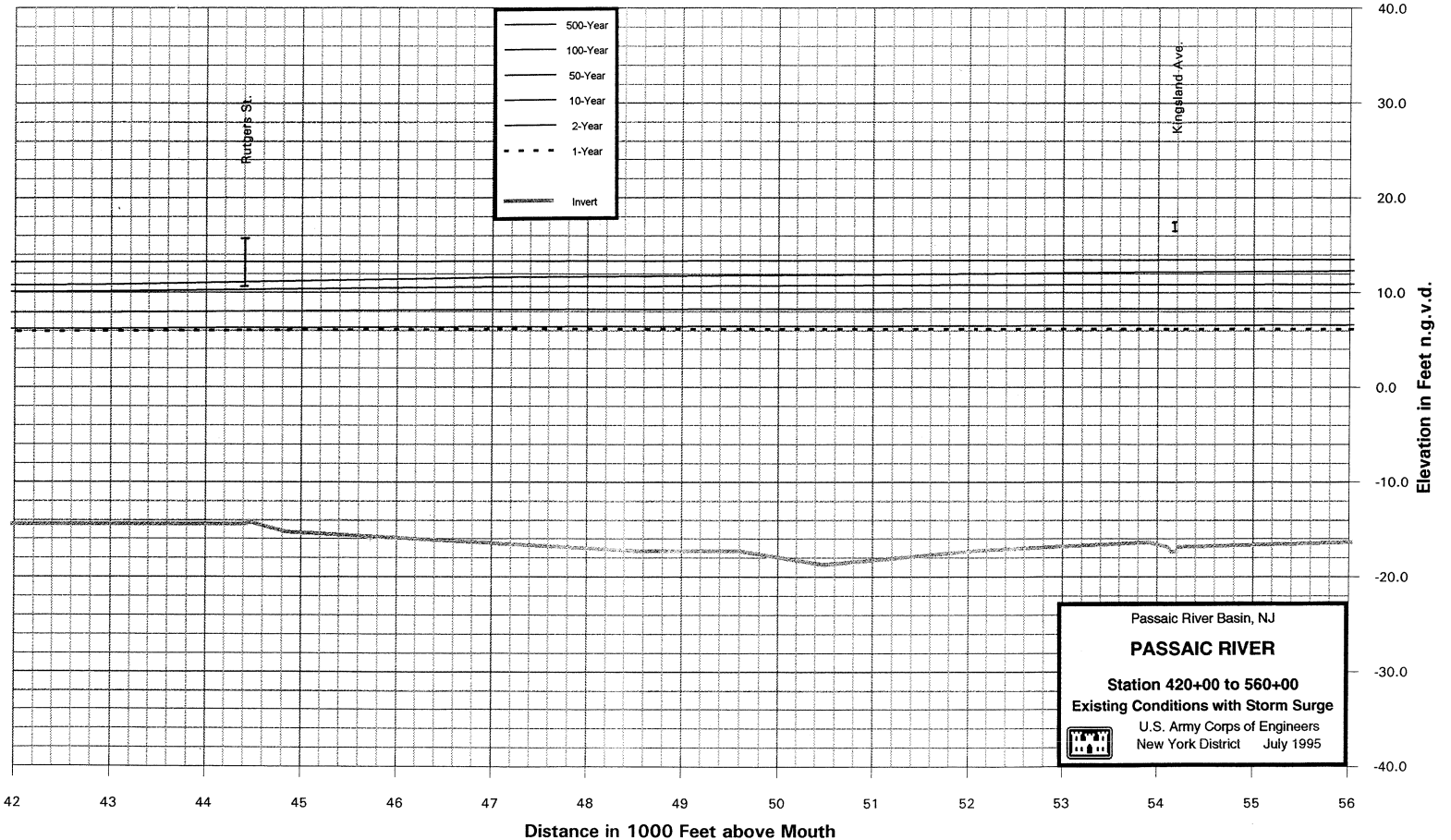

500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Rutgers St.
Kingsland Ave.
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 420+00 to 560+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C–4

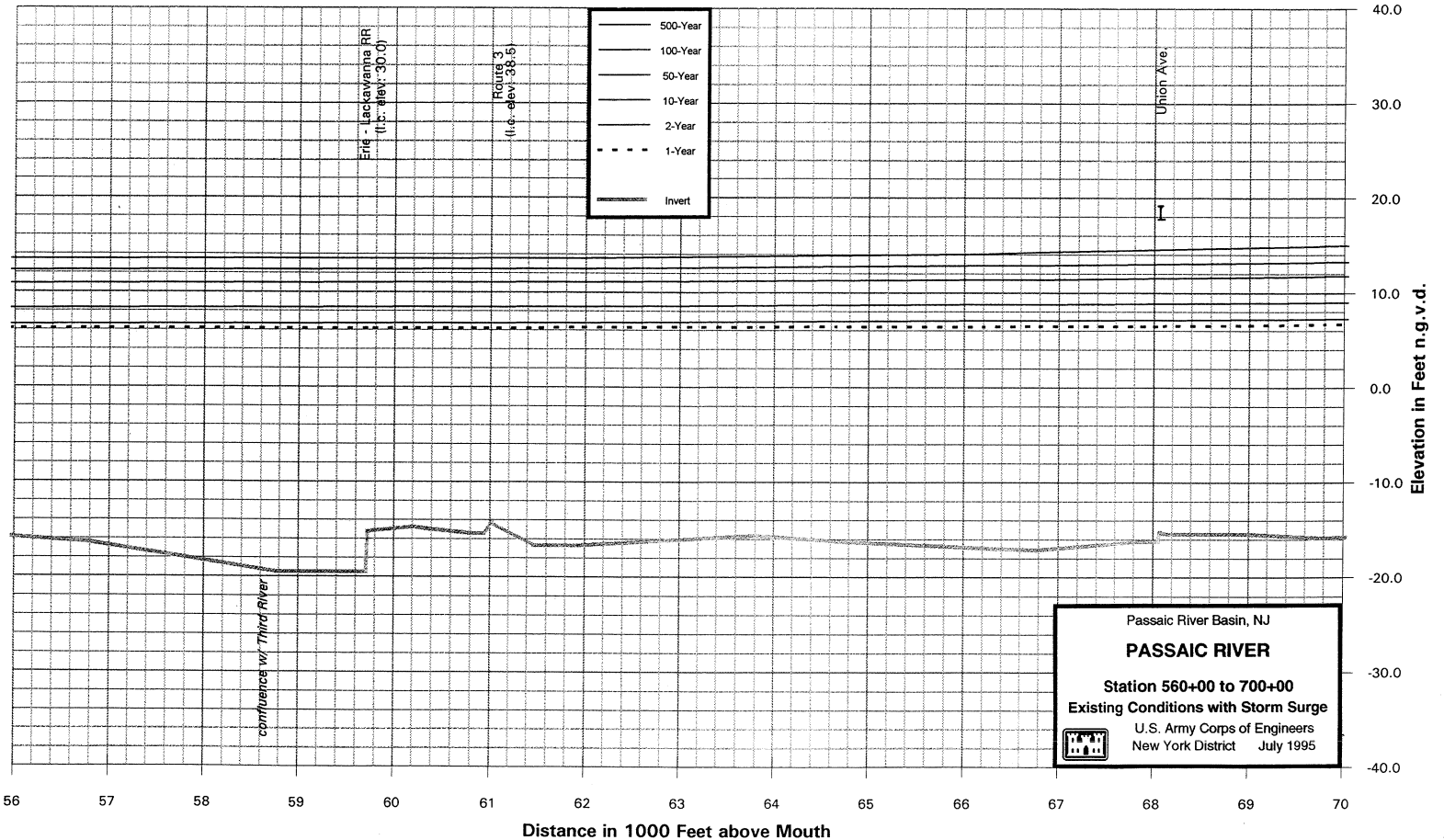

500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Erie - Lackawanna RR
(l.t.: elev: 30.0)
Route 3
(l.t.: elev: 38.5)
Union Ave.
confluence w/ Third River
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 560+00 to 700+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C–5

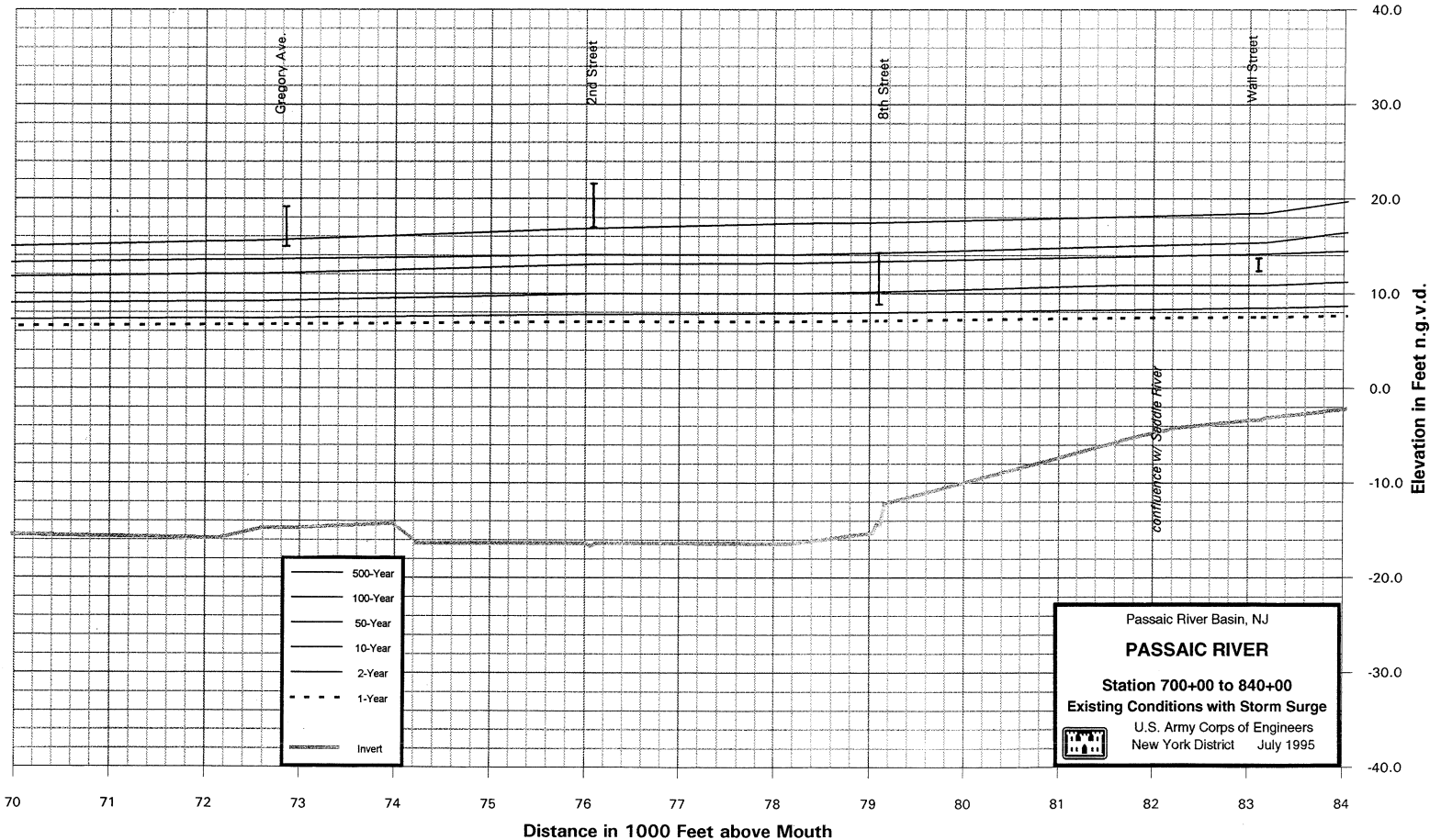

Gregory Ave.
2nd Street
8th Street
Wall Street
confluence w/ Saddle River
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 700+00 to 840+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
Distance in 1000 Feet above Mouth

Plate C–6

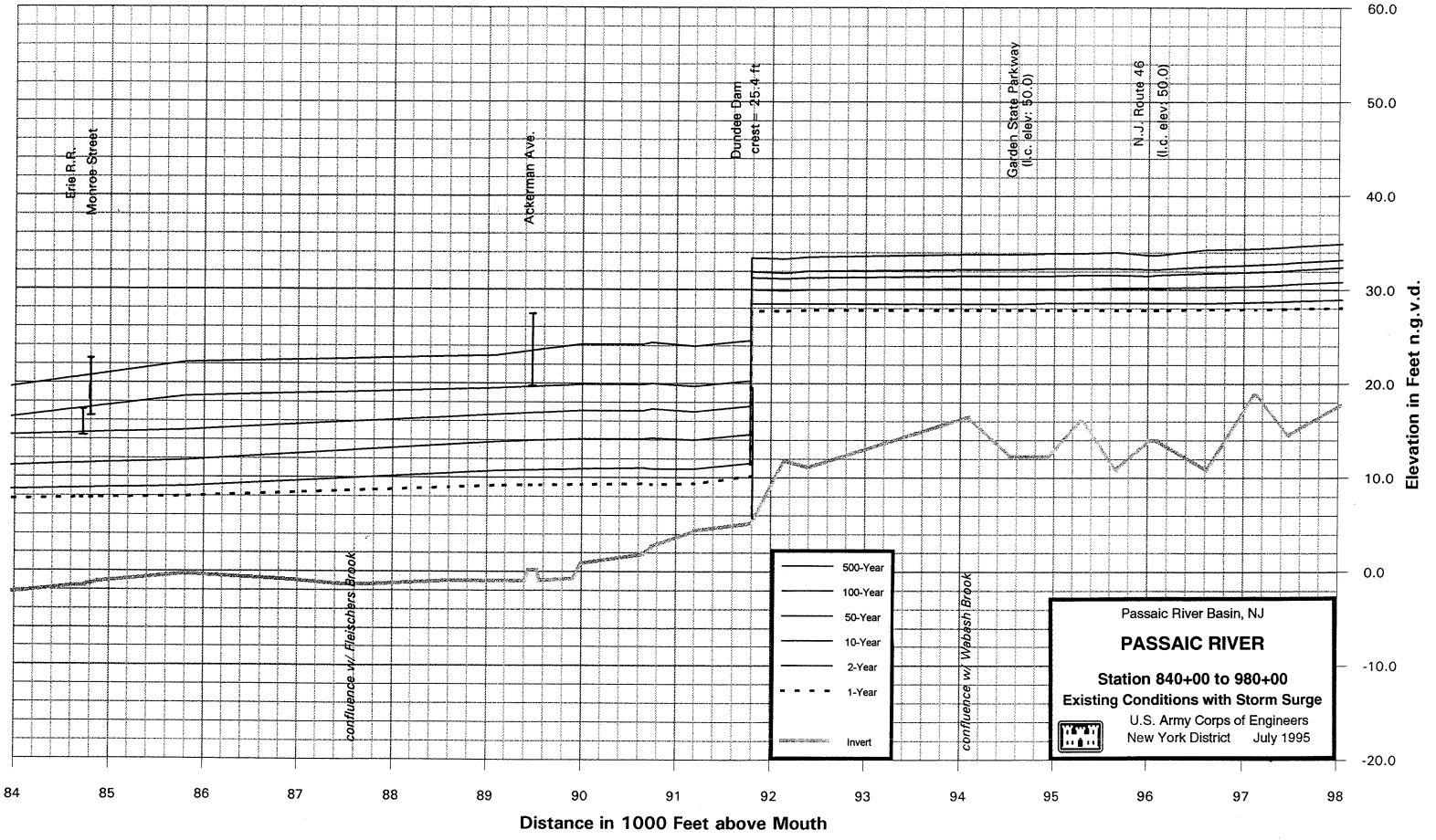

Erie R.R.
Monroe Street
Ackerman Ave.
Dundee Dam
crest = 25.4 ft.
Garden State Parkway
(l.c. elev. 50.0)
N.J. Route 46
(l.c. elev. 50.0)
confluence w/ Fleischers Brook
confluence w/ Wabash Brook
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 840+00 to 980+00
Existing Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
Elevation in Feet n.g.v.d.
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
Distance in 1000 Feet above Mouth

Plate C–7

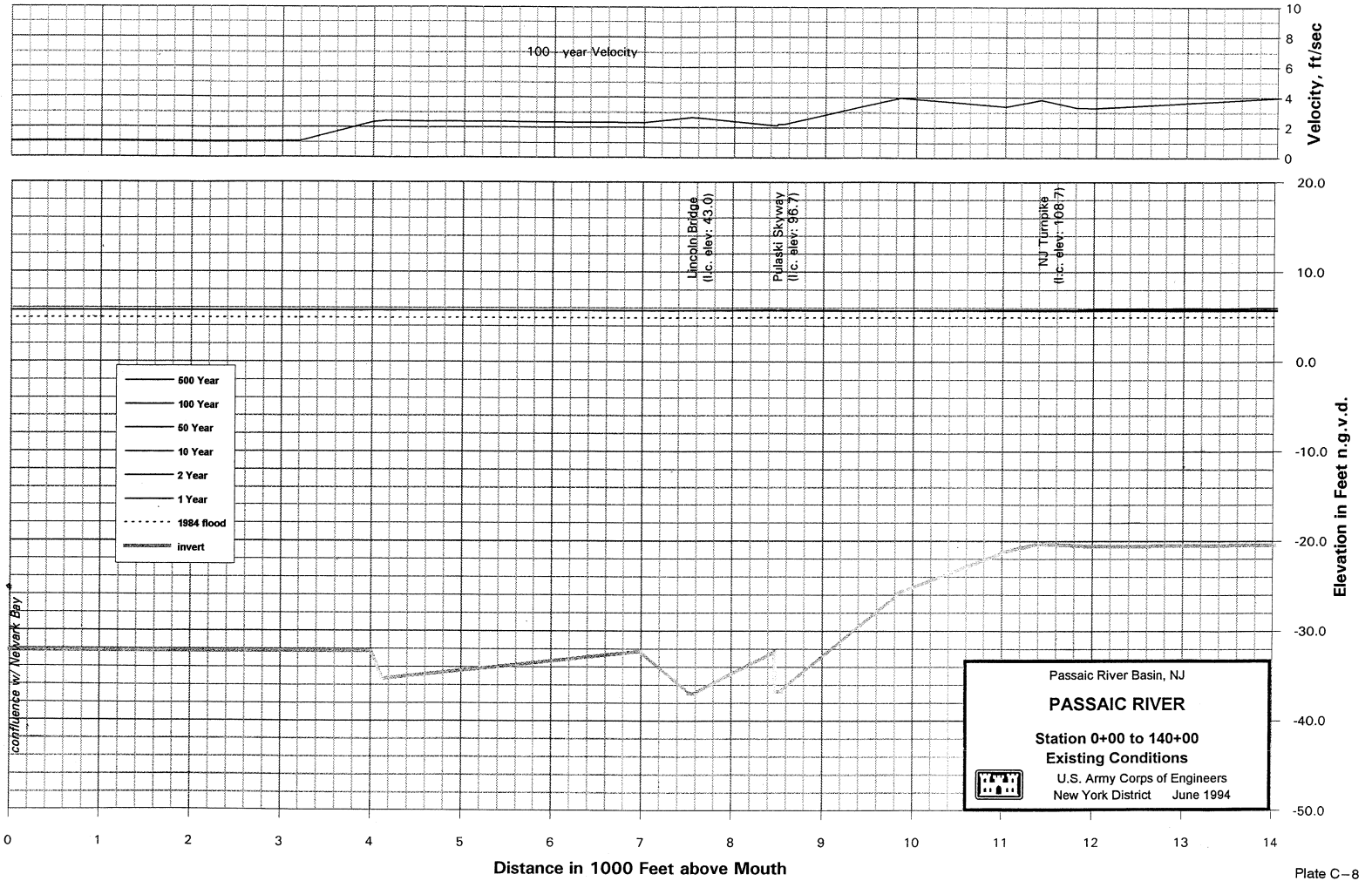

100 year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Lincoln Bridge
(l.c. elev: 43.0)
Pulaski Skyway
(l.c. elev: 96.7)
NJ Turnpike
(l.c. elev: 108.7)
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
confluence w/ Newark Bay
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994

Plate C–8

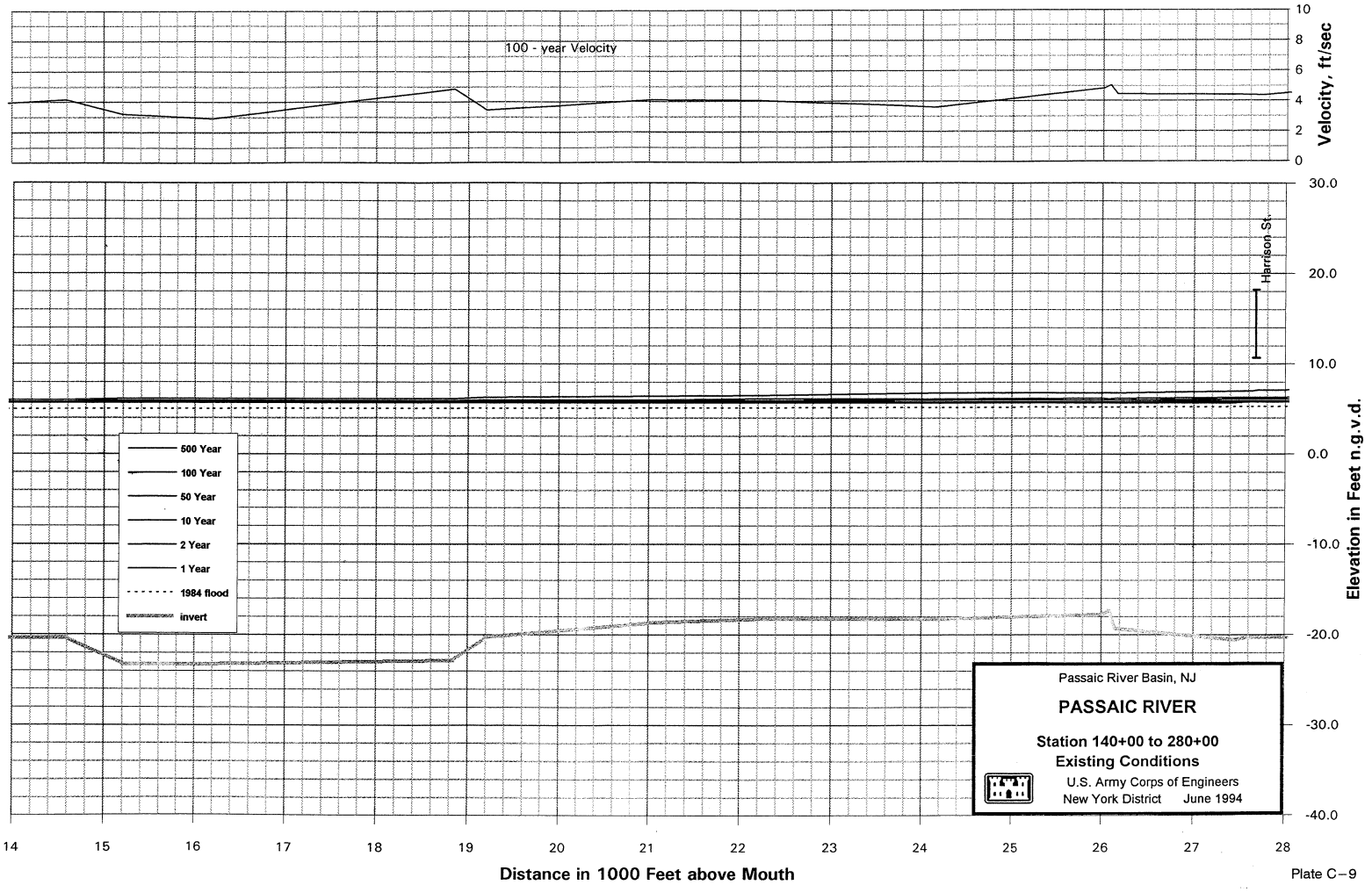

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
Harrison St.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 140+00 to 280+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

Plate C–9

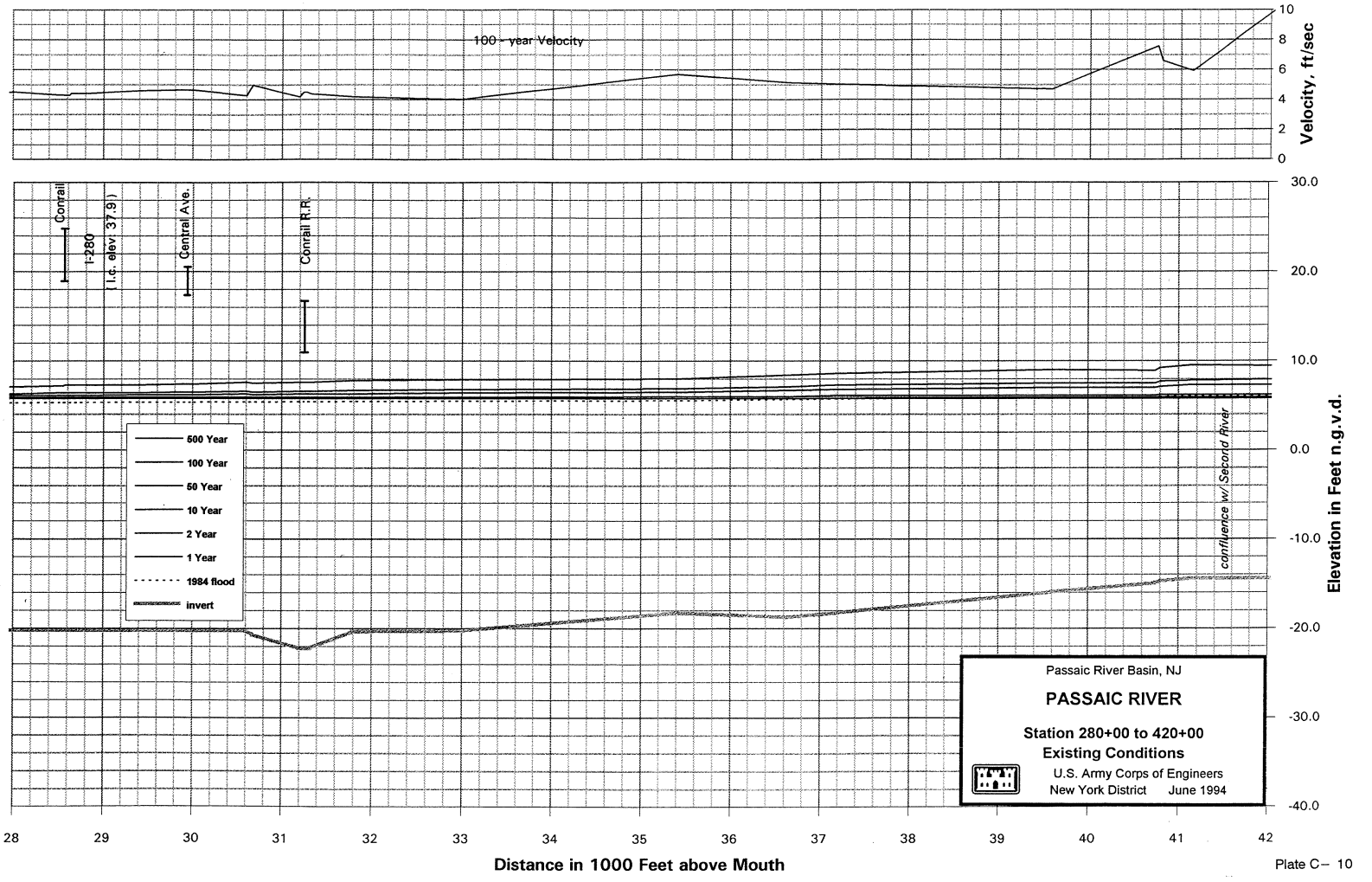
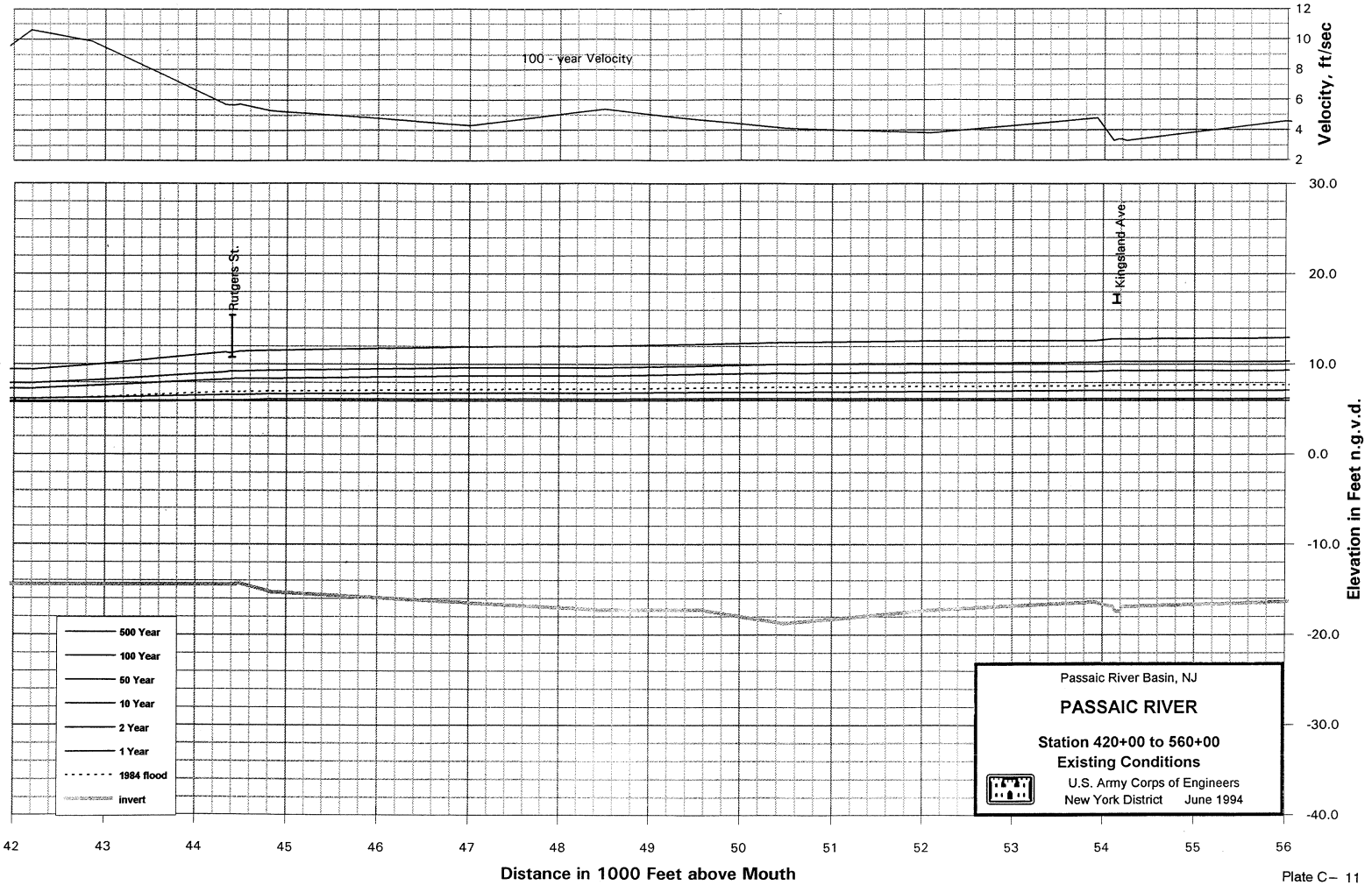
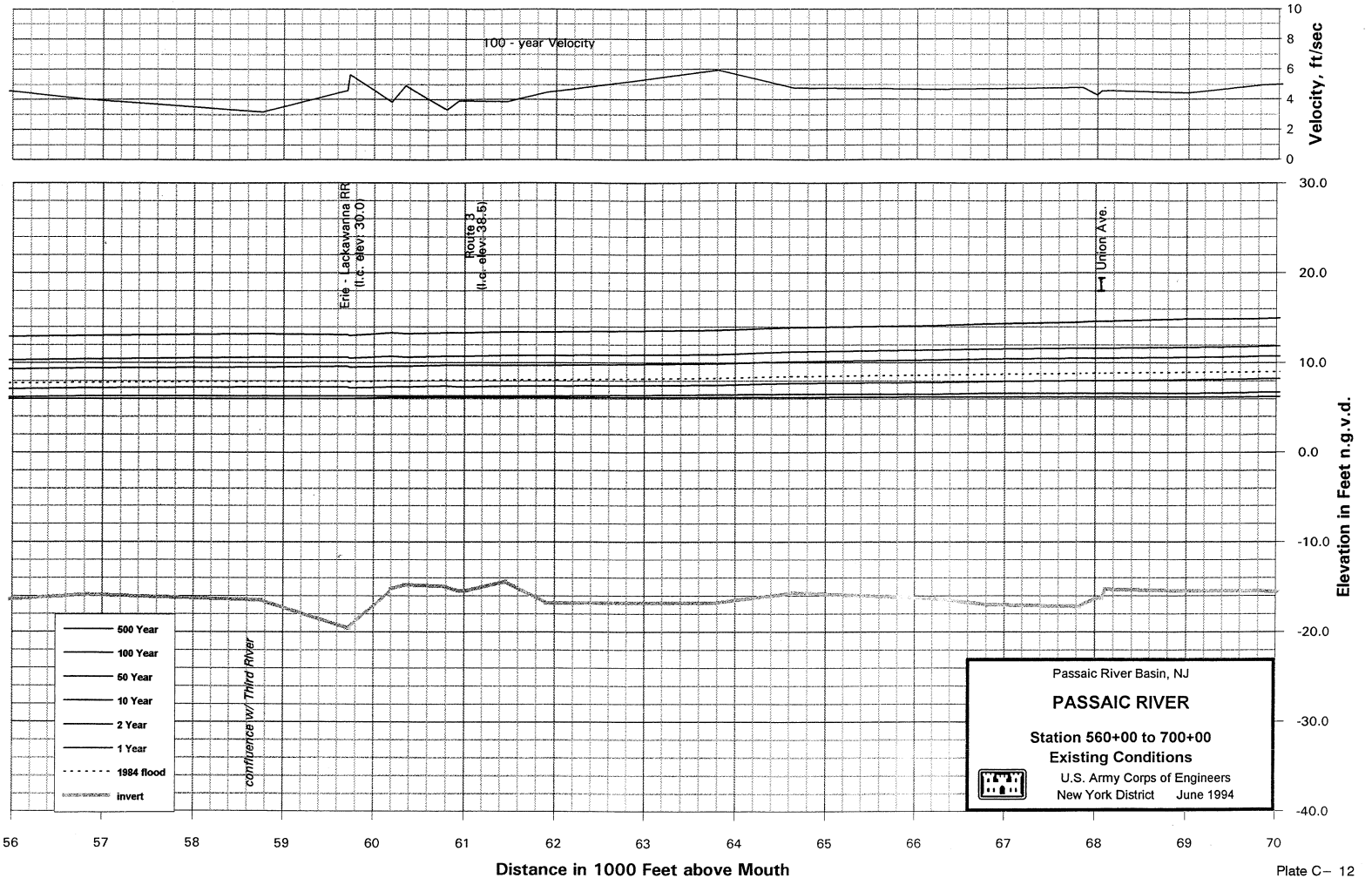

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Conrail
I-280
(I.c. elev. 37.9)
Central Ave.
Conrail R.R.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
confluence w/ Second River
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 280+00 to 420+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994

Plate C– 10


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Rutgers St.
Kingsland Ave.
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 420+00 to 560+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Erie - Lackawanna RR
(t.c. elev. 30.0)
Route 3
(t.c. elev. 38.5)
Union Ave.
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
confluence w/ Third River
Passaic River Basin, NJ
PASSAIC RIVER
Station 560+00 to 700+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
Distance in 1000 Feet above Mouth

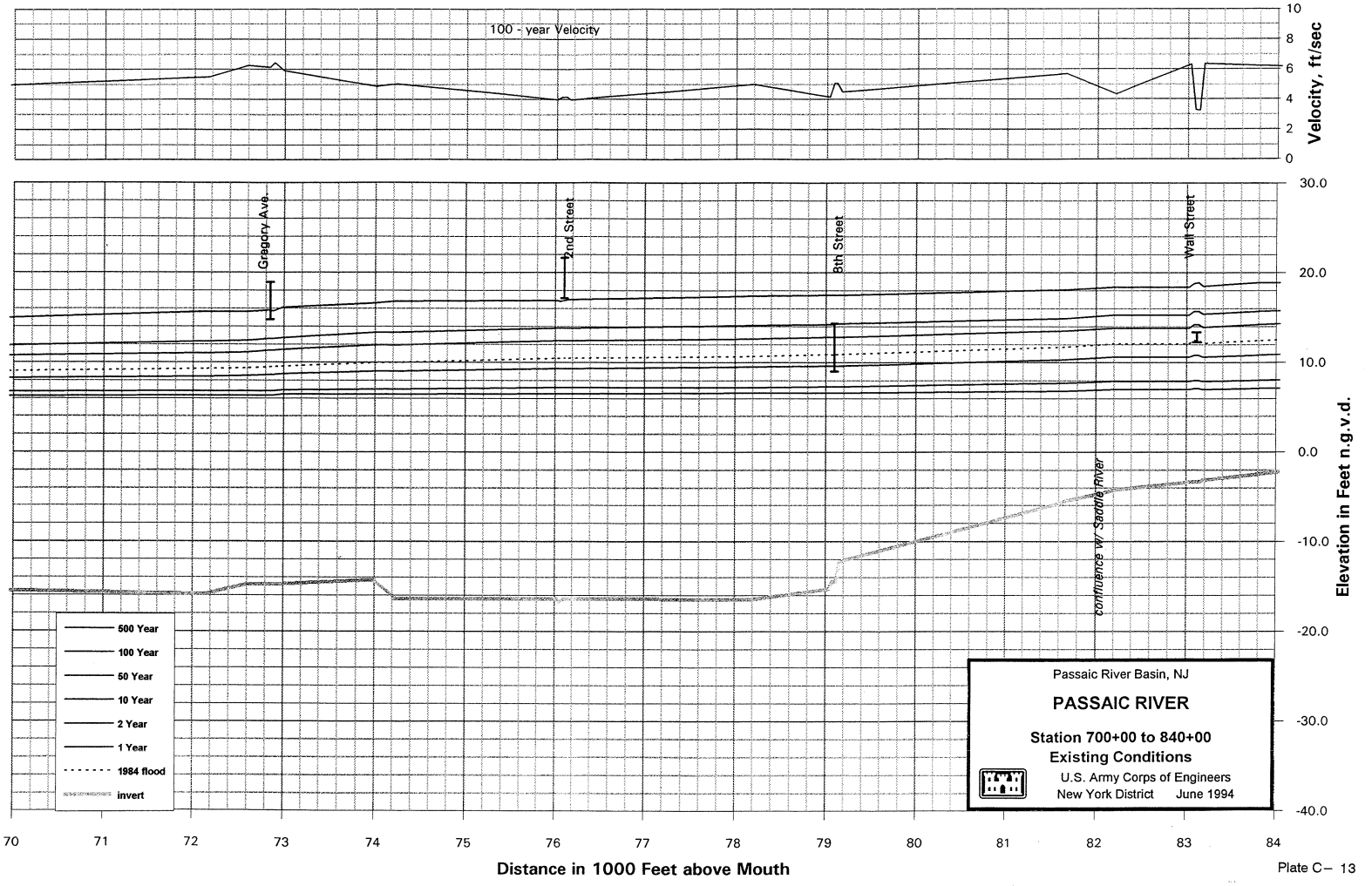
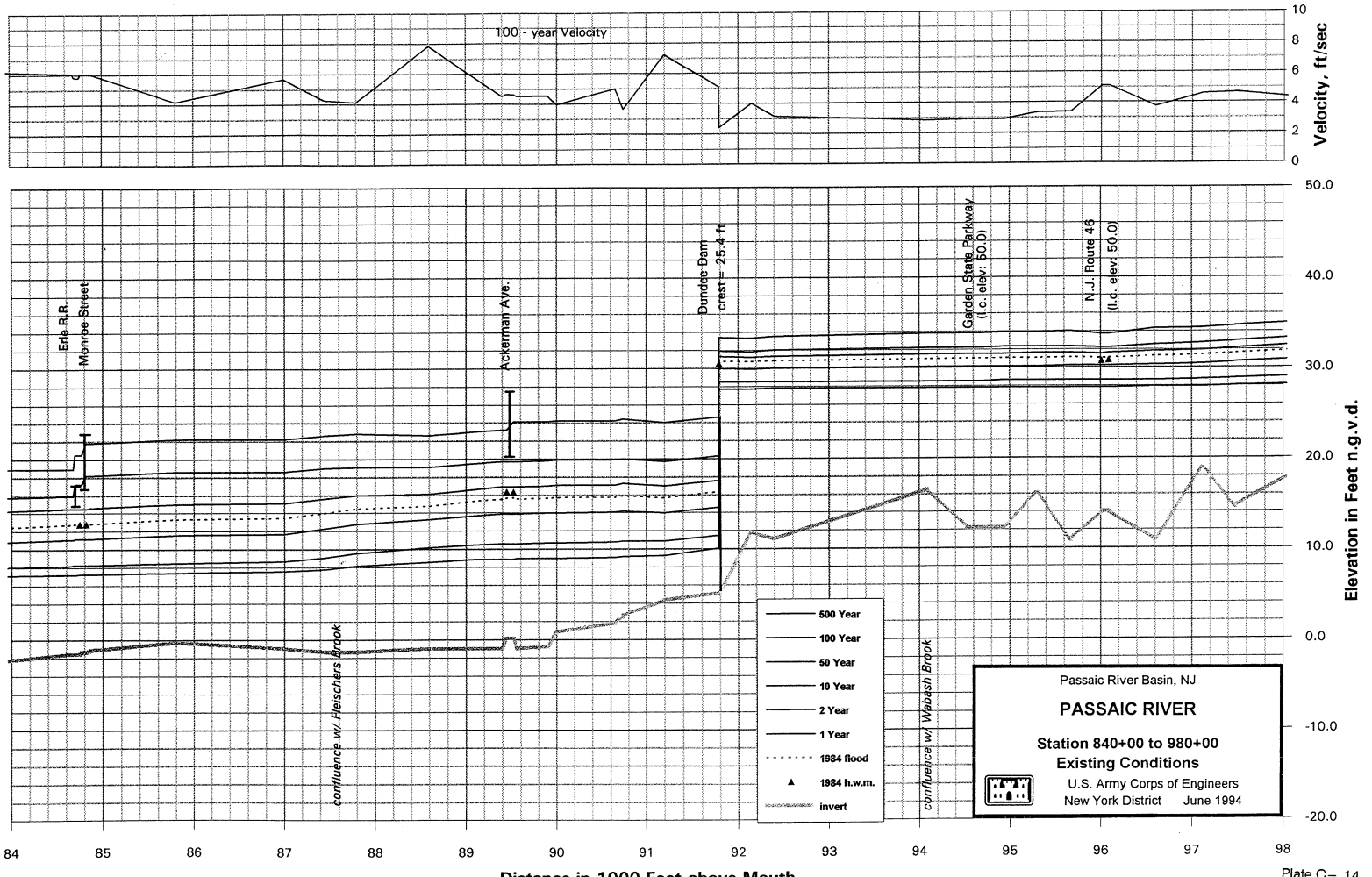

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Gregory Ave.
2nd Street
8th Street
Wall Street
confluence w/ Saddle River
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 700+00 to 840+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
Distance in 1000 Feet above Mouth

Plate C– 13



Passaic River Basin, NJ

PASSAIC RIVER

Station 840+00 to 980+00
Existing Conditions

U.S. Army Corps of Engineers
New York District June 1994

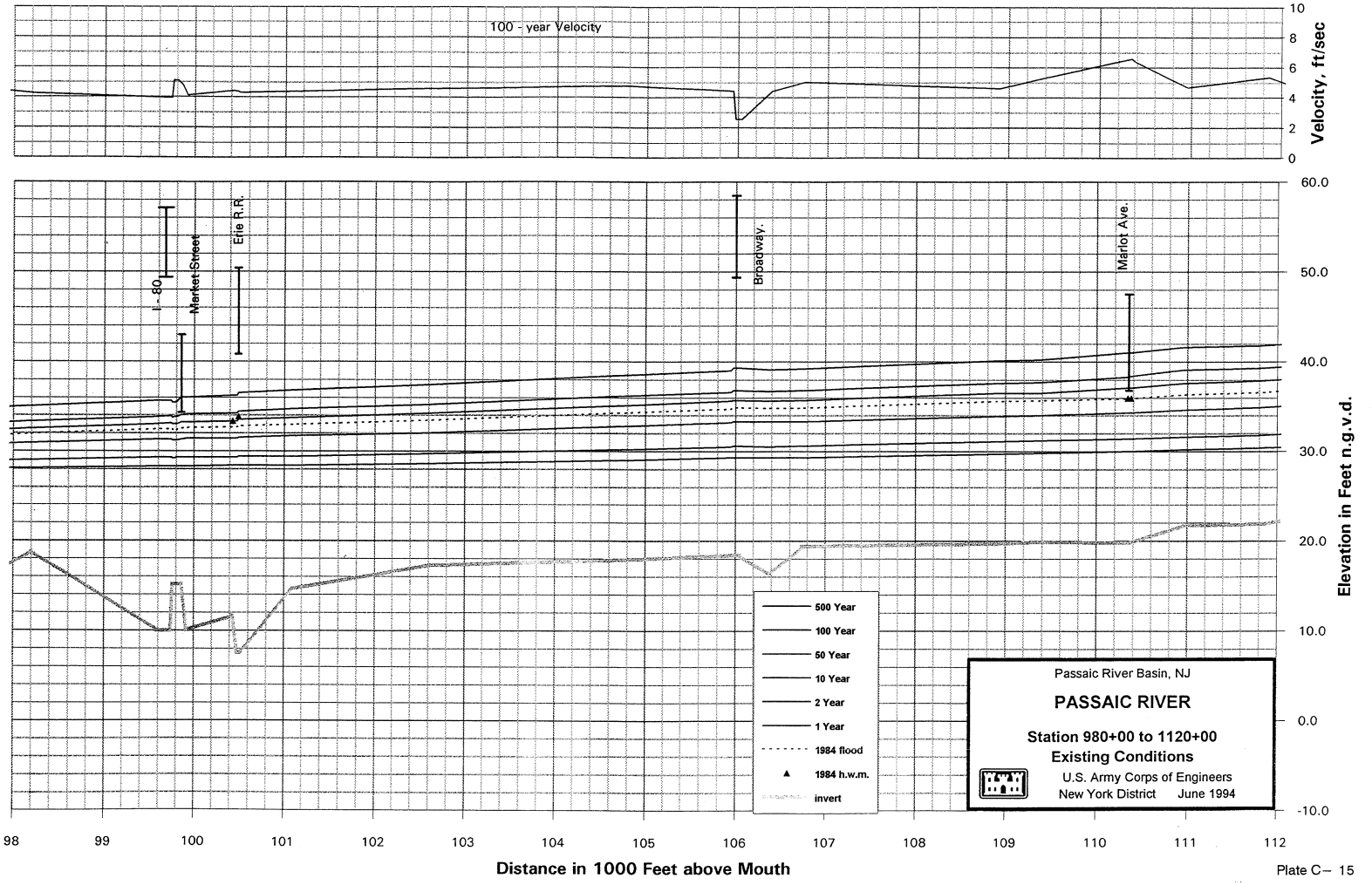

100 - year Velocity
10
8
6
4
2
0
Velocity, ft/sec
I - 80
Market Street
Erie R.R.
Broadway
Marlot Ave.
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 980+00 to 1120+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
Distance in 1000 Feet above Mouth

Plate C– 15

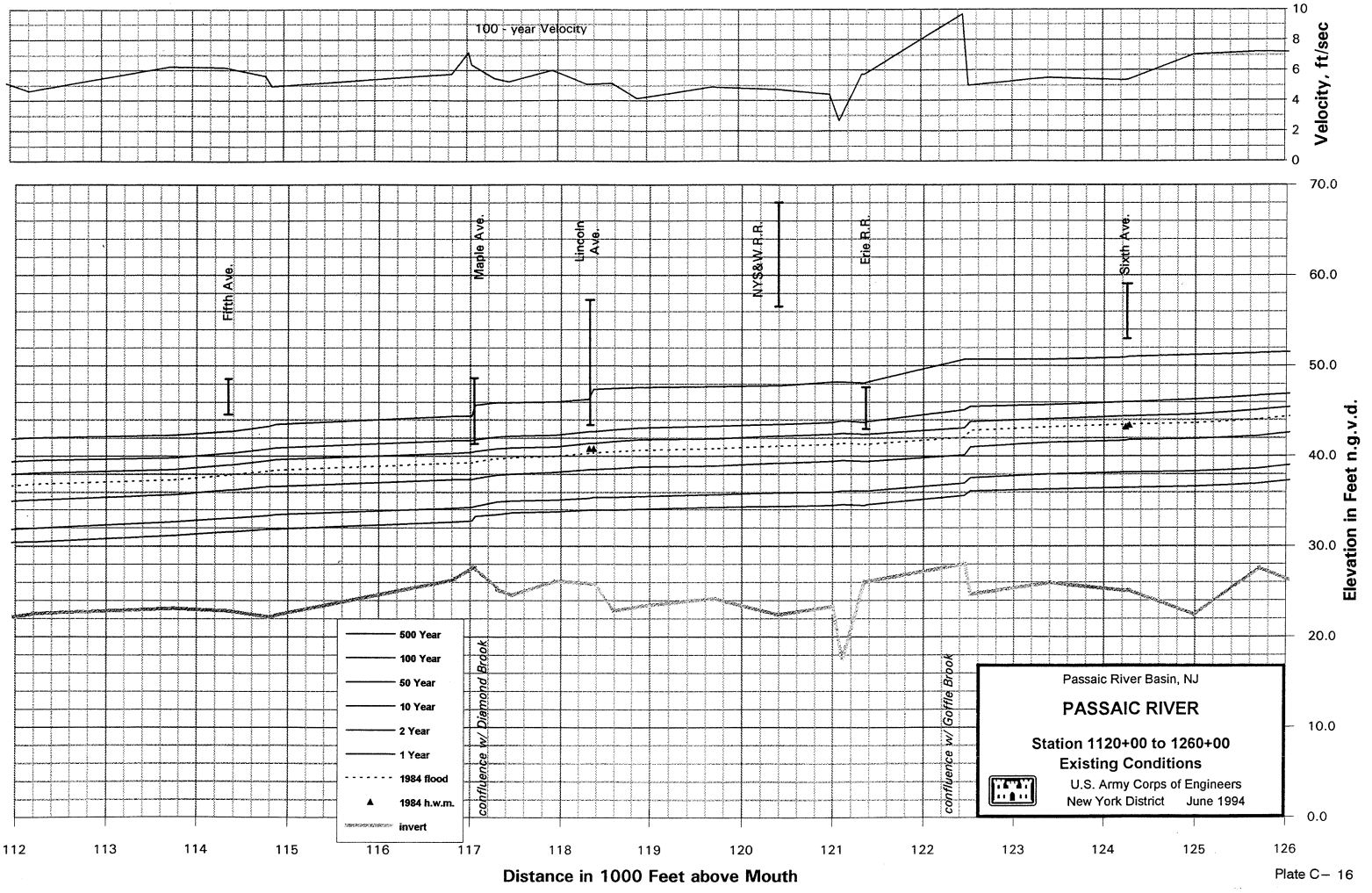
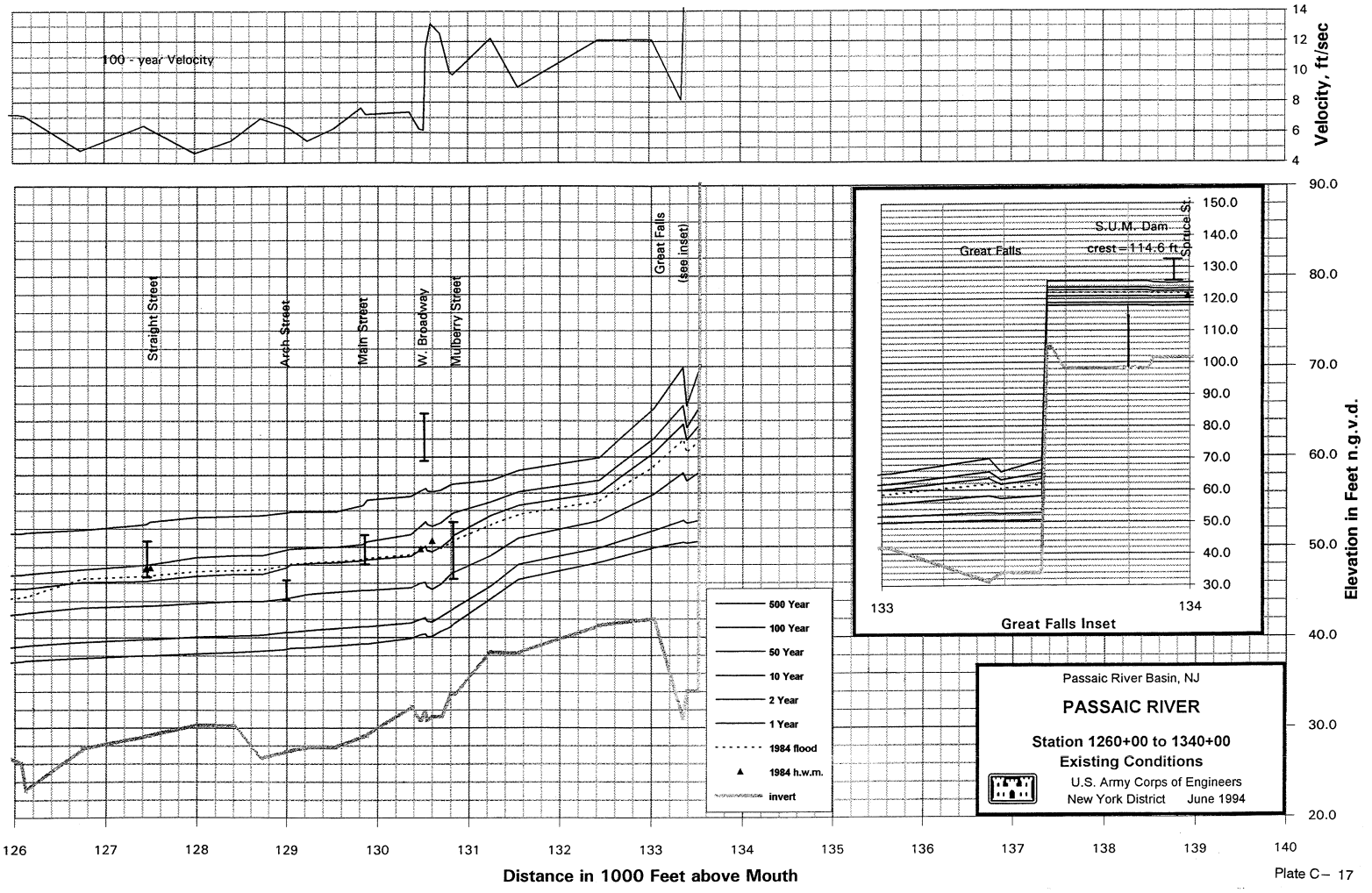

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Fifth Ave.
Maple Ave.
Lincoln Ave.
NYS&W R.R.
Erie R.R.
Sixth Ave.
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Elevation in Feet n.g.v.d.
confluence w/ Diamond Brook
confluence w/ Goffle Brook
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1120+00 to 1260+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
Distance in 1000 Feet above Mouth

Plate C– 16


100 - year Velocity
Velocity, ft/sec
Straight Street
Arch Street
Main Street
W. Broadway
Mulberry Street
Great Falls
(see inset)
Elevation in Feet n.g.v.d.
Distance in 1000 Feet above Mouth
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Great Falls
S.U.M. Dam
crest = 114.6 ft.
Spruce St.
Great Falls Inset
Passaic River Basin, NJ
PASSAIC RIVER
Station 1260+00 to 1340+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994

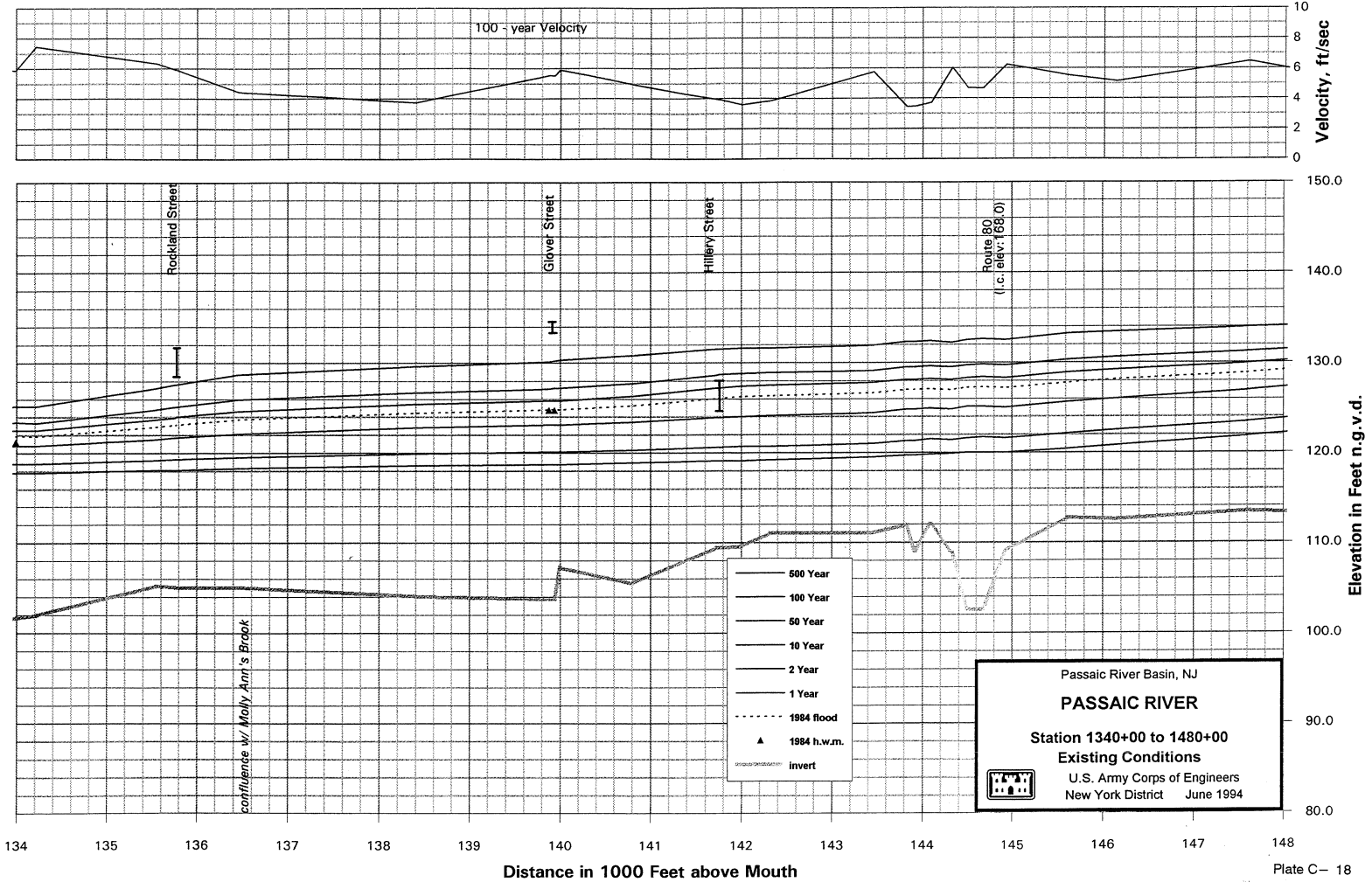

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Rockland Street
Glover Street
Hillery Street
Route 80
(i.c. elev. 168.0)
confluence w/ Molly Ann's Brook
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Elevation in Feet n.g.v.d.
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
Passaic River Basin, NJ
PASSAIC RIVER
Station 1340+00 to 1480+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
Distance in 1000 Feet above Mouth

Plate C– 18

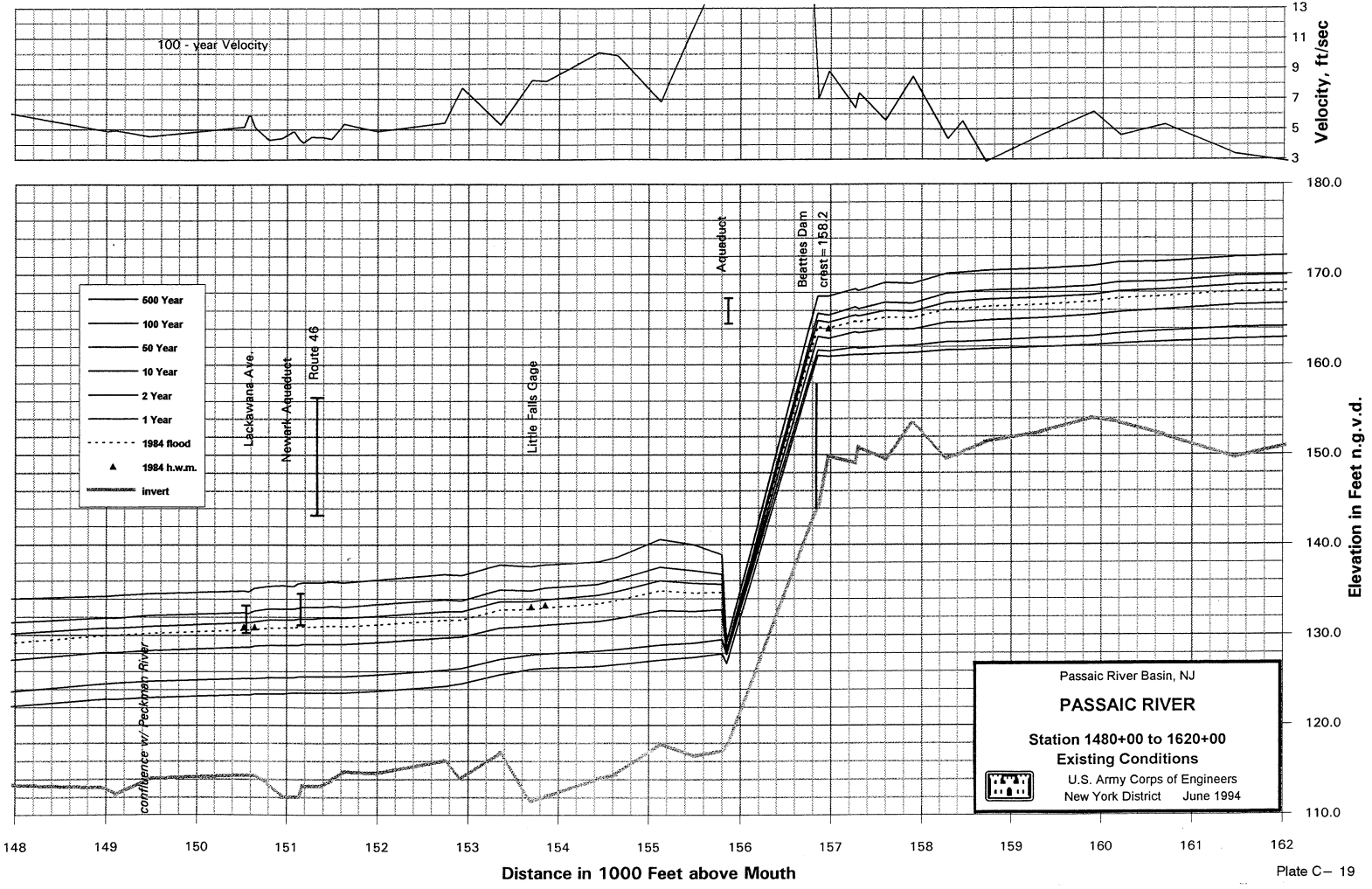

100 - year Velocity
Velocity, ft/sec
13
11
9
7
5
3
180.0
170.0
160.0
150.0
140.0
130.0
120.0
110.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Lackawanna Ave.
Newark Aqueduct
Route 46
Little Falls Gage
Aqueduct
Beatties Dam
crest=158.2
confluence w/ Peckman River
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 1480+00 to 1620+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994

Plate C– 19

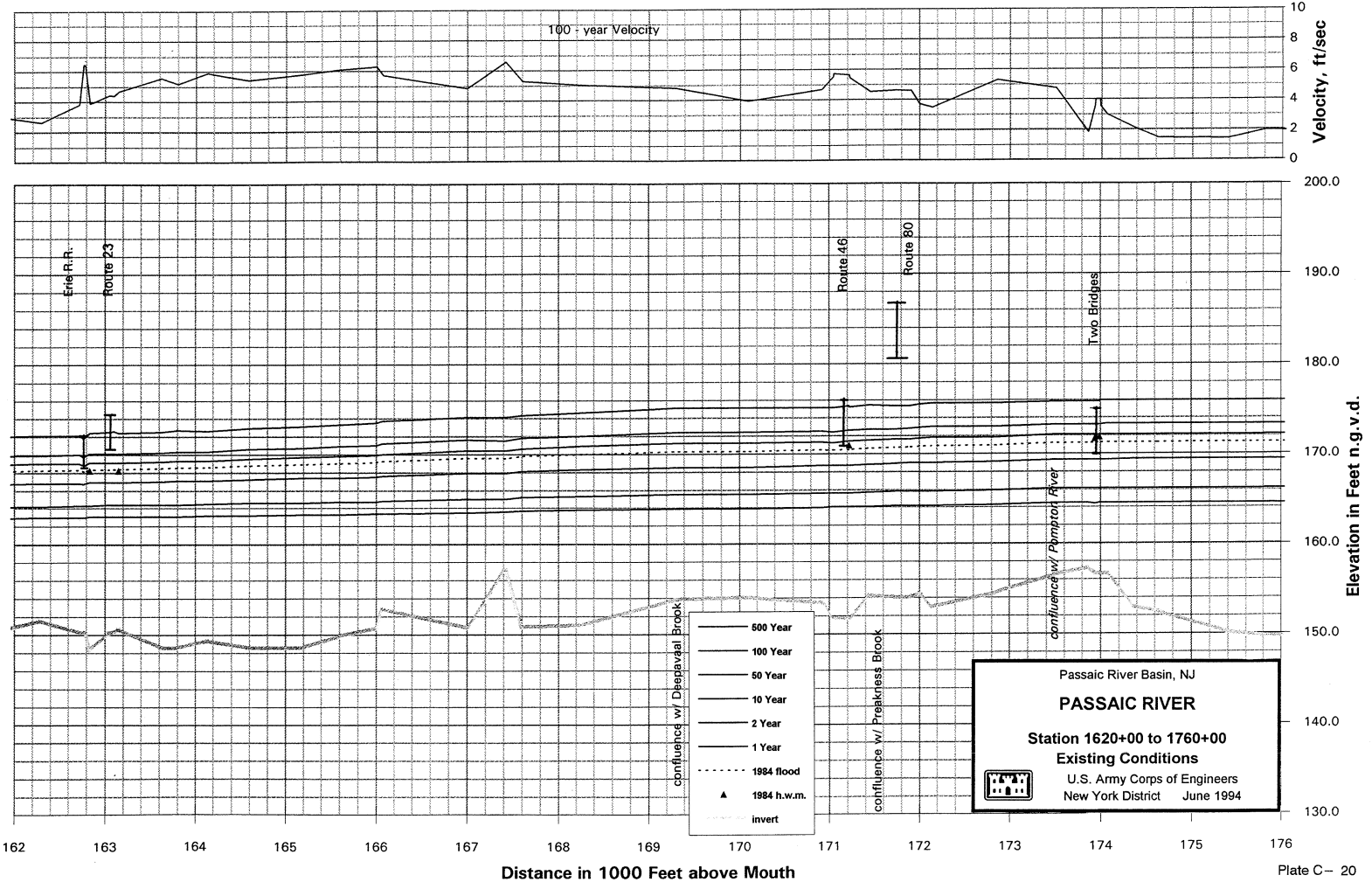
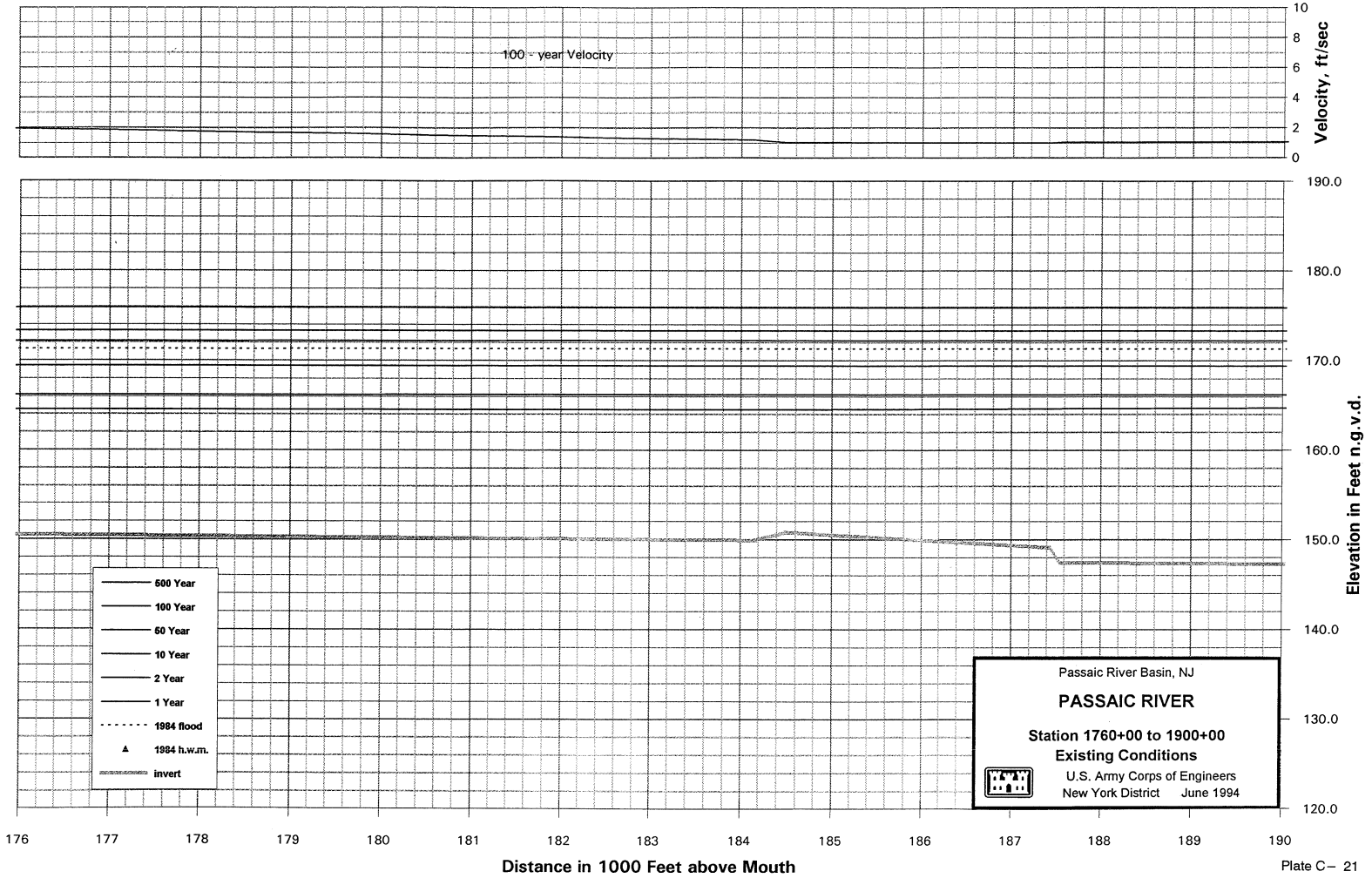

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Erie R.R.
Route 23
Route 46
Route 80
Two Bridges
confluence w/ Deepavaal Brook
confluence w/ Preakness Brook
confluence w/ Pompton River
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1620+00 to 1760+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
Distance in 1000 Feet above Mouth

Plate C– 20


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1760+00 to 1900+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
Distance in 1000 Feet above Mouth

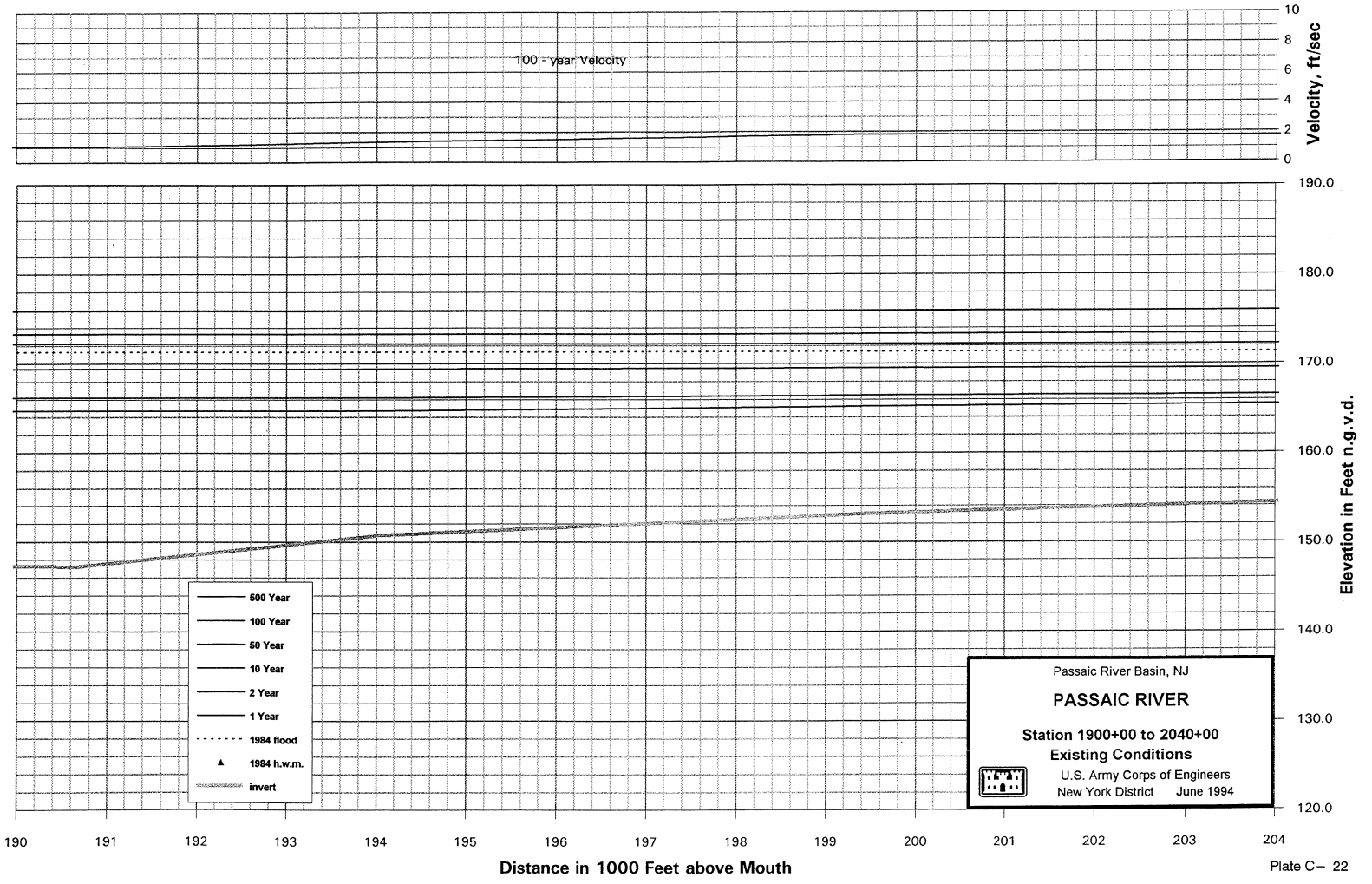

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1900+00 to 2040+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
Distance in 1000 Feet above Mouth

Plate C– 22

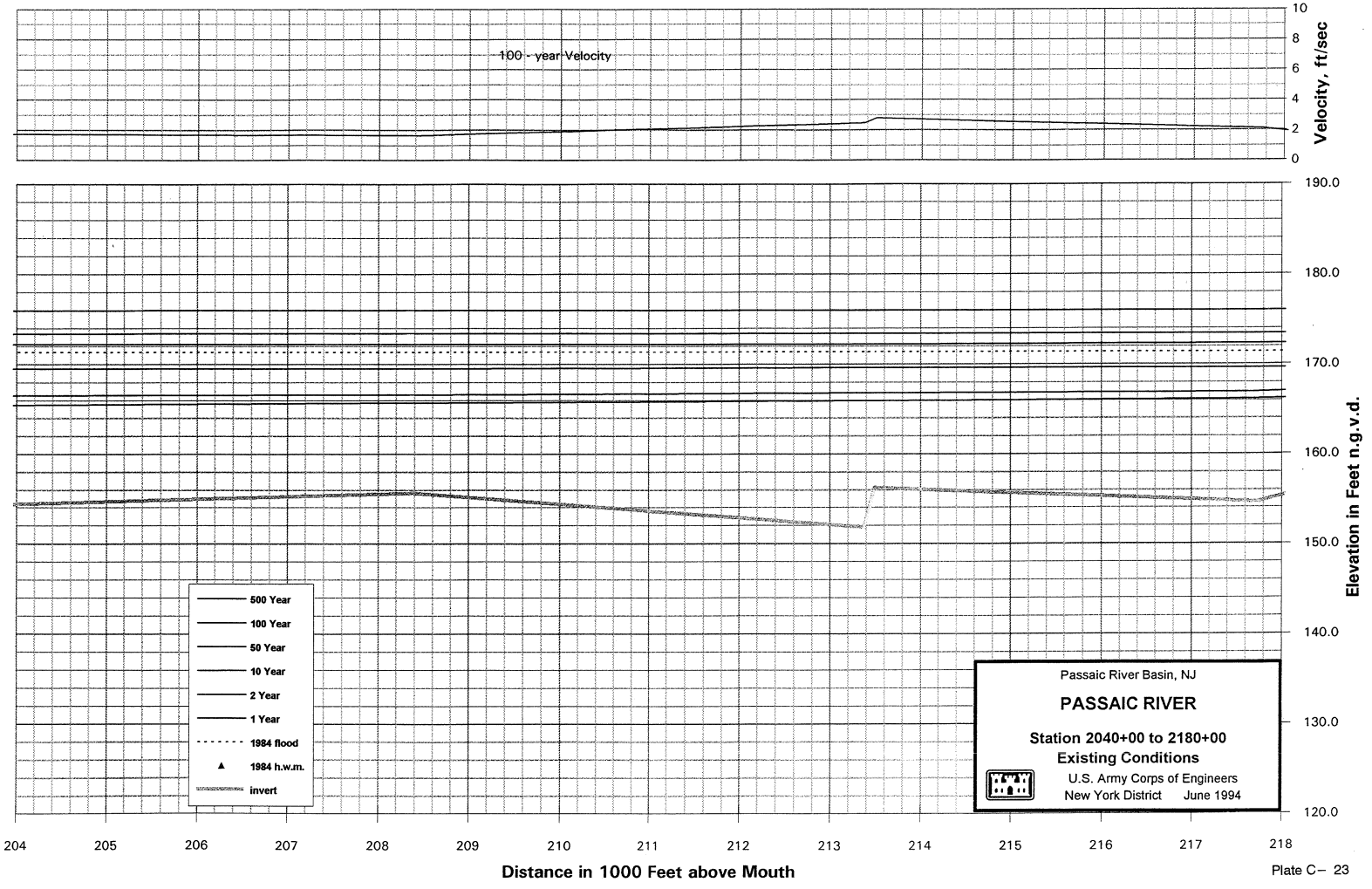
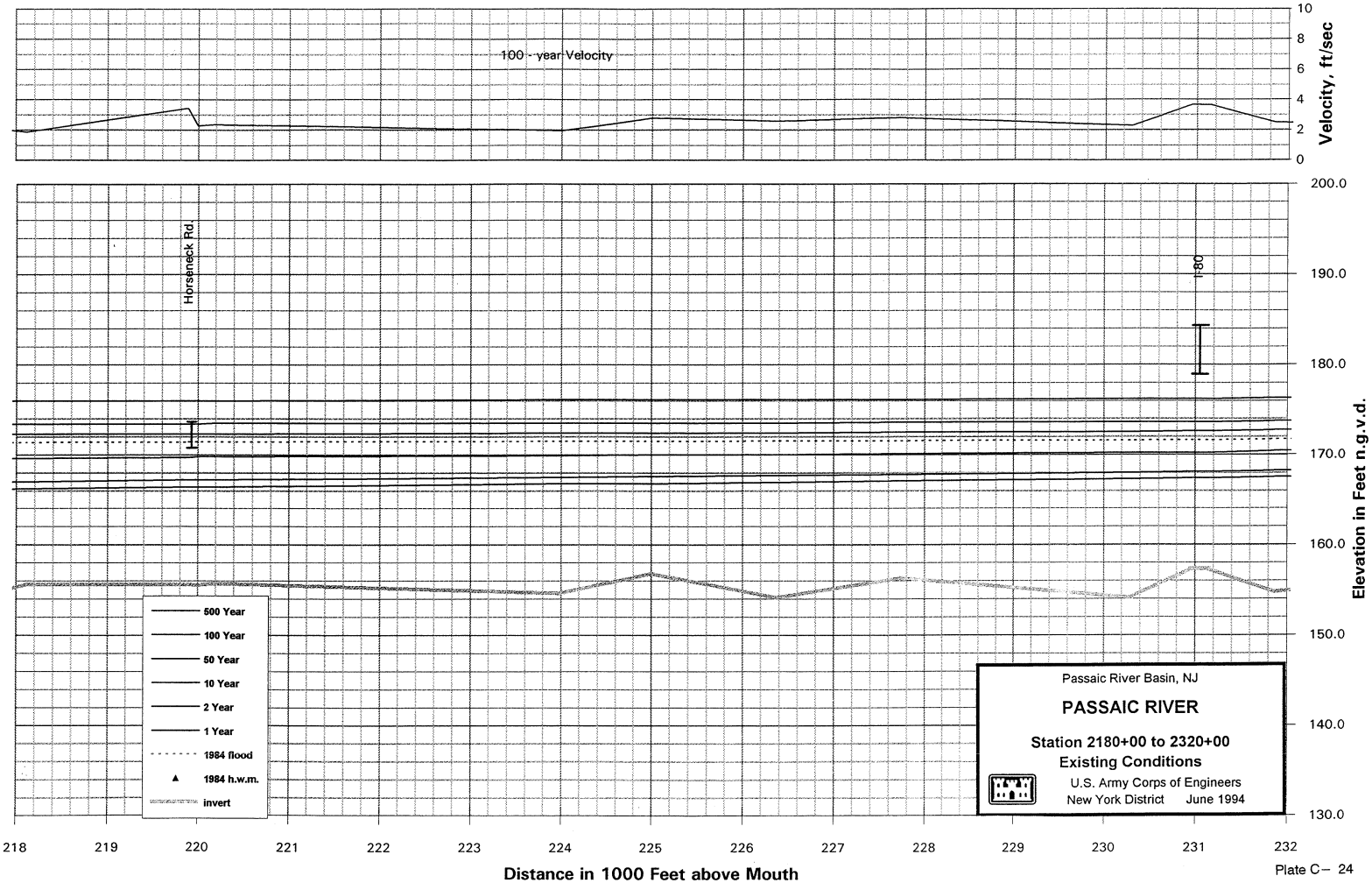
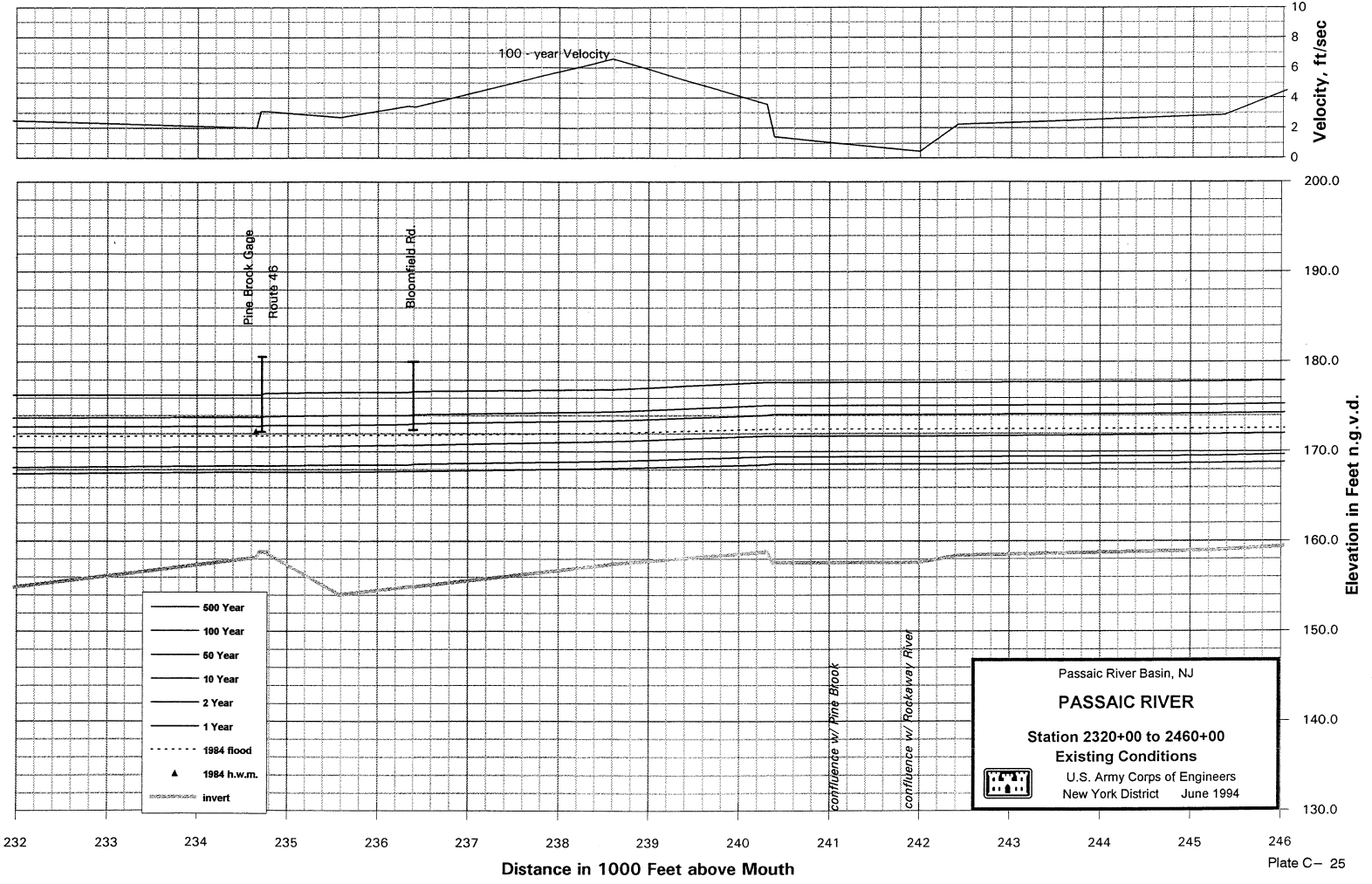

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2040+00 to 2180+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
Distance in 1000 Feet above Mouth

Plate C– 23


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Horseneck Rd.
I-80
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2180+00 to 2320+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Pine Brook Gage
Route 46
Bloomfield Rd.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
confluence w/ Pine Brook
confluence w/ Rockaway River
Passaic River Basin, NJ
PASSAIC RIVER
Station 2320+00 to 2460+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
Distance in 1000 Feet above Mouth

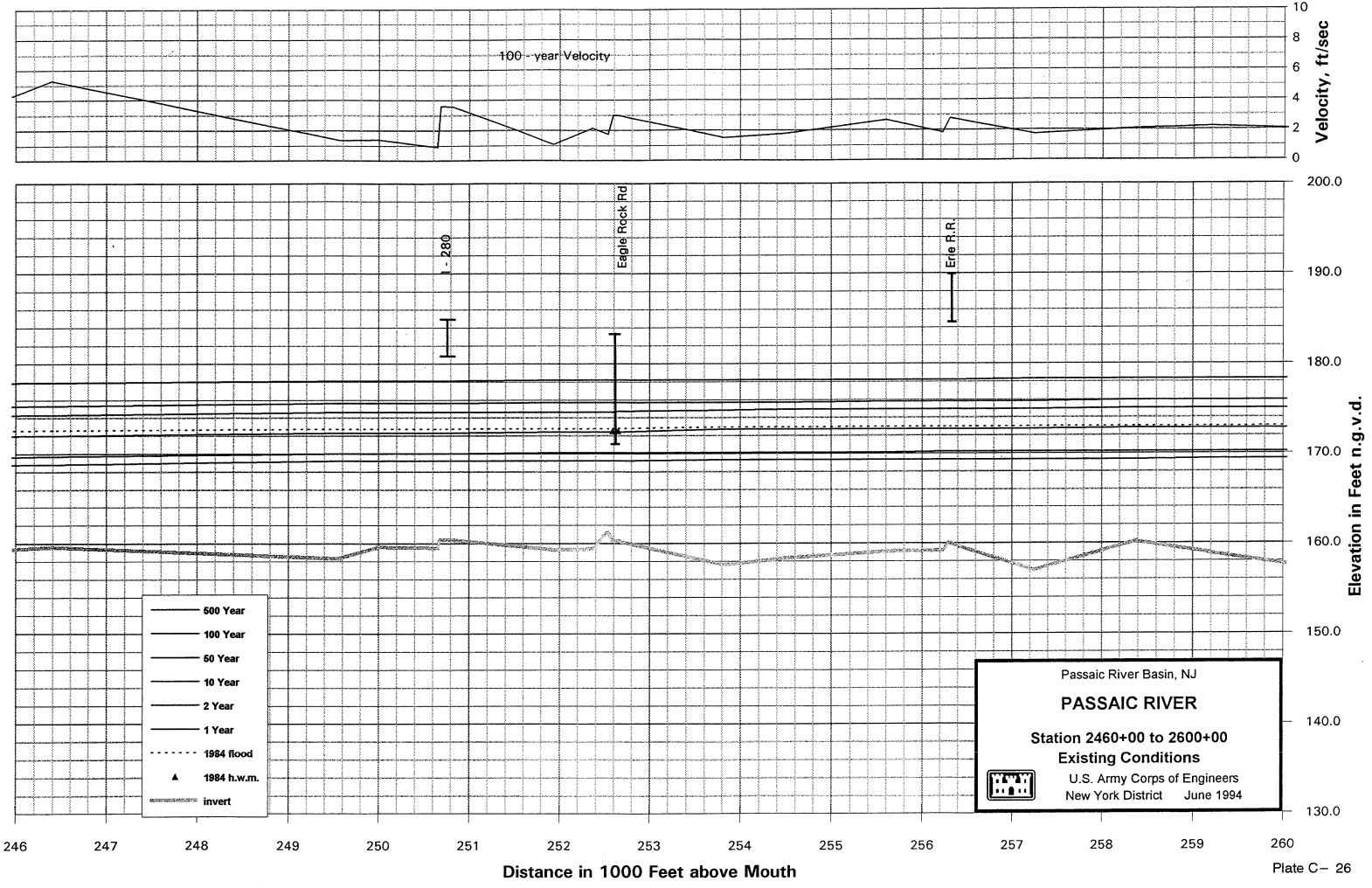

100 - year Velocity
10
8
6
4
2
0
Velocity, ft/sec
I - 280
Eagle Rock Rd
Erie R.R.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2460+00 to 2600+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
Distance in 1000 Feet above Mouth

Plate C– 26

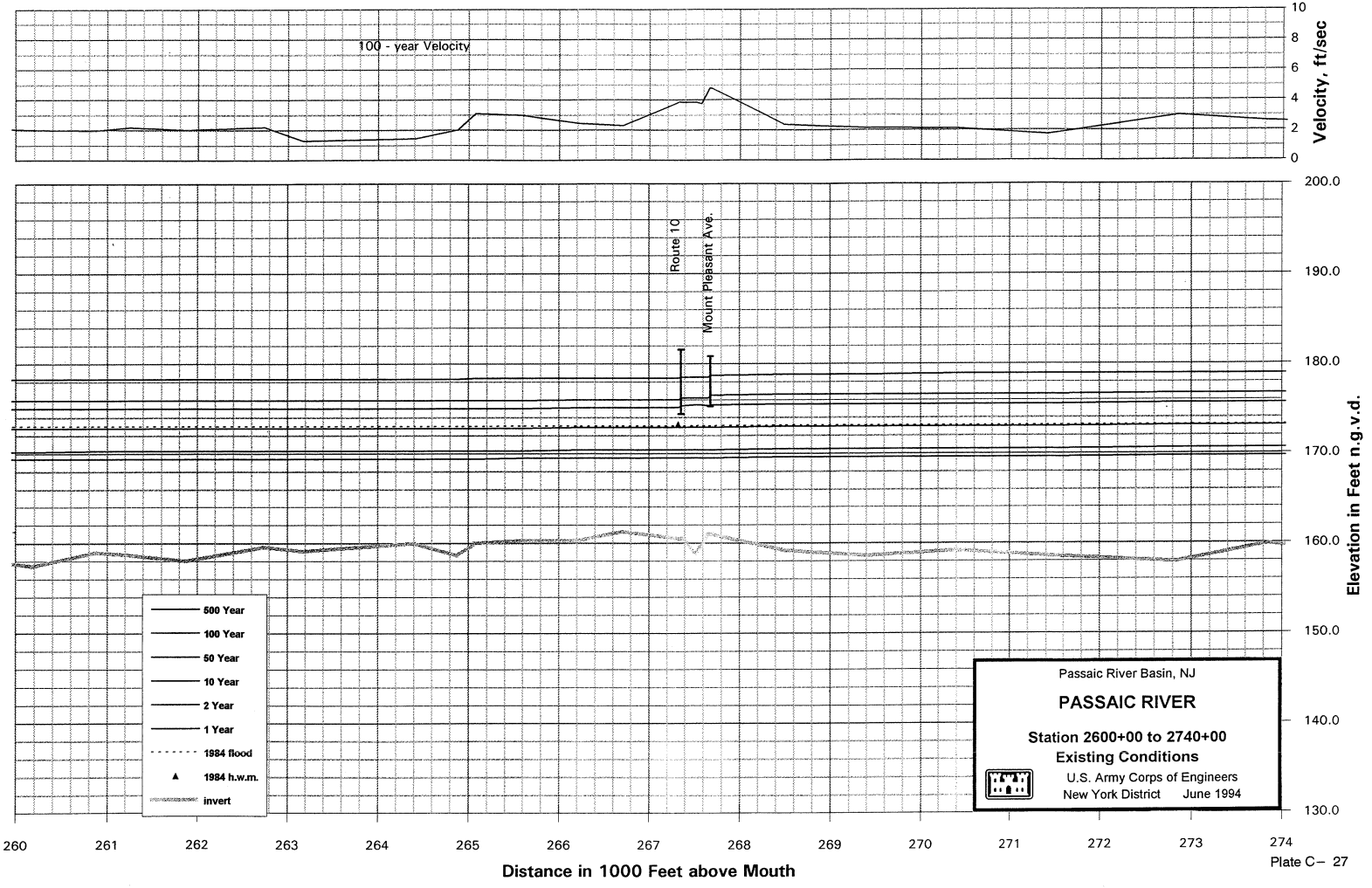
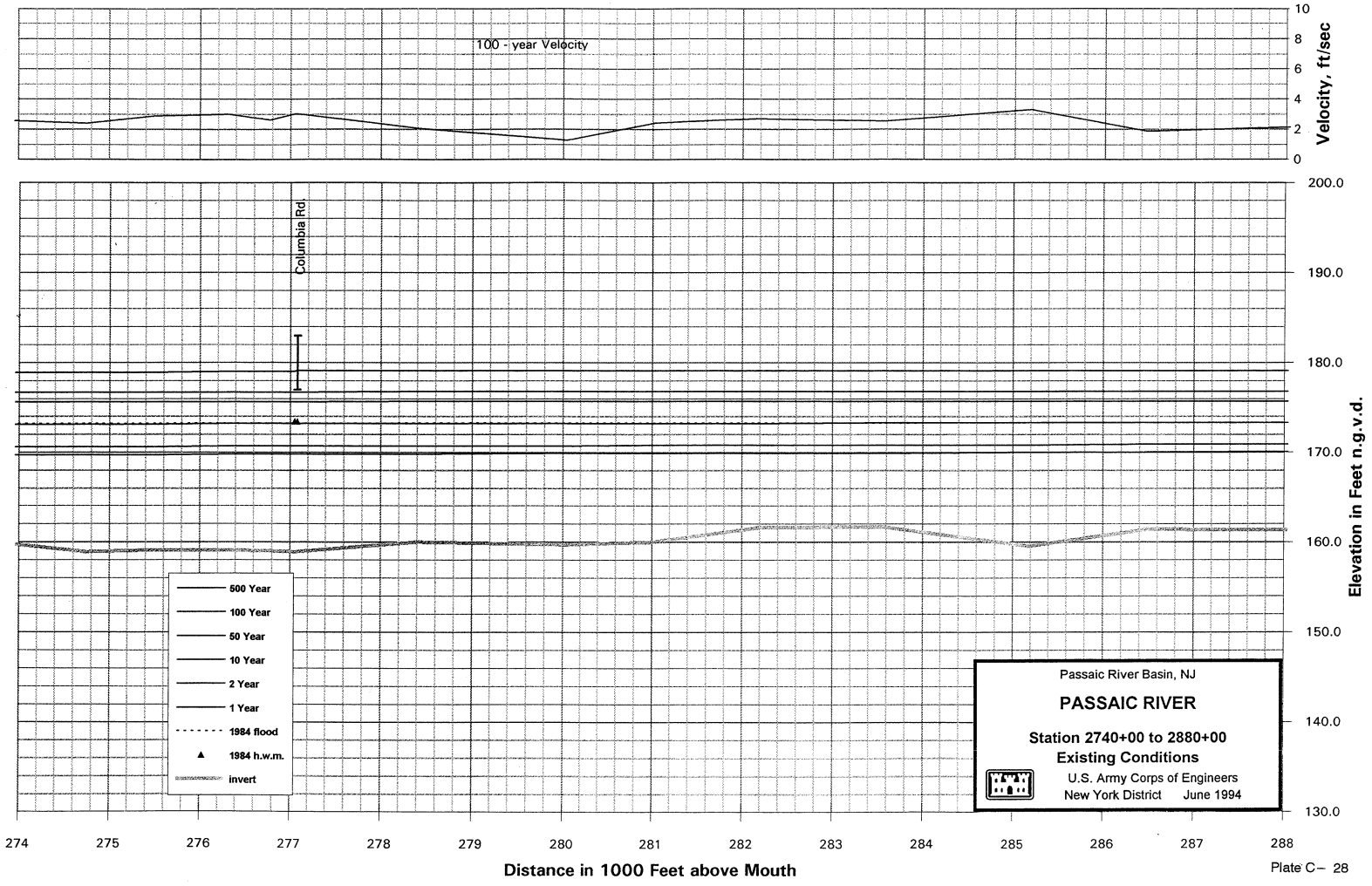
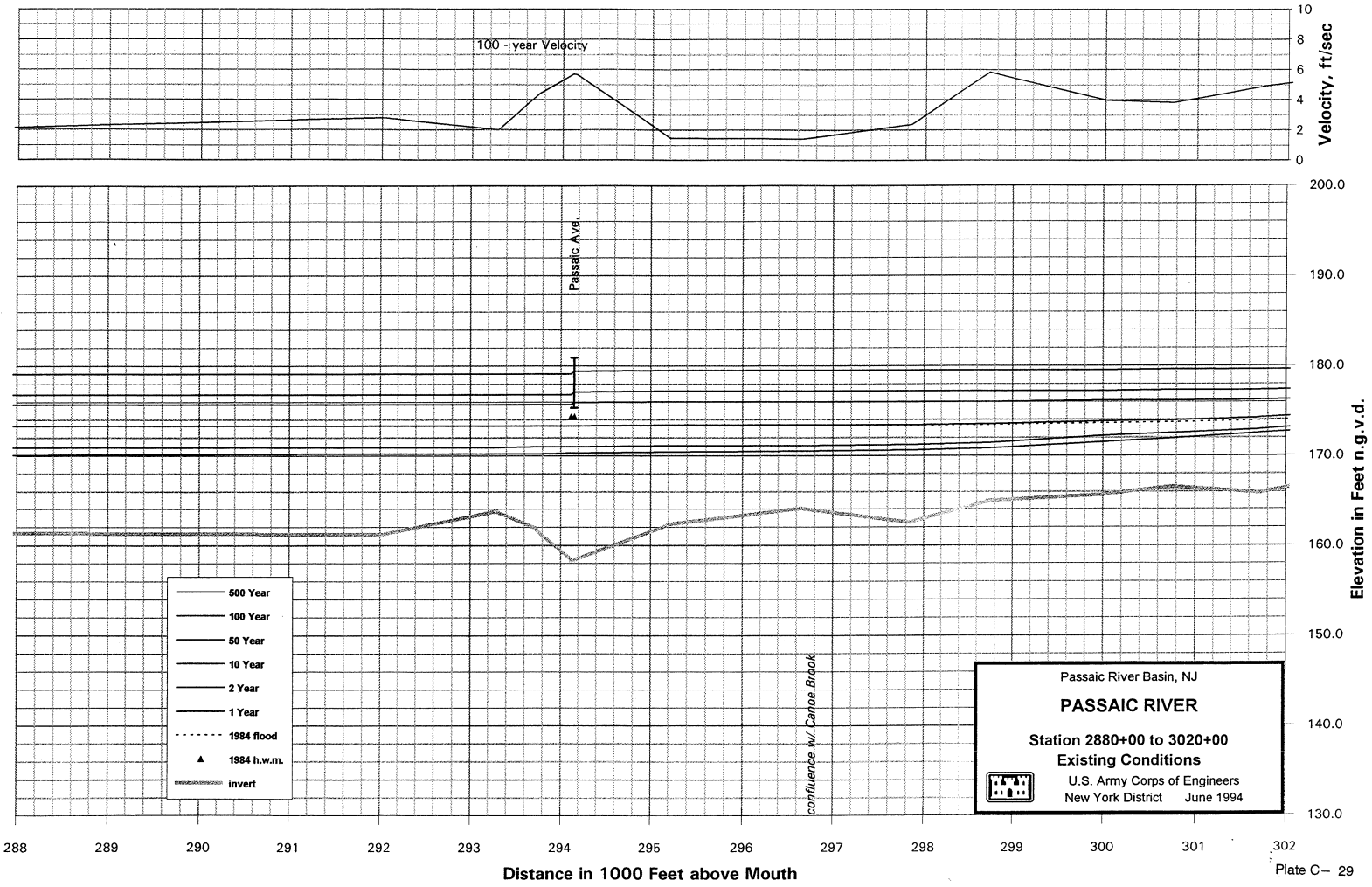

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Route 10
Mount Pleasant Ave.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2600+00 to 2740+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
Distance in 1000 Feet above Mouth

Plate C– 27


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Columbia Rd.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2740+00 to 2880+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Passaic Avg.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
confluence w/ Canoe Brook
Passaic River Basin, NJ
PASSAIC RIVER
Station 2880+00 to 3020+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
Distance in 1000 Feet above Mouth

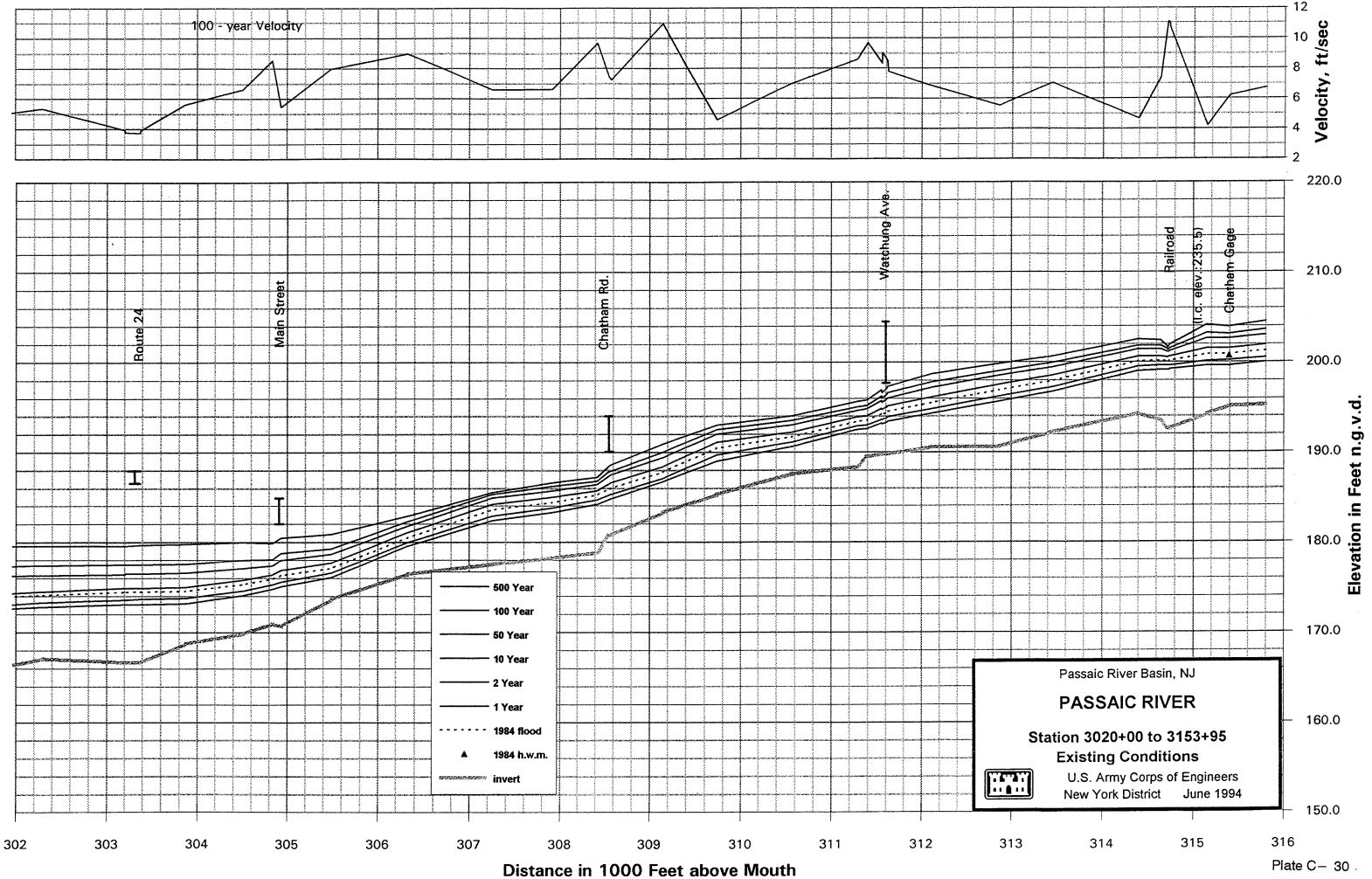

100 - year Velocity
12
10
8
6
4
2
Velocity, ft/sec
220.0
210.0
200.0
190.0
180.0
170.0
160.0
150.0
Elevation in Feet n.g.v.d.
Route 24
Main Street
Chatham Rd.
Watchung Ave.
Railroad
(r.c. elev. 235.5)
Chatham Gage
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 3020+00 to 3153+95
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
Distance in 1000 Feet above Mouth

Plate C– 30

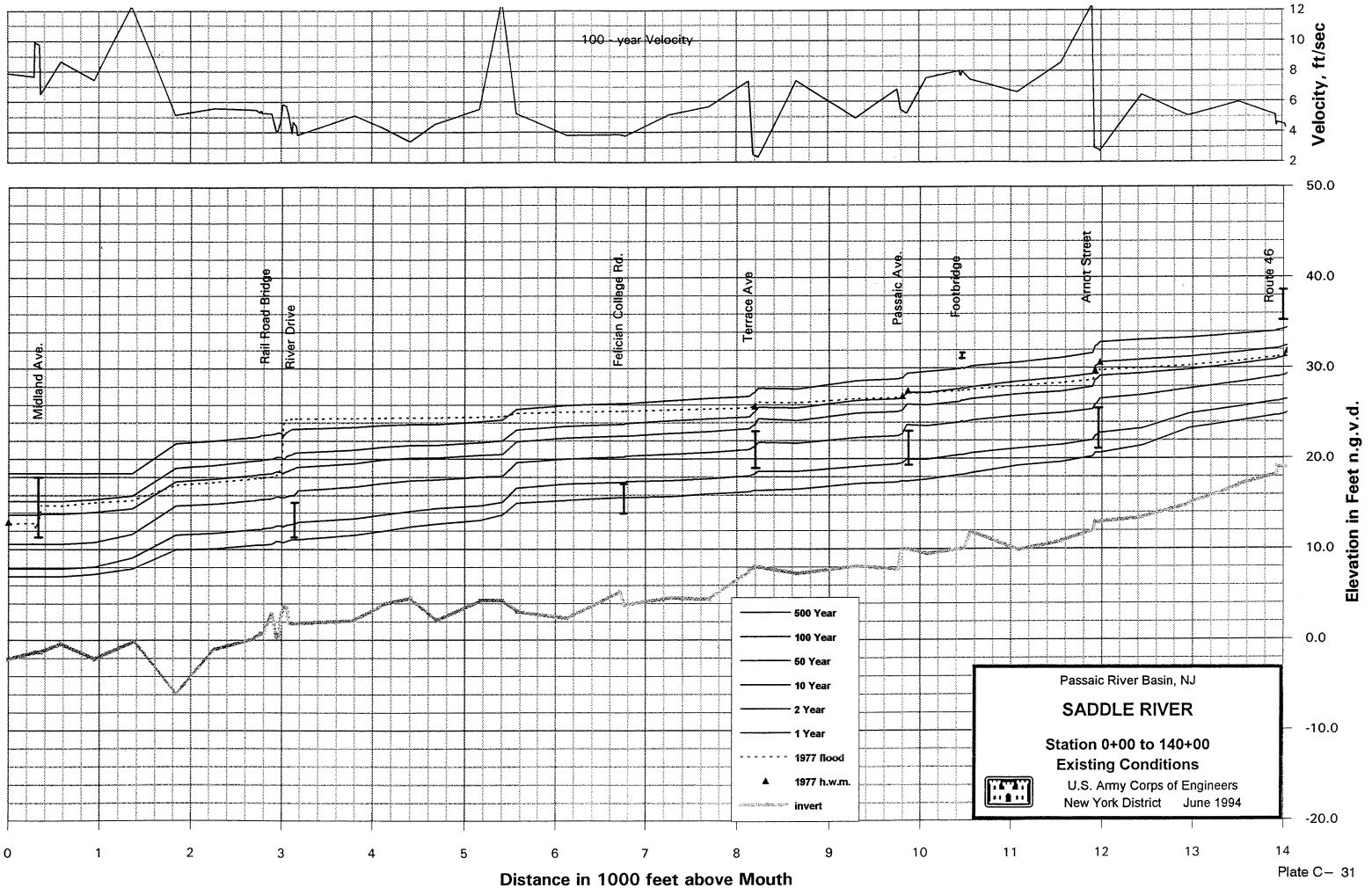
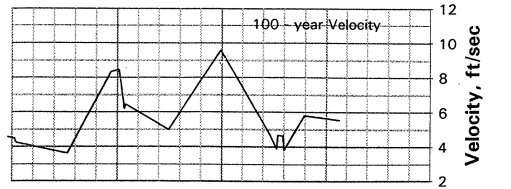
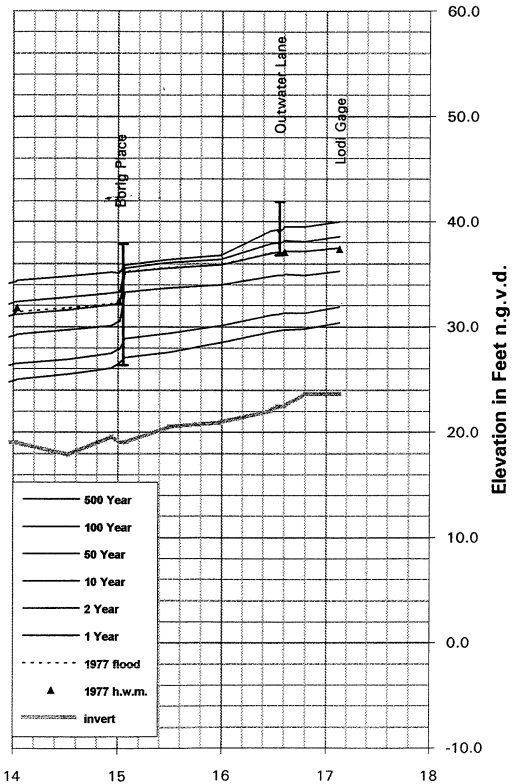

100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Midland Ave.
Rail Road Bridge
River Drive
Felician College Rd.
Terrace Ave.
Passaic Ave.
Footbridge
Arnot Street
Route 46
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1977 flood
1977 h.w.m.
invert
Passaic River Basin, NJ
SADDLE RIVER
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 feet above Mouth

Plate C– 31





Passaic River Basin, NJ

SADDLE RIVER

Station 140+00 to 171+30
Existing Conditions

U.S. Army Corps of Engineers
New York District June 1994

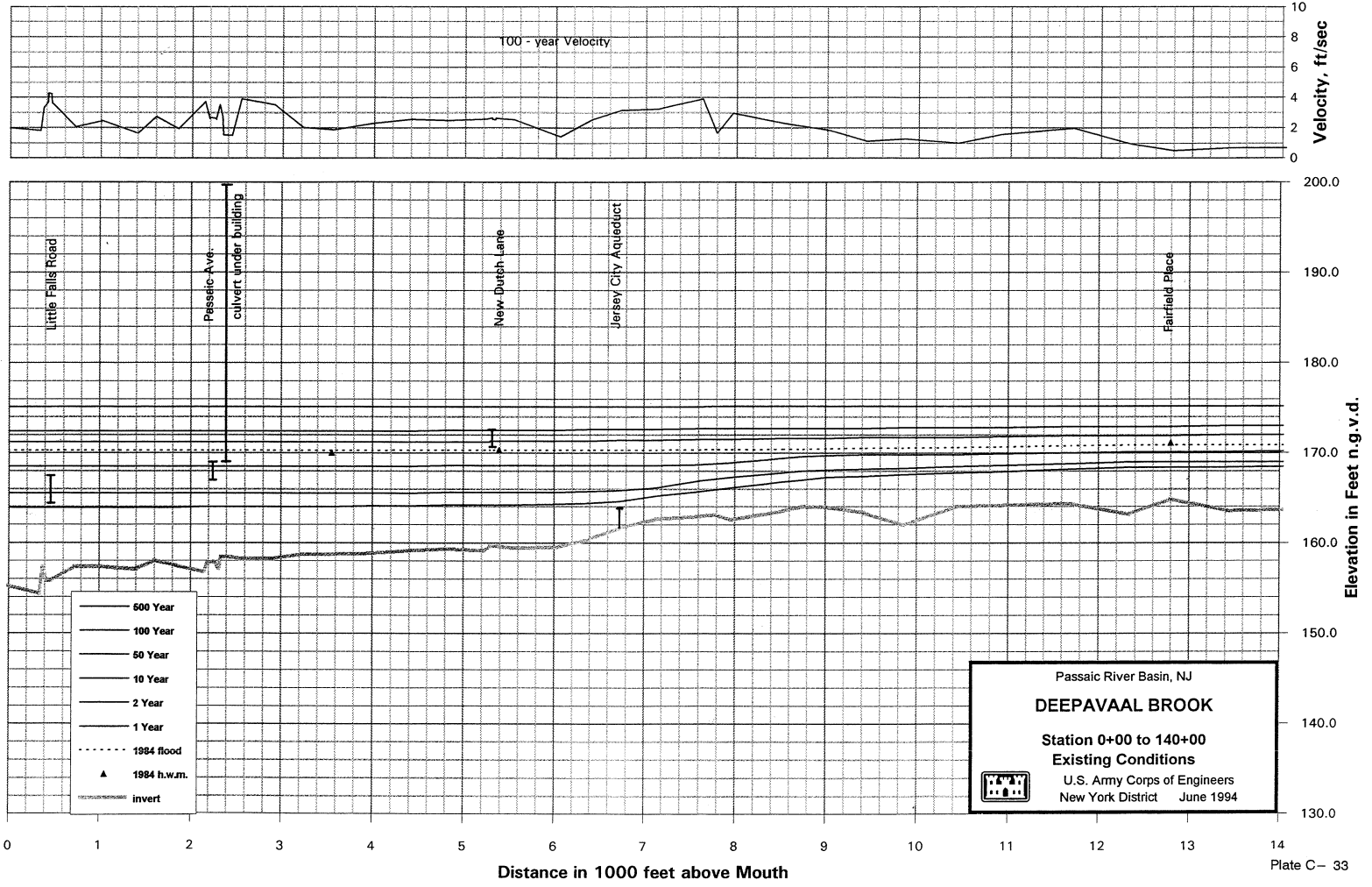
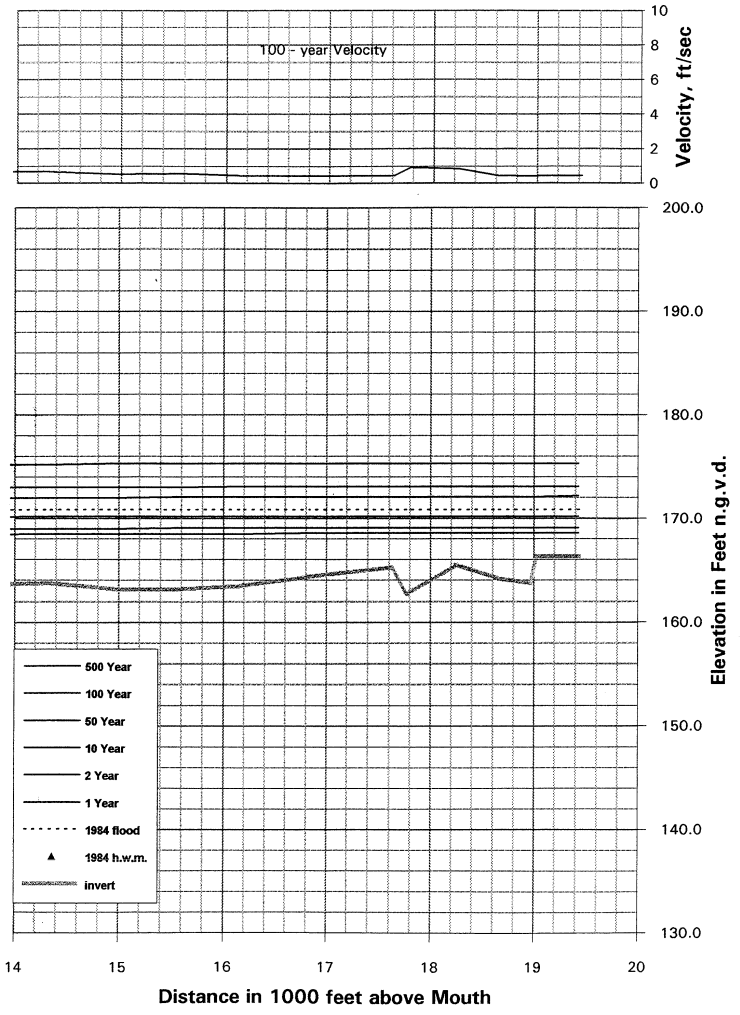

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Little Falls Road
Passaic Ave.
culvert under building
New Dutch Lane
Jersey City Aqueduct
Fairfield Place
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
DEEPAVAAL BROOK
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 feet above Mouth

Plate C– 33

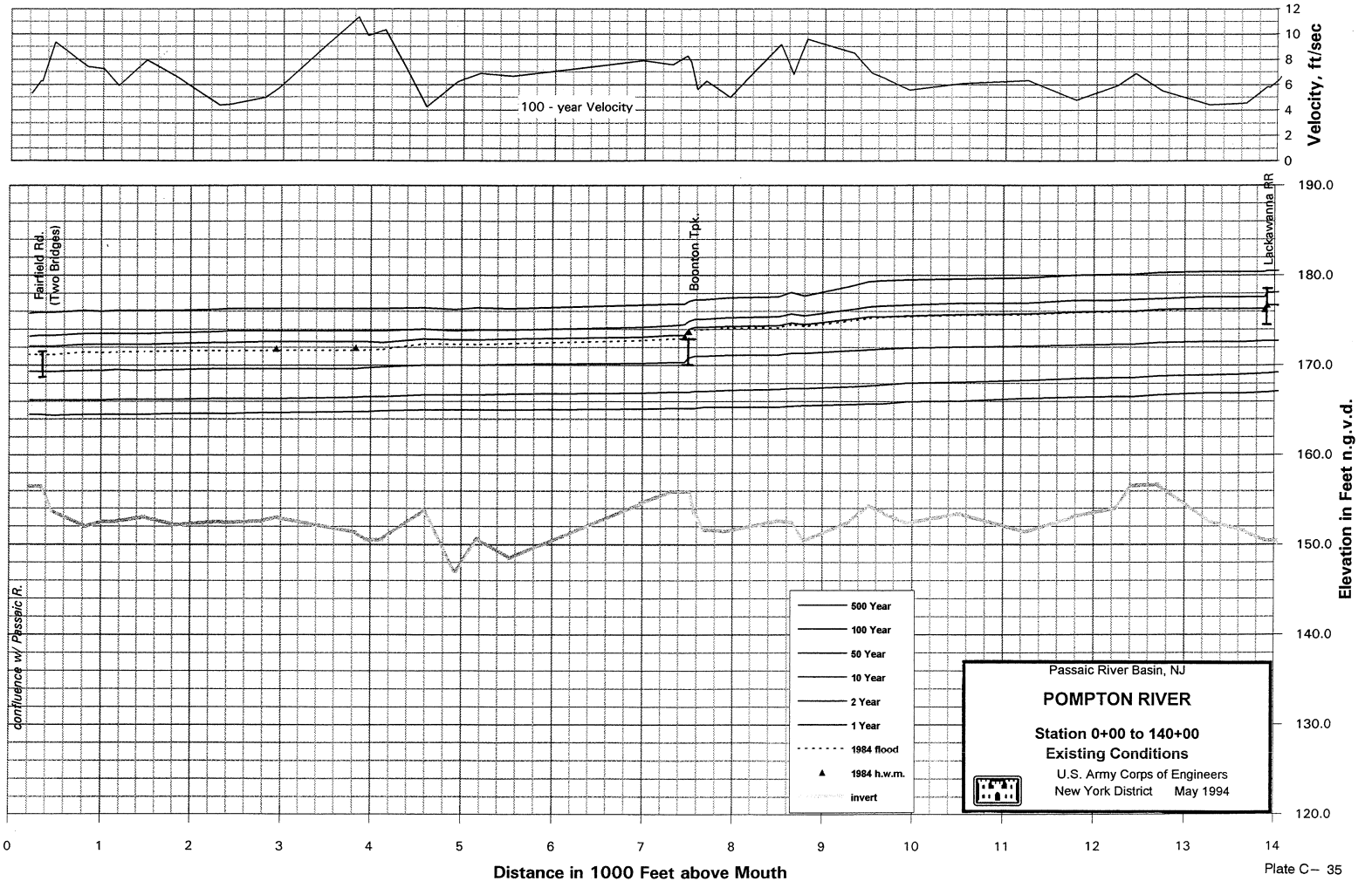


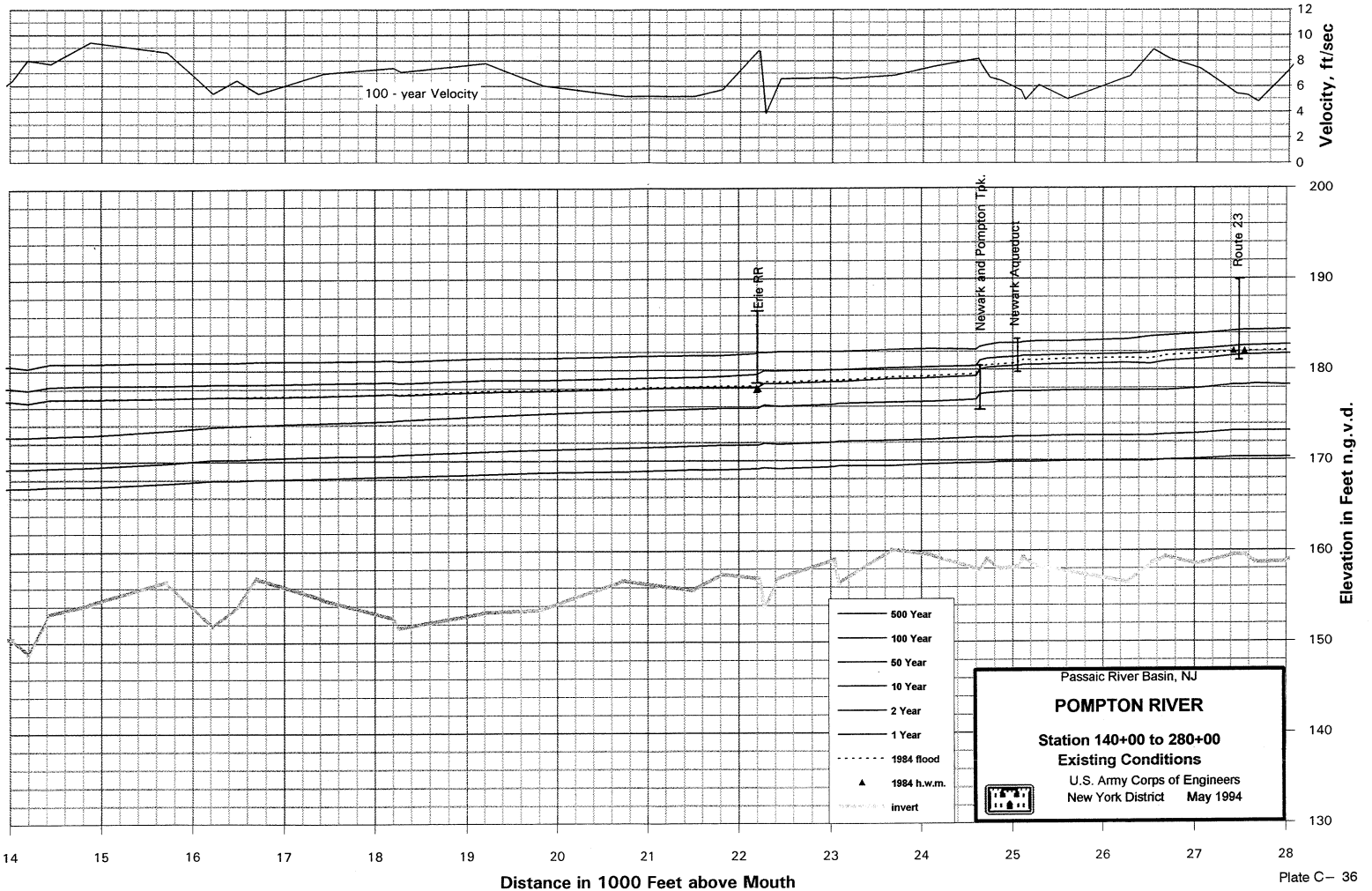
Passaic River Basin, NJ

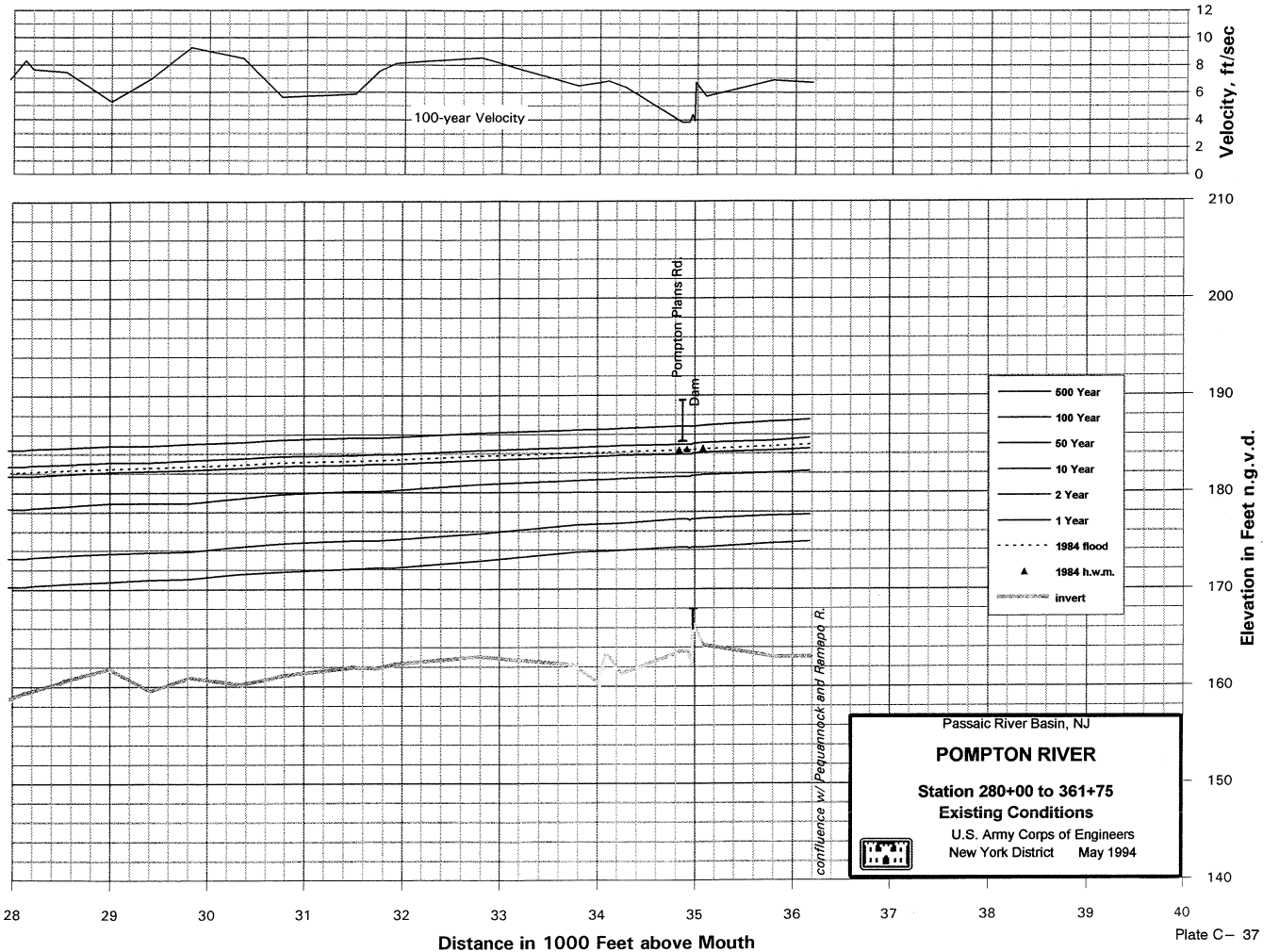
DEEPAVAAL BROOK

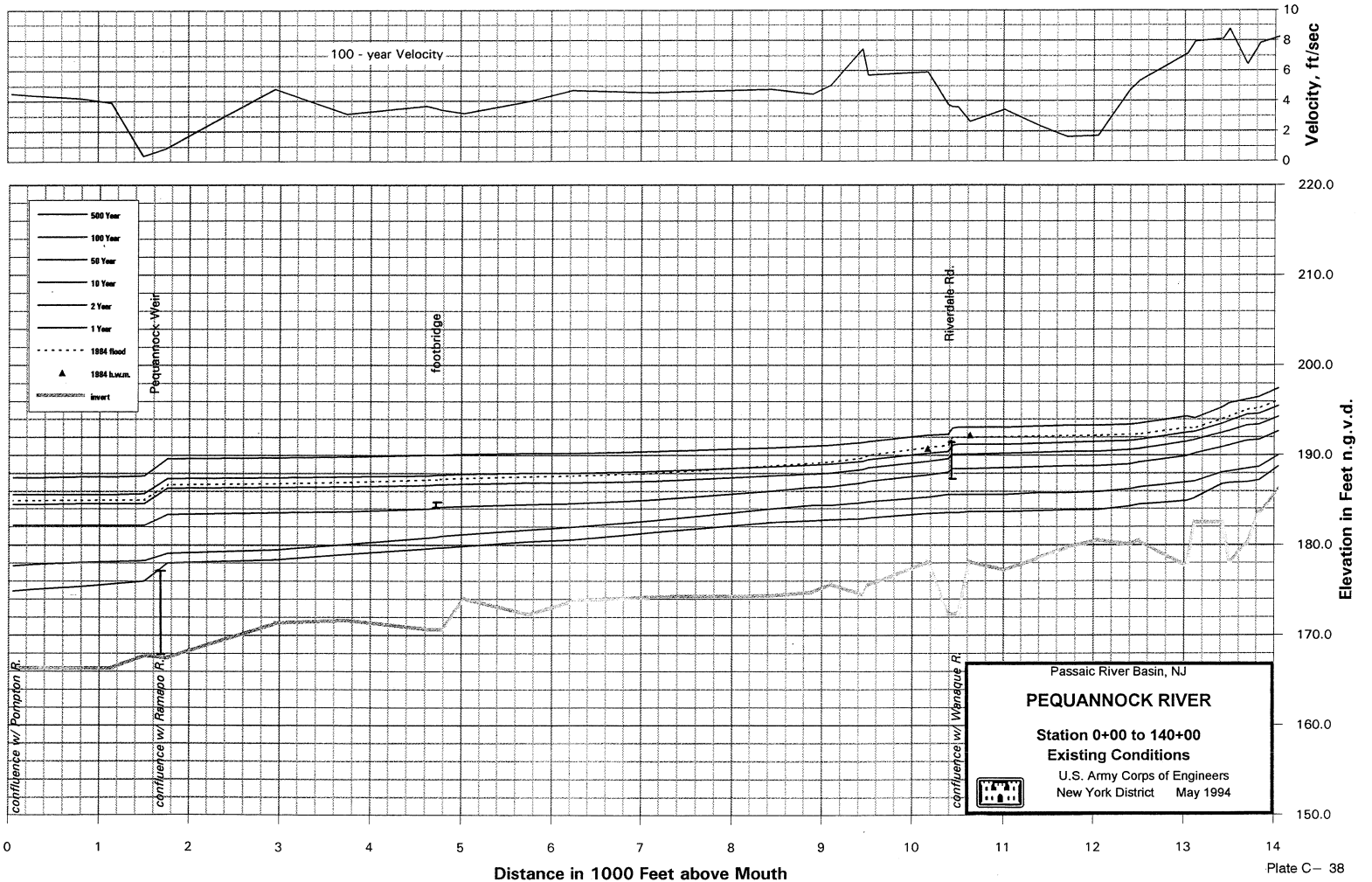
Station 140+00 to 194+30
Existing Conditions

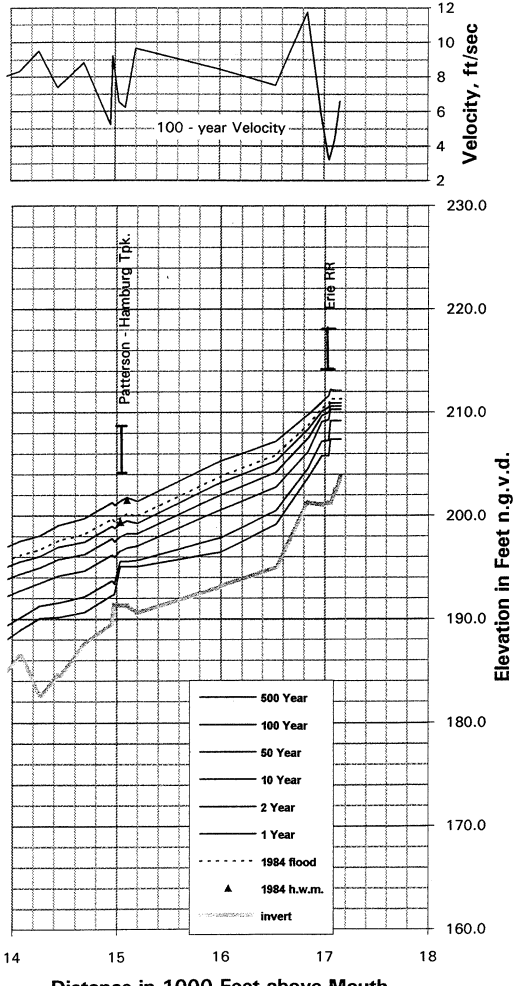
U.S. Army Corps of Engineers
New York District June 1994


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
0
Fairfield Rd.
(Two Bridges)
Boonton Tpk.
Lackawanna RR
confluence w/ Passaic R.
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
POMPTON RIVER
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District May 1994
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
0
2
4
6
8
10
12
Erie RR
Newark and Pompton Tpk.
Newark Aqueduct
Route 23
Elevation in Feet n.g.v.d.
130
140
150
160
170
180
190
200
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
POMPTON RIVER
Station 140+00 to 280+00
Existing Conditions
U.S. Army Corps of Engineers
New York District May 1994
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth


100-year Velocity
Velocity, ft/sec
12
10
8
6
4
2
0
Pompton Plains Rd.
Dam
confluence w/ Pequannock and Ramapo R.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Elevation in Feet n.g.v.d.
210
200
190
180
170
160
150
140
28
29
30
31
32
33
34
35
36
37
38
39
40
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
POMPTON RIVER
Station 280+00 to 361+75
Existing Conditions
U.S. Army Corps of Engineers
New York District May 1994


100 - year Velocity
Velocity, ft/sec
0
2
4
6
8
10
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Pequannock Weir
footbridge
Riverdale Rd.
confluence w/ Pompton R.
confluence w/ Ramapo R.
confluence w/ Wanaque R.
Elevation in Feet n.g.v.d.
220.0
210.0
200.0
190.0
180.0
170.0
160.0
150.0
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PEQUANNOCK RIVER
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District May 1994

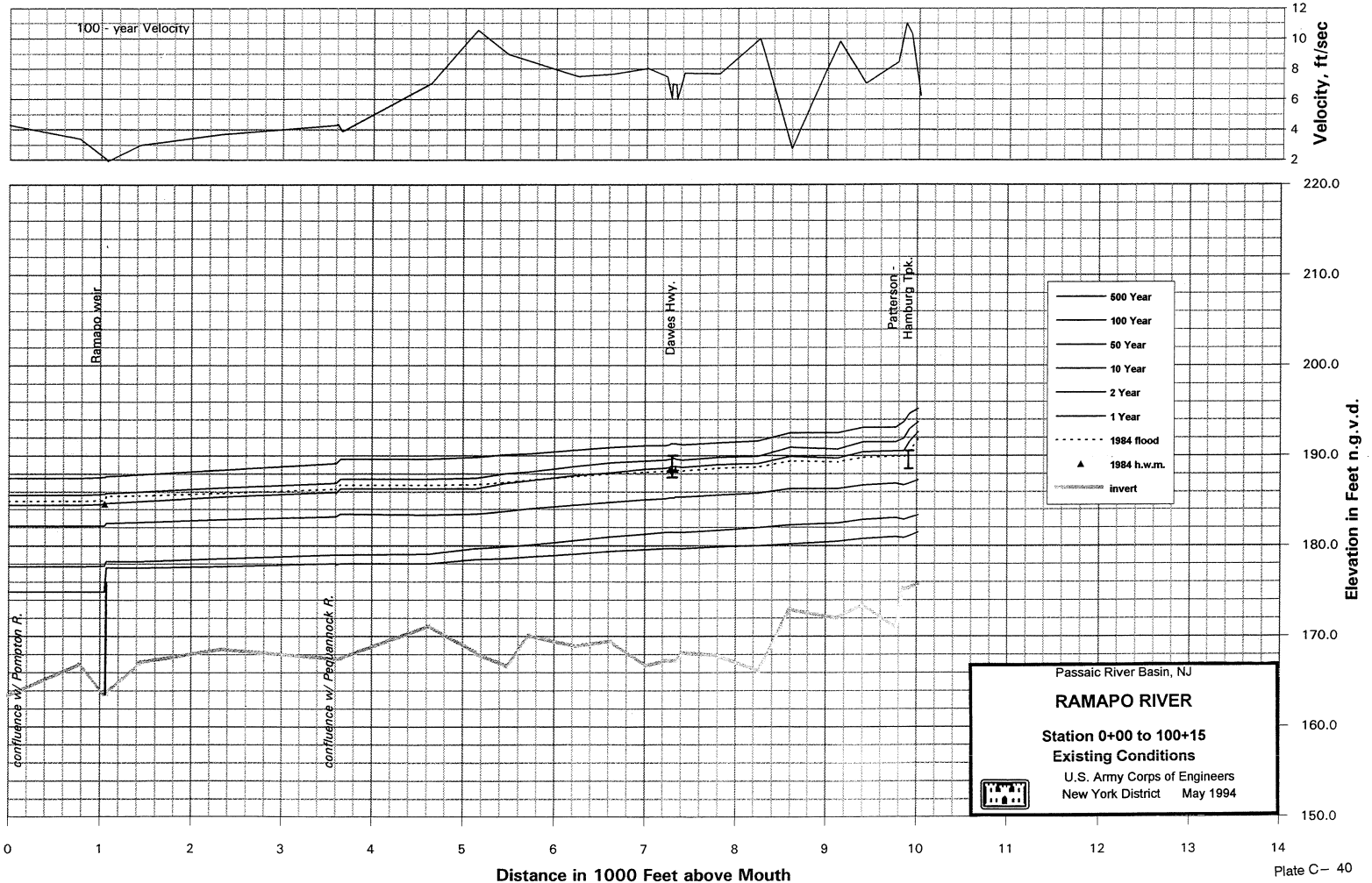


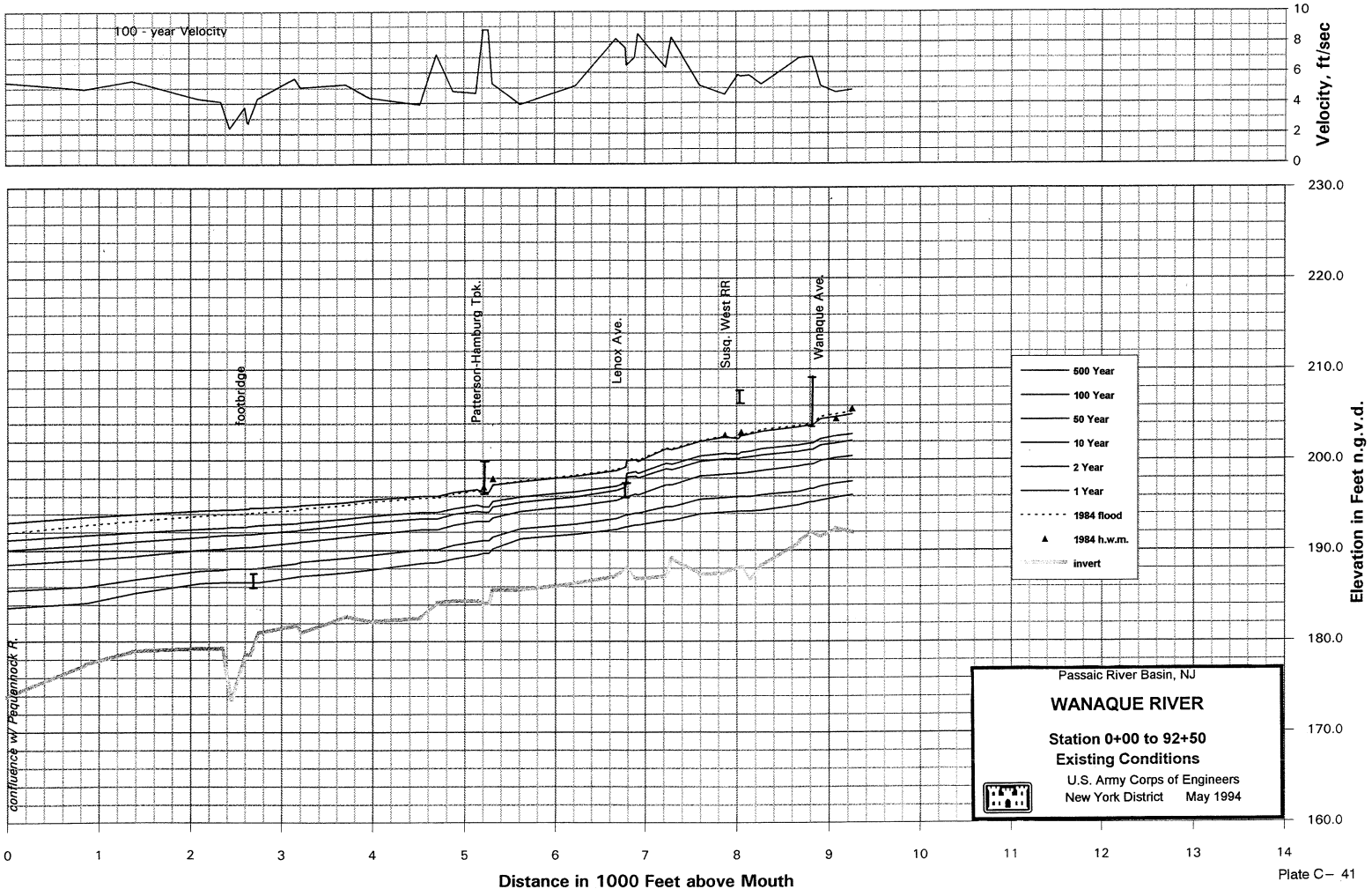
Passaic River Basin, NJ

PEQUANNOCK RIVER

Station 140+00 to 171+55
Existing Conditions

U.S. Army Corps of Engineers
New York District May 1994


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
220.0
210.0
200.0
190.0
180.0
170.0
160.0
150.0
Elevation in Feet n.g.v.d.
Ramapo weir
Dawes Hwy.
Patterson - Hamburg Tpk.
confluence w/ Pompton R.
confluence w/ Pequannock R.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
RAMAPO RIVER
Station 0+00 to 100+15
Existing Conditions
U.S. Army Corps of Engineers
New York District May 1994
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Footbridge
Patterson-Hamburg Tpk.
Lenox Ave.
Susq. West RR
Wanaque Ave.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
confluence w/ Pequannock R.
230.0
220.0
210.0
200.0
190.0
180.0
170.0
160.0
Elevation in Feet n.g.v.d.
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
WANAQUE RIVER
Station 0+00 to 92+50
Existing Conditions
U.S. Army Corps of Engineers
New York District May 1994

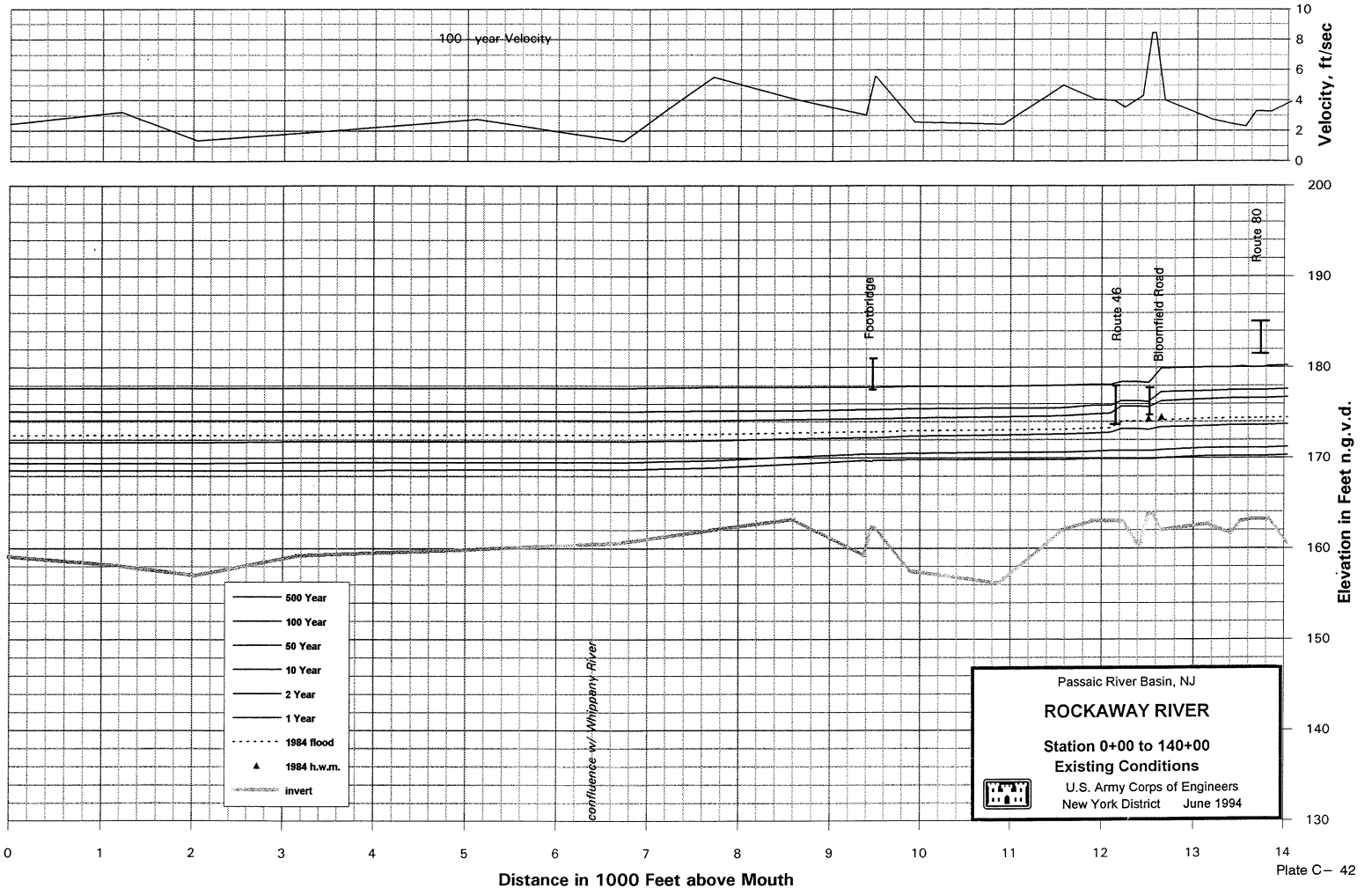
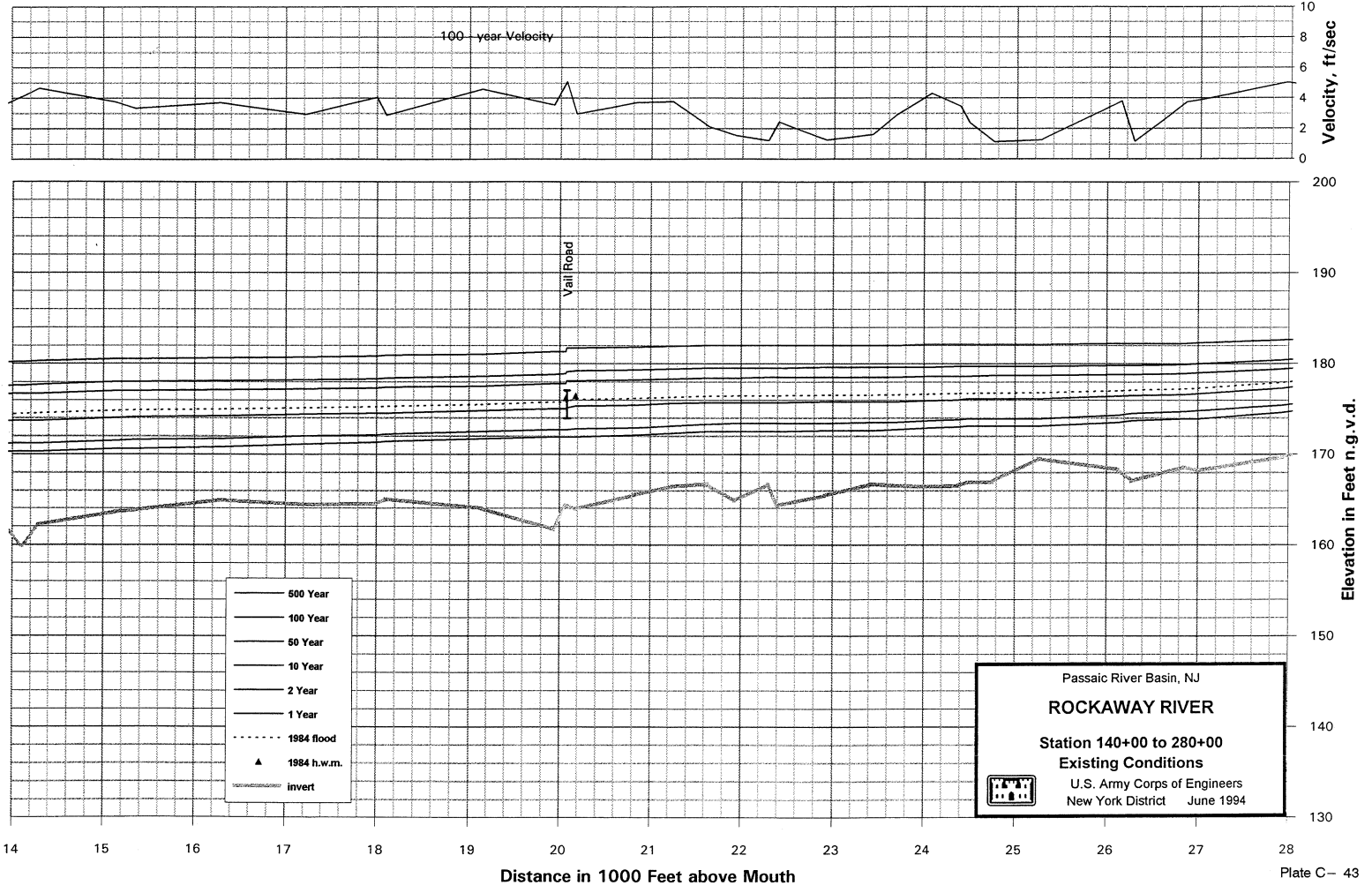
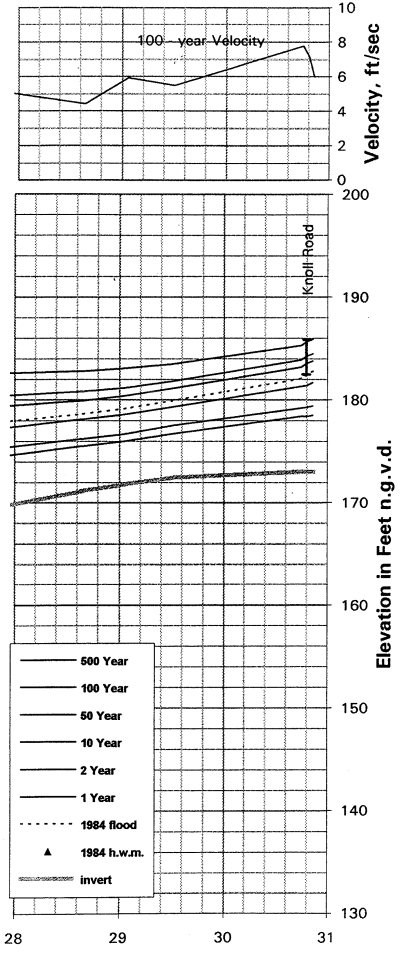

100 - year Velocity
Velocity, ft/sec
Elevation in Feet n.g.v.d.
Footbridge
Route 46
Bloomfield Road
Route 80
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
confluence w/ Whippany River
Passaic River Basin, NJ
ROCKAWAY RIVER
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
Distance in 1000 Feet above Mouth

Plate C– 42


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Vail Road
200
190
180
170
160
150
140
130
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
1984 h.w.m.
invert
Passaic River Basin, NJ
ROCKAWAY RIVER
Station 140+00 to 280+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

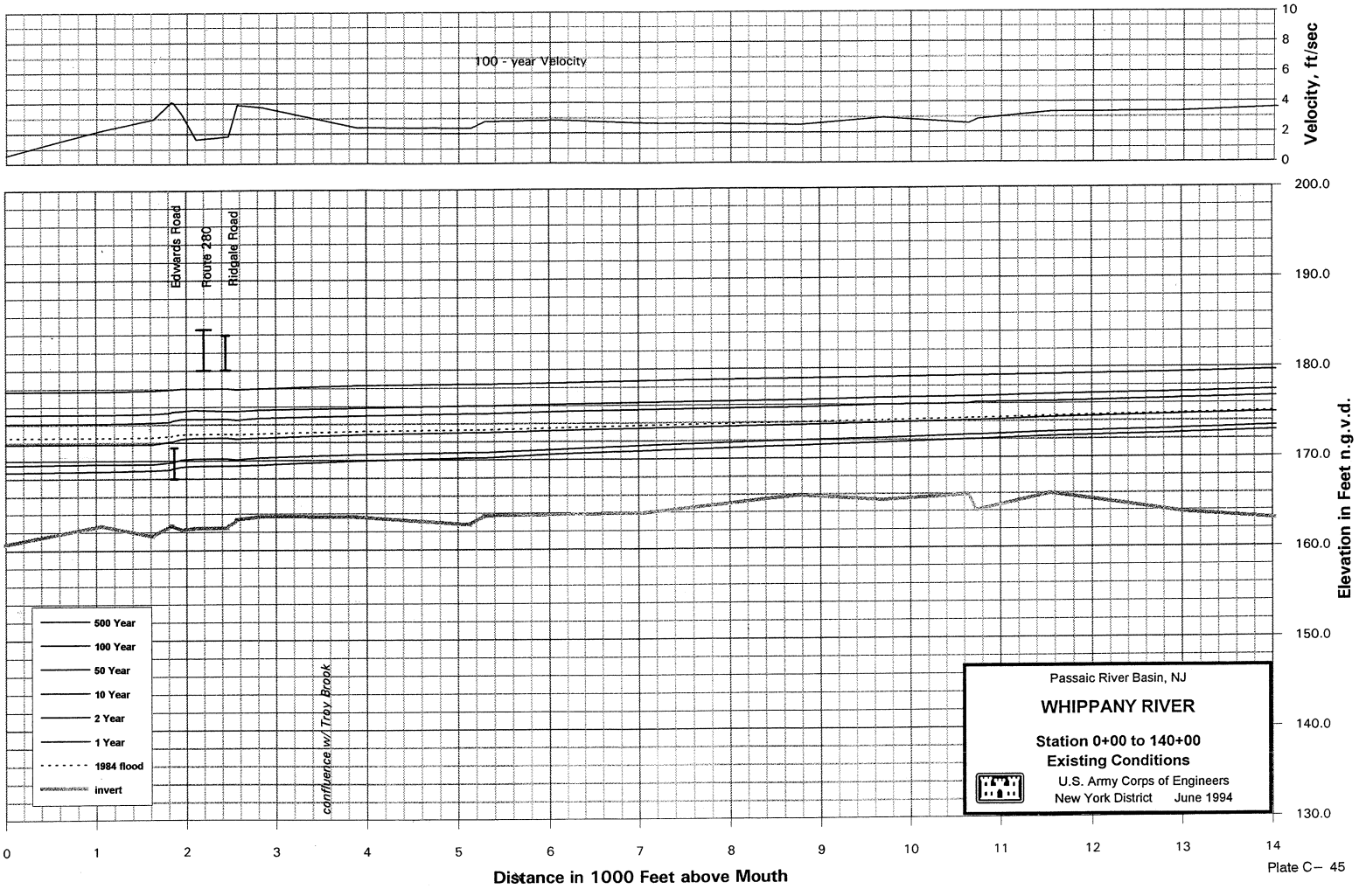


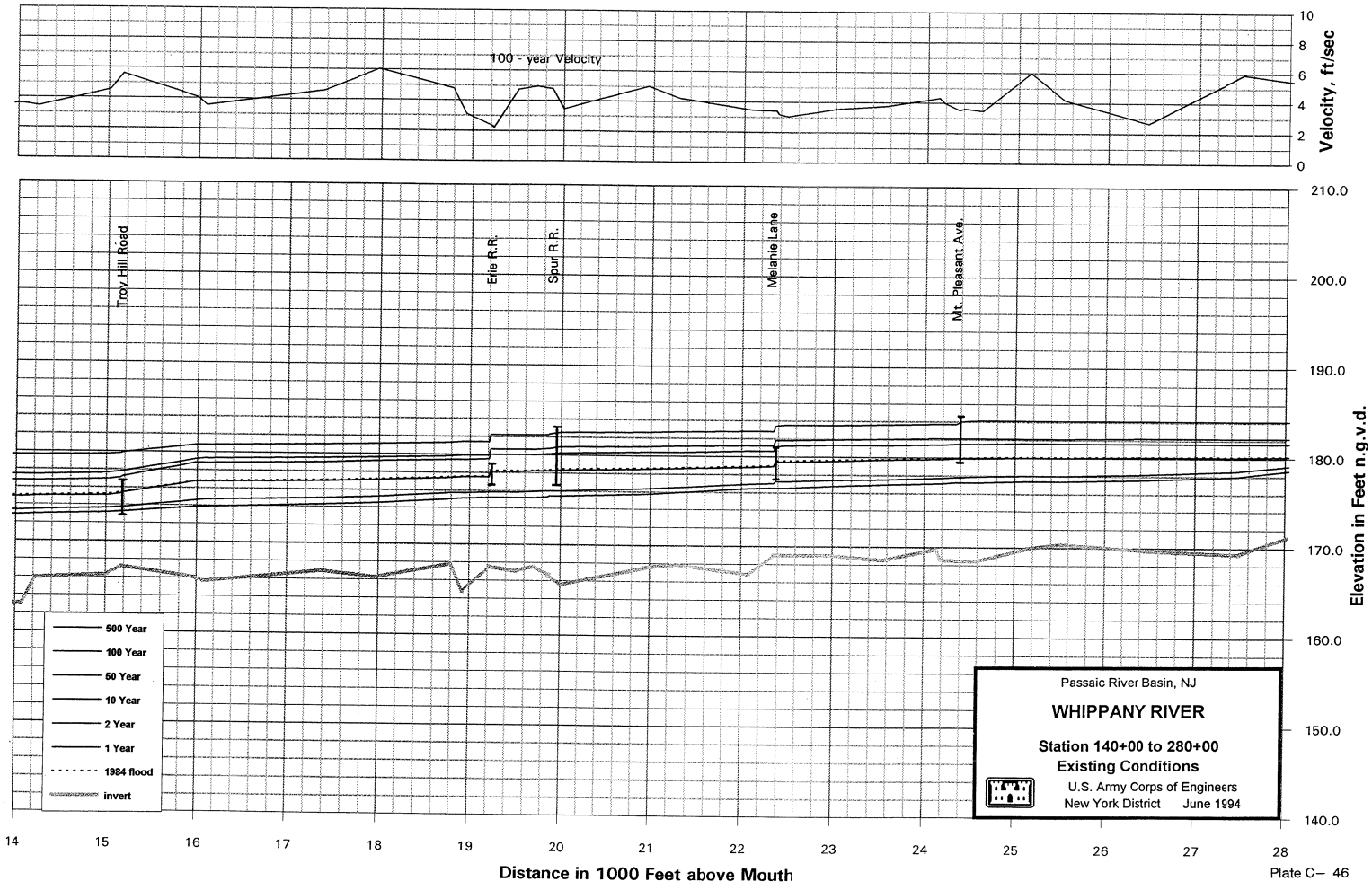
Passaic River Basin, NJ

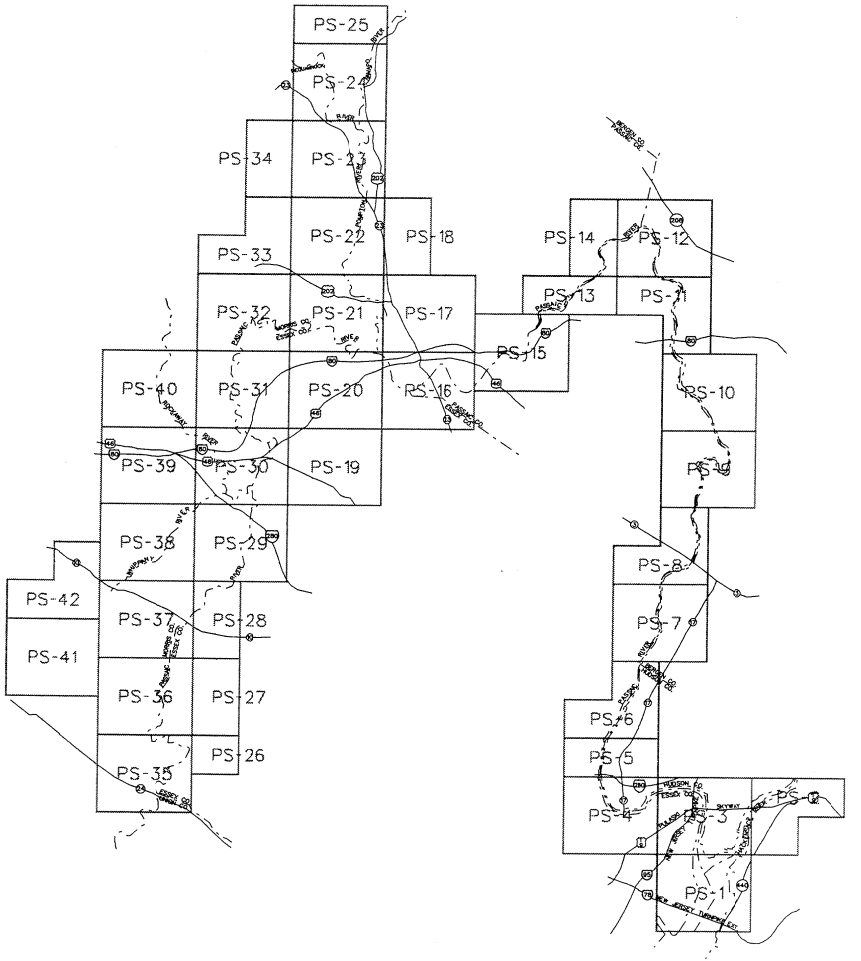
ROCKAWAY RIVER

Station 280+00 to 308+56
Existing Conditions

U.S. Army Corps of Engineers
New York District June 1994


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Edwards Road
Route 280
Ridgdale Road
confluence w/ Troy Brook
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
WHIPPANY RIVER
Station 0+00 to 140+00
Existing Conditions
U.S. Army Corps of Engineers
New York District June 1994


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Troy Hill Road
Erie R.R.
Spur R.R.
Melanie Lane
Mt. Pleasant Ave.
210.0
200.0
190.0
180.0
170.0
160.0
150.0
140.0
Elevation in Feet n.g.v.d.
500 Year
100 Year
50 Year
10 Year
2 Year
1 Year
1984 flood
invert
Passaic River Basin, NJ
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Station 140+00 to 280+00
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16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth



SCALE IN FEET

6500 0 6500 13000 19500

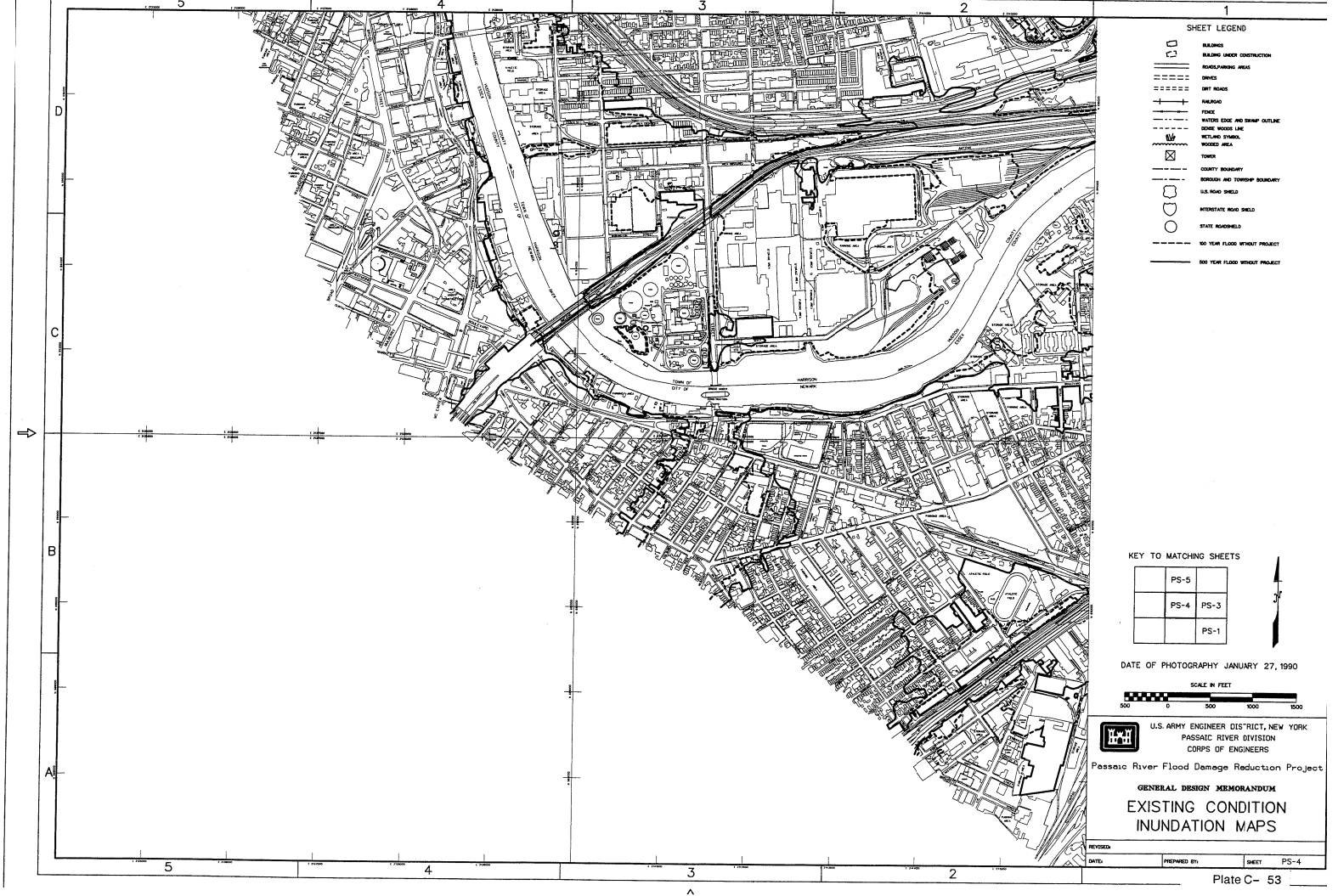
U.S. ARMY ENGINEER DISTRICT, NEW YORK
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Passaic River Flood Damage Reduction Project

FLOOD DELINEATIONS INDEX SHEET

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PREPARED BY:
SHEET PS-4
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Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-6



SHEET LEGEND

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DATE OF PHOTOGRAPHY JANUARY 27, 1990

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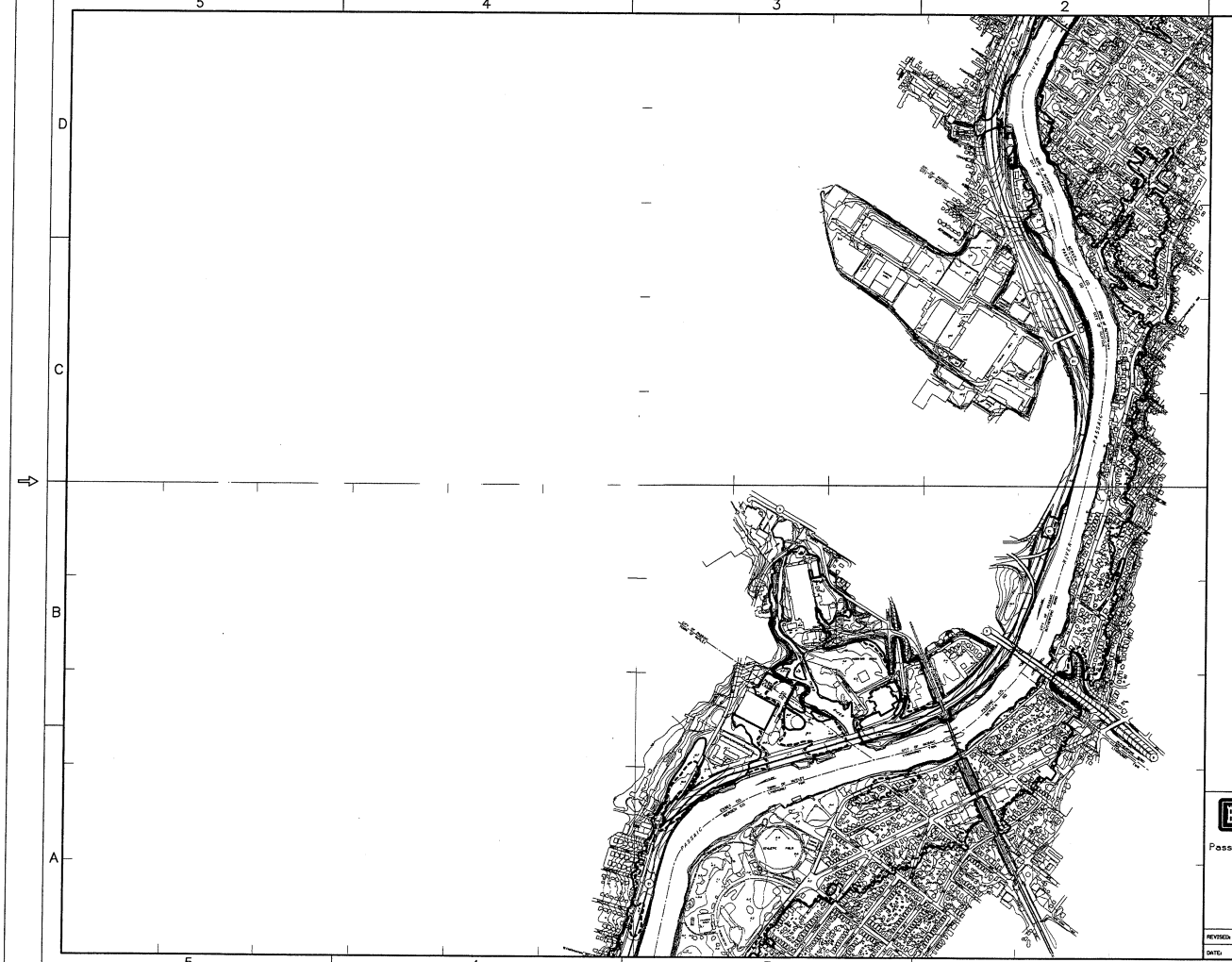
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

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EXISTING CONDITION INUNDATION MAPS

REVISED:		
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SHEET LEGEND

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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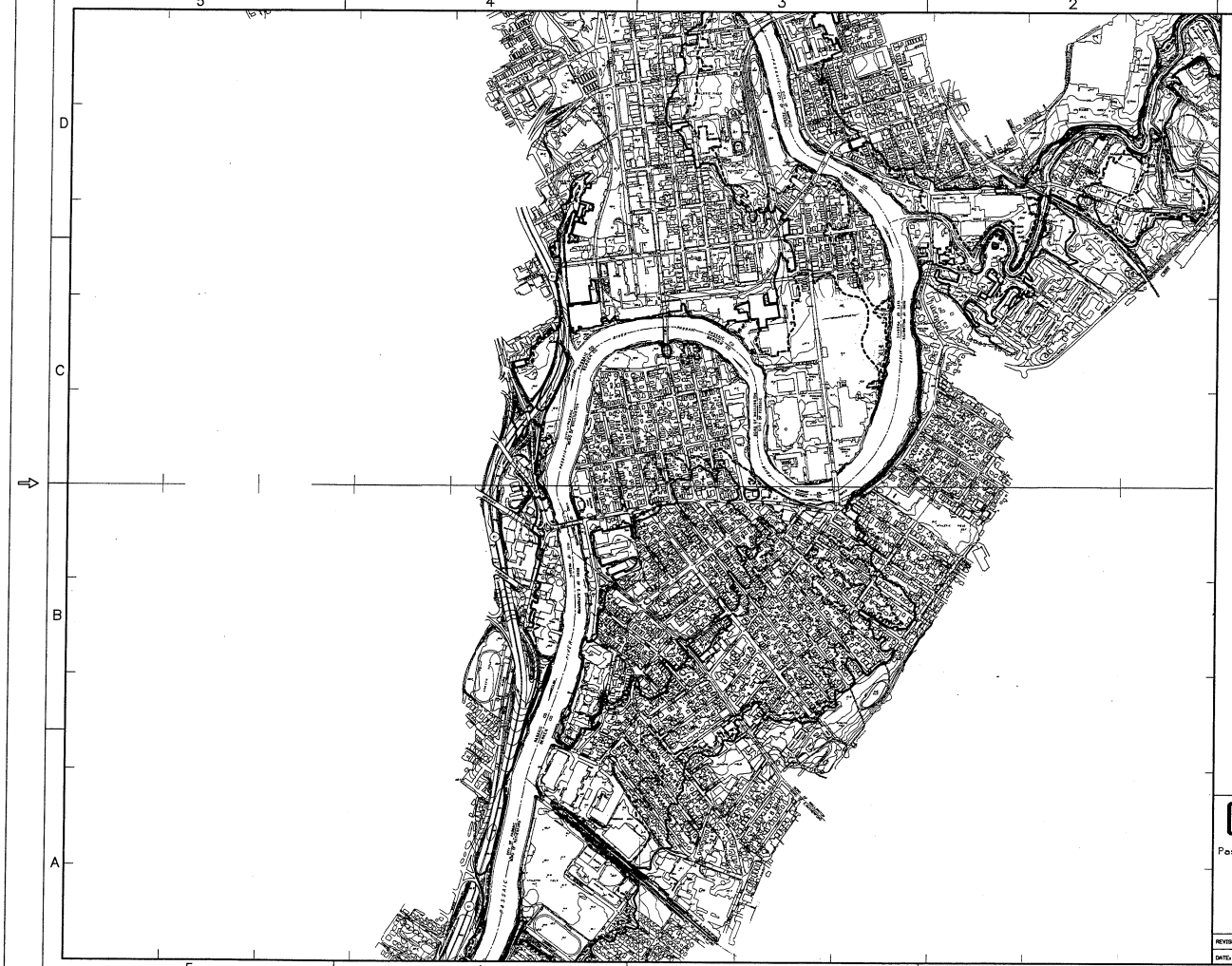
Passaic River Flood Damage Reduction Project

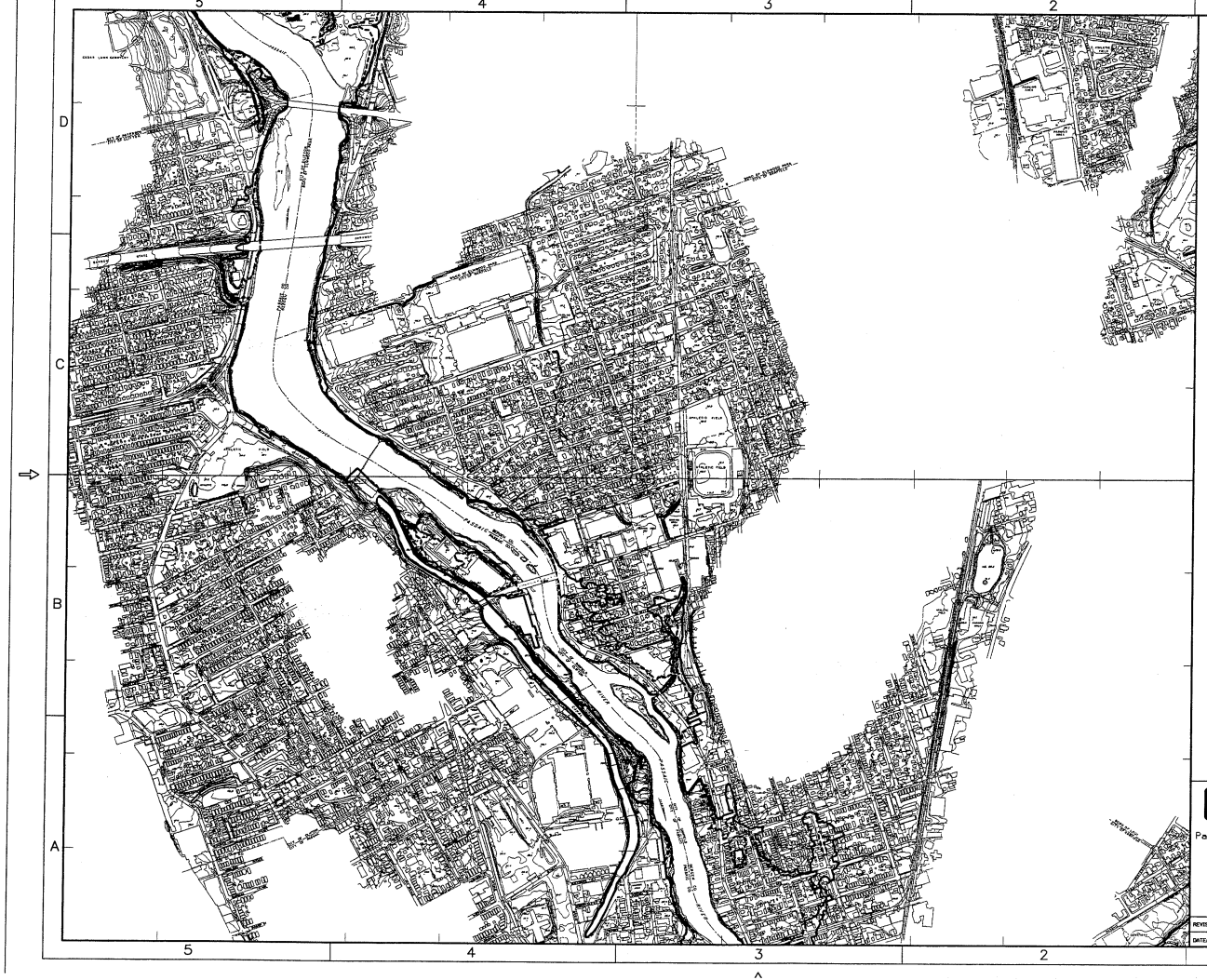
GENERAL DESIGN MEMORANDUM

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REVISED:			
DATE:	PREPARED BY:	SHEET	PS-8

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SHEET LEGEND
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SHEET PS-9
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SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
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- DIRT ROADS
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

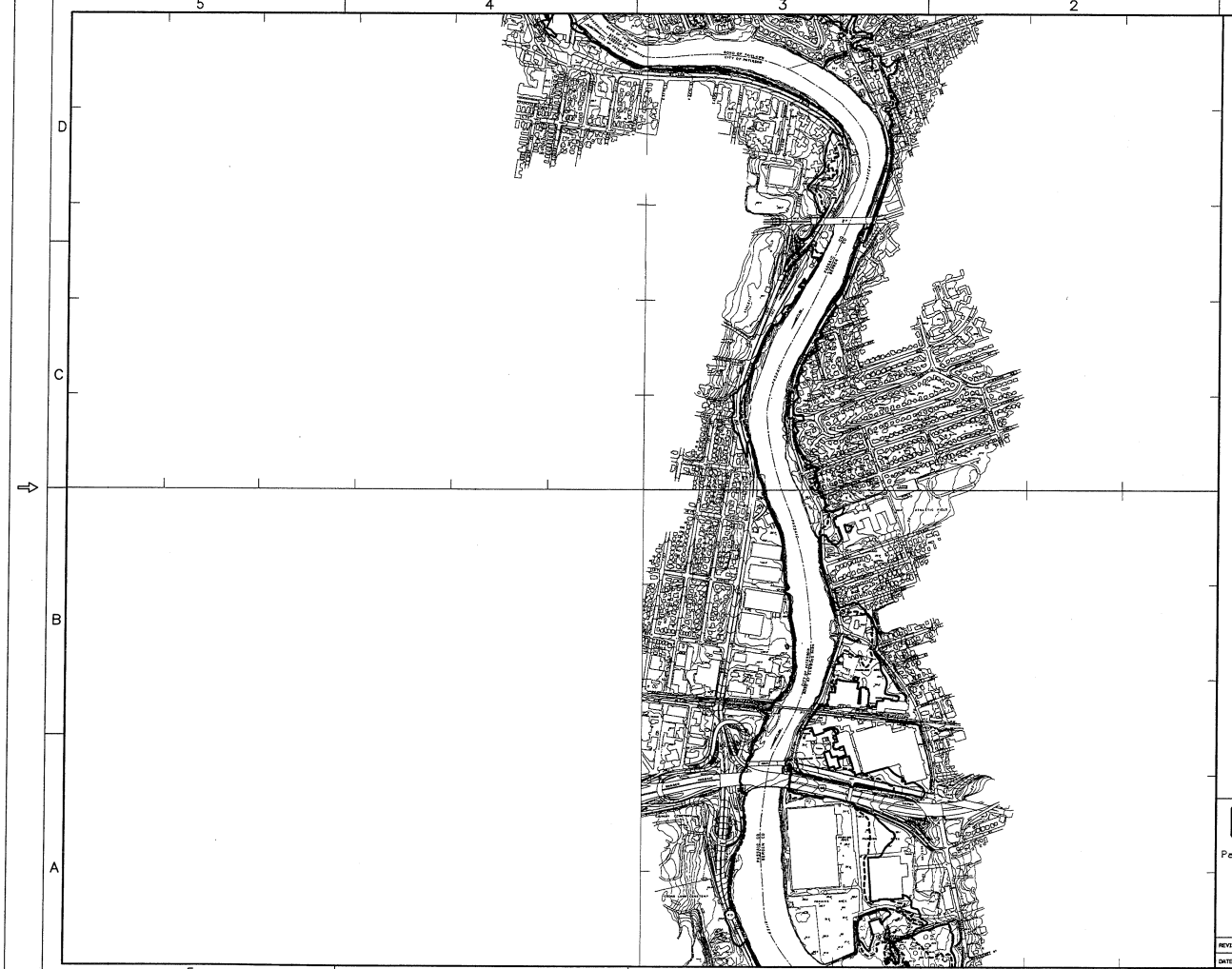
Passaic River Flood Damage Reduction Project

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DATE:	PREPARED BY:	SHEET	PS-10

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SHEET LEGEND

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

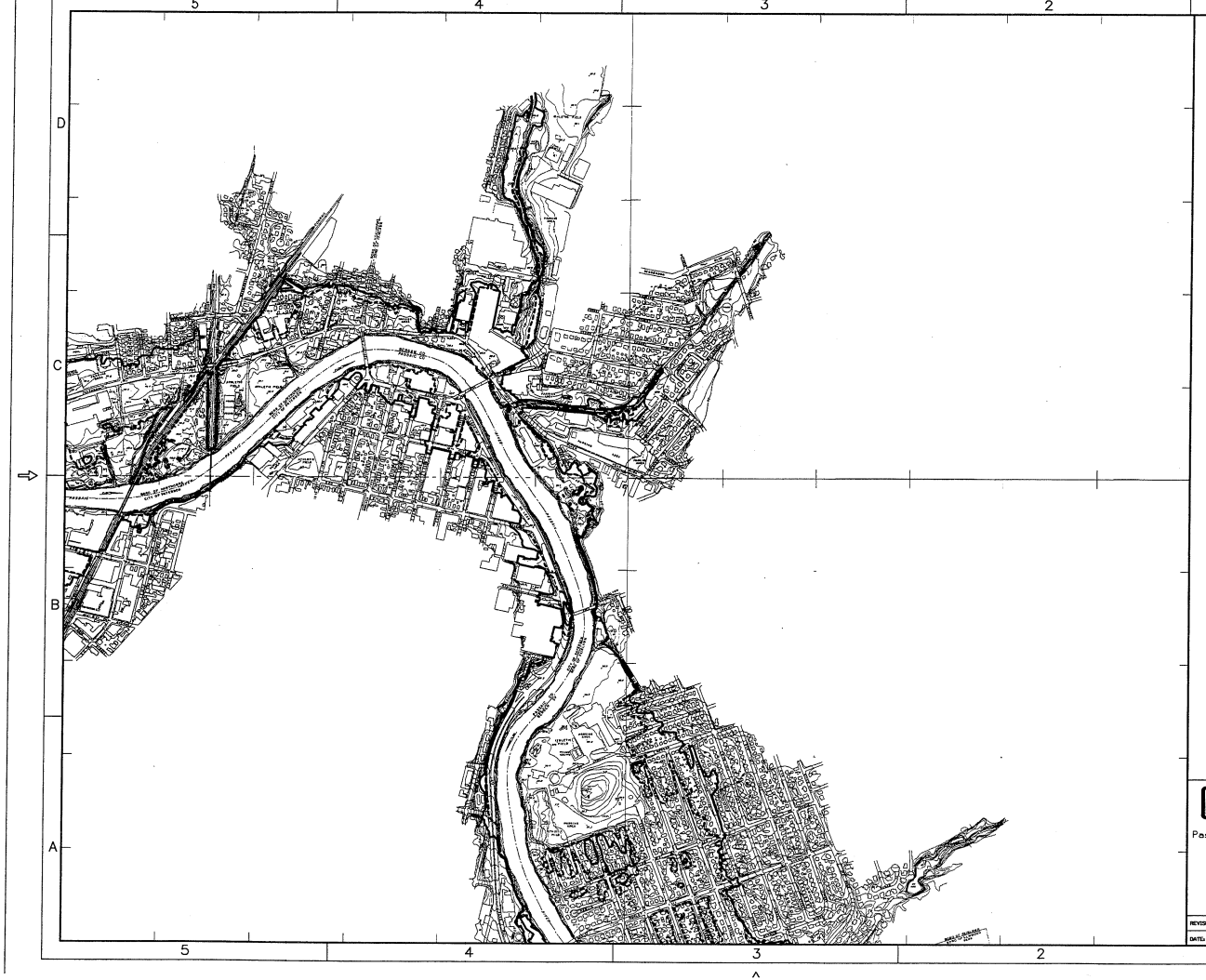
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-11

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SHEET LEGEND

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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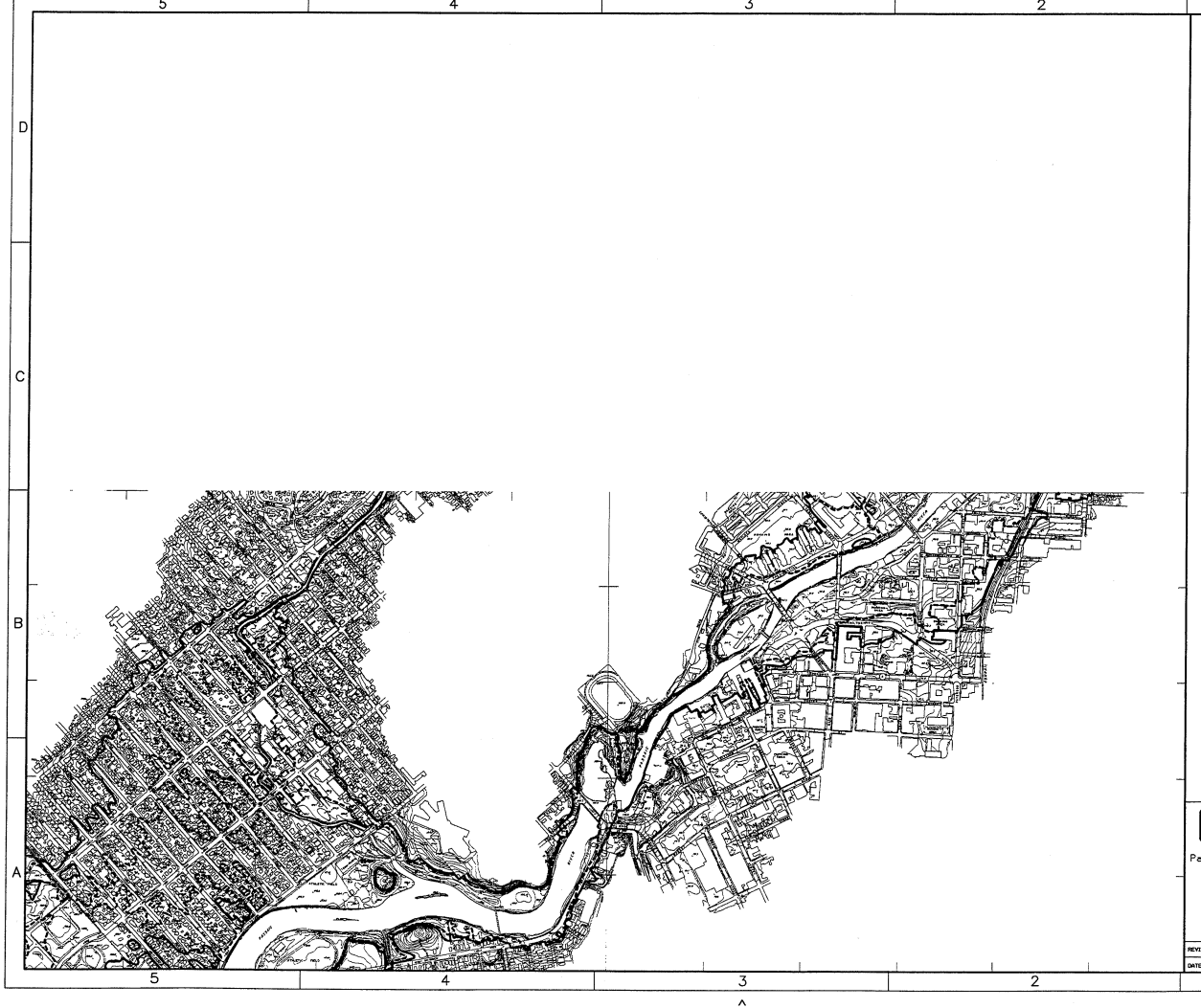
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

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DATE:	PREPARED BY:	SHEET	PS-12

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SHEET LEGEND

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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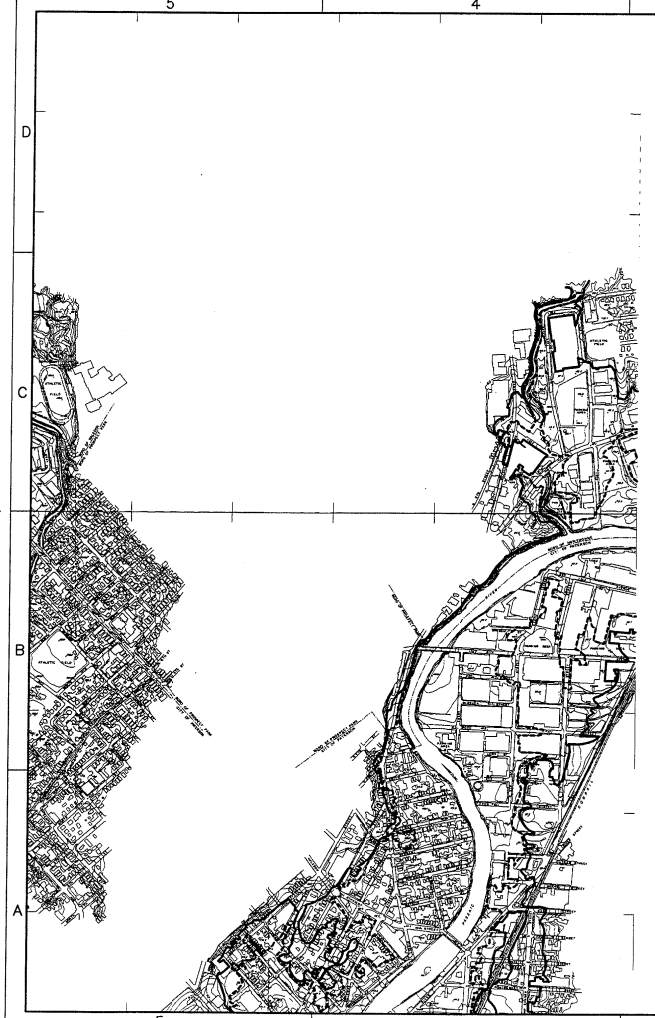
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

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SHEET LEGEND

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SCALE IN FEET

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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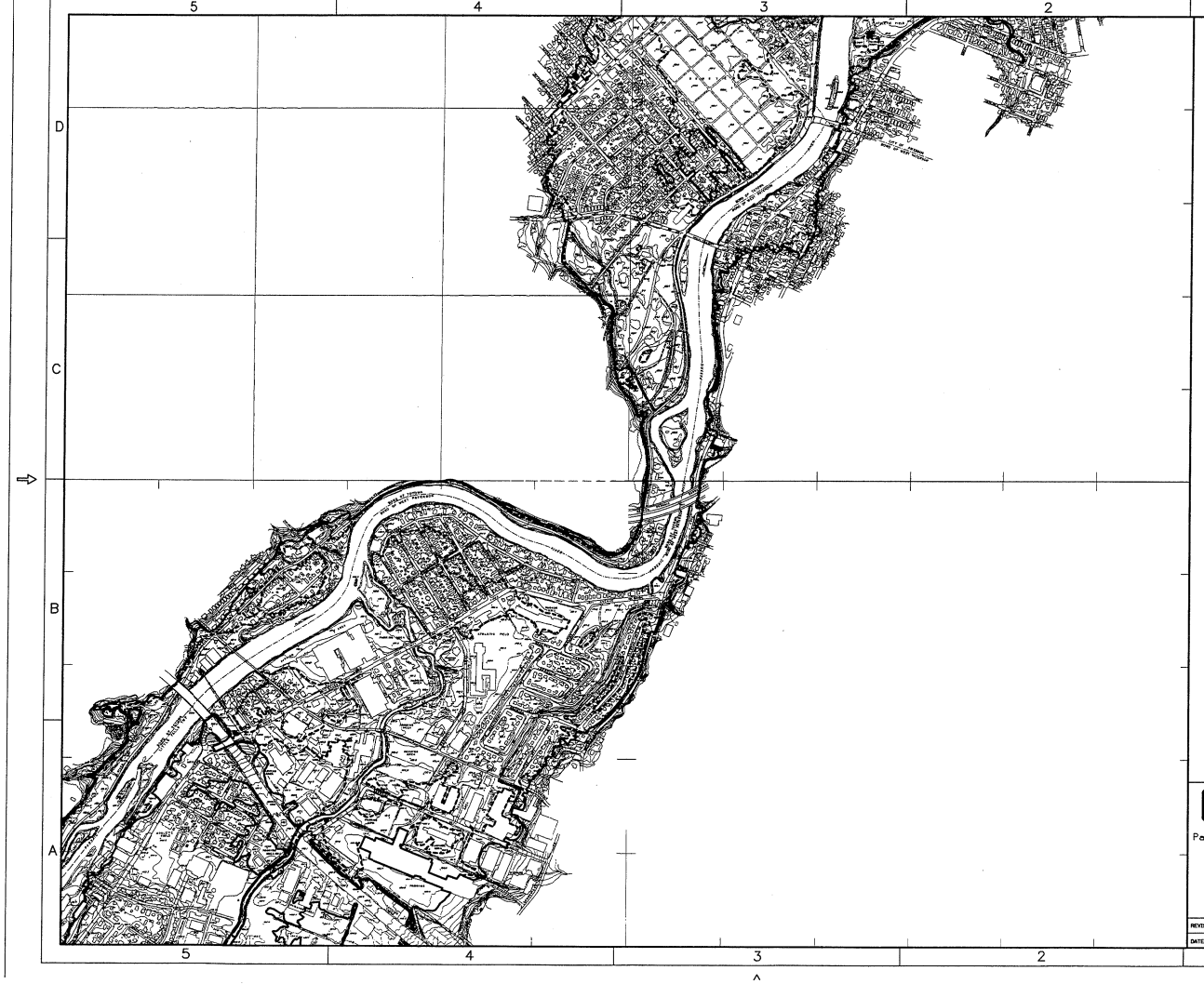
Passaic River Flood Damage Reduction Project

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SHEET LEGEND

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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Passaic River Flood Damage Reduction Project

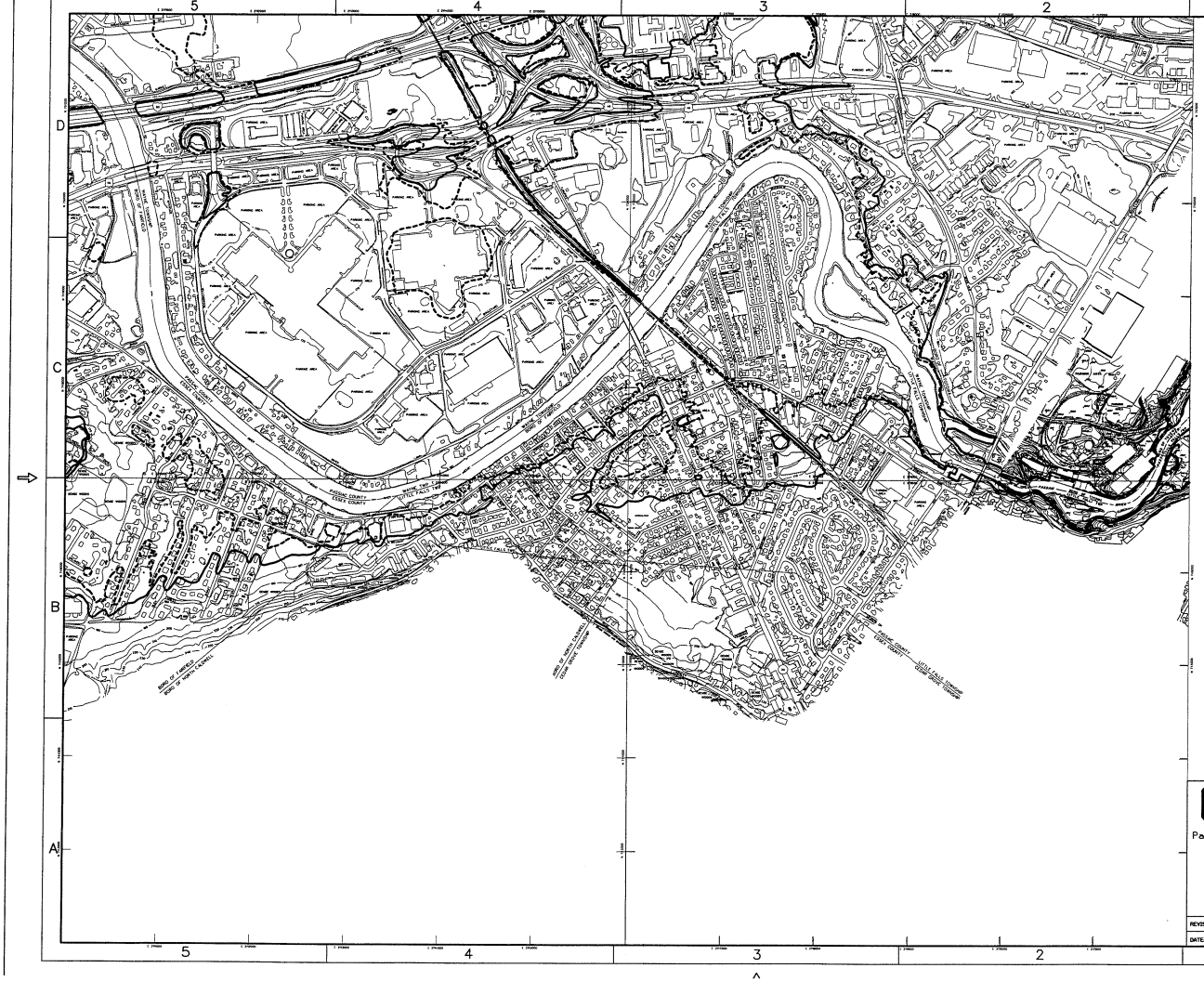
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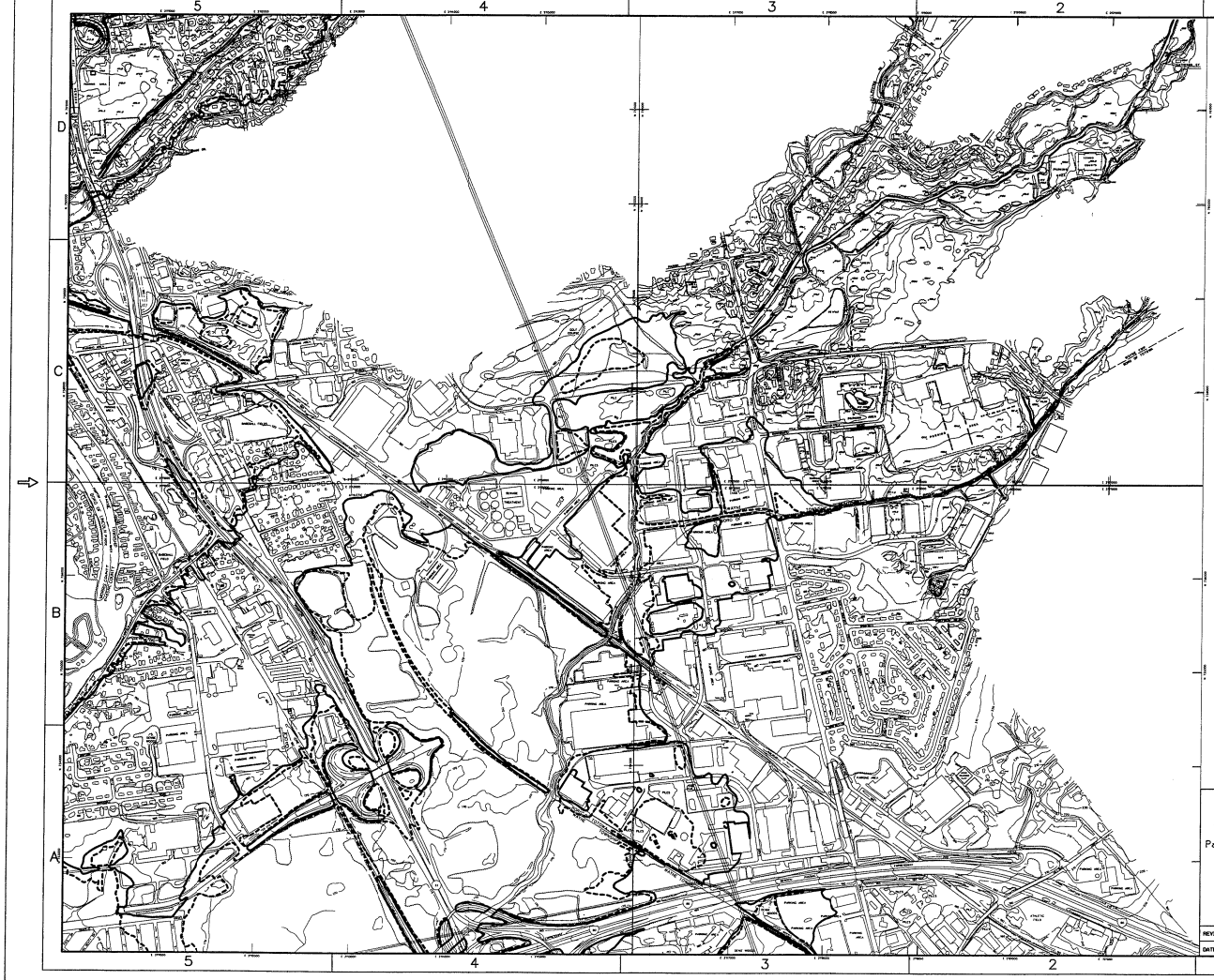
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SHEET LEGEND

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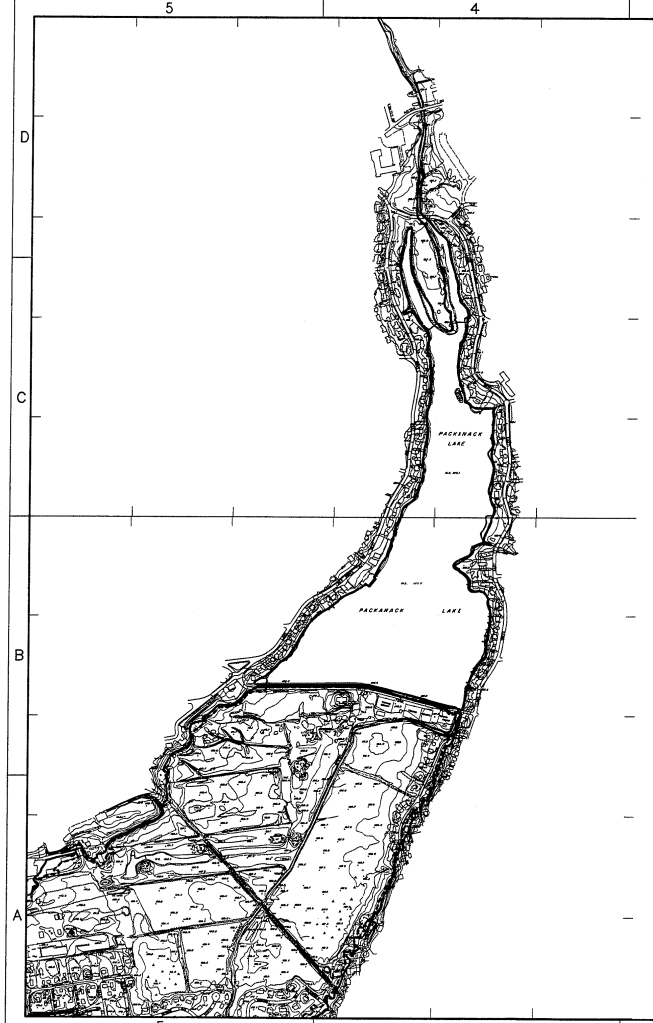
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

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DATE:	PREPARED BY:	SHEET PS-17

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SHEET LEGEND

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SCALE IN FEET

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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Passaic River Flood Damage Reduction Project

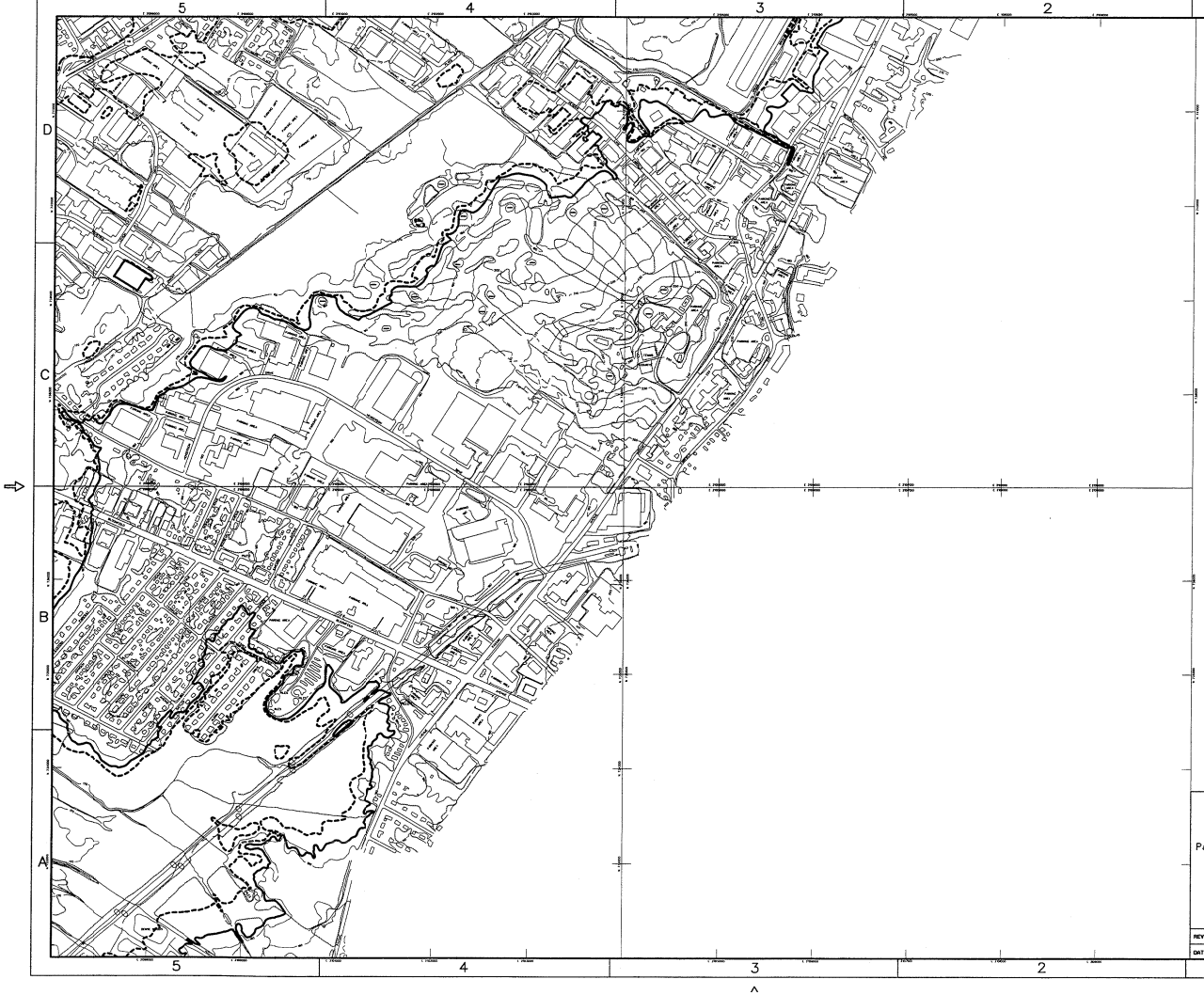
GENERAL DESIGN MEMORANDUM

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DATE: PREPARED BY: SHEET PS-18

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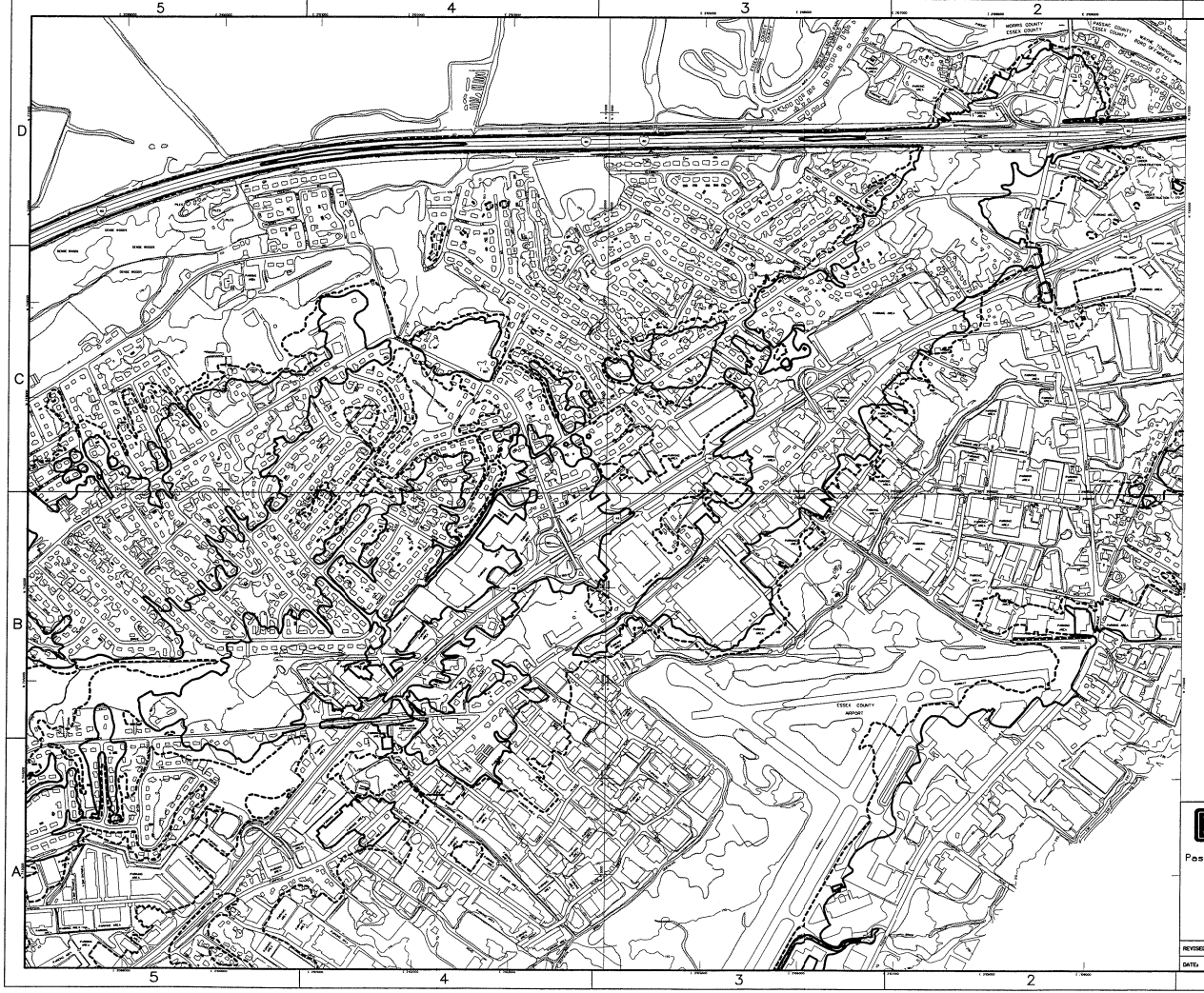
Passaic River Flood Damage Reduction Project

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DATE:	PREPARED BY:	SHEET PS-19

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SHEET LEGEND

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500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

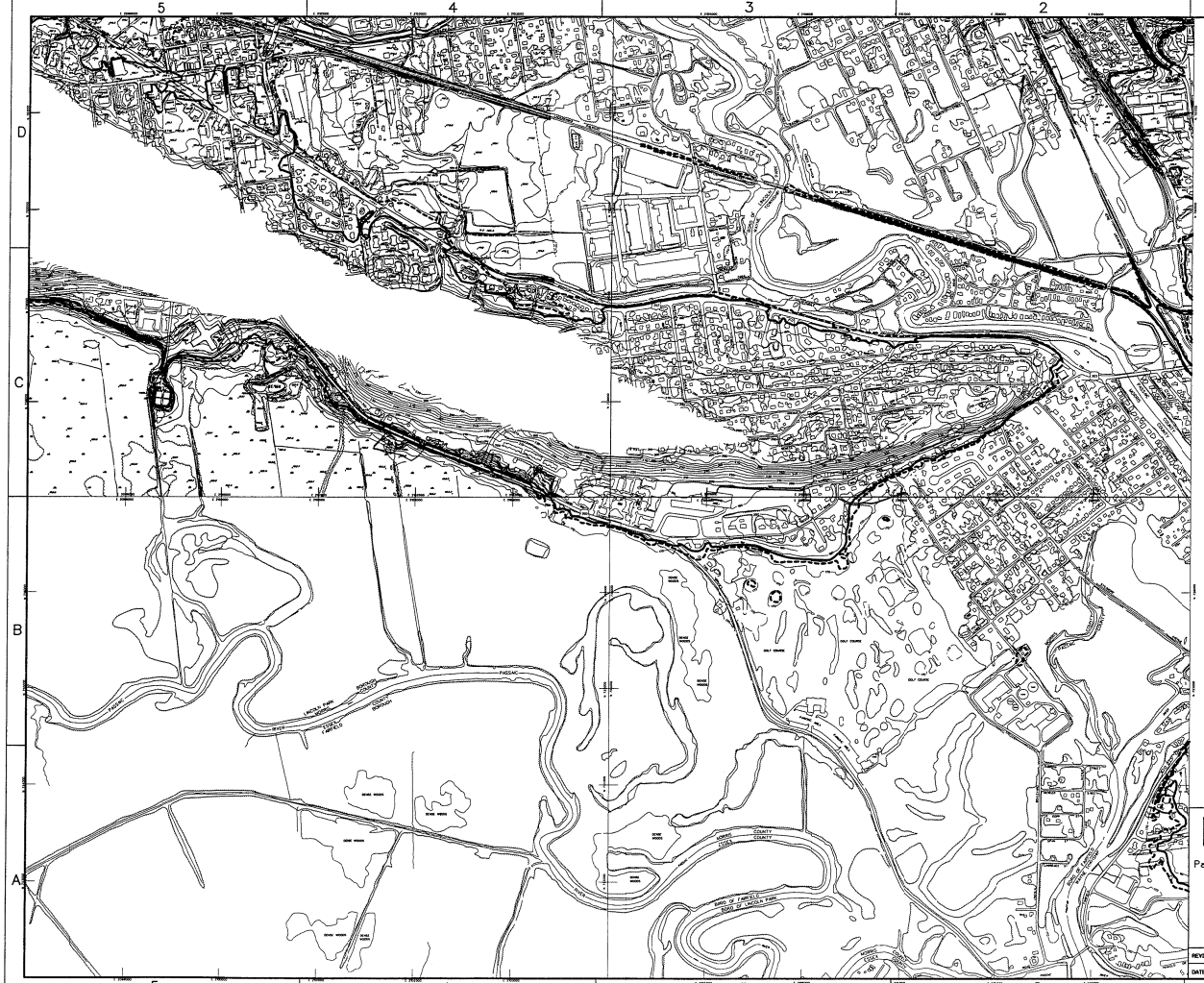
Passaic River Flood Damage Reduction Project

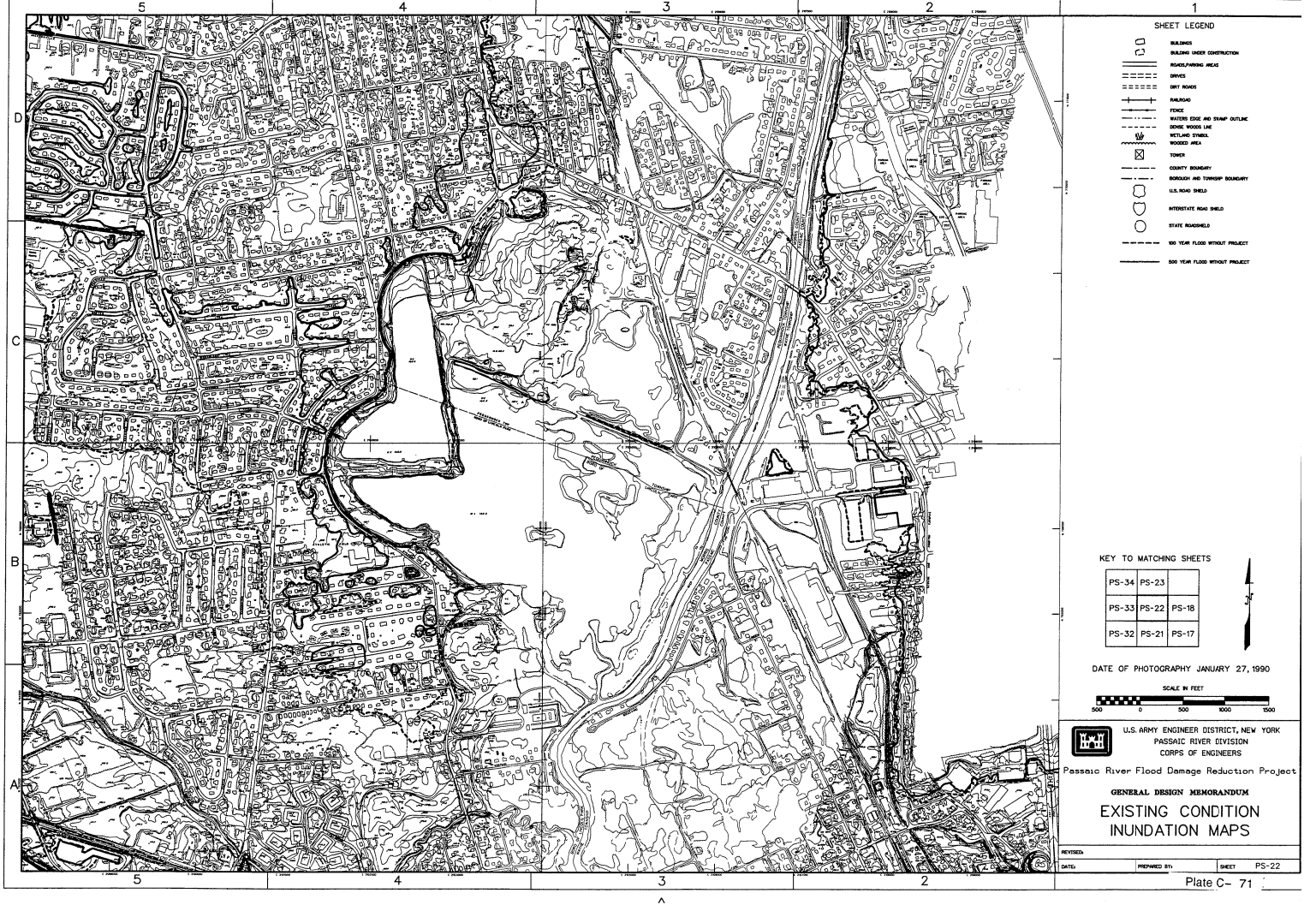
GENERAL DESIGN MEMORANDUM

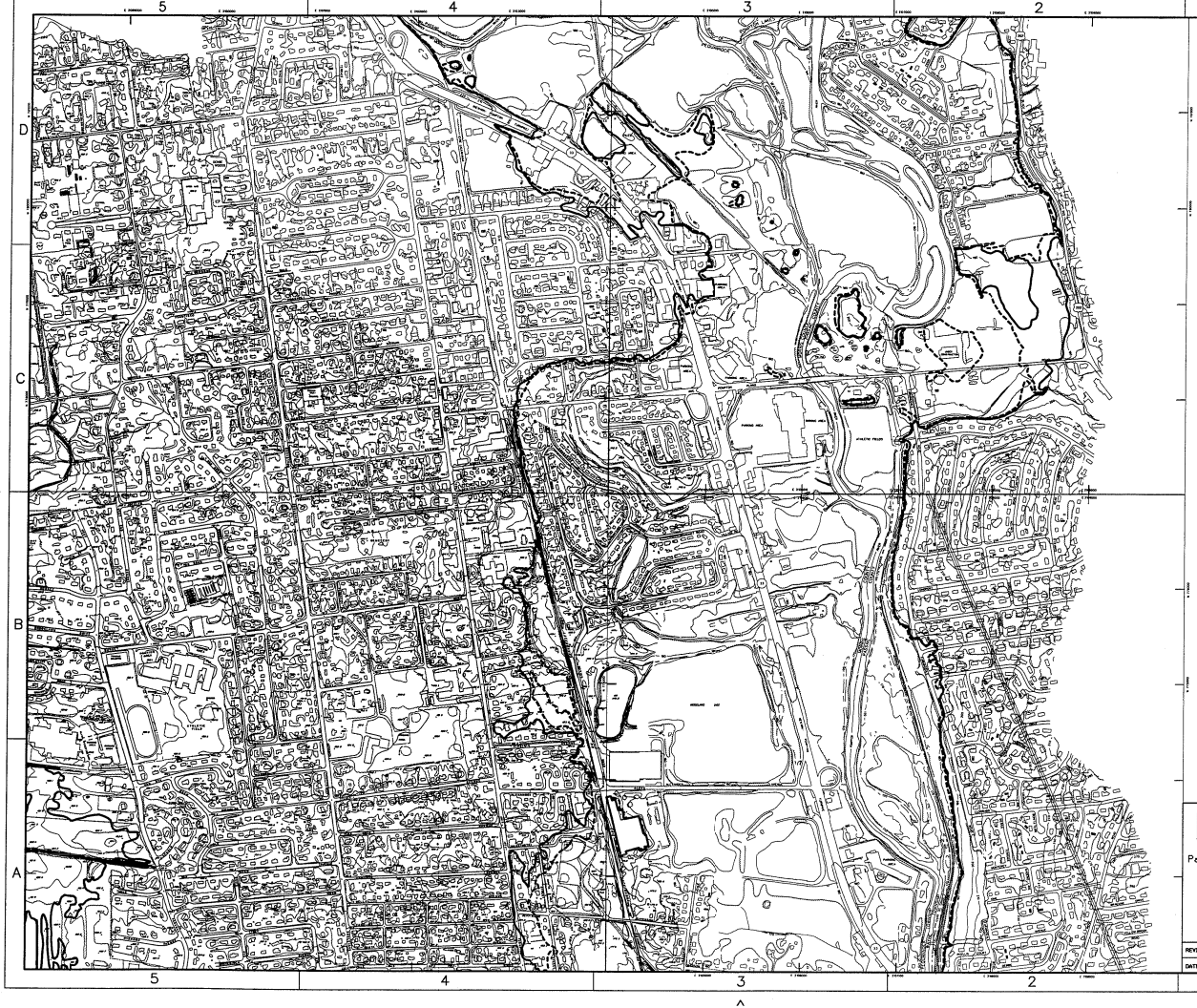
EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-20

Plate C- 69


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A
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROAD/SHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-33 PS-22 PS-18
PS-32 PS-21 PS-17
PS-31 PS-20 PS-16
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-21
Plate C- 70


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-34 PS-23
PS-33 PS-22 PS-18
PS-32 PS-21 PS-17
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED
DATED
PREPARED BY
SHEET PS-22
Plate C- 71



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND TRUMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITHOUT PROJECT
- 500 YEAR FLOOD WITHOUT PROJECT

KEY TO MATCHING SHEETS

	PS-24	
PS-34	PS-23	
PS-33	PS-22	PS-18

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

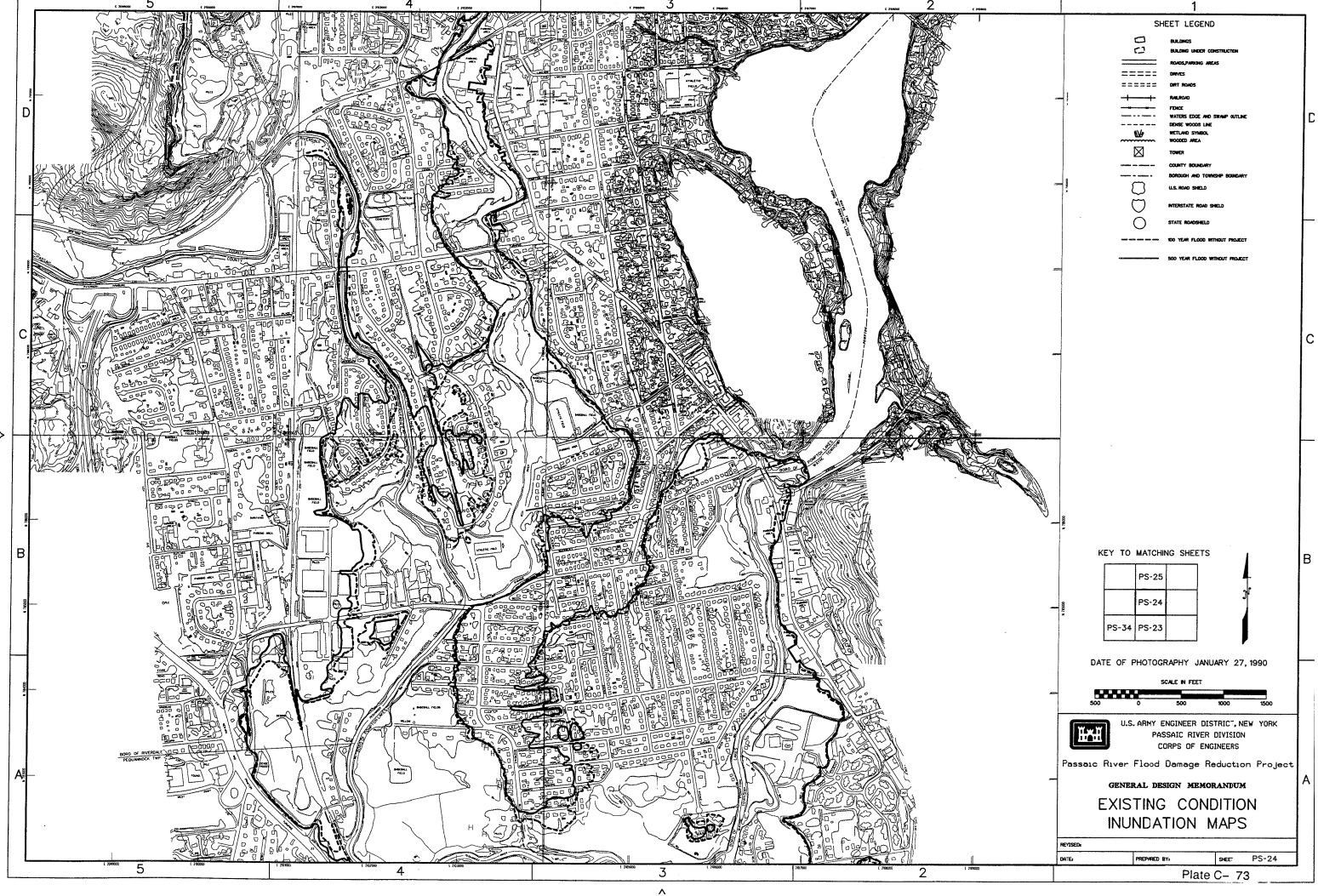
Passaic River Flood Damage Reduction Project

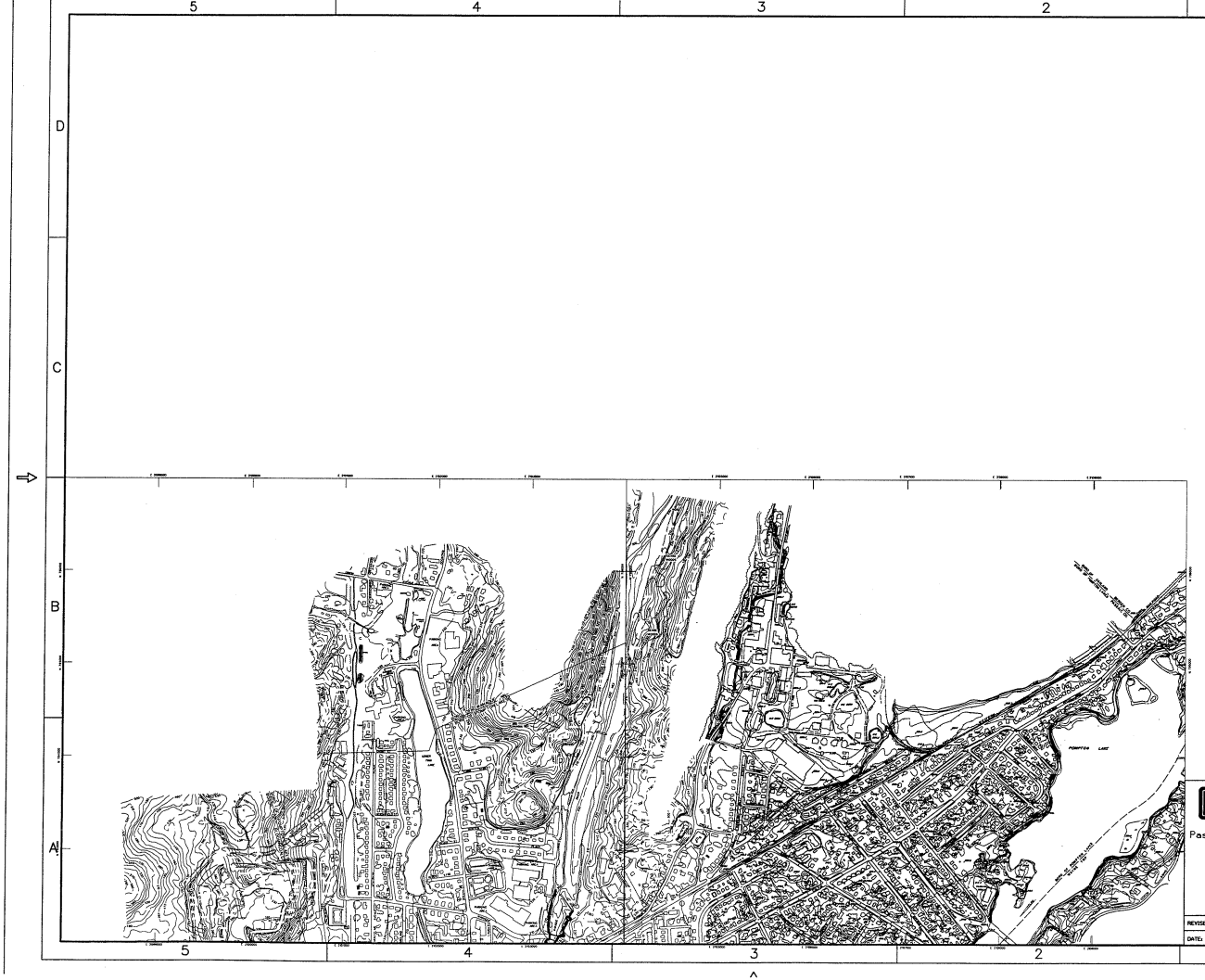
GENERAL DESIGN MEMORANDUM

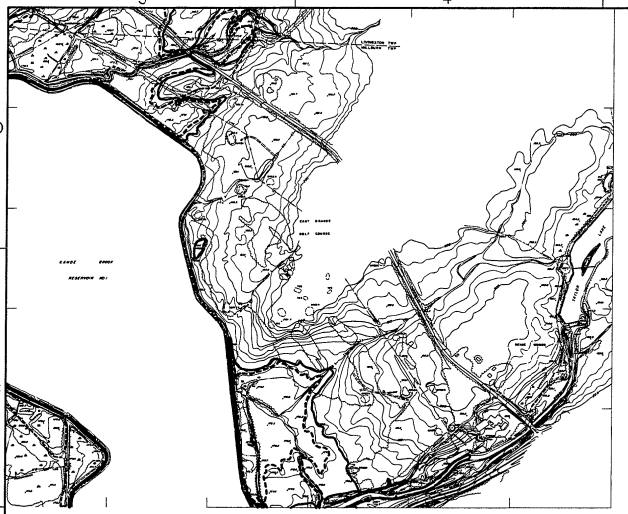
EXISTING CONDITION INUNDATION MAPS

REVISED#			
DATE#	PREPARED BY#	SHEET	PS-23

Plate C- 72


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-25
PS-24
PS-34
PS-23
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED
DATE
PREPARED BY
SHEET PS-24
Plate C- 73


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SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-25
PS-24
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-25
Plate C- 74



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROAD SHIELD
- 100 YEAR FLOOD WITHOUT PROJECT
- 500 YEAR FLOOD WITHOUT PROJECT

KEY TO MATCHING SHEETS

PS-36	PS-27	
PS-35	PS-26	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

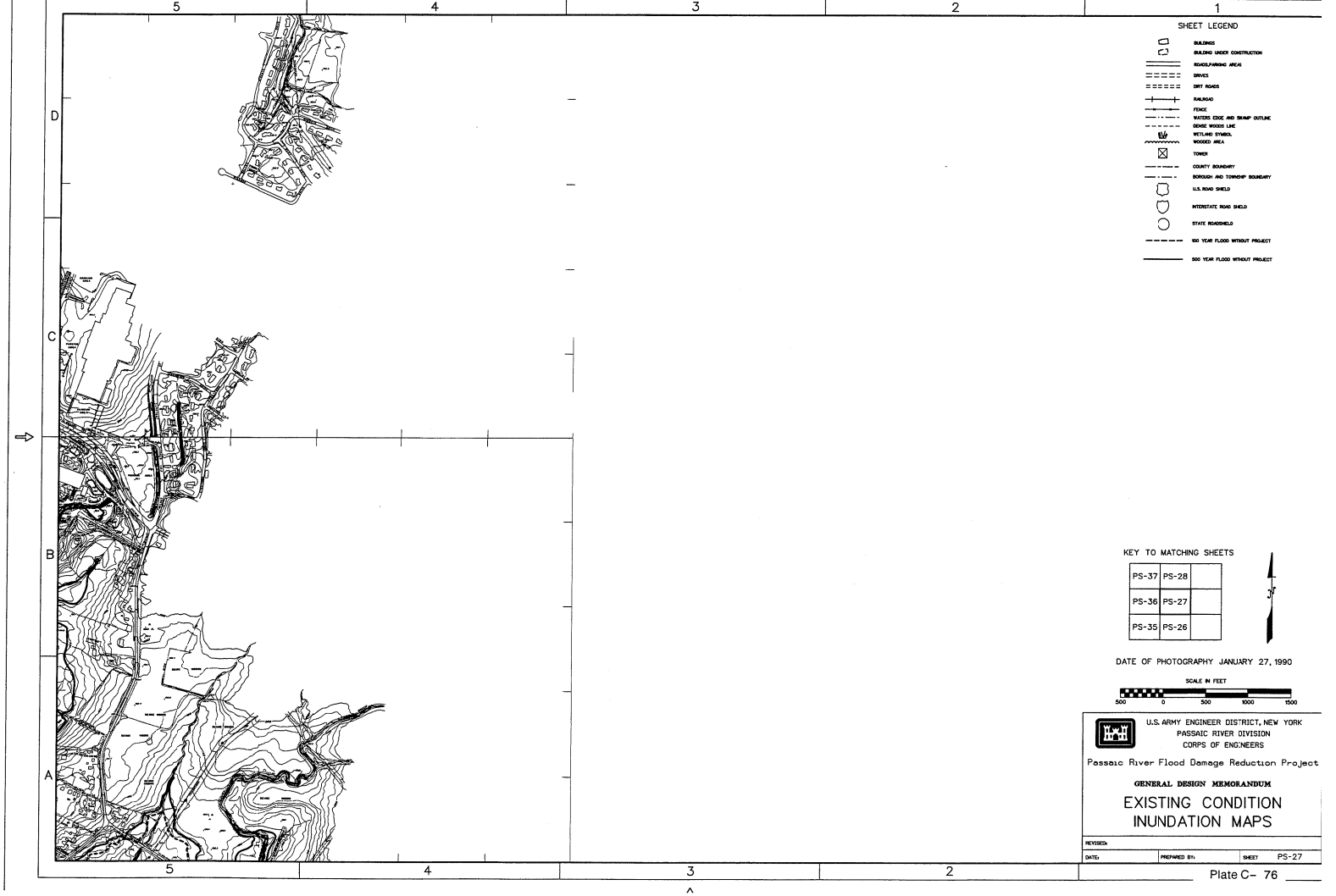
GENERAL DESIGN MEMORANDUM

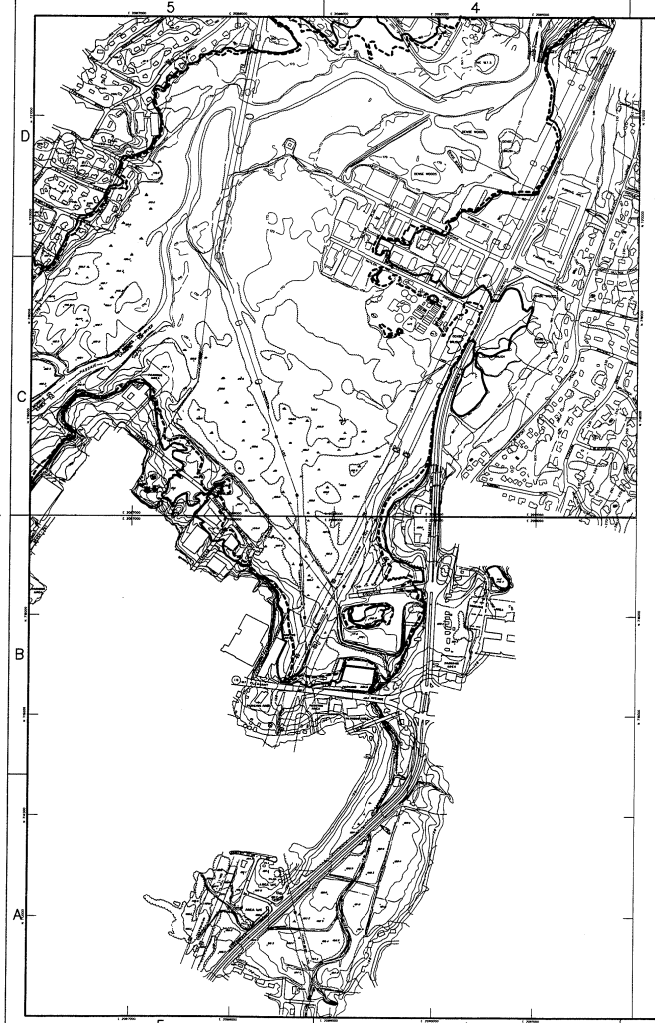
EXISTING CONDITION INUNDATION MAPS

REVISED:

DATE: PREPARED BY: SHEET PS-26

Plate C- 75


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A
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-37
PS-28
PS-36
PS-27
PS-35
PS-26
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
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1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-27
Plate C- 76



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITHOUT PROJECT
- 500 YEAR FLOOD WITHOUT PROJECT

KEY TO MATCHING SHEETS

PS-38	PS-29	
PS-37	PS-28	
PS-36	PS-27	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

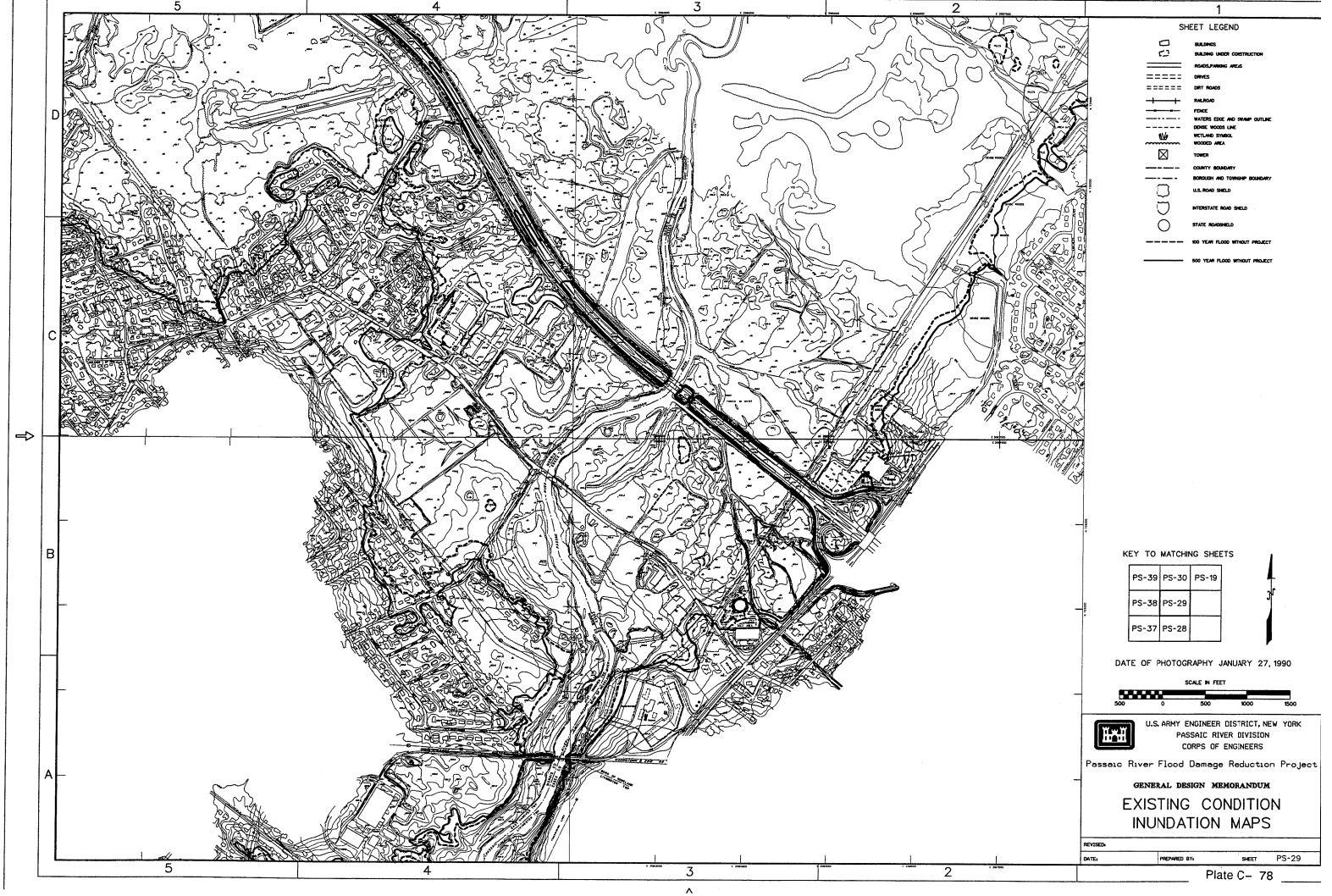
Passaic River Flood Damage Reduction Project

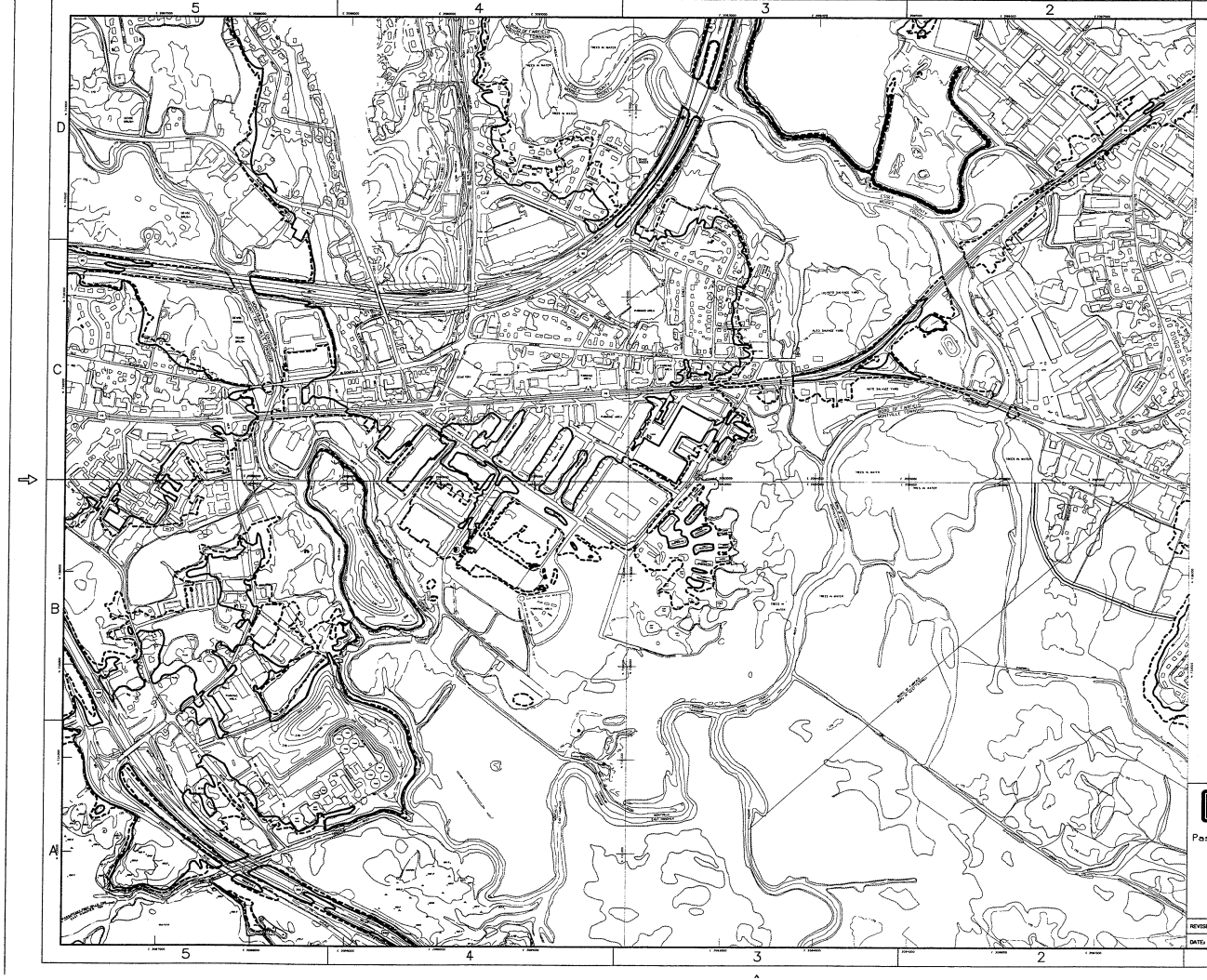
GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-28

Plate C- 77


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-39 PS-30 PS-19
PS-38 PS-29
PS-37 PS-28
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-29
Plate C- 78


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SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS,PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-40
PS-31
PS-20
PS-39
PS-30
PS-19
PS-38
PS-29
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET
PS-30
Plate C- 79



U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

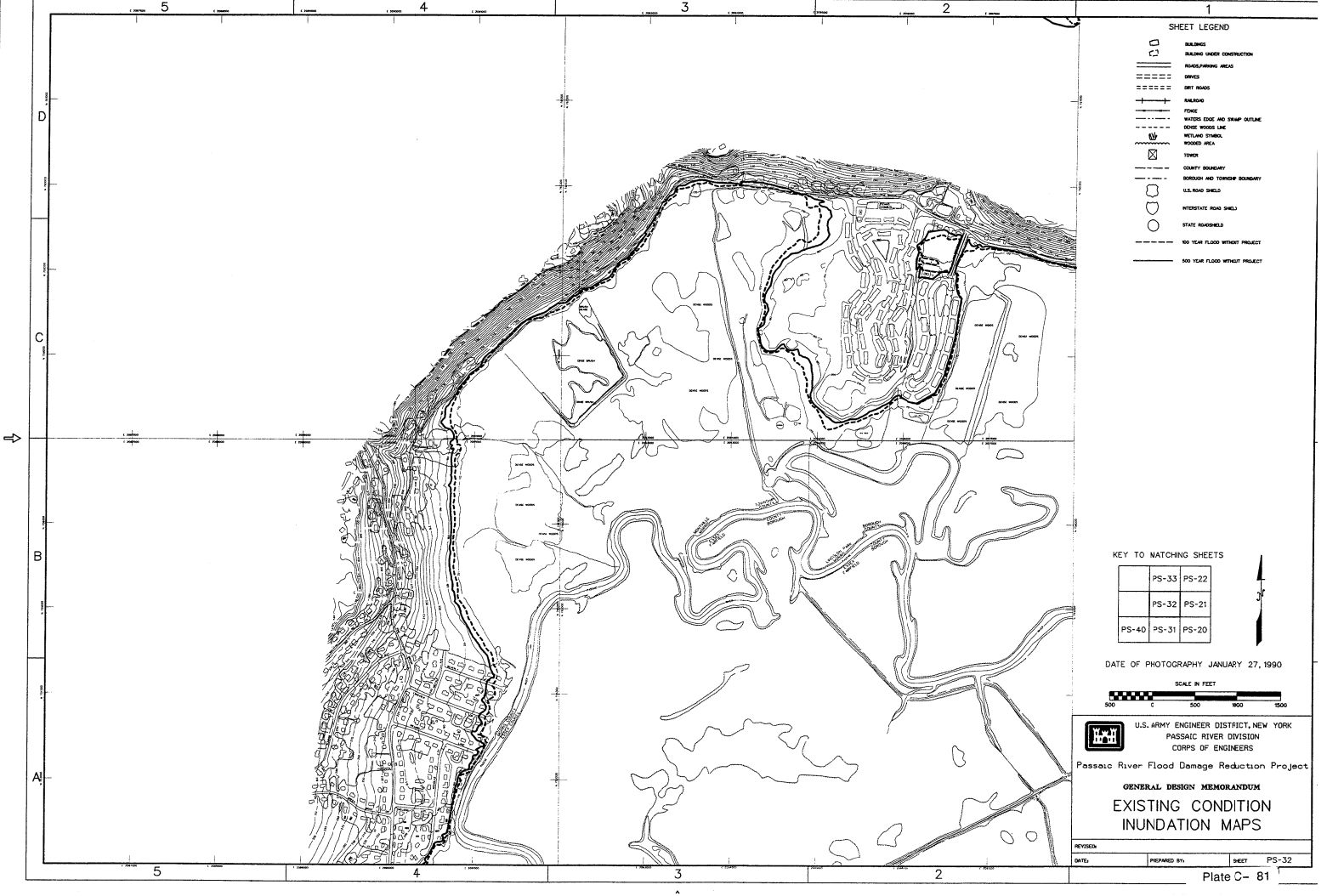
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

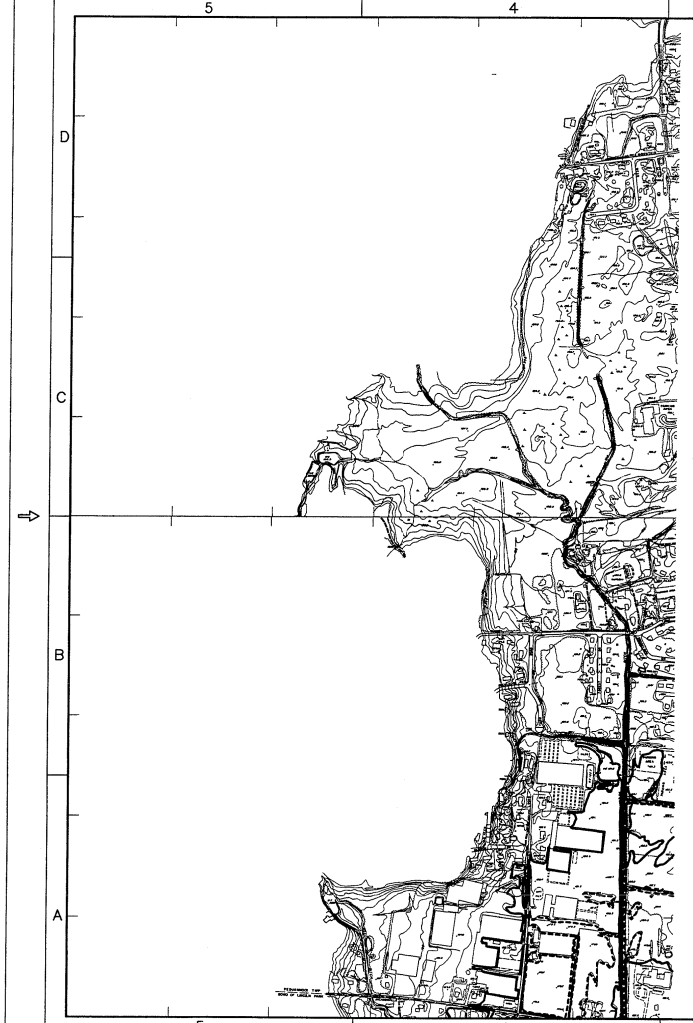
EXISTING CONDITION INUNDATION MAPS

REVISED:			
DATE:	PREPARED BY:	SHEET	PS-31

Plate C- 80


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND STRAP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-33 PS-22
PS-32 PS-21
PS-40 PS-31 PS-20
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-32
Plate C- 81


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SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-34
PS-23
PS-33
PS-22
PS-32
PS-21
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-33
Plate C- 82



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITHOUT PROJECT
- 500 YEAR FLOOD WITHOUT PROJECT

KEY TO MATCHING SHEETS

		PS-24
	PS-34	PS-23
	PS-33	PS-22

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

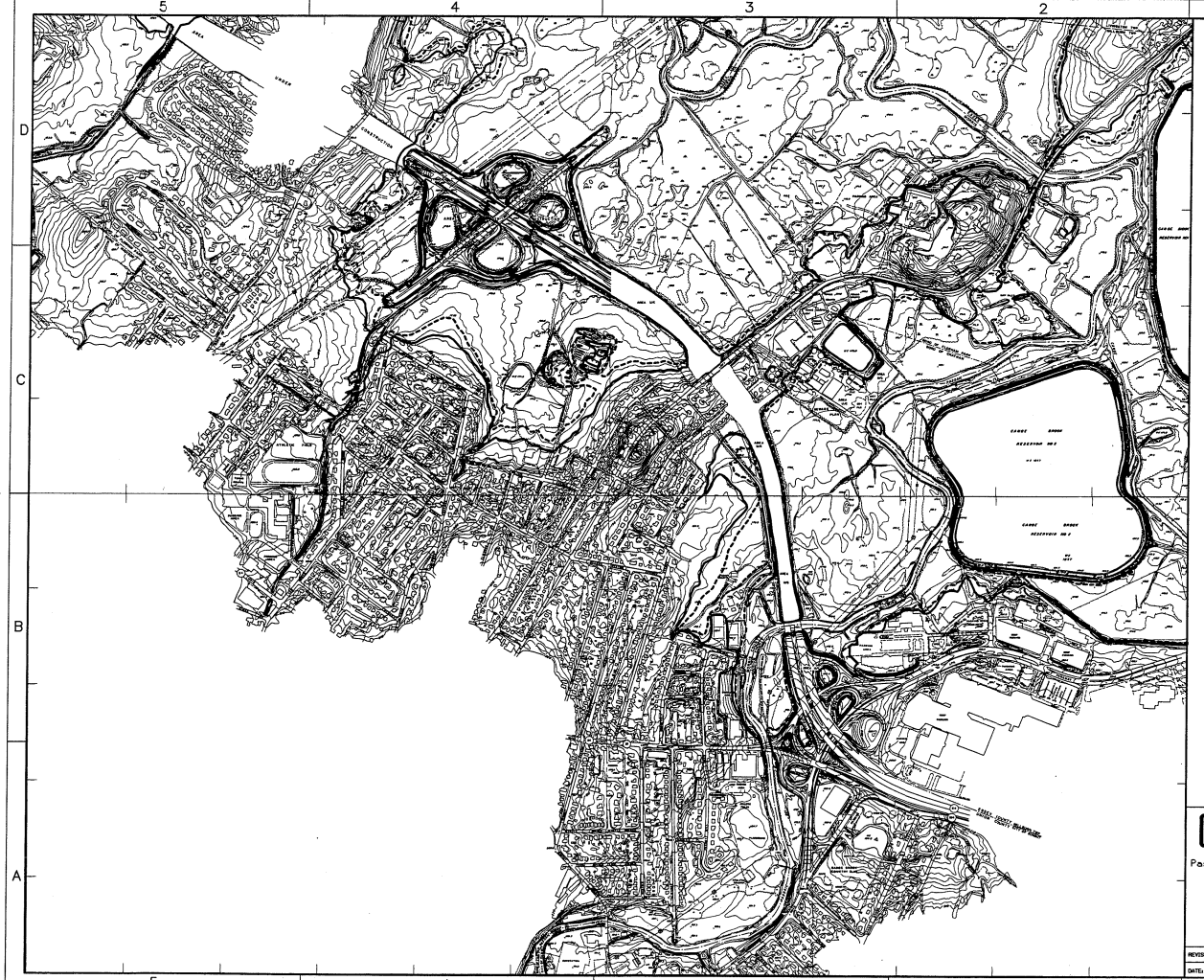
Passaic River Flood Damage Reduction Project

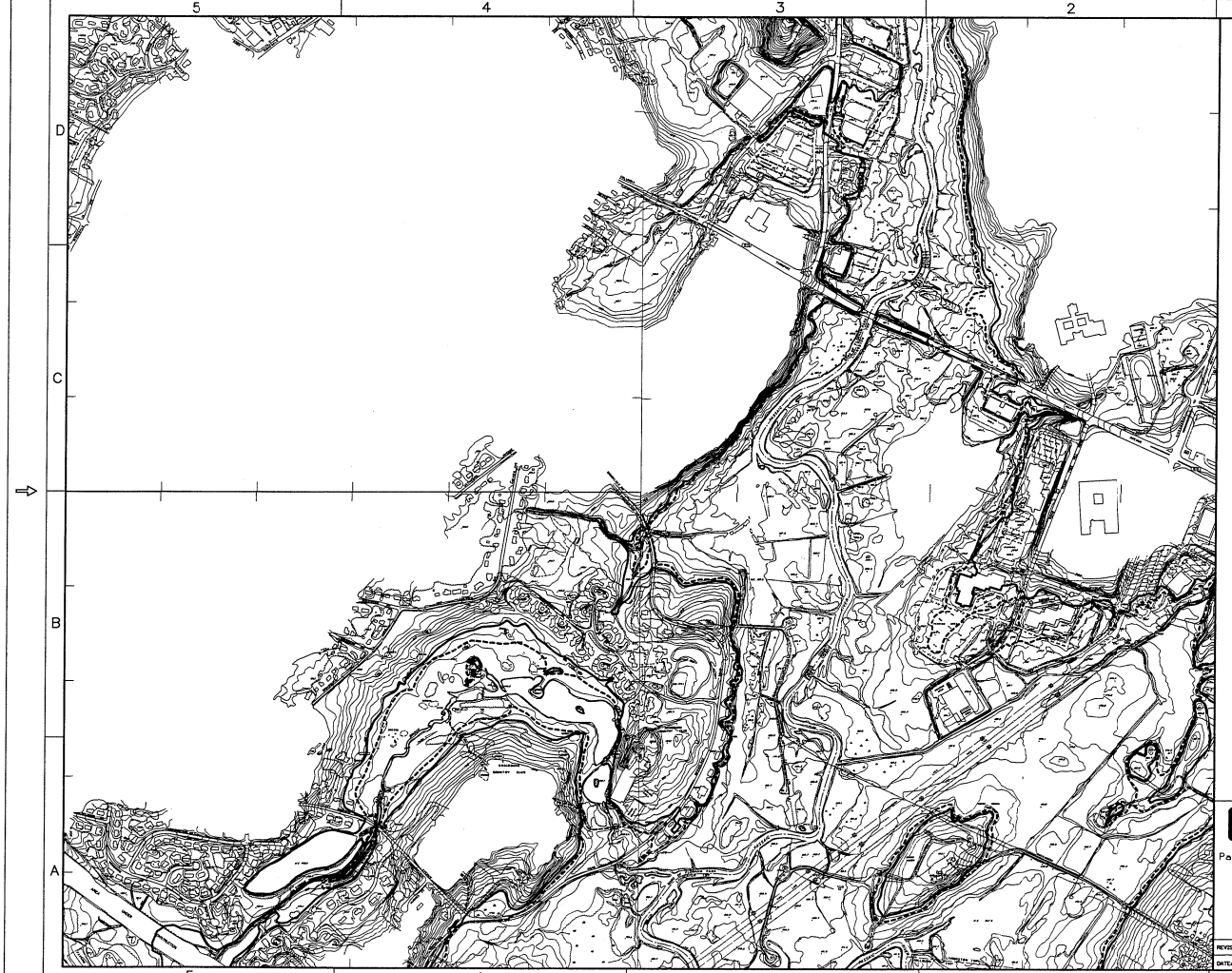
GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-34

Plate C- 83


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SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-36
PS-27
PS-35
PS-26
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED
DATE
PREPARED BY
SHEET PS-35
Plate C- 84



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITHOUT PROJECT
- 500 YEAR FLOOD WITHOUT PROJECT

KEY TO MATCHING SHEETS

PS-41	PS-37	PS-28
	PS-36	PS-27
	PS-35	PS-26

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

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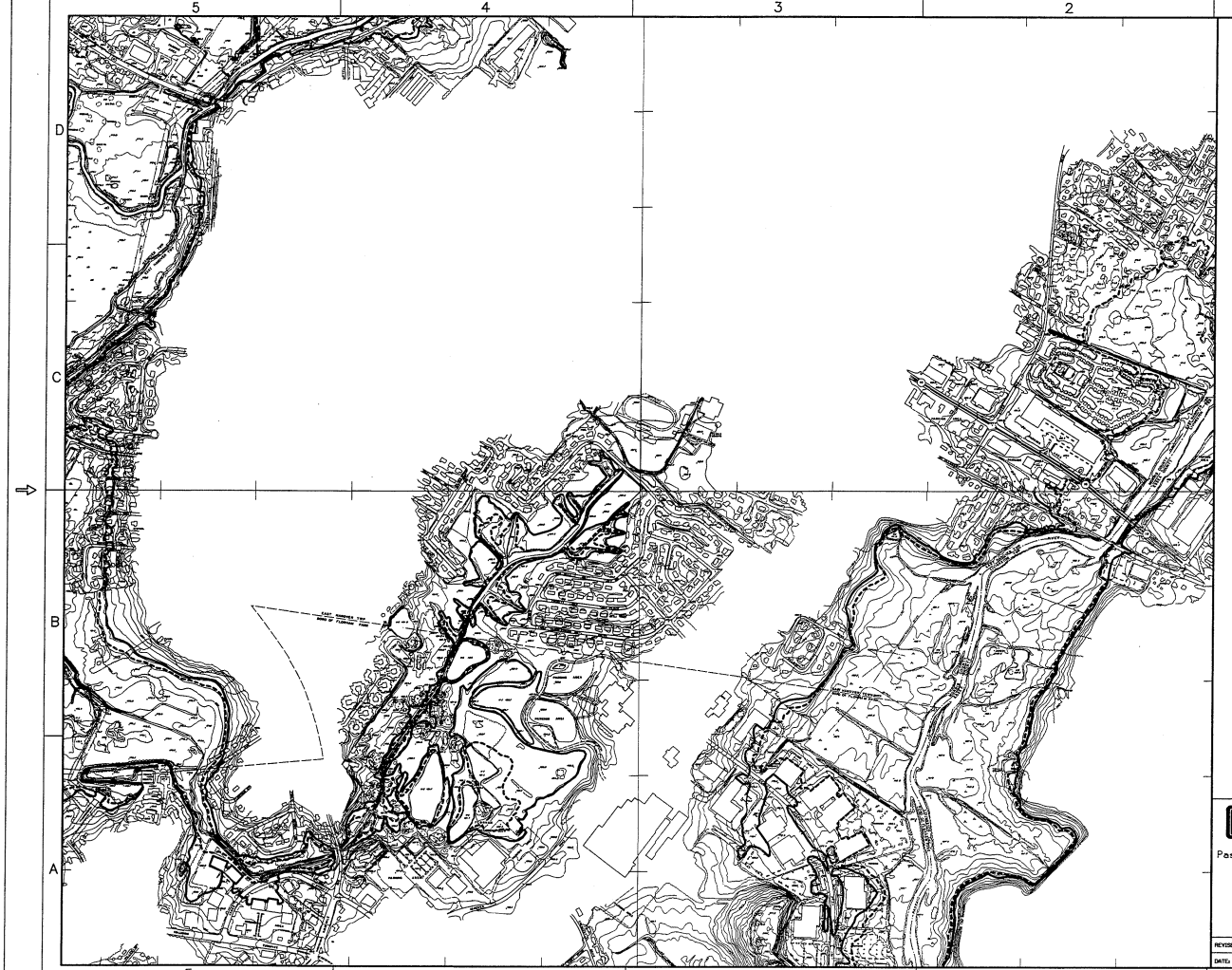
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-36



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITHOUT PROJECT
- 500 YEAR FLOOD WITHOUT PROJECT

KEY TO MATCHING SHEETS

PS-42	PS-38	PS-29
PS-41	PS-37	PS-28
	PS-36	PS-27

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

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U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

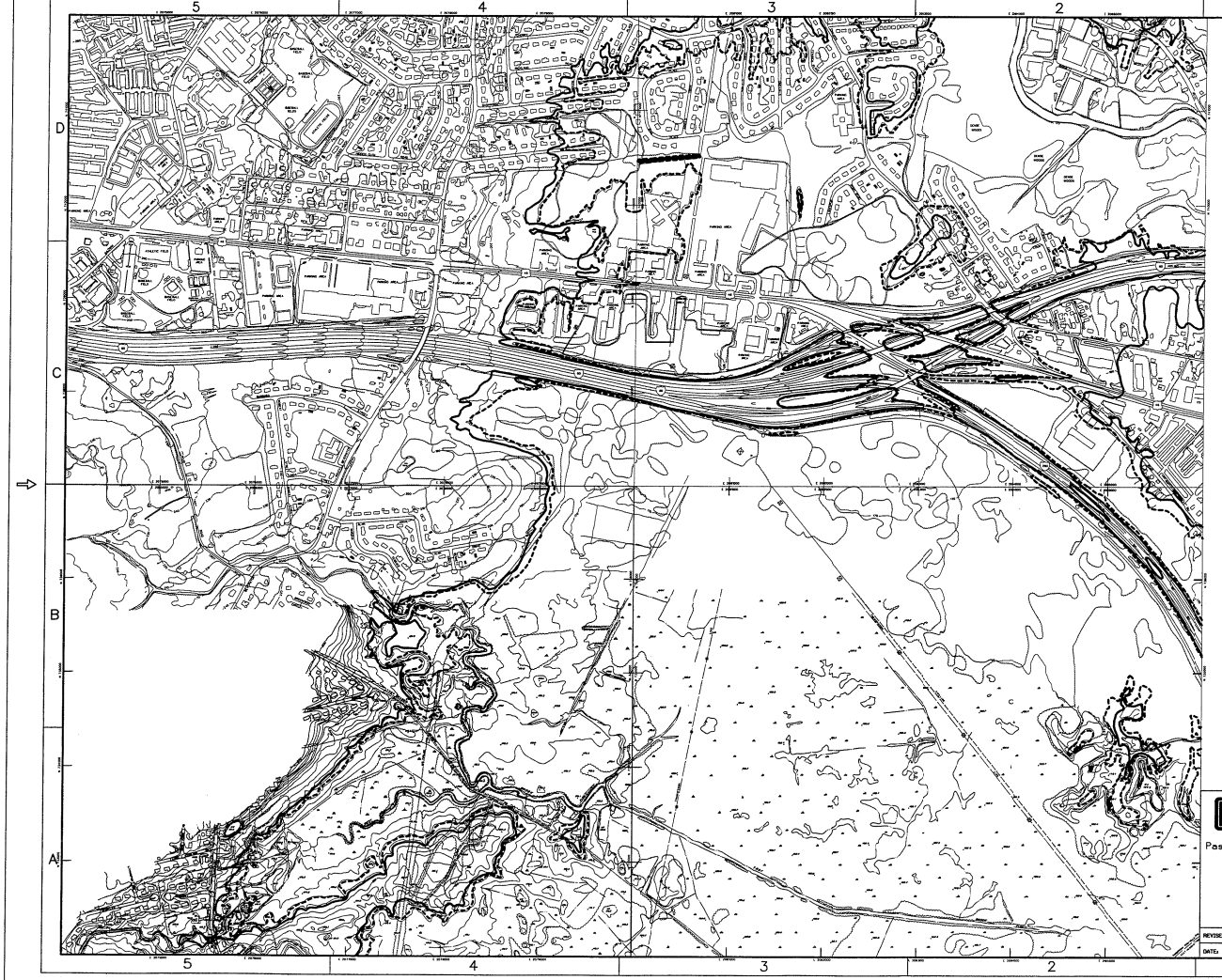
EXISTING CONDITION INUNDATION MAPS

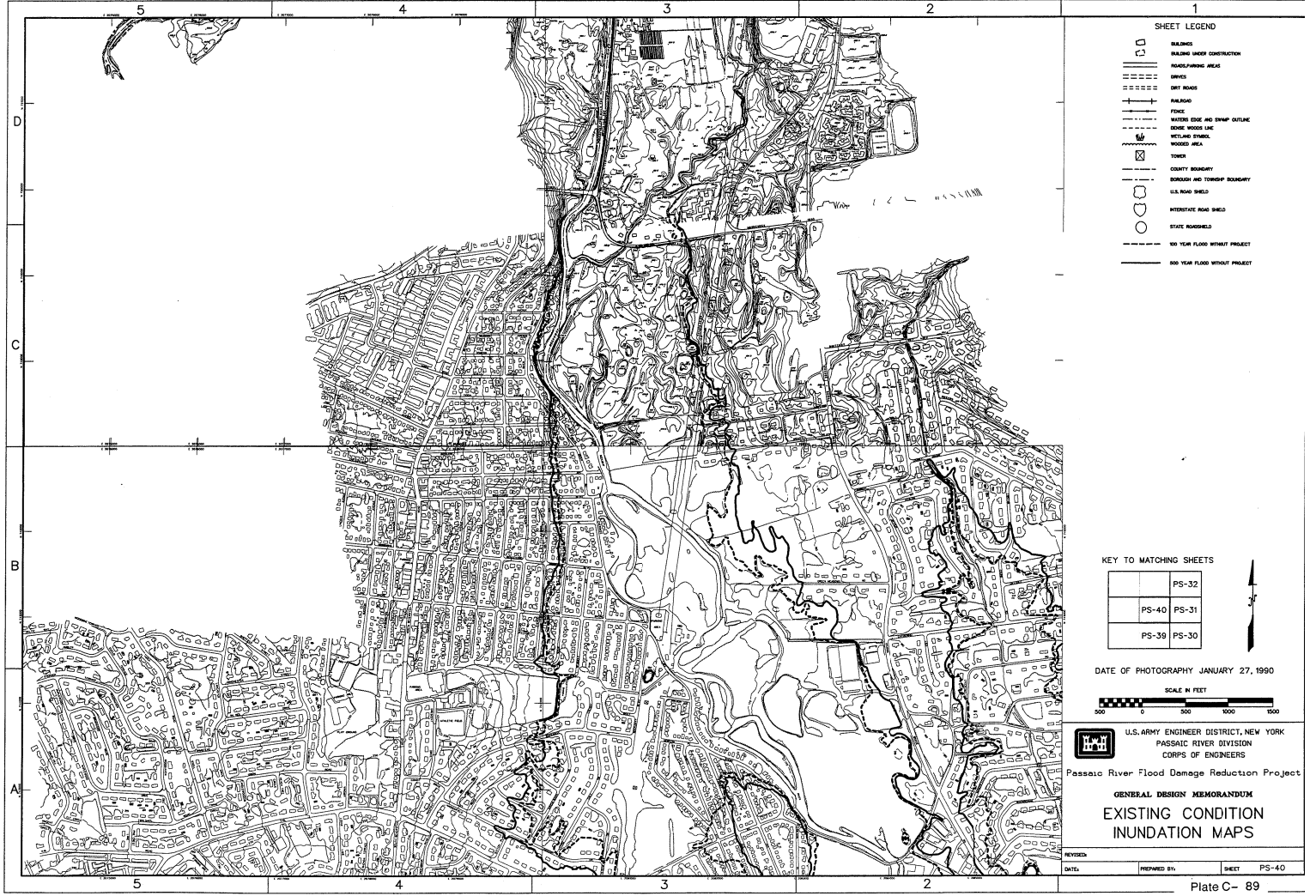
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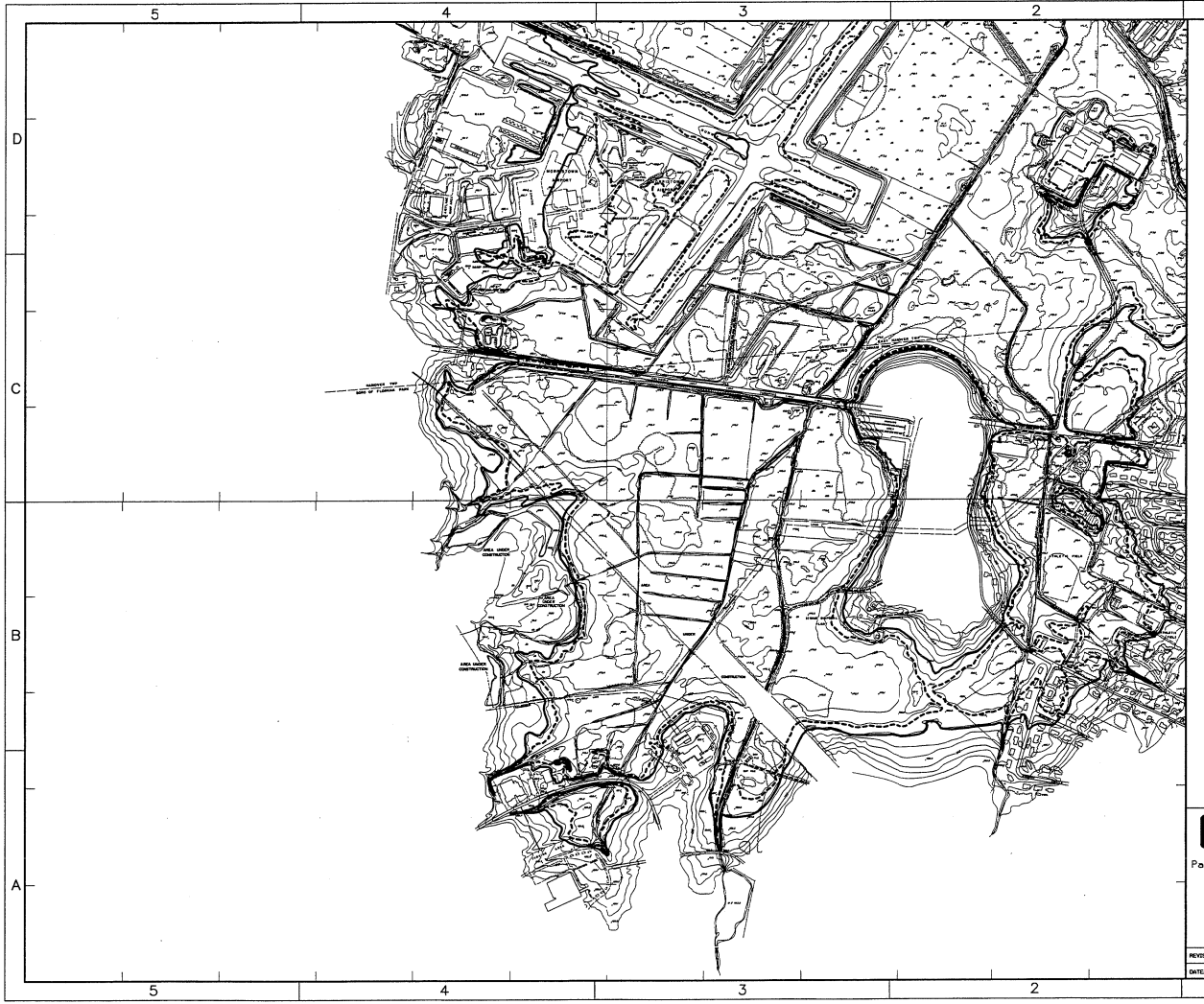
DATE: PREPARED BY: SHEET PS-37

Plate C- 86


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SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-39
PS-30
PS-42
PS-38
PS-29
PS-41
PS-37
PS-28
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500
0
500
1000
1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET
PS-38
Plate C- 87


5
4
3
2
1
D
C
B
A
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-40
PS-31
PS-39
PS-30
PS-42
PS-38
PS-29
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED
DATE
PREPARED BY
SHEET PS-39
Plate C- 88


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS,PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-32
PS-40
PS-31
PS-39
PS-30
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500
0
500
1000
1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET
PS-40
Plate C- 89



U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

EXISTING CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-41

Plate C- 90

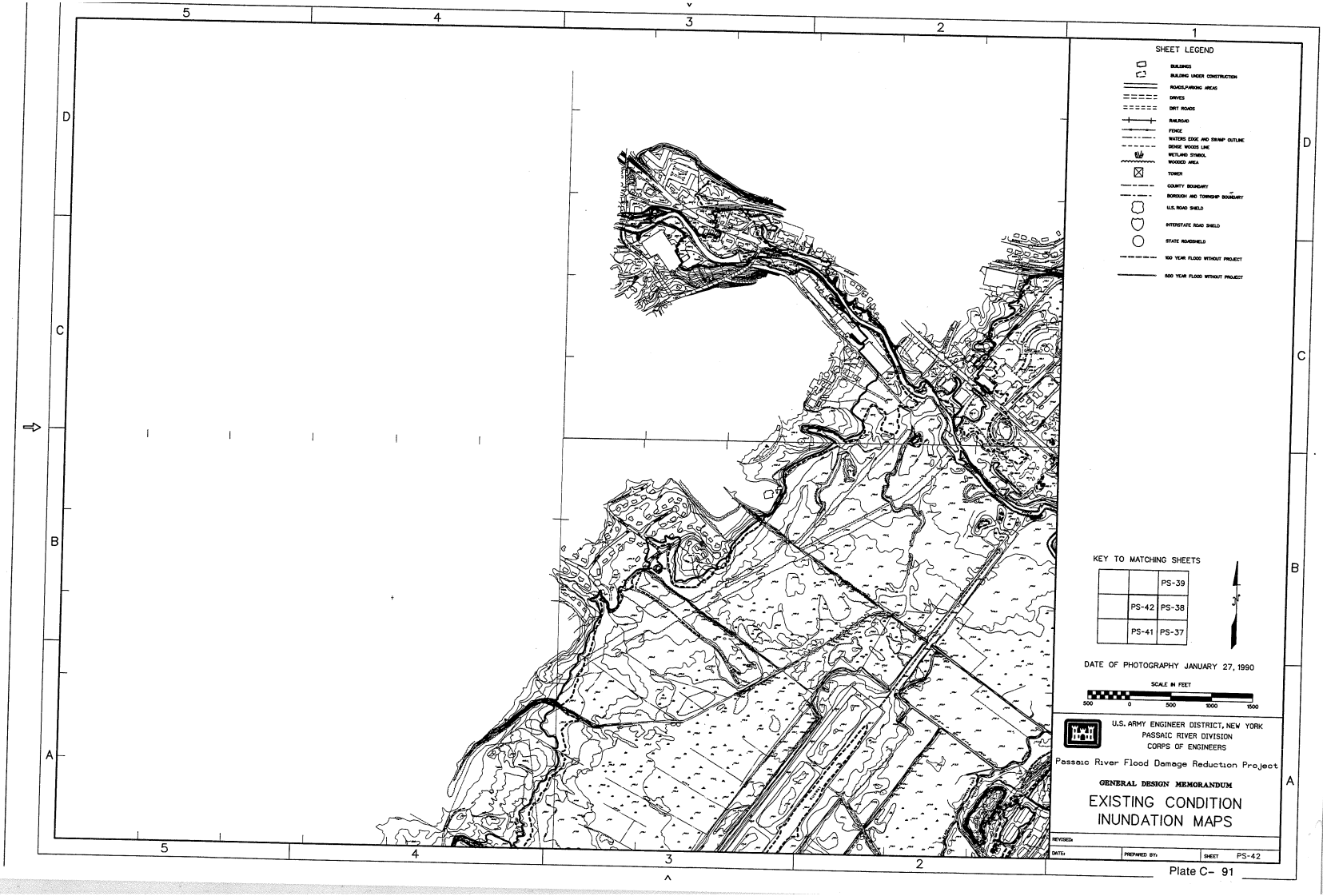

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS,PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITHOUT PROJECT
500 YEAR FLOOD WITHOUT PROJECT
KEY TO MATCHING SHEETS
PS-39
PS-42
PS-38
PS-41
PS-37
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
EXISTING CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-42

Plate C- 91

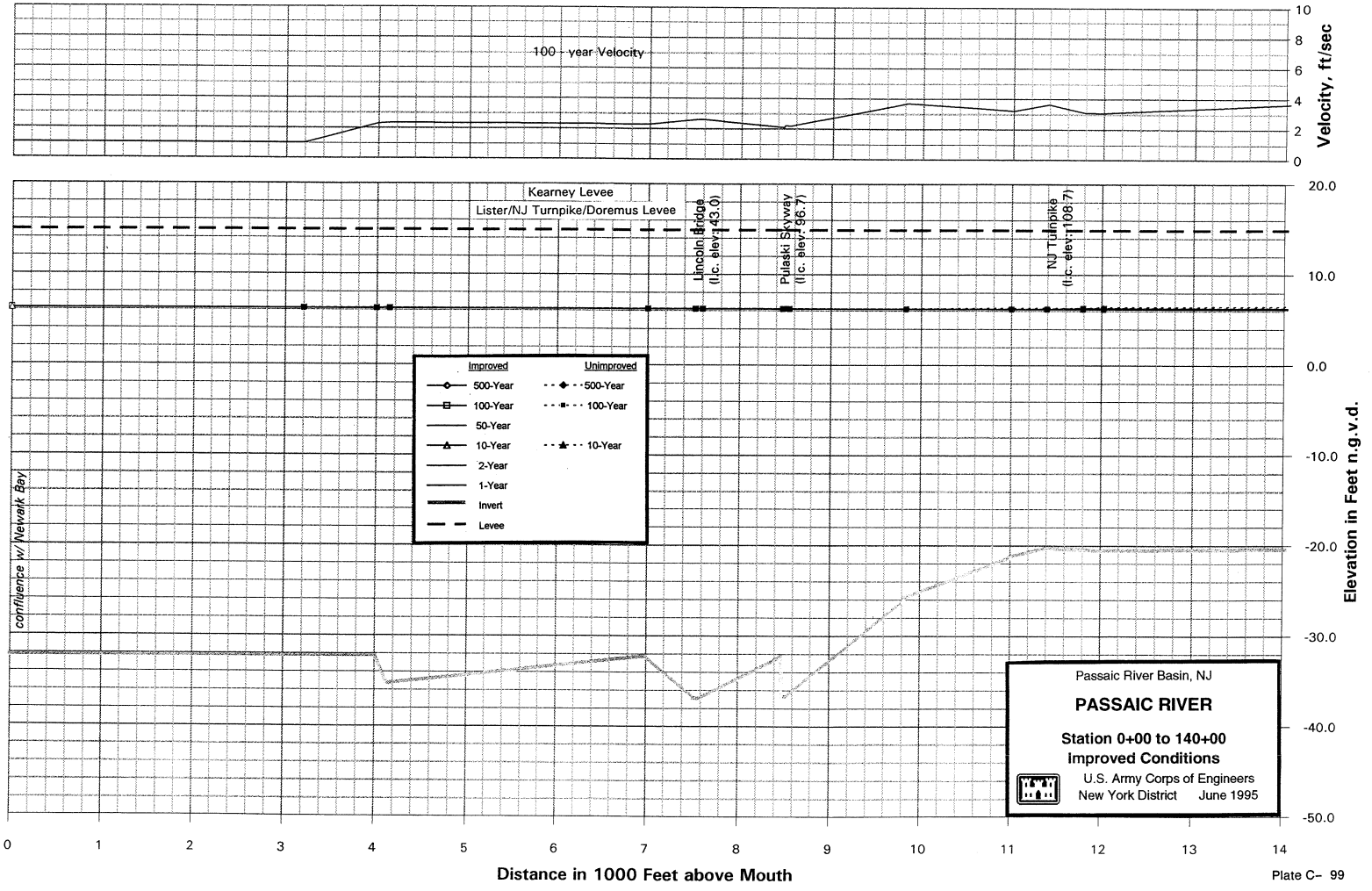

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Kearney Levee
Lister/NJ Turnpike/Doremus Levee
Lincoln Bridge (l.c. elev. 43.0)
Pulaski Skyway (l.c. elev. 96.7)
NJ Turnpike (l.c. elev. 108.7)
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Levee
confluence w/ Newark Bay
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995

Plate C- 99

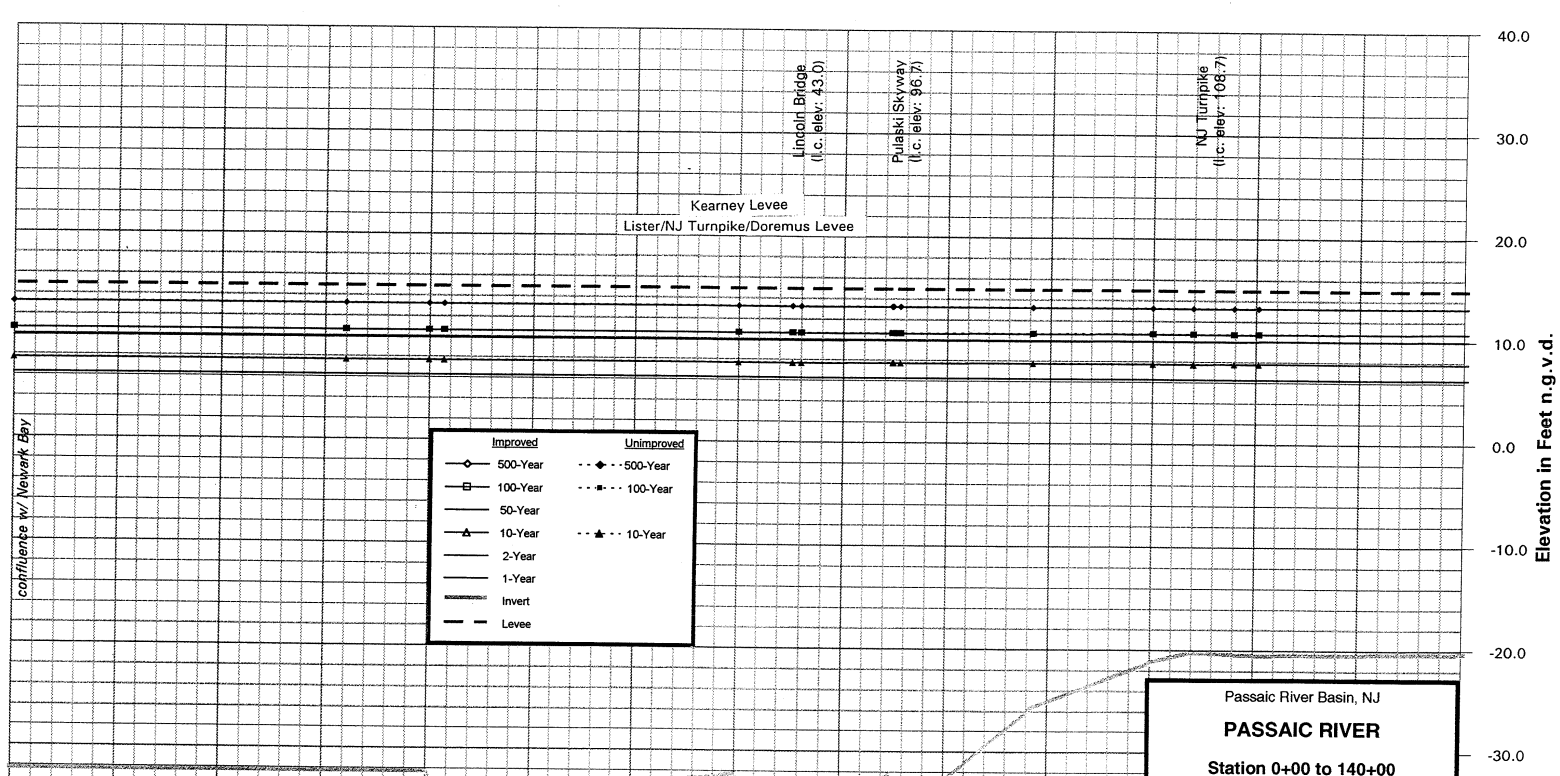

Lindoln Bridge
(l.c. elev: 43.0)
Pulaski Skyway
(l.c. elev: 96.7)
NJ Turnpike
(l.c. elev: 106.7)
Kearney Levee
Lister/NJ Turnpike/Doremus Levee
confluence w/ Newark Bay
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Levee
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 0+00 to 140+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C- 92

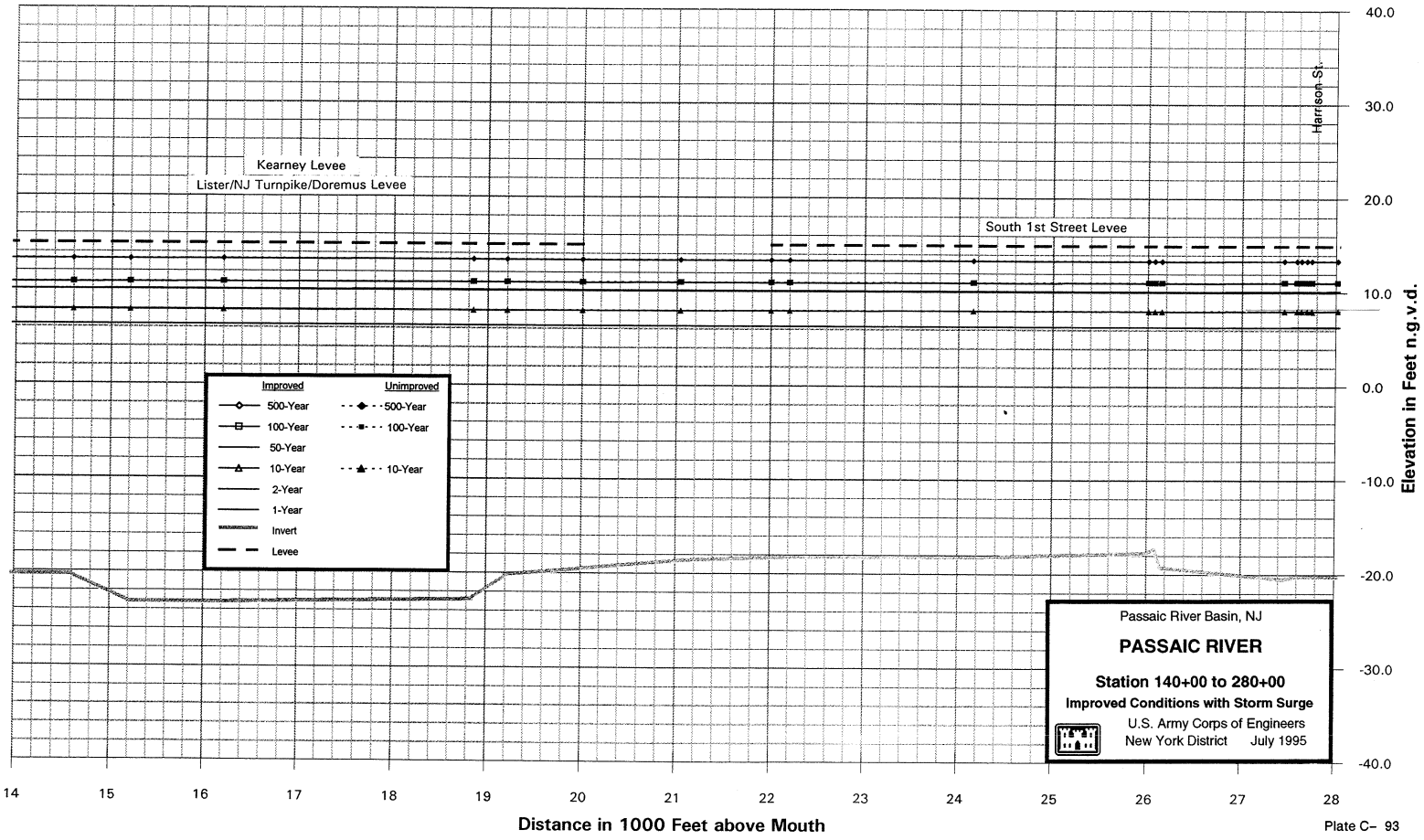
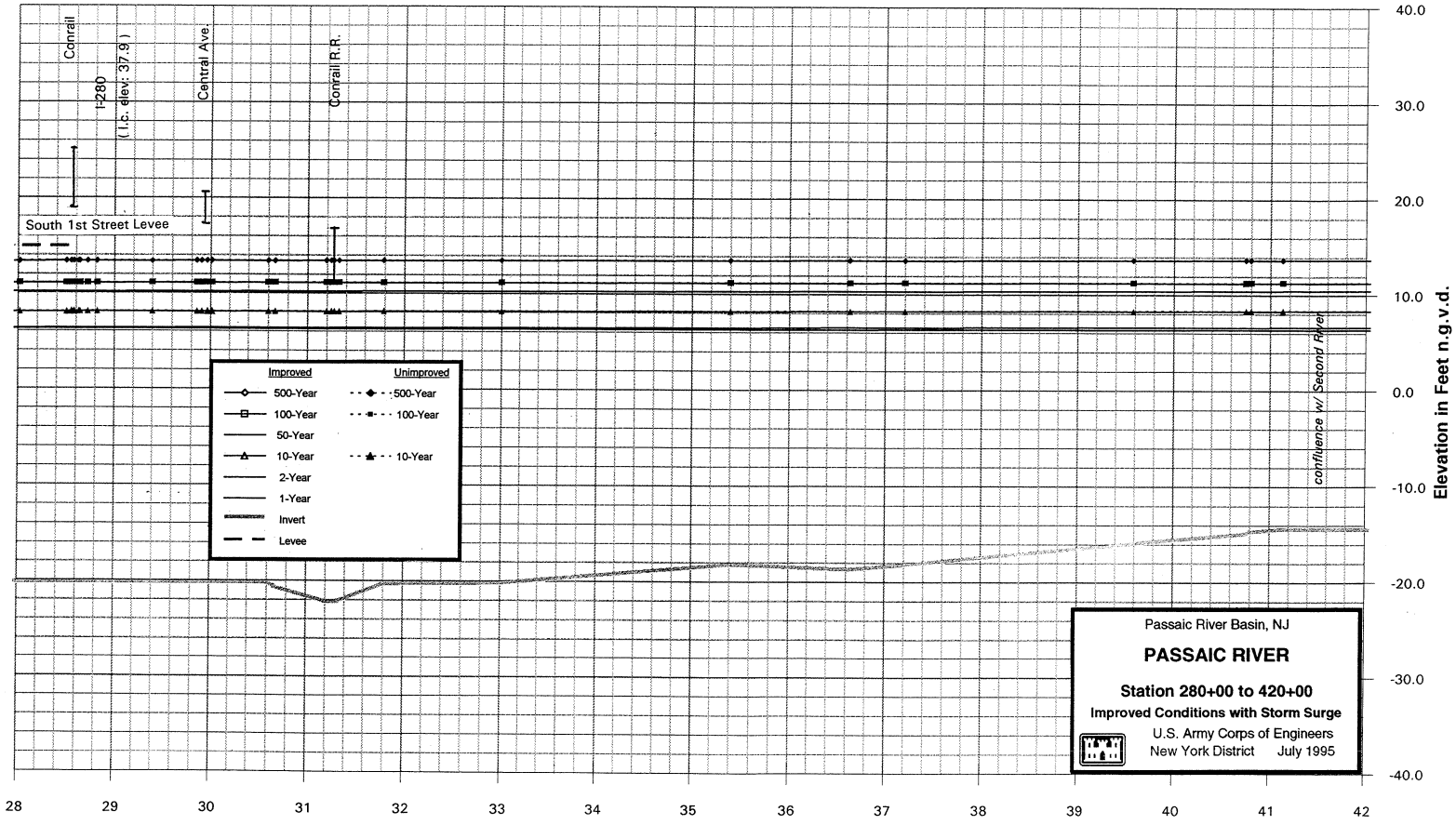

Kearney Levee
Lister/NJ Turnpike/Doremus Levee
South 1st Street Levee
Harrison St.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Levee
Passaic River Basin, NJ
PASSAIC RIVER
Station 140+00 to 280+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

Plate C- 93


Conrail
I-280
(I.C. elev. 37.9)
Central Ave.
Conrail R.R.
South 1st Street Levee
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Levee
confluence w/ Second River
Passaic River Basin, NJ
PASSAIC RIVER
Station 280+00 to 420+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
Distance in 1000 Feet above Mouth

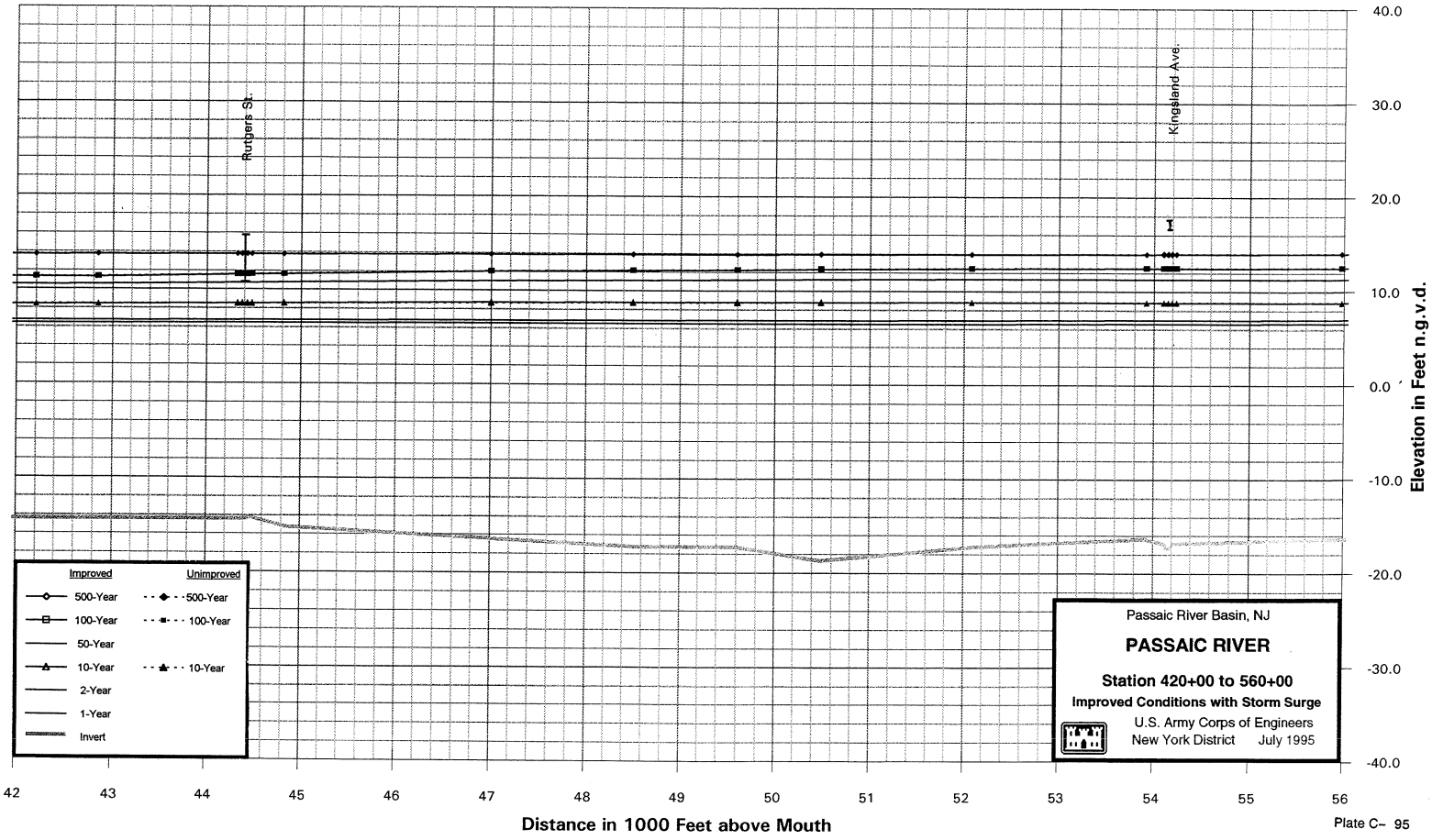
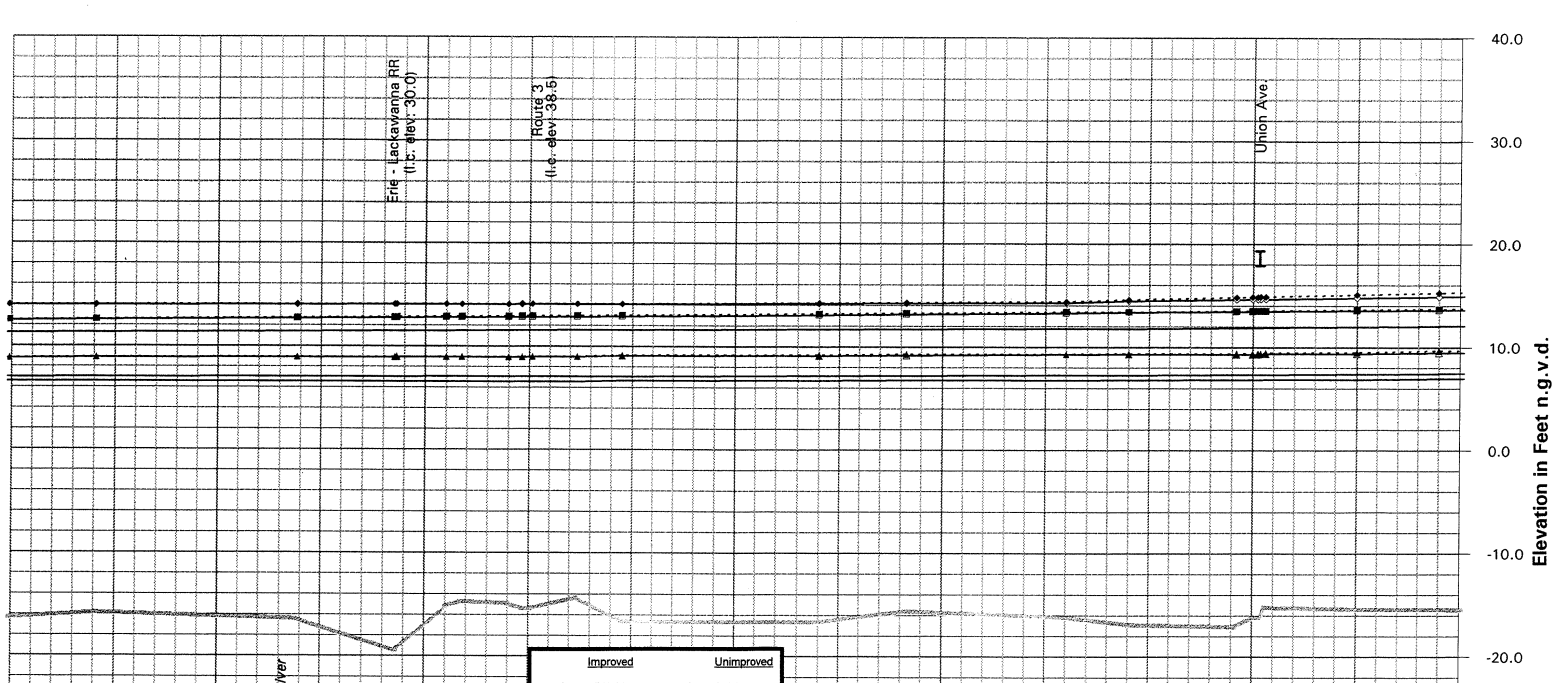

Rutgers St.
Kingsland Ave.
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
Distance in 1000 Feet above Mouth
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 420+00 to 560+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995

Plate C- 95


Erie - Lackawanna RR
(I.e. elev. 30.0)
Route 3
(I.e. elev. 38.5)
Union Ave.
confluence w/ Third River
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 560+00 to 700+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
Distance in 1000 Feet above Mouth

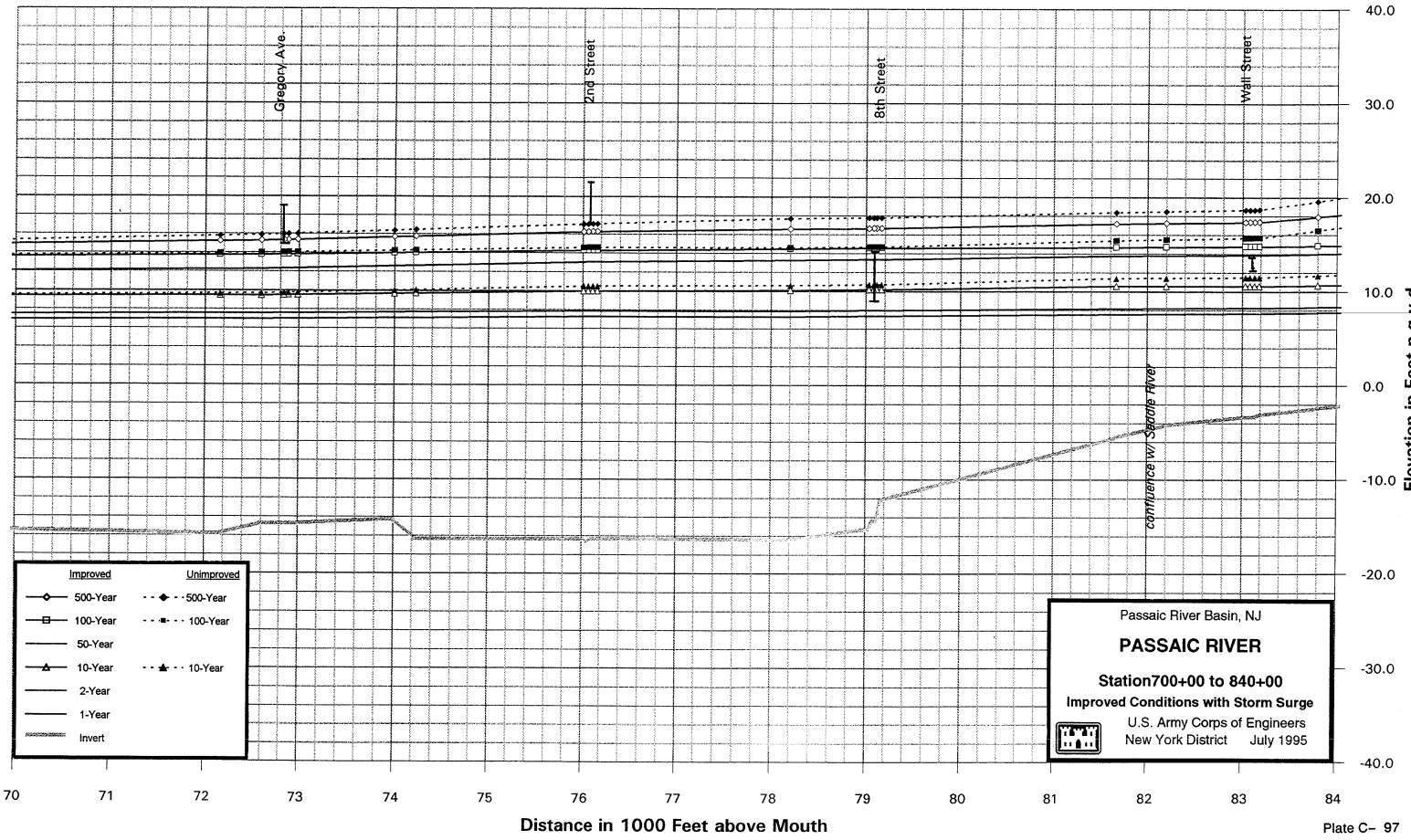

Gregory Ave.
2nd Street
8th Street
Wall Street
confluence w/ Saddle River
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station700+00 to 840+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
Distance in 1000 Feet above Mouth

Plate C– 97

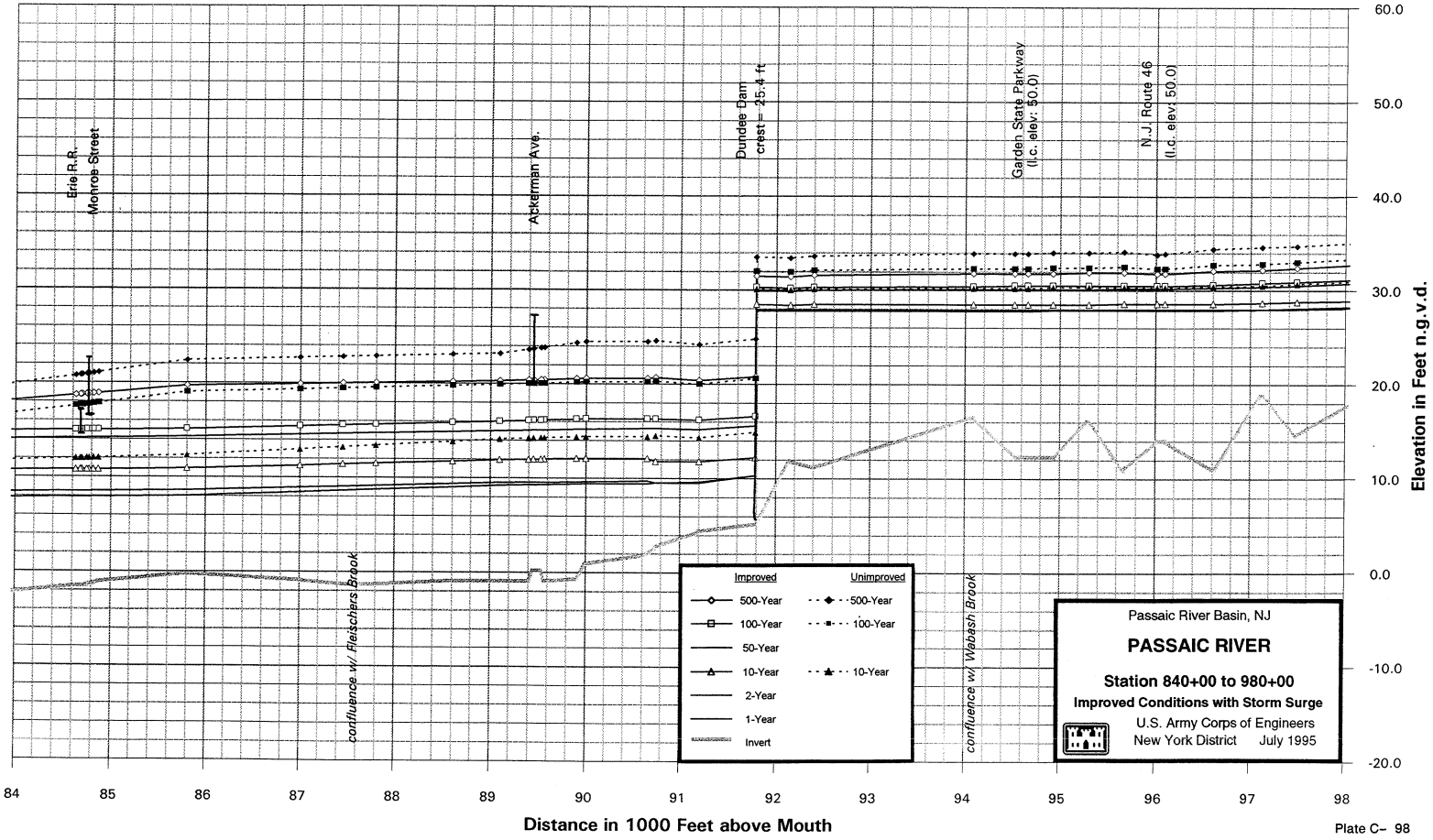

Erie R.R.
Monroe Street
Ackerman Ave.
Dundee Dam
crest= 25.4 ft
Garden State Parkway
(l.c. elev: 50.0)
N.J. Route 46
(l.c. elev: 50.0)
confluence w/ Fleischers Brook
confluence w/ Wabash Brook
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 840+00 to 980+00
Improved Conditions with Storm Surge
U.S. Army Corps of Engineers
New York District July 1995
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
Elevation in Feet n.g.v.d.
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
Distance in 1000 Feet above Mouth

Plate C– 98

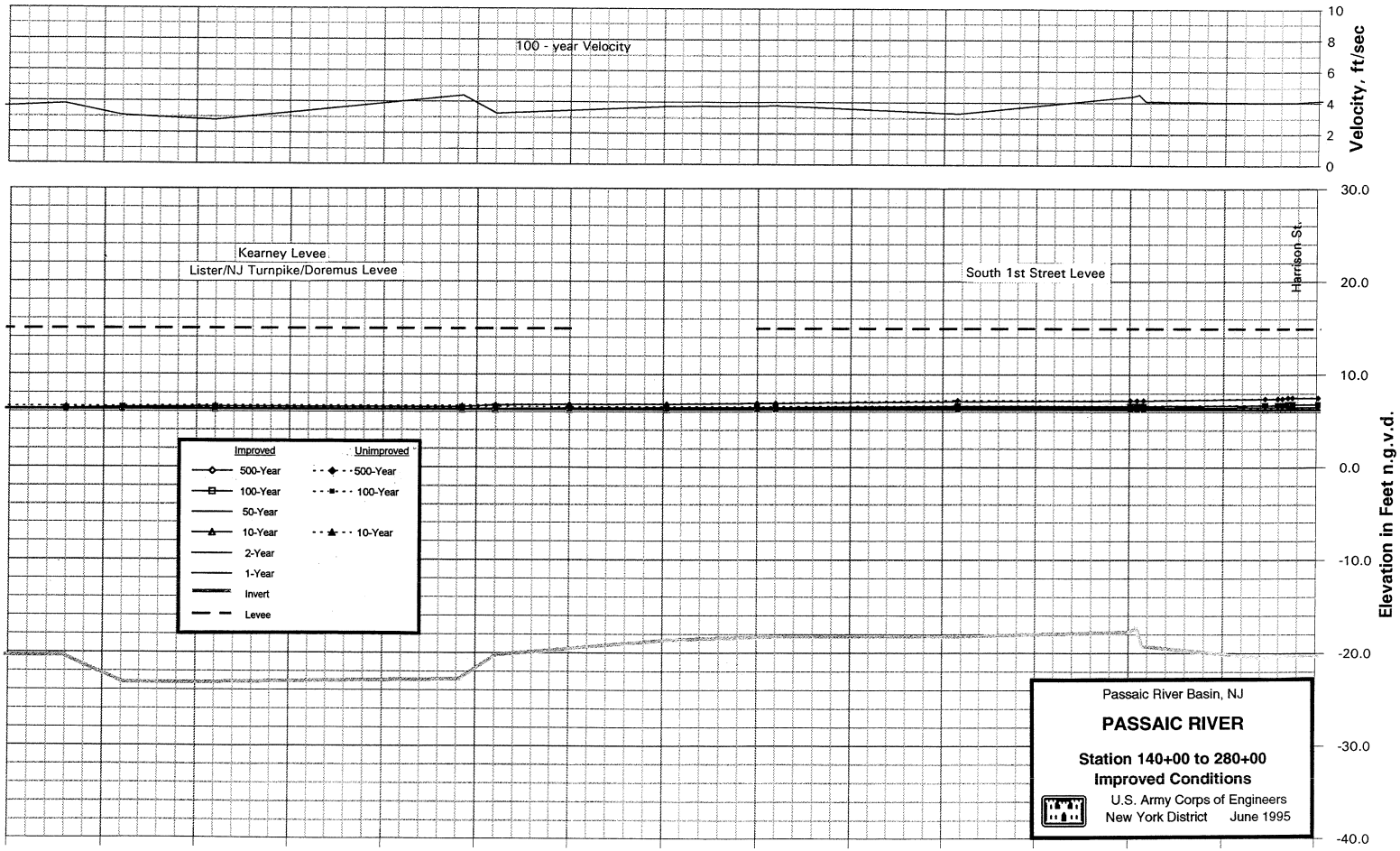

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Kearney Levee
Lister/NJ Turnpike/Doremus Levee
South 1st Street Levee
Harrison St.
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Levee
Passaic River Basin, NJ
PASSAIC RIVER
Station 140+00 to 280+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

Plate C– 100

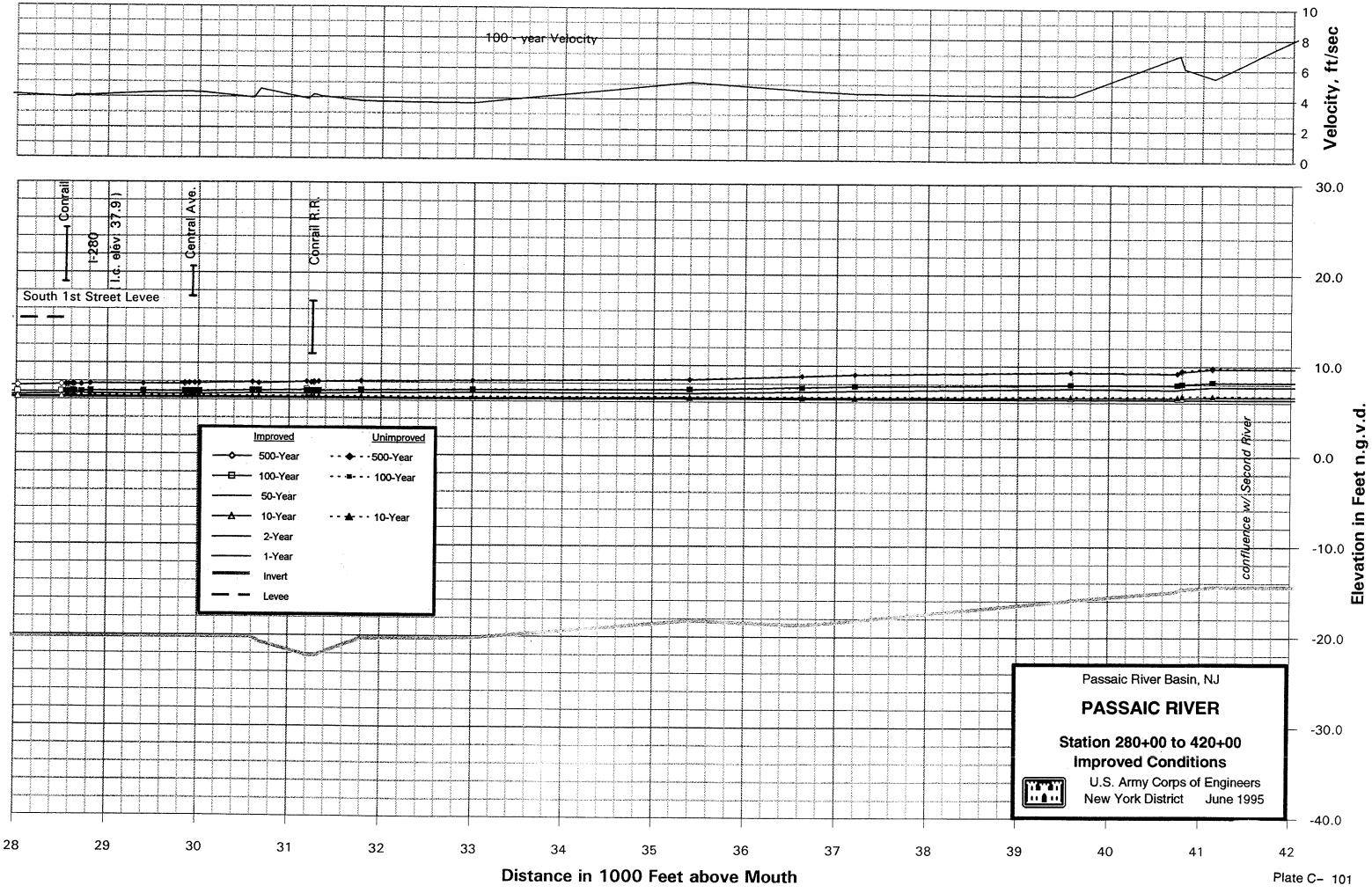

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Conrail
I-280
(i.c. elev 37.9)
Central Ave.
Conrail R.R.
South 1st Street Levee
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Levee
confluence w/ Second River
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 280+00 to 420+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995

Plate C– 101

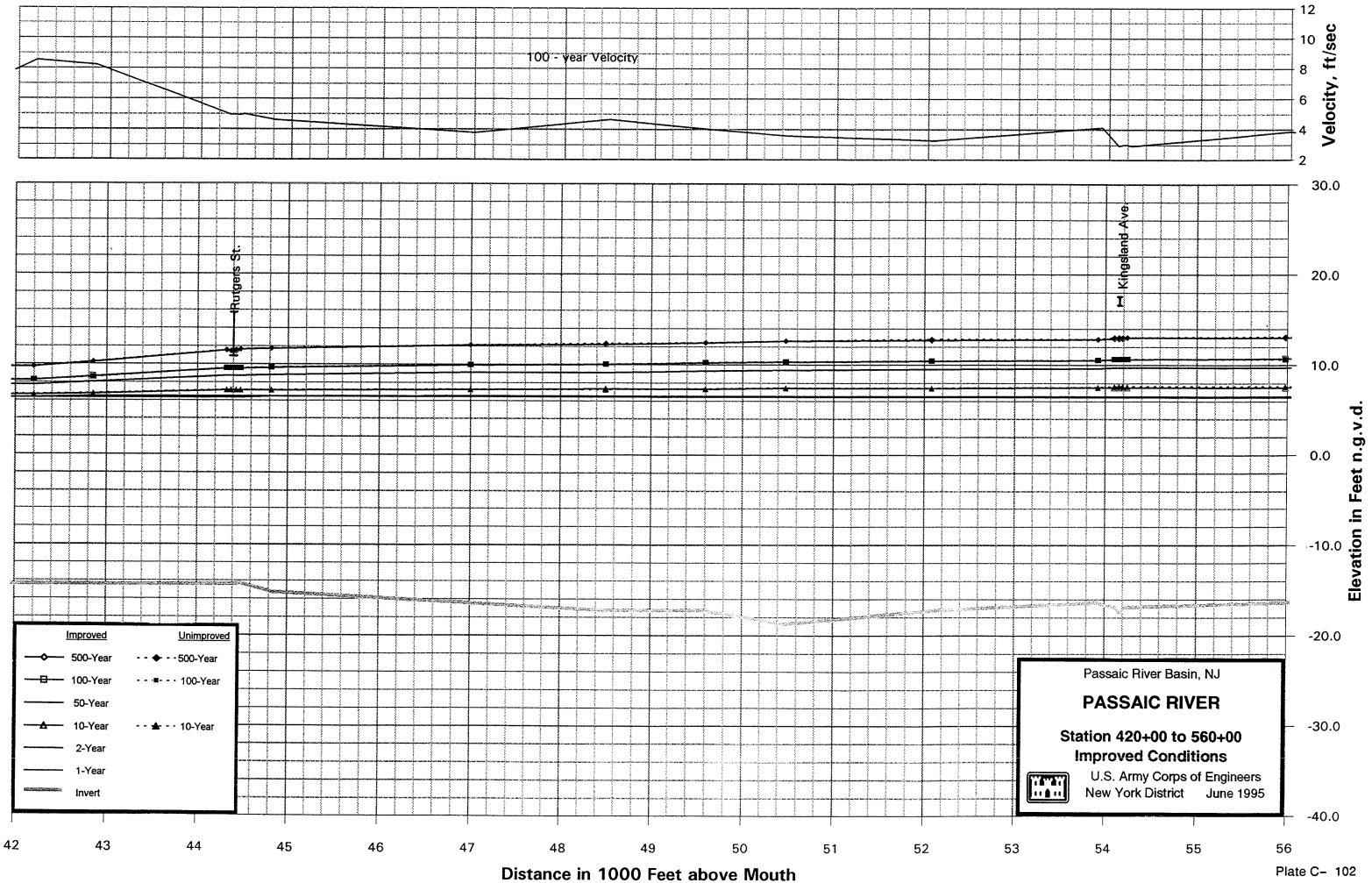

100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Rutgers St.
Kingsland Ave.
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 420+00 to 560+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
Distance in 1000 Feet above Mouth

Plate C- 102

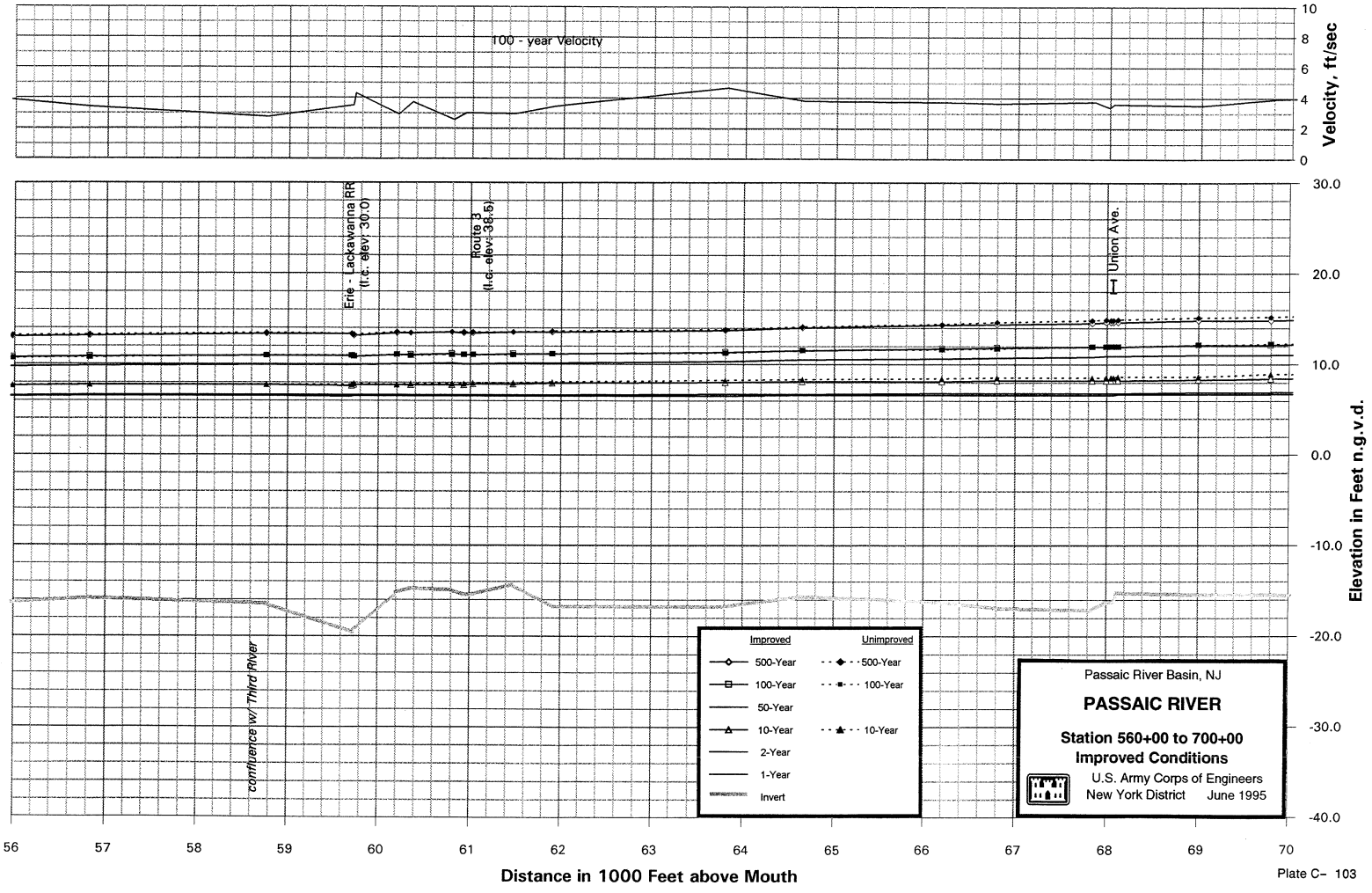

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Erie - Lackawanna RR
(t.c. elev. 30.0)
Route 3
(t.c. elev. 38.5)
Union Ave.
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
confluence w/ Third River
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 560+00 to 700+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
Distance in 1000 Feet above Mouth

Plate C- 103

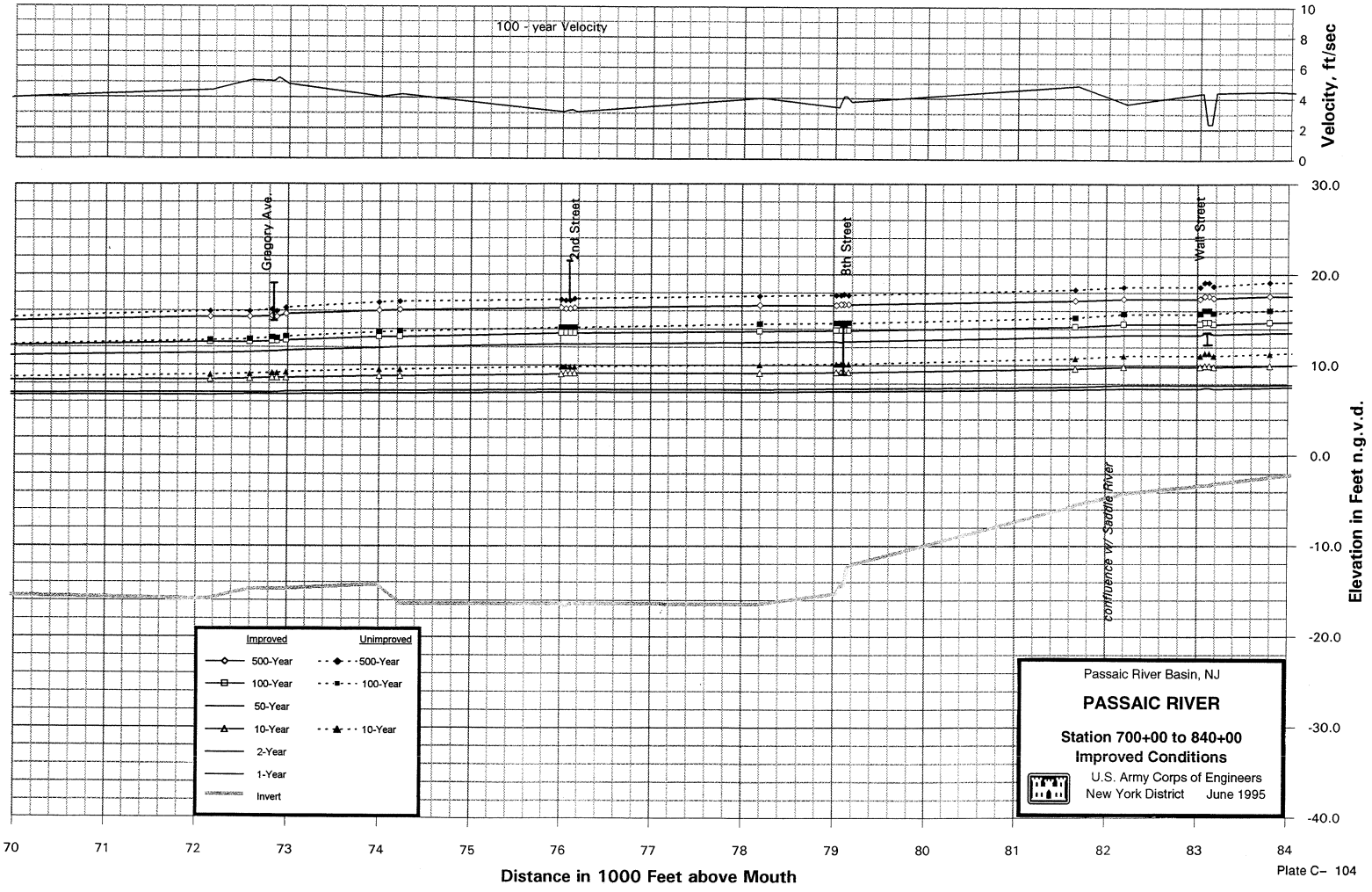
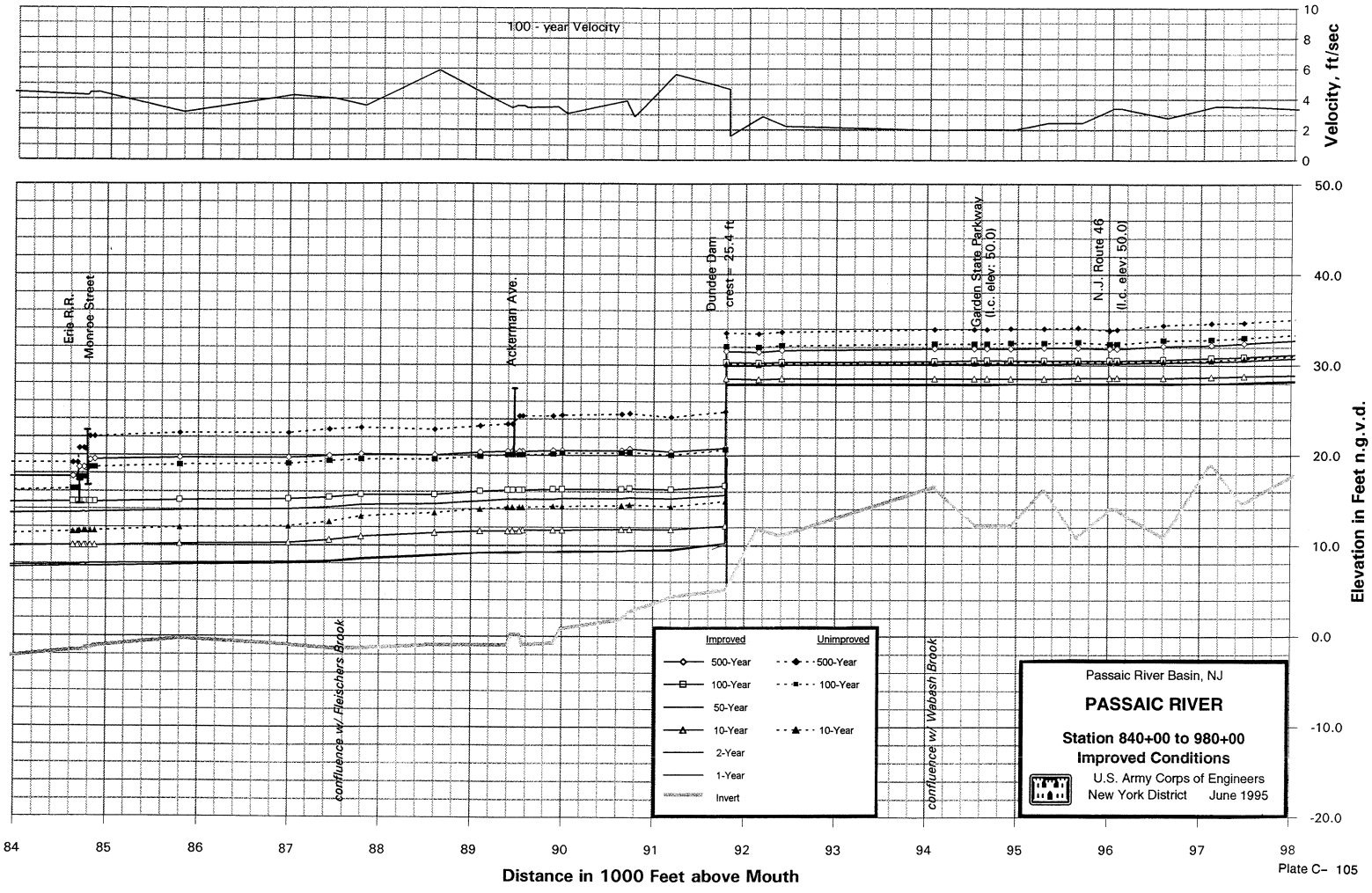

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Gregory Ave.
2nd Street
8th Street
Wall Street
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
Elevation in Feet n.g.v.d.
confluence w/ Saddle River
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 700+00 to 840+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
Distance in 1000 Feet above Mouth

Plate C– 104


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Erie R.R.
Monroe Street
Ackerman Ave.
Dundee Dam
crest = 25.4 ft
Garden State Parkway
(t.c. elev. 50.0)
N.J. Route 46
(t.c. elev. 50.0)
confluence w/ Fleischers Brook
confluence w/ Wabash Brook
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 840+00 to 980+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
Elevation in Feet n.g.v.d.
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
Distance in 1000 Feet above Mouth

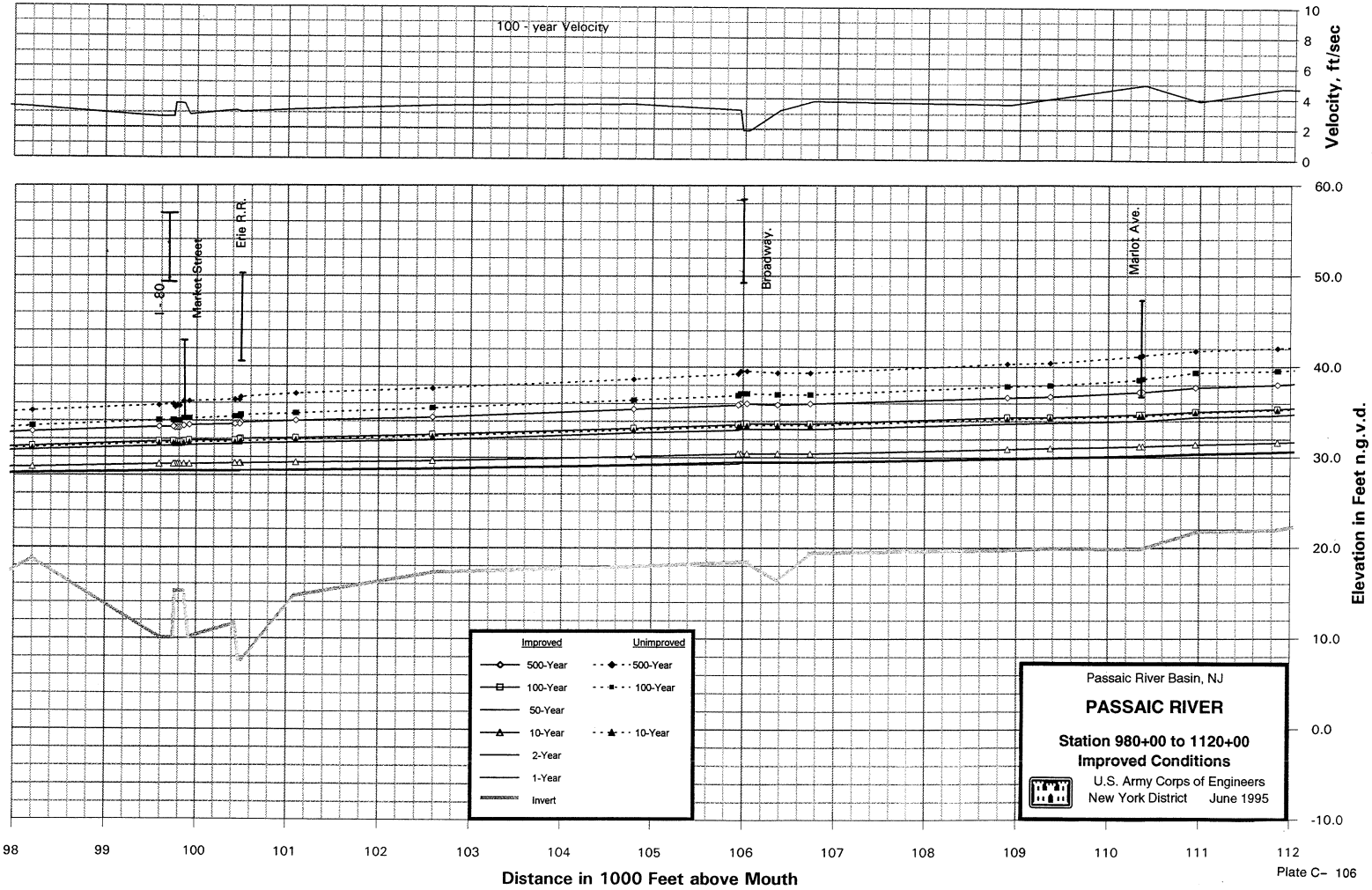
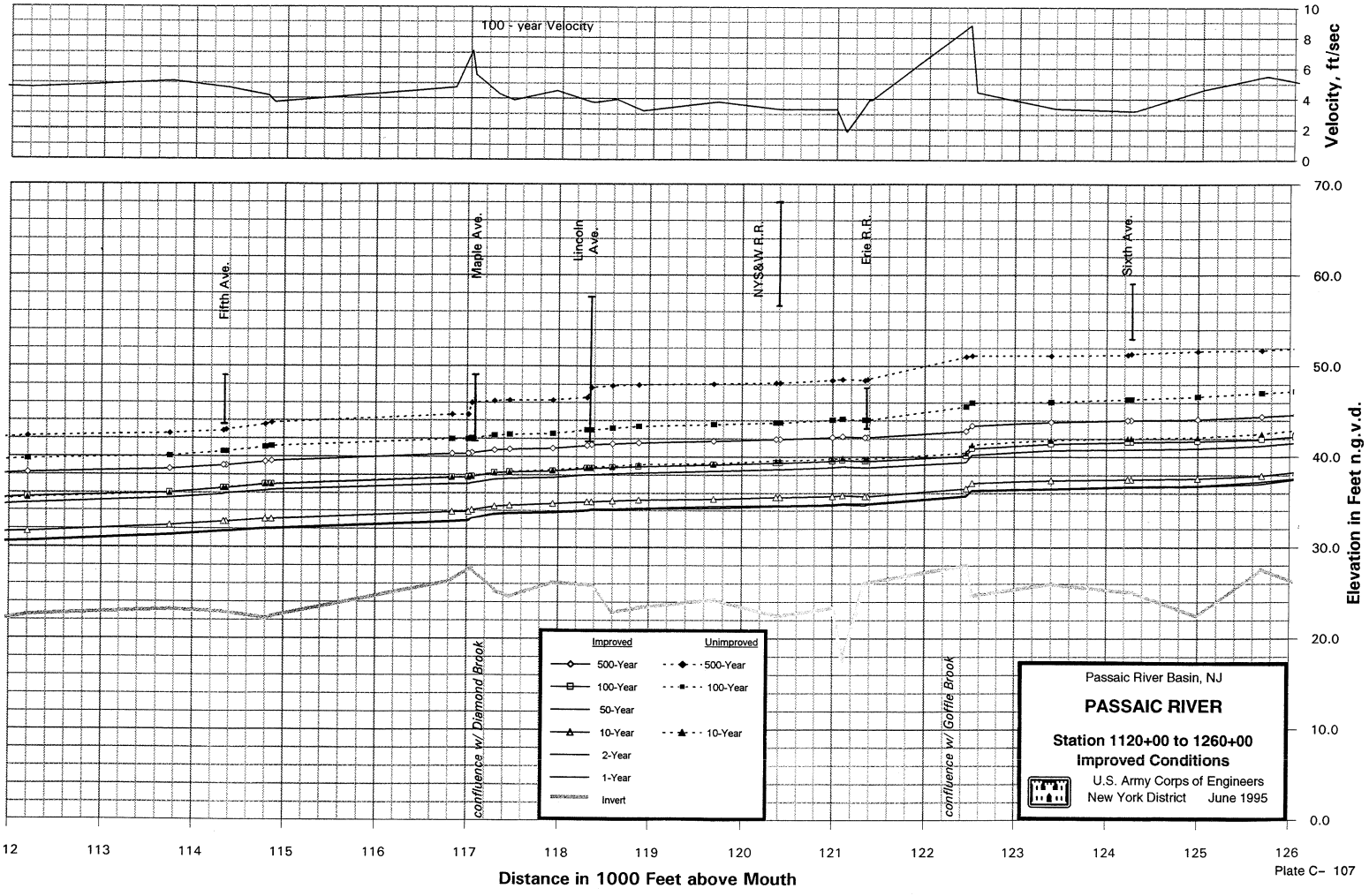

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
I - 80
Market Street
Erie R.R.
Broadway
Mariot Ave.
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 980+00 to 1120+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
Distance in 1000 Feet above Mouth

Plate C- 106


100 - year Velocity
Velocity, ft/sec
0
2
4
6
8
10
Fifth Ave.
Maple Ave.
Lincoln Ave.
NYS&W R.R.
Erie R.R.
Sixth Ave.
confluence w/ Diamond Brook
confluence w/ Goffle Brook
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1120+00 to 1260+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
Elevation in Feet n.g.v.d.
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
Distance in 1000 Feet above Mouth

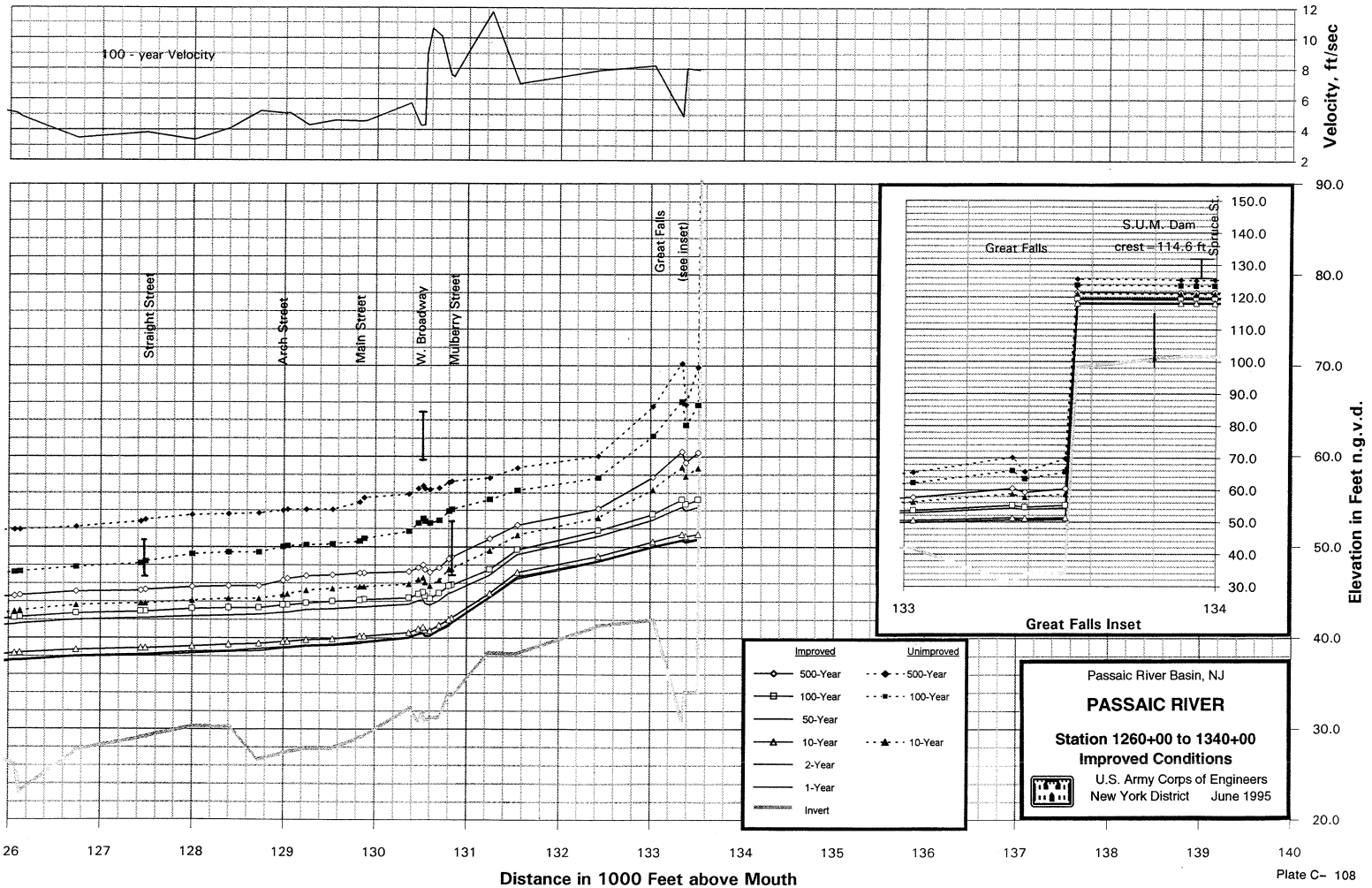

100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Straight Street
Arch Street
Main Street
W. Broadway
Mulberry Street
Great Falls
(see inset)
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
Elevation in Feet n.g.v.d.
150.0
140.0
130.0
120.0
110.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
S.U.M. Dam
crest = 114.6 ft
Great Falls
Spruce St.
133
134
Great Falls Inset
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1260+00 to 1340+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
Distance in 1000 Feet above Mouth

Plate C- 108

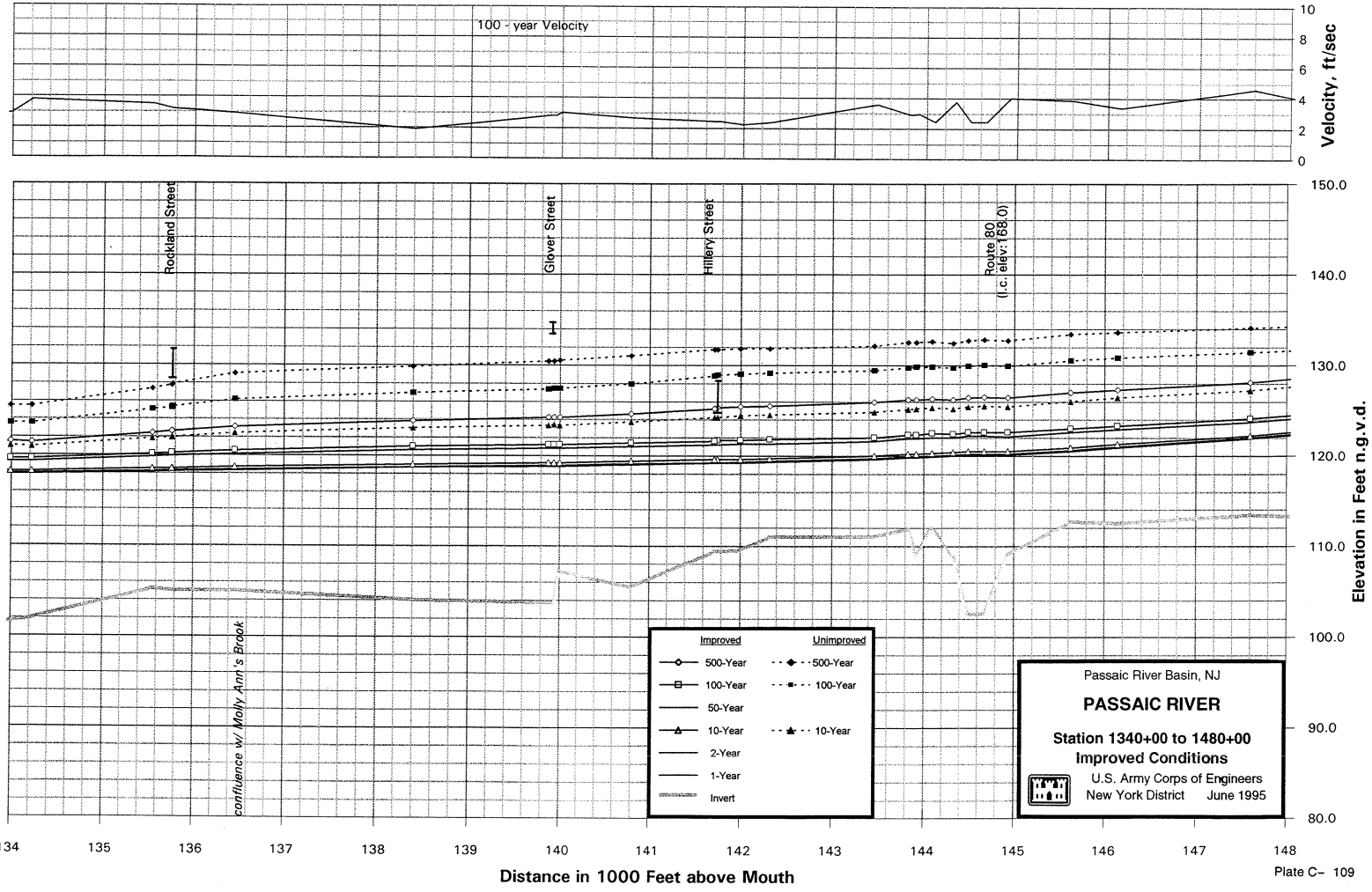
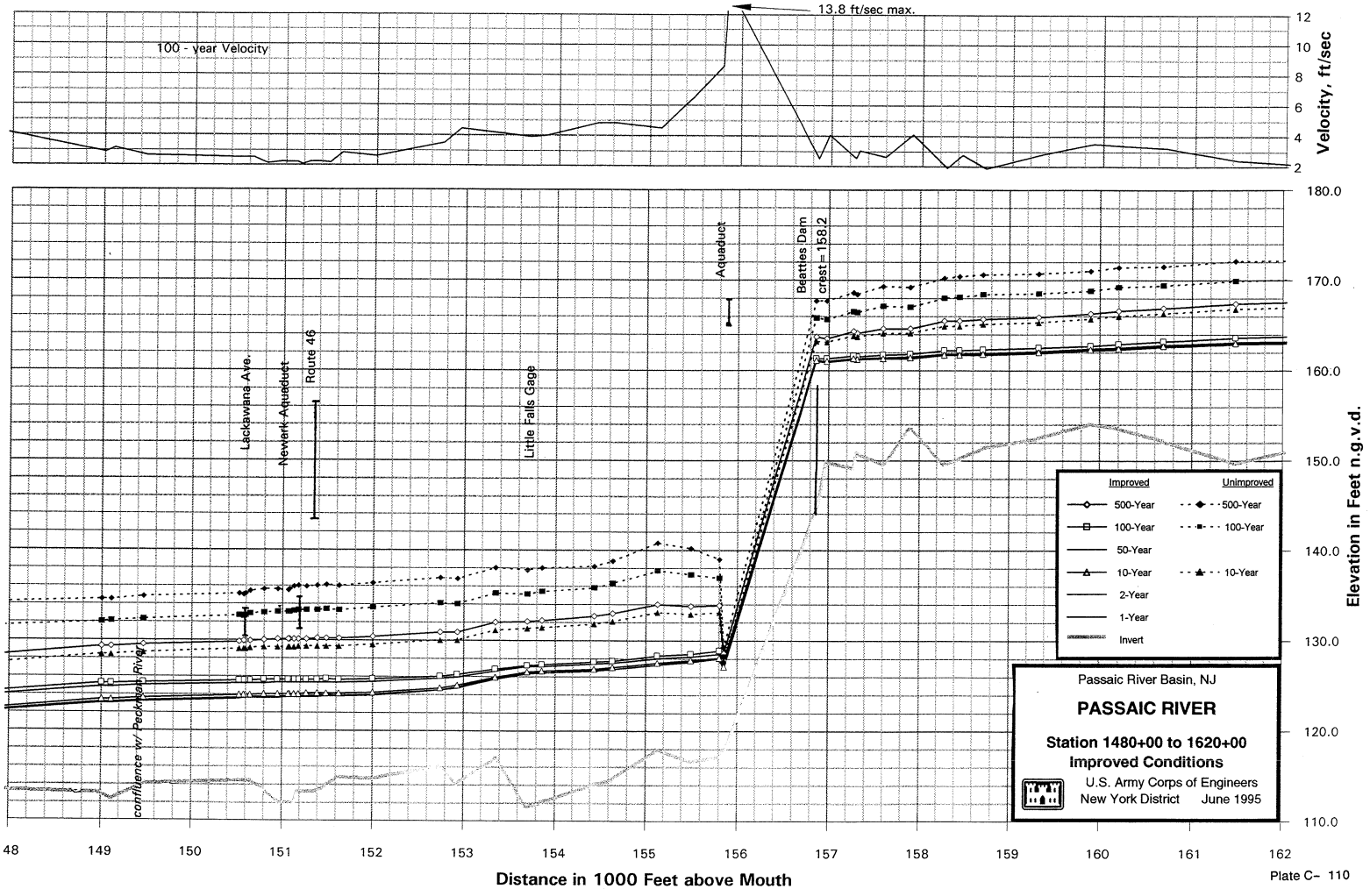
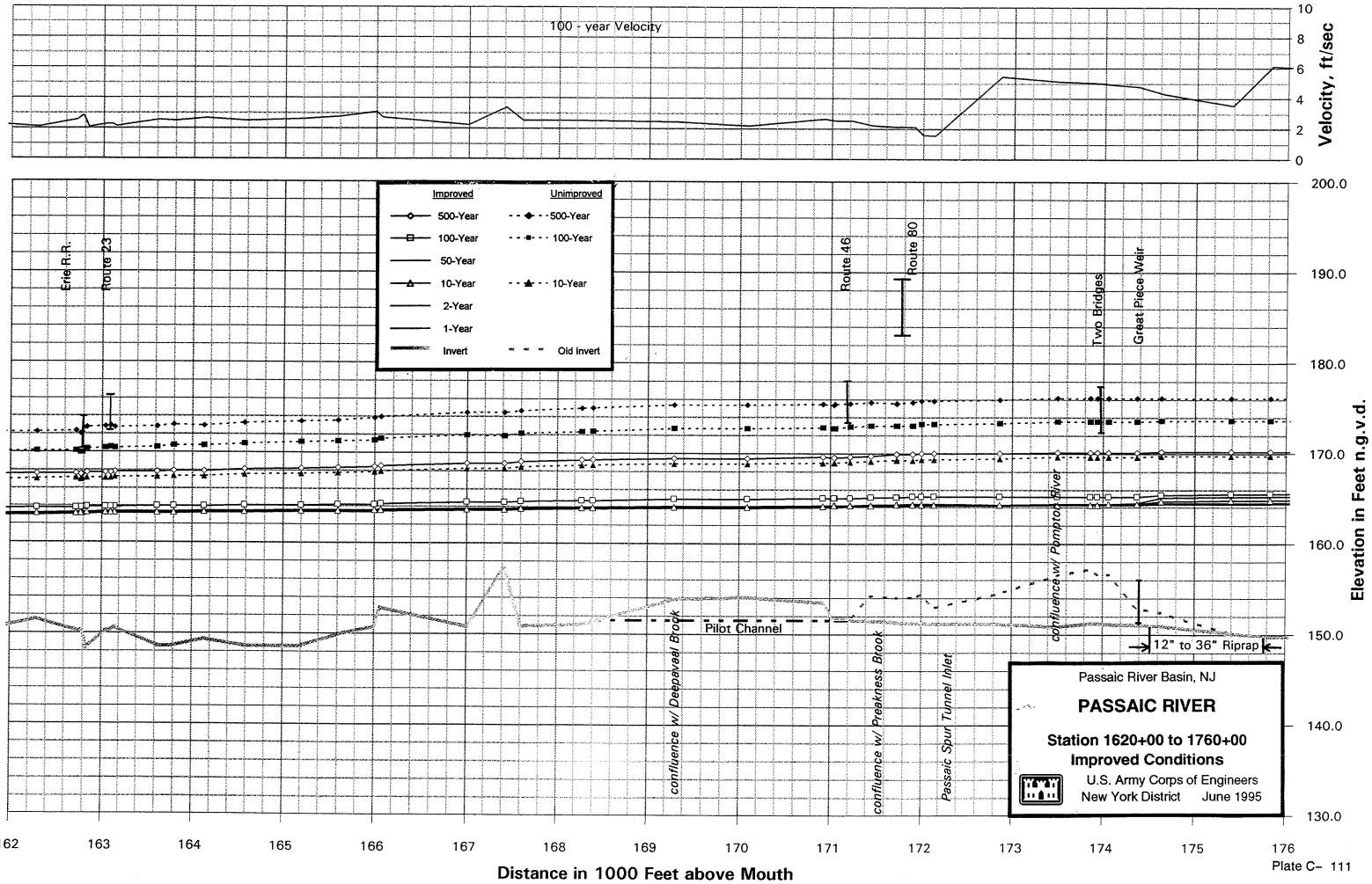
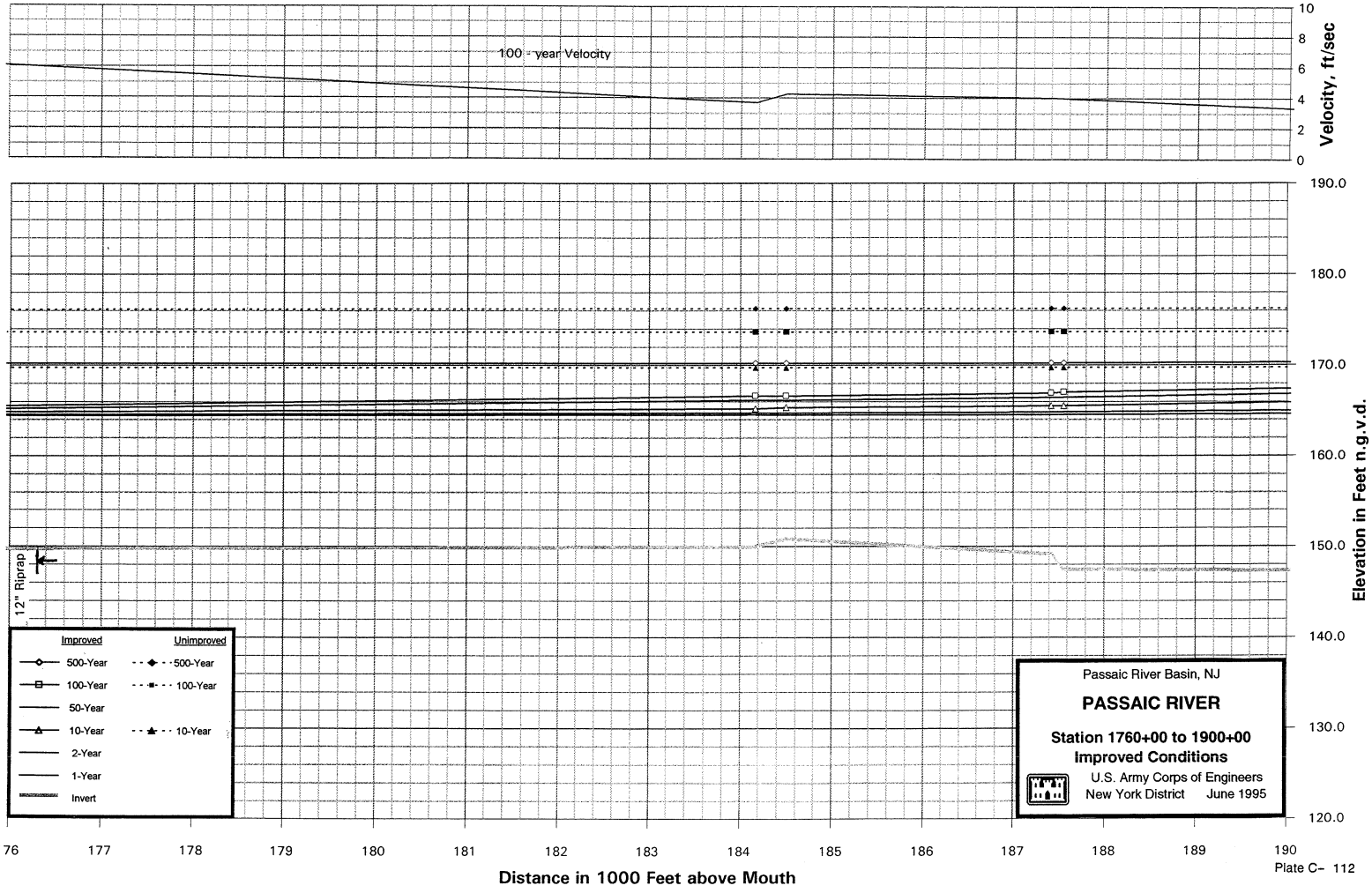
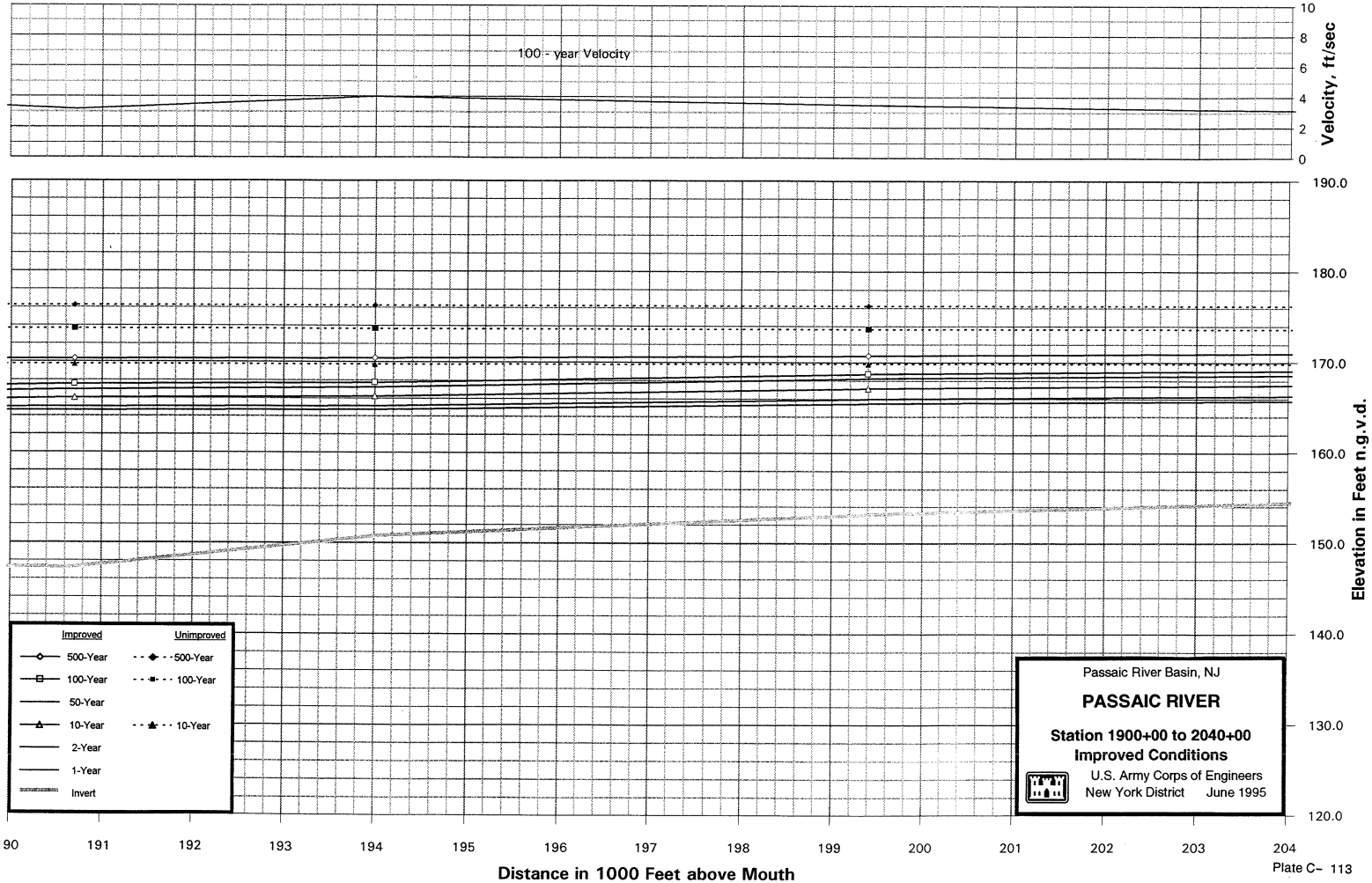

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Rockland Street
Glover Street
Hillery Street
Route 80
(i.c. elev. 168.0)
confluence w/ Molly Ann's Brook
150.0
140.0
130.0
120.0
110.0
100.0
90.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1340+00 to 1480+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
Distance in 1000 Feet above Mouth

Plate C– 109


13.8 ft/sec max.
100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
180.0
170.0
160.0
150.0
140.0
130.0
120.0
110.0
Elevation in Feet n.g.v.d.
Aqueduct
Beattles Dam
crest = 158.2
Lackawana Ave.
Newark Aqueduct
Route 46
Little Falls Gage
confluence w/ Peckman River
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1480+00 to 1620+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Erie R.R.
Route 23
Route 46
Route 80
Two Bridges
Great Piece Weir
confluence w/ Pompton River
Pilot Channel
12" to 36" Riprap
confluence w/ Deepavaal Brook
confluence w/ Preakness Brook
Passaic Spur Tunnel Inlet
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PASSAIC RIVER
Station 1620+00 to 1760+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
12" Riprap
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1760+00 to 1900+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 1900+00 to 2040+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
Distance in 1000 Feet above Mouth

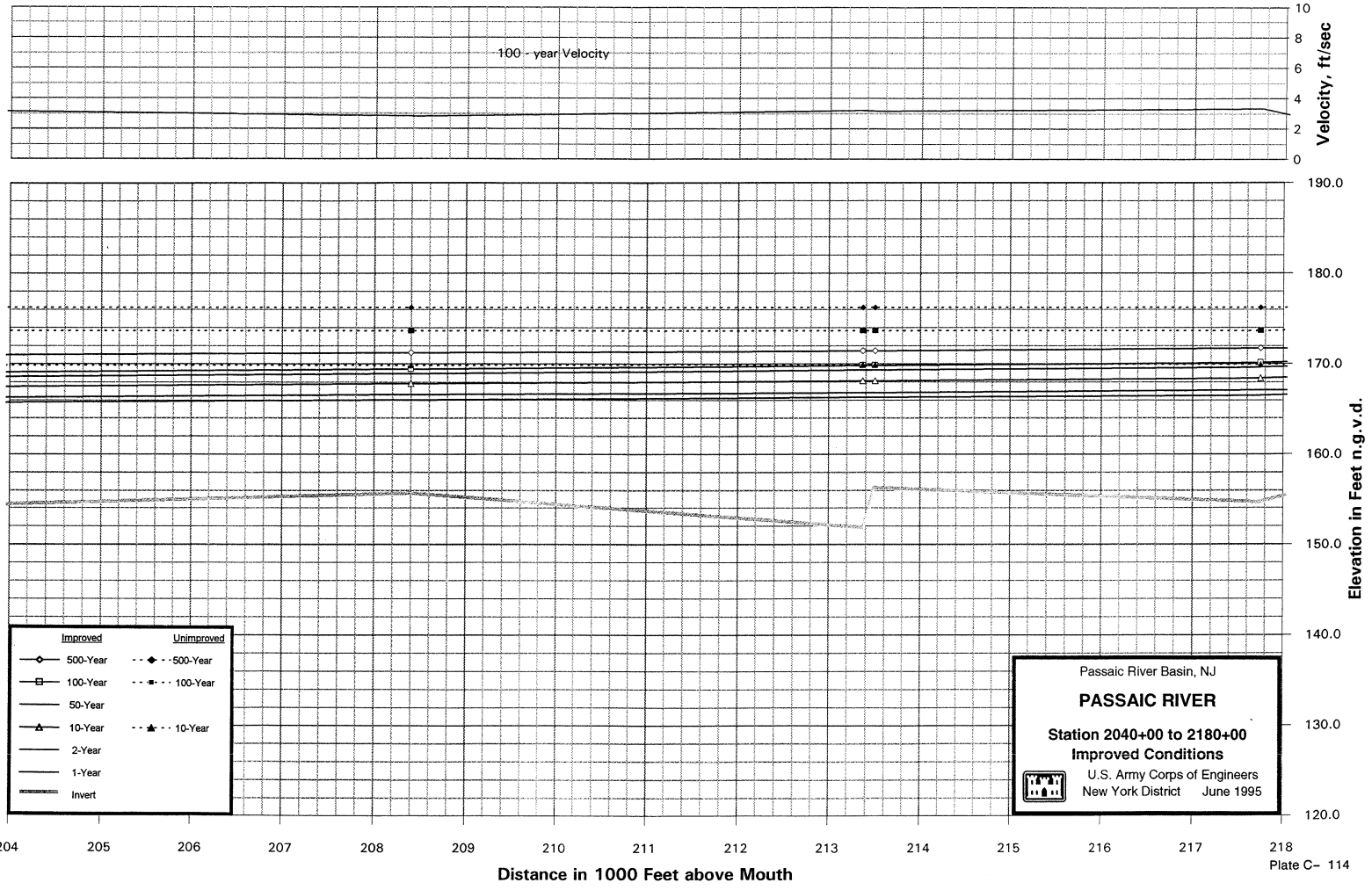
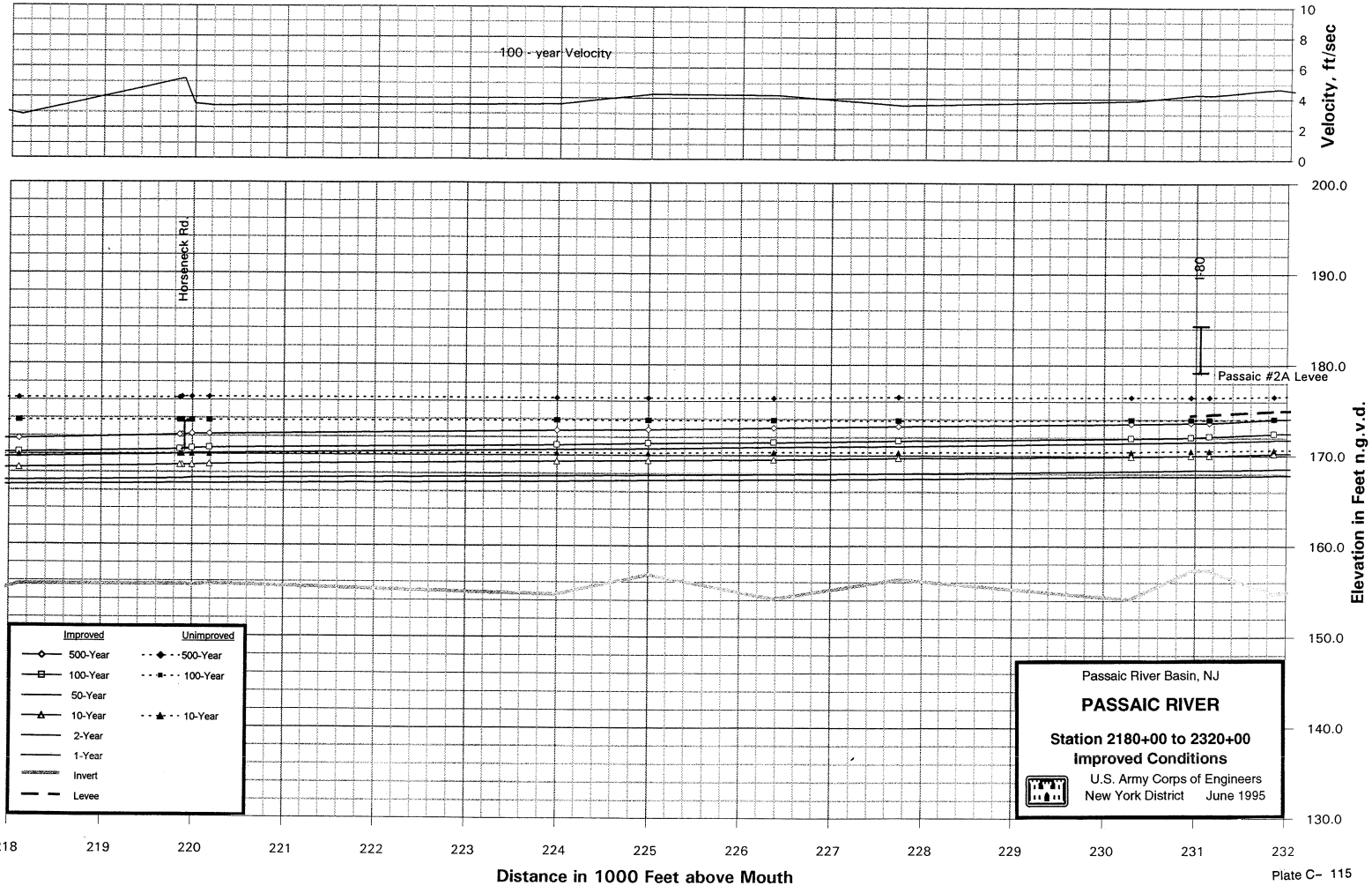
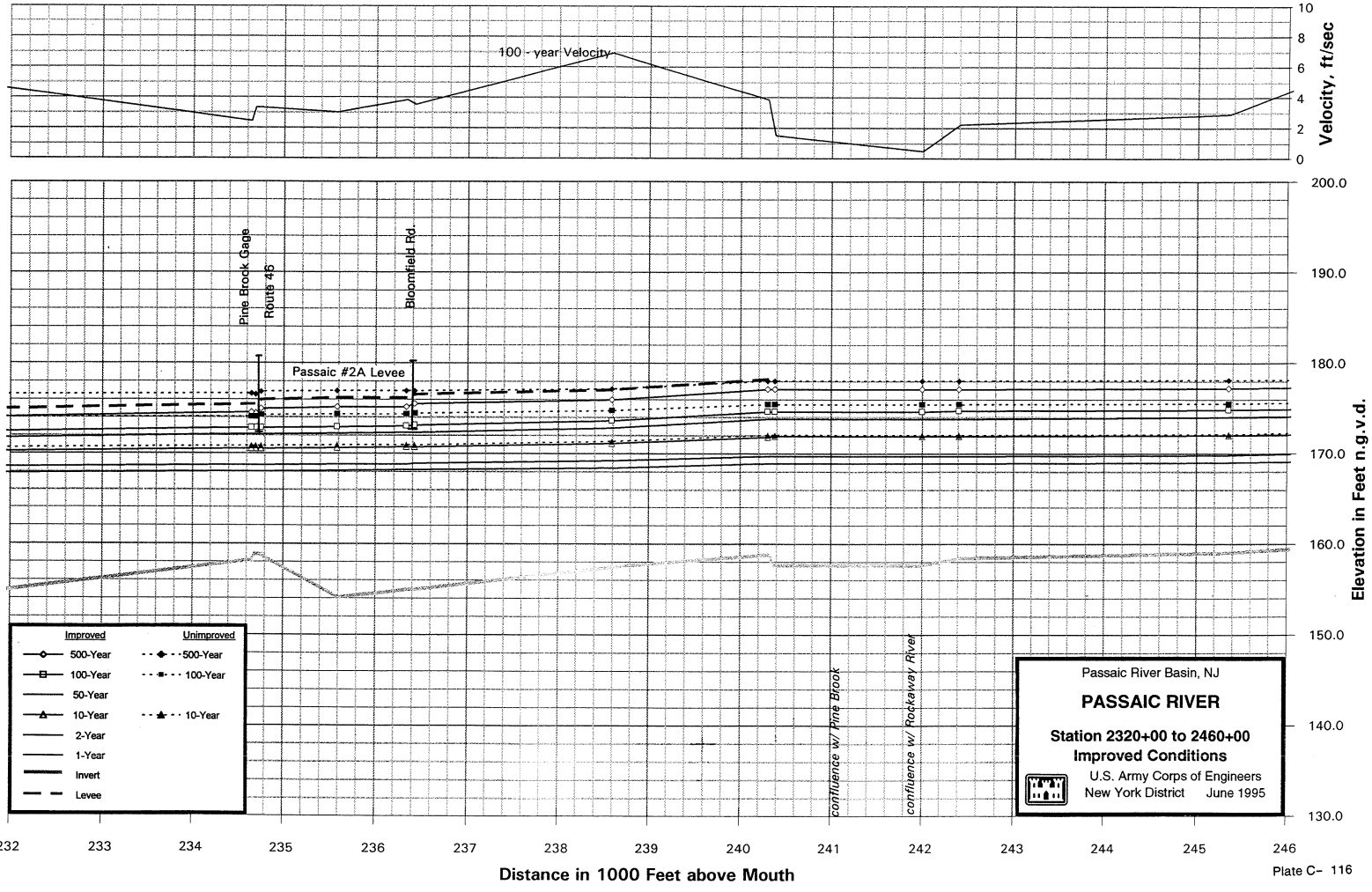
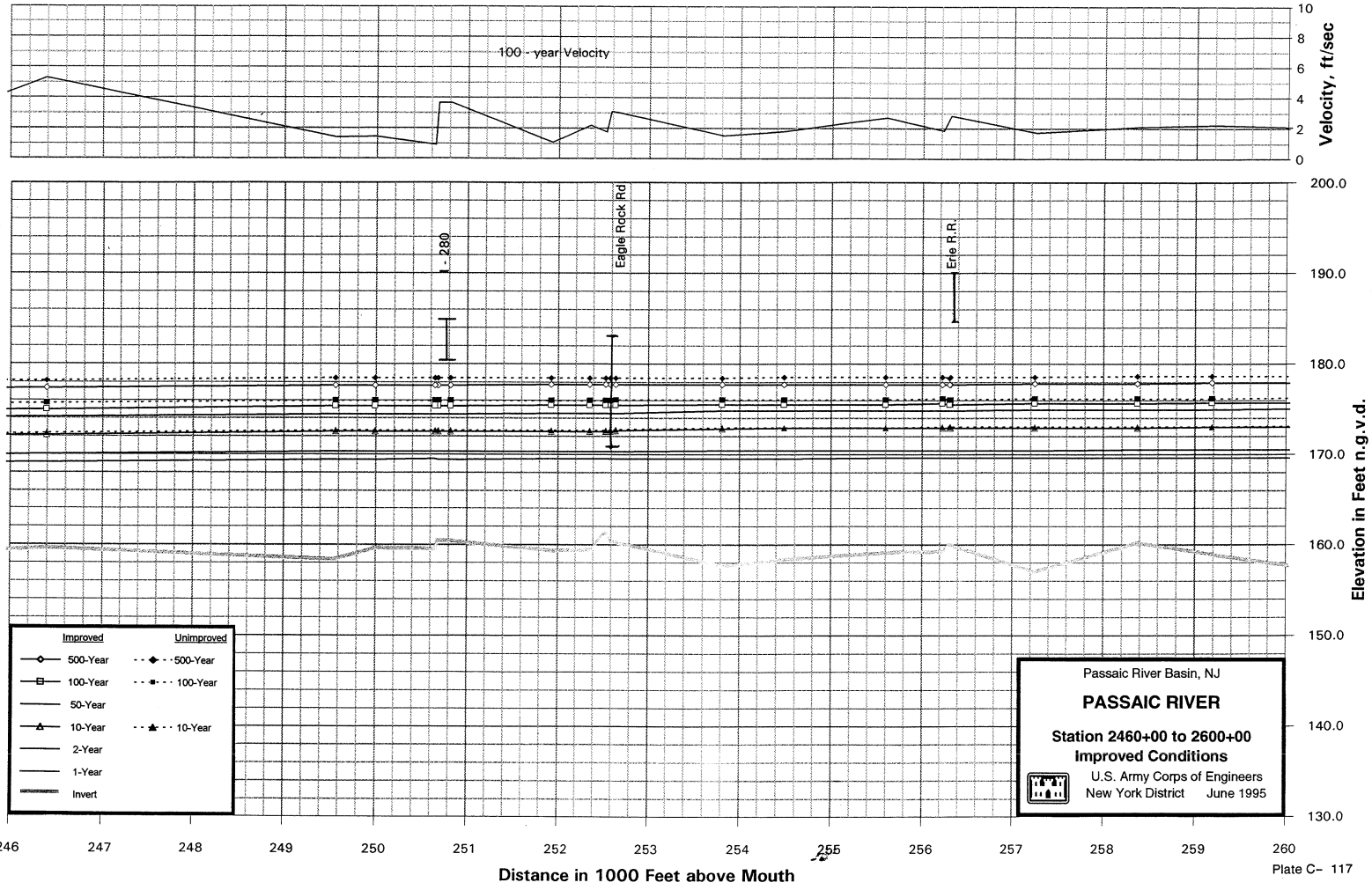

100 - year Velocity
10
8
6
4
2
0
Velocity, ft/sec
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2040+00 to 2180+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
Distance in 1000 Feet above Mouth

Plate C- 114


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Horseneck Rd
I-80
Passaic #2A Levee
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Levee
Passaic River Basin, NJ
PASSAIC RIVER
Station 2180+00 to 2320+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Pine Brook Gage
Route 46
Bloomfield Rd.
Passaic #2A Levee
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Levee
confluence w/ Pine Brook
confluence w/ Rockaway River
Passaic River Basin, NJ
PASSAIC RIVER
Station 2320+00 to 2460+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
I - 280
Eagle Rock Rd
Erie R.R.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2460+00 to 2600+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
Distance in 1000 Feet above Mouth

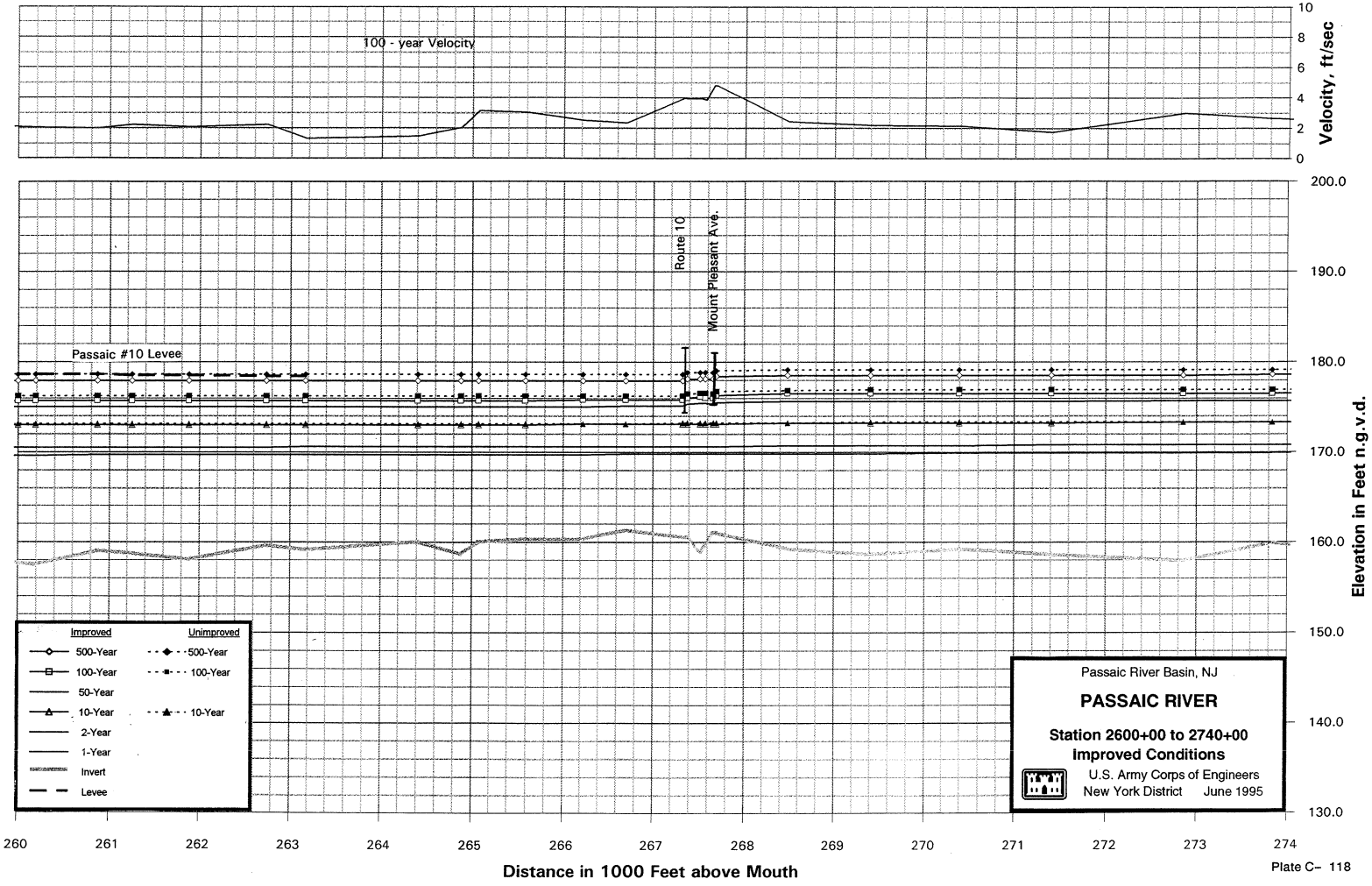

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Route 10
Mount Pleasant Ave.
Passaic #10 Levee
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Levee
Passaic River Basin, NJ
PASSAIC RIVER
Station 2600+00 to 2740+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
Distance in 1000 Feet above Mouth

Plate C- 118

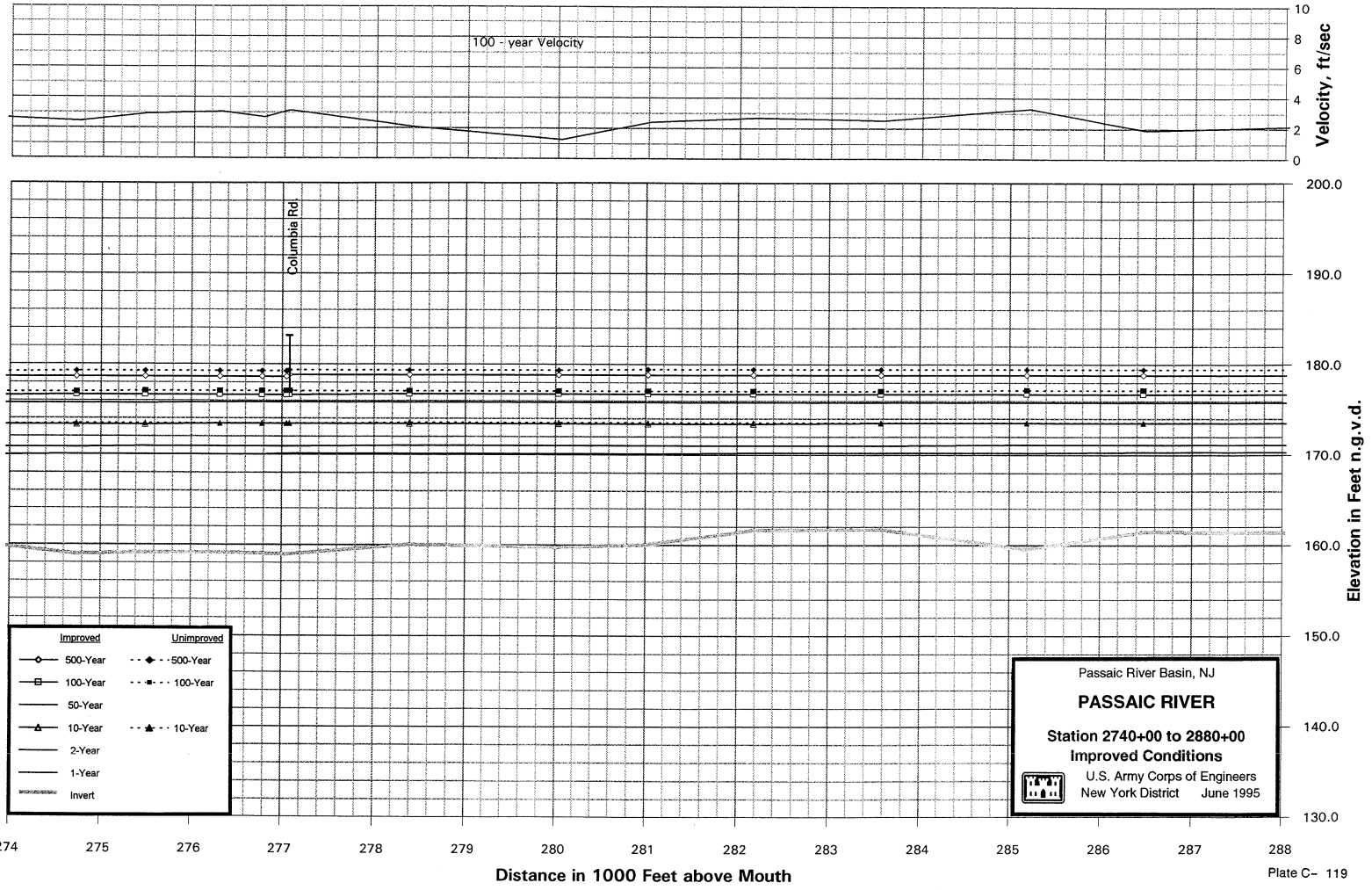
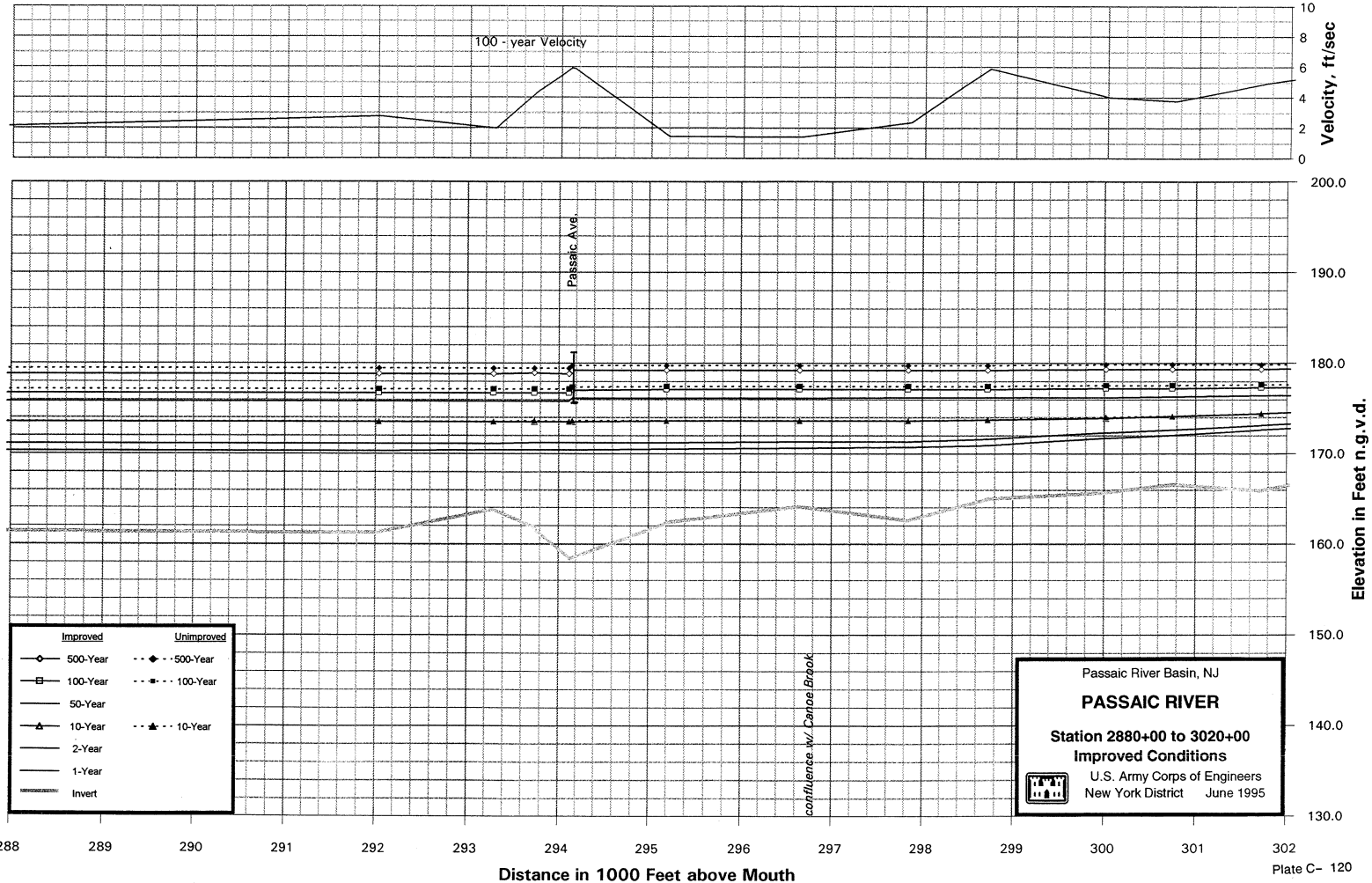
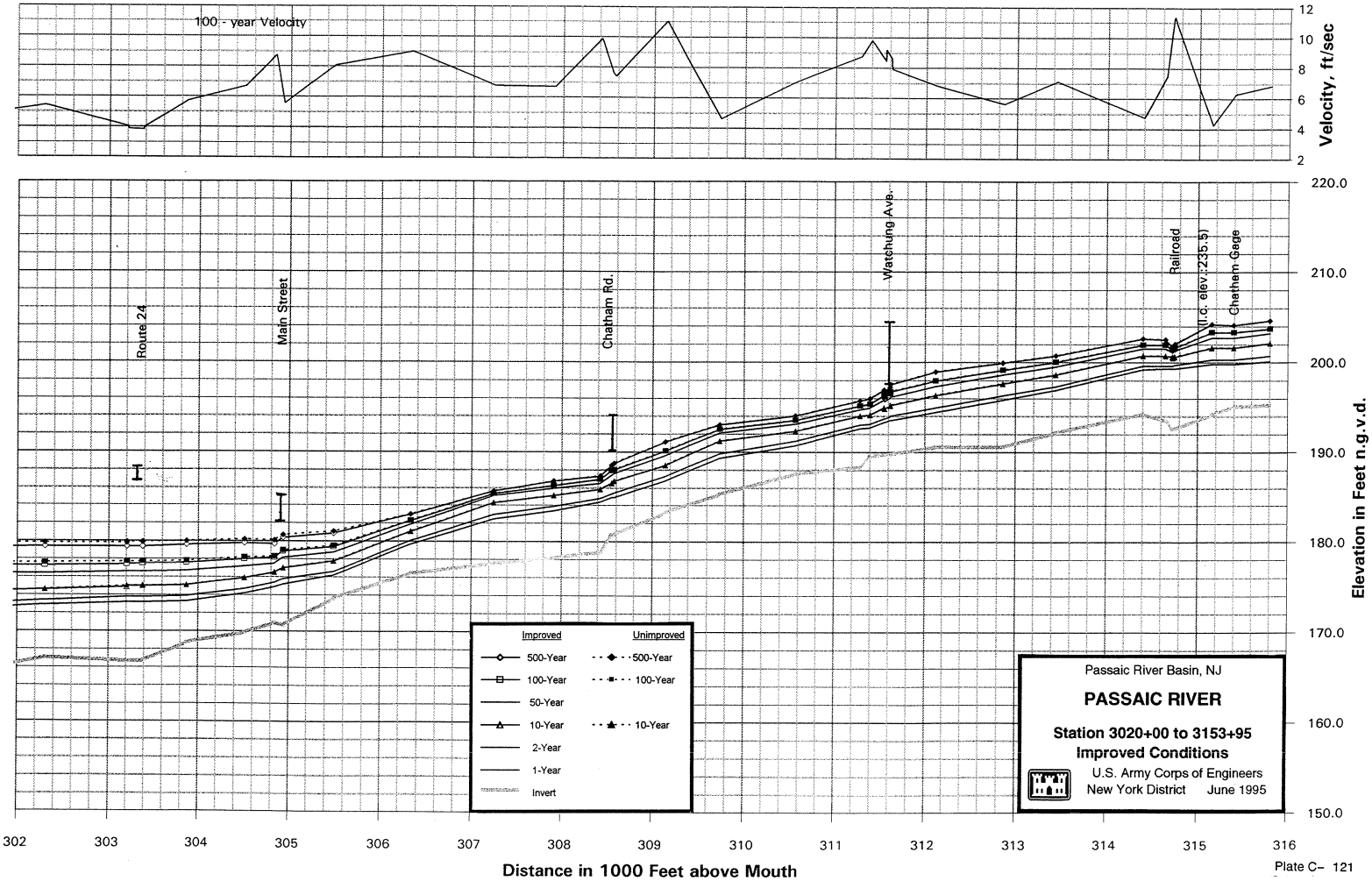

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Columbia Rd
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2740+00 to 2880+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
Distance in 1000 Feet above Mouth

Plate C- 119


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Passaic Ave.
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
confluence w/ Canoe Brook
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 2880+00 to 3020+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Route 24
Main Street
Chatham Rd.
Watchung Ave.
Railroad
(U.S. elev. 235.5)
Chatham Gage
220.0
210.0
200.0
190.0
180.0
170.0
160.0
150.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
PASSAIC RIVER
Station 3020+00 to 3153+95
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
Distance in 1000 Feet above Mouth

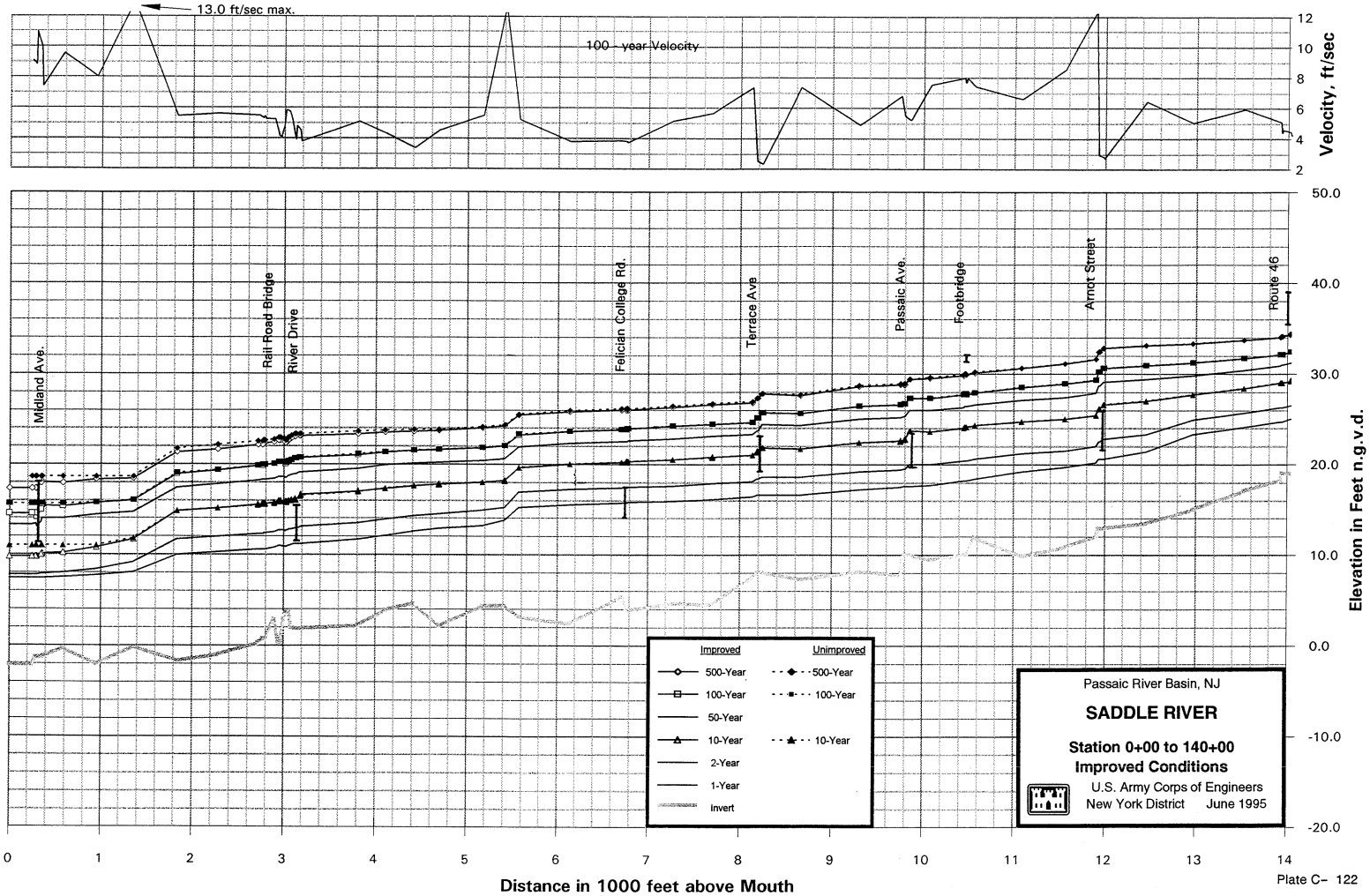
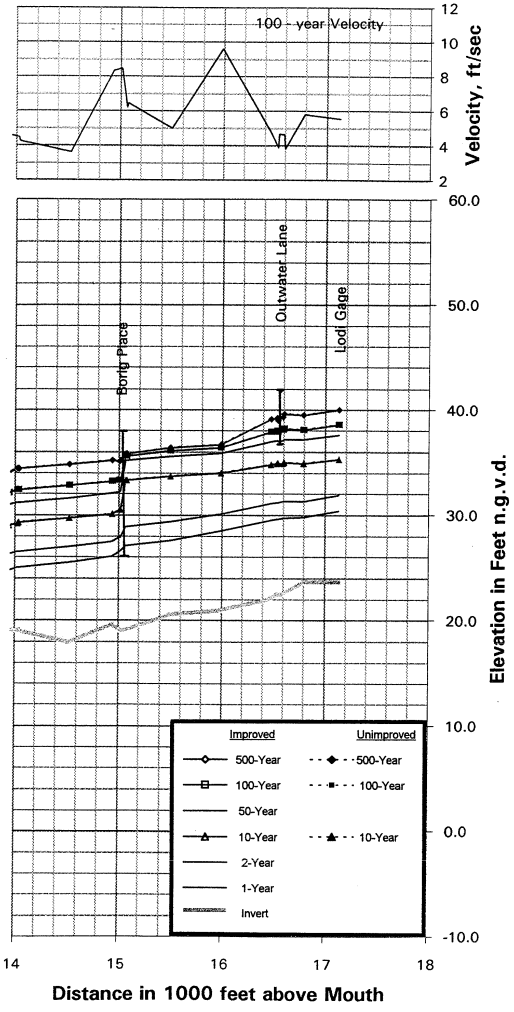

13.0 ft/sec max.
100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Midland Ave.
Rail Road Bridge
River Drive
Felician College Rd.
Terrace Ave.
Passaic Ave.
Footbridge
Arnot Street
Route 46
Elevation in Feet n.g.v.d.
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
SADDLE RIVER
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 feet above Mouth

Plate C- 122

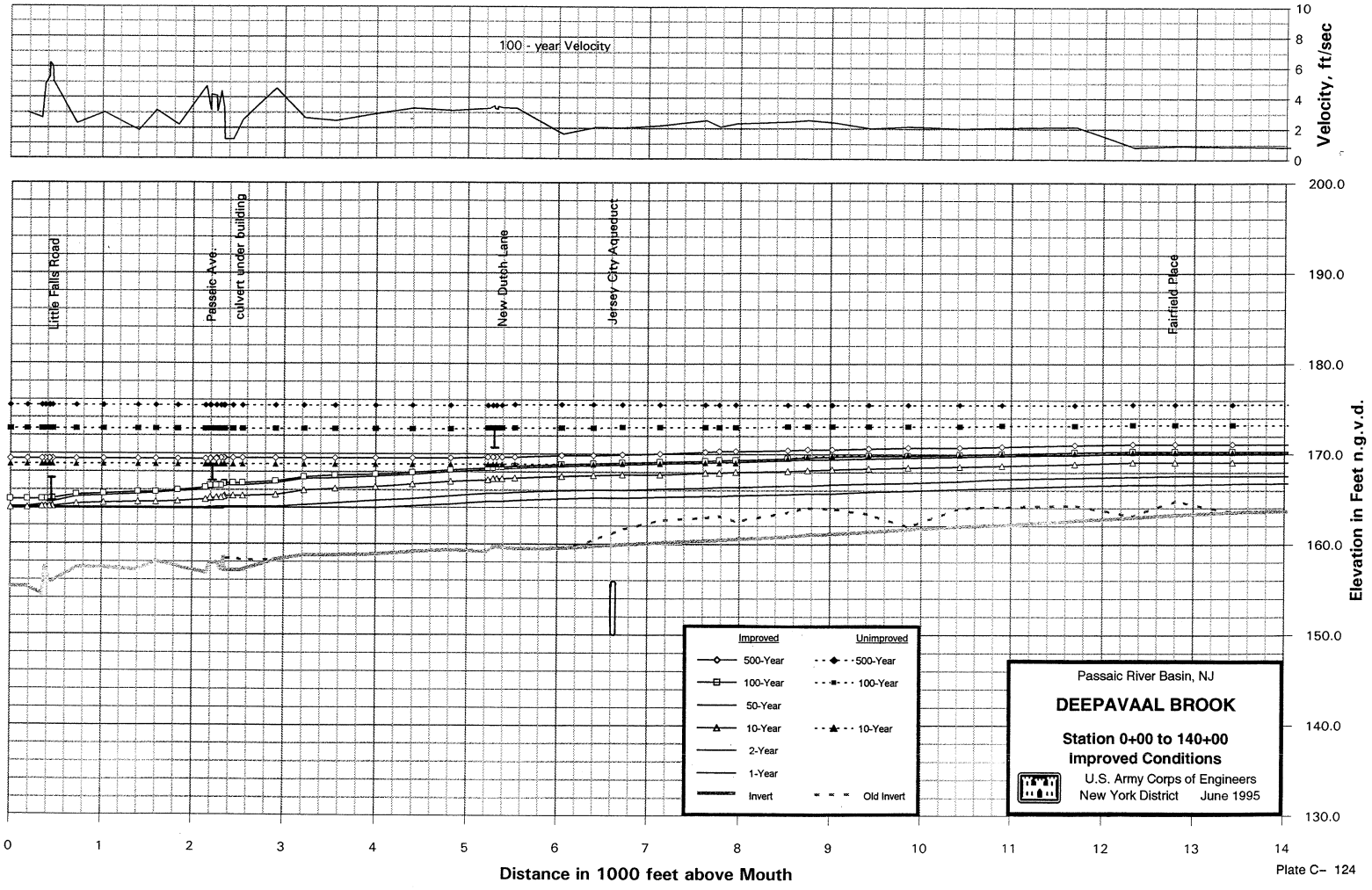


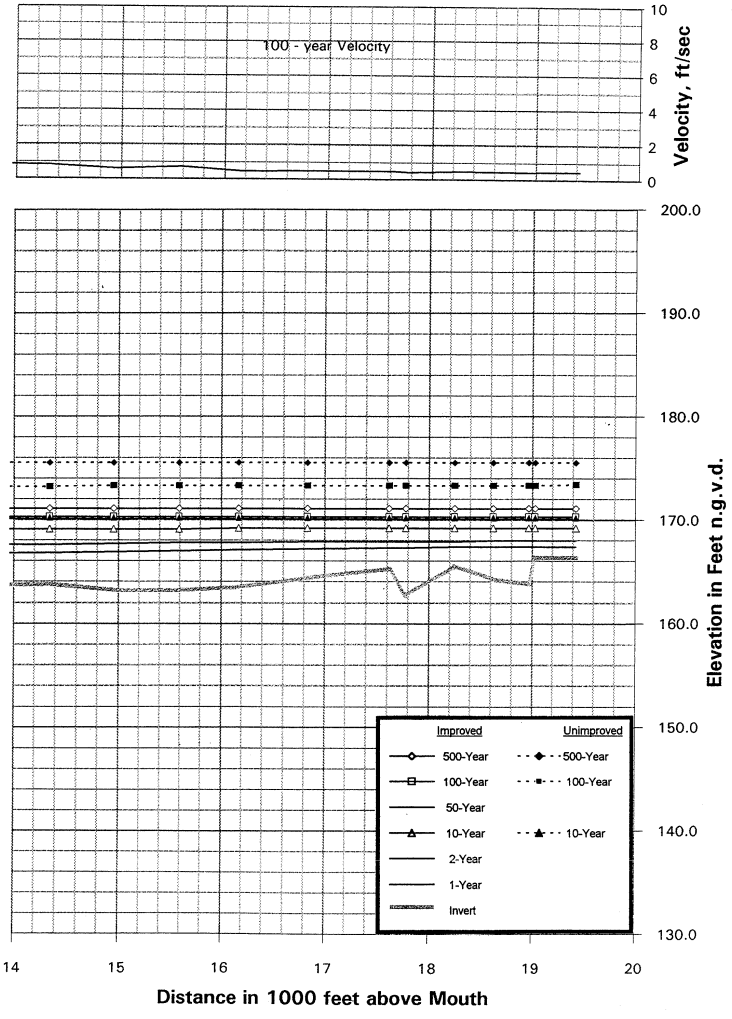
Passaic River Basin, NJ

SADDLE RIVER

Station 140+00 to 171+30
Improved Conditions

U.S. Army Corps of Engineers
New York District June 1995


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Little Falls Road
Passaic Ave.
culvert under building
New Dutch Lane
Jersey City Aqueduct
Fairfield Place
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Passaic River Basin, NJ
DEEPAVAAL BROOK
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 feet above Mouth

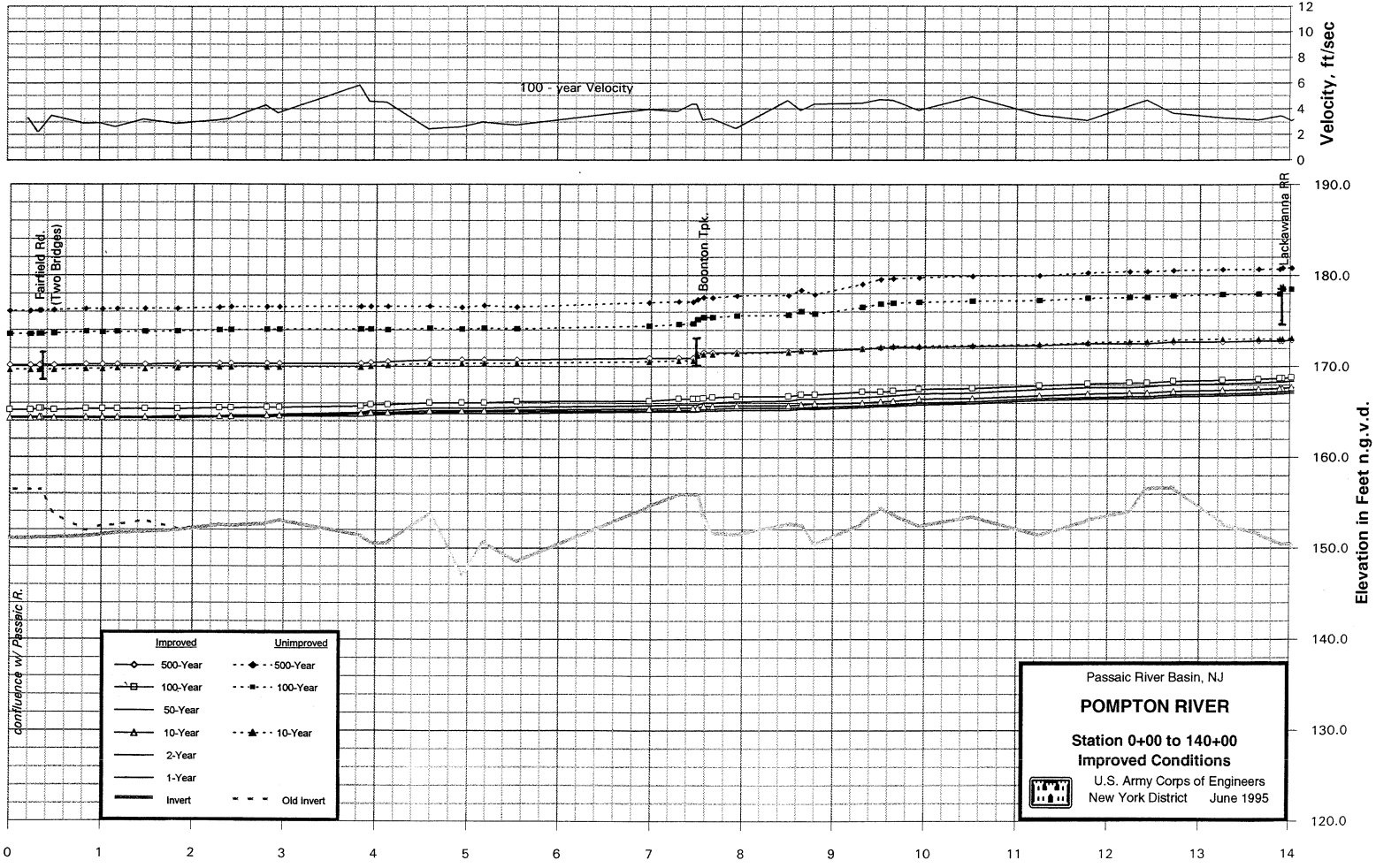


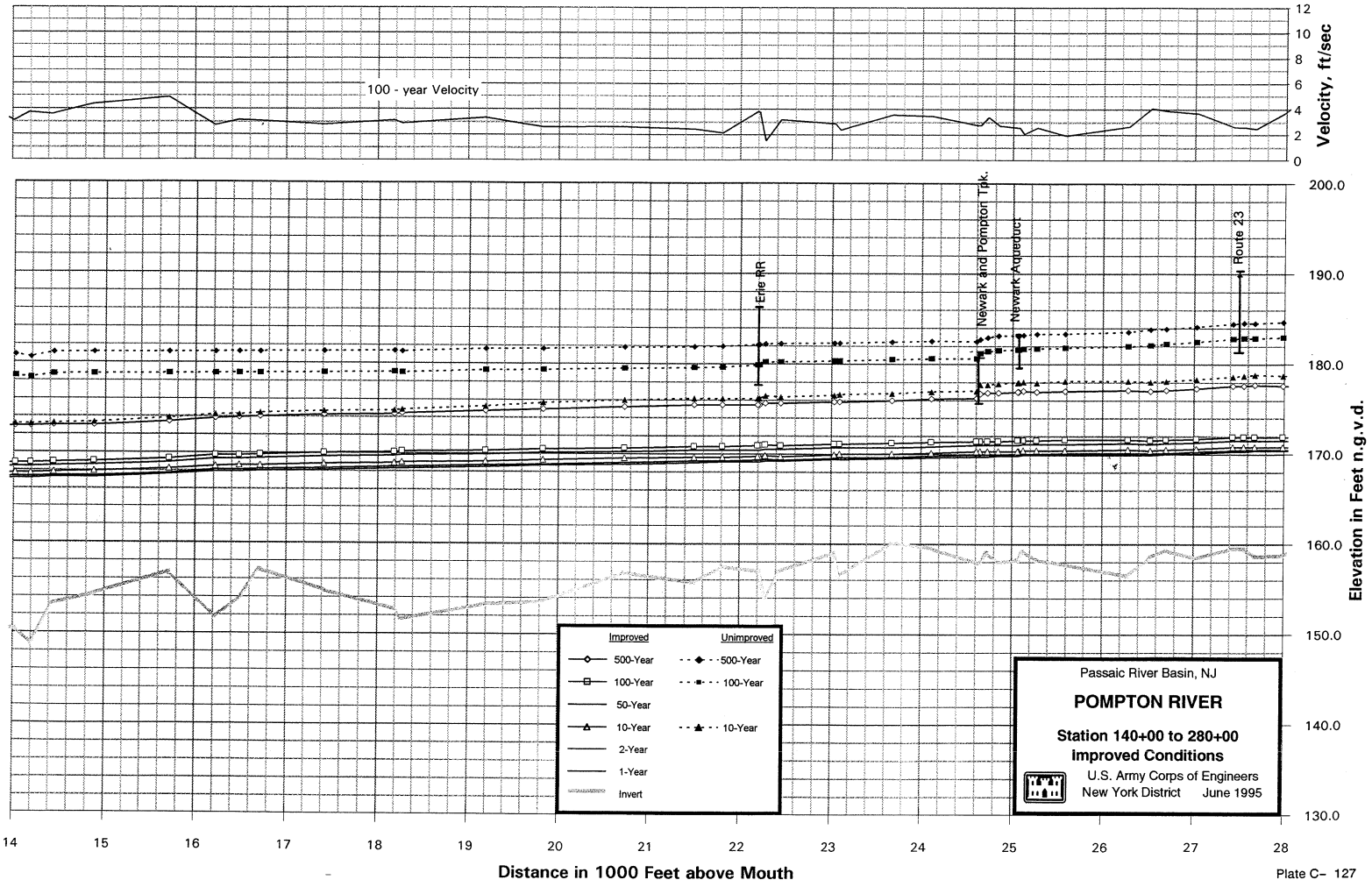
Passaic River Basin, NJ

DEEPAVAAL BROOK

Station 140+00 to 194+30
Improved Conditions

U.S. Army Corps of Engineers
New York District June 1995


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
0
Fairfield Rd. (Two Bridges)
Boonton Tpk.
Lackawanna RR
190.0
180.0
170.0
160.0
150.0
140.0
130.0
120.0
Elevation in Feet n.g.v.d.
confluence w/ Passaic R.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Passaic River Basin, NJ
POMPTON RIVER
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
0
Erie RR
Newark and Pompton Tpk.
Newark Aqueduct
Route 23
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
POMPTON RIVER
Station 140+00 to 280+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

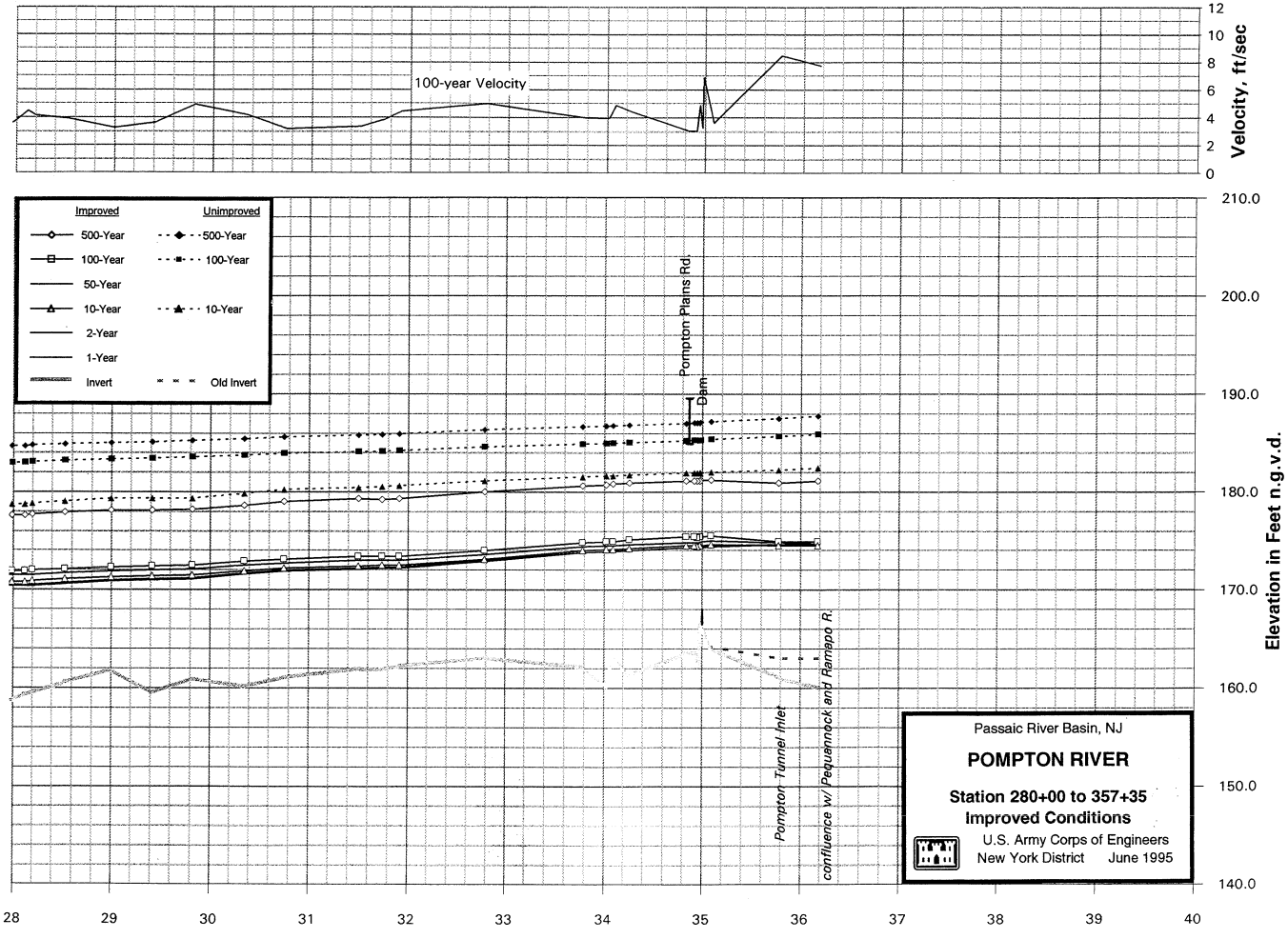

100-year Velocity
12
10
8
6
4
2
0
Velocity, ft/sec
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Pompton Plains Rd.
Dam
Pompton Tunnel Inlet
confluence w/ Pequannock and Ramapo R.
210.0
200.0
190.0
180.0
170.0
160.0
150.0
140.0
Elevation in Feet n.g.v.d.
28
29
30
31
32
33
34
35
36
37
38
39
40
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
POMPTON RIVER
Station 280+00 to 357+35
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995

Plate C- 128

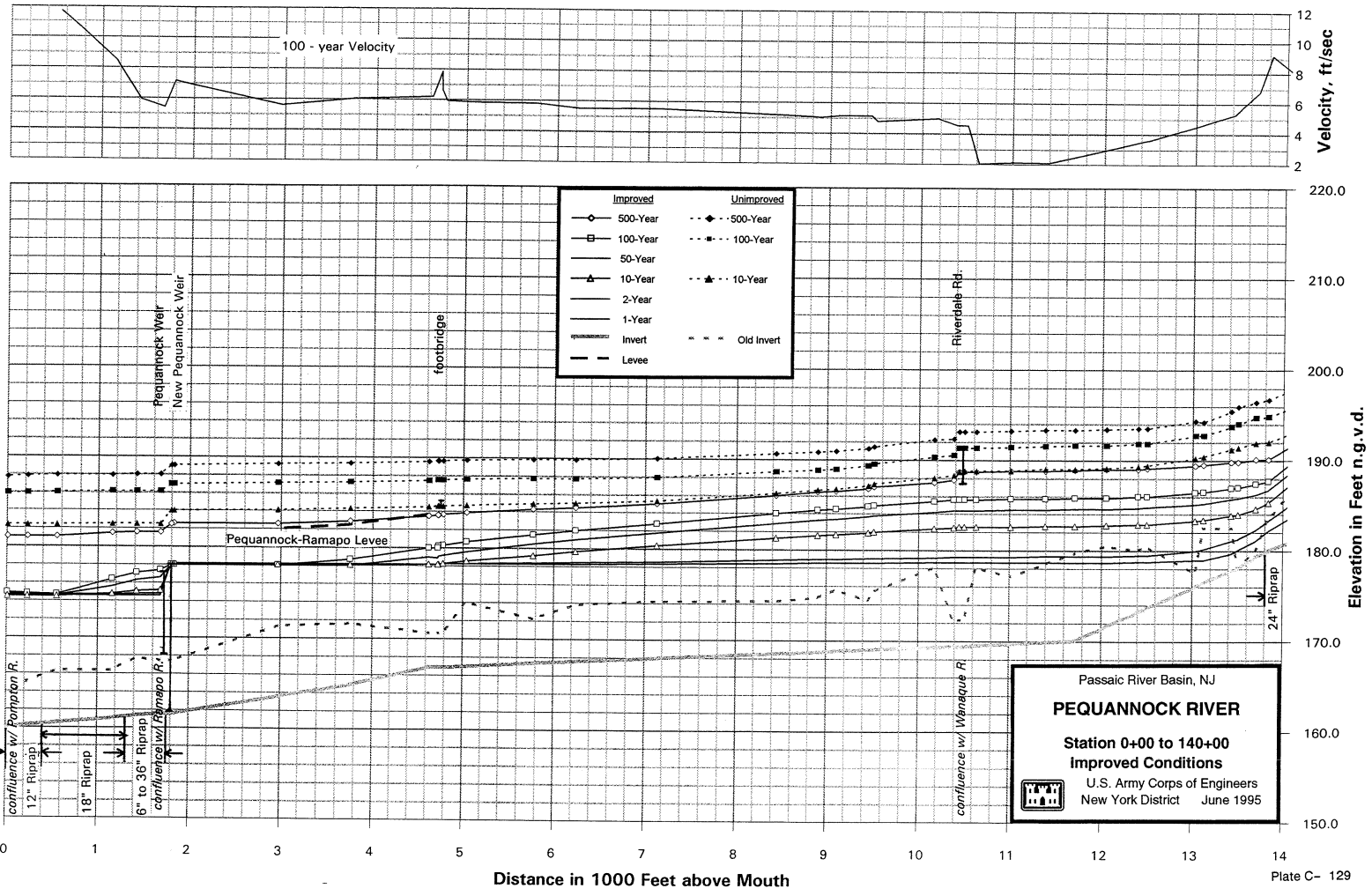
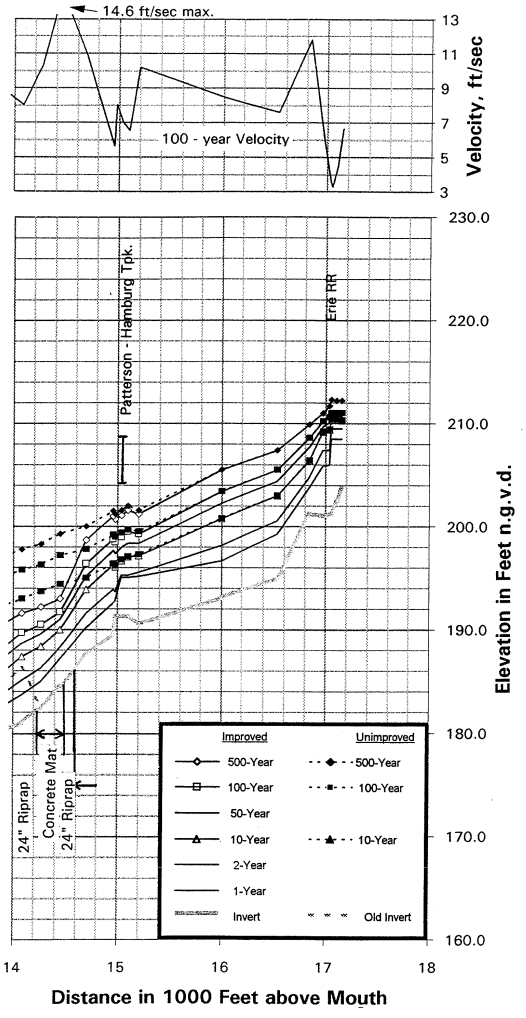

100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Levee
Pequannock Weir
New Pequannock Weir
footbridge
Riverdale Rd.
Pequannock-Ramapo Levee
24" Riprap
confluence w/ Pompton R.
12" Riprap
18" Riprap
6" to 36" Riprap
confluence w/ Ramapo R.
confluence w/ Wanaque R.
220.0
210.0
200.0
190.0
180.0
170.0
160.0
150.0
Elevation in Feet n.g.v.d.
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
PEQUANNOCK RIVER
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995

Plate C- 129

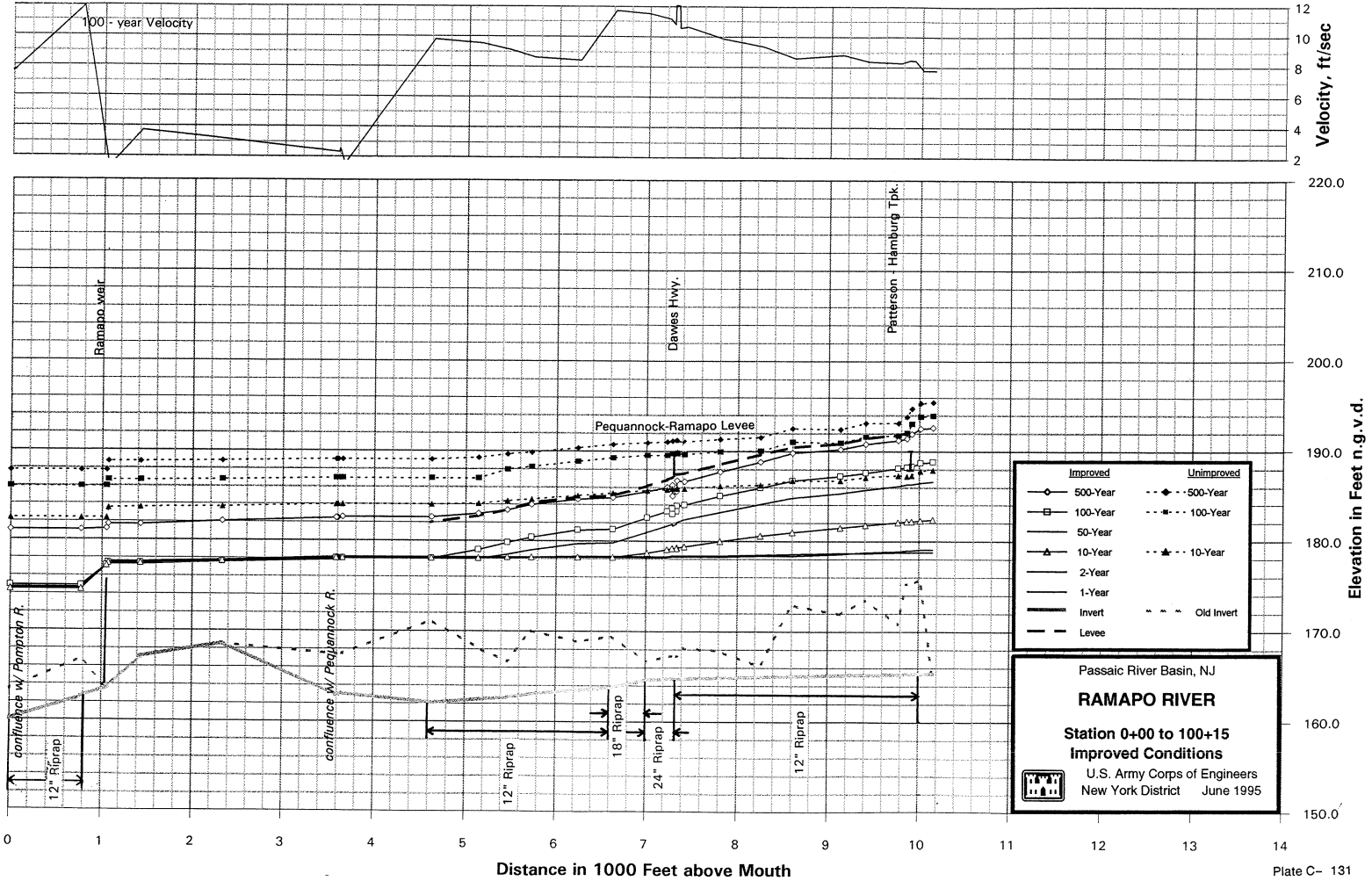


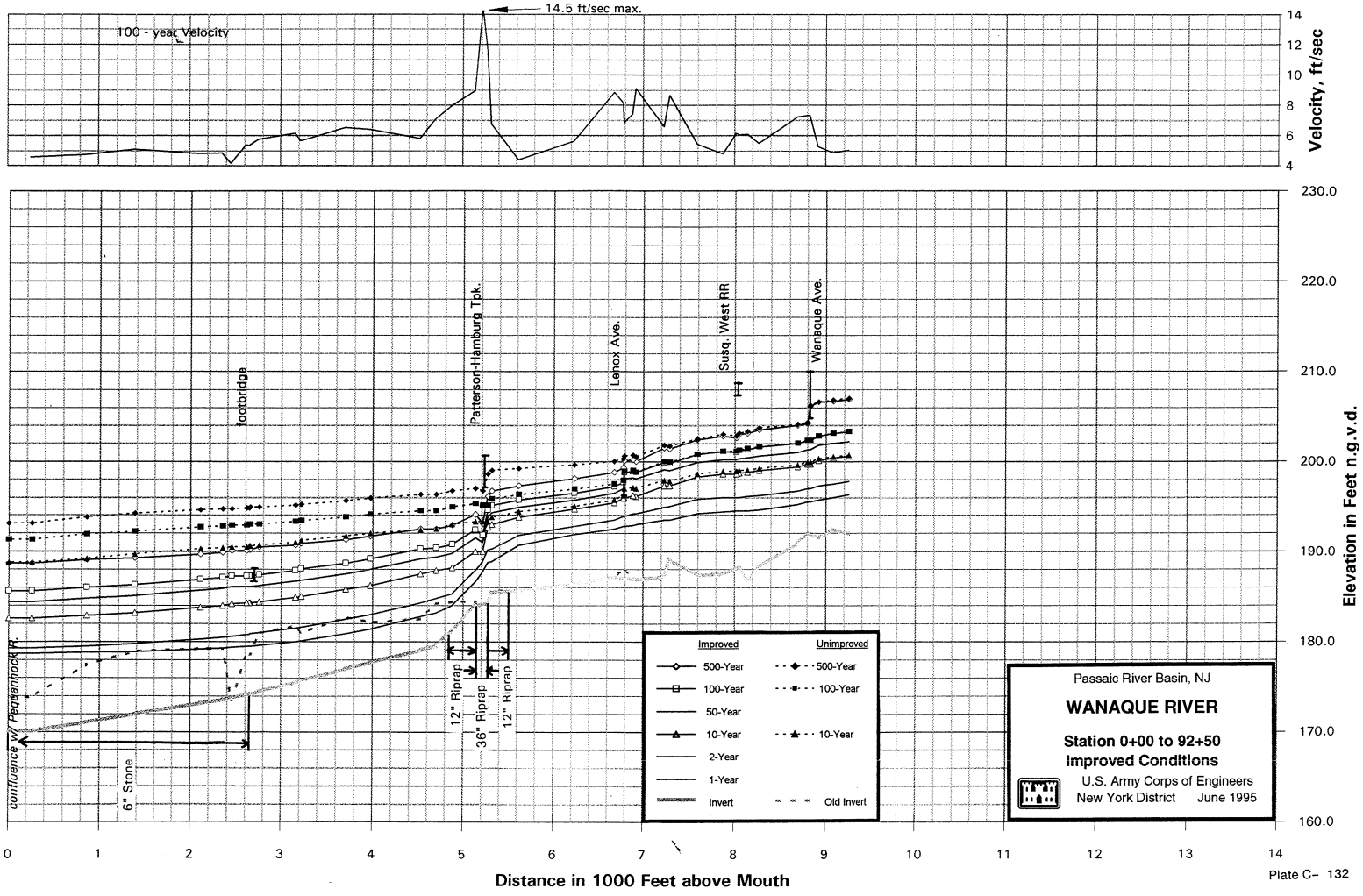
Passaic River Basin, NJ

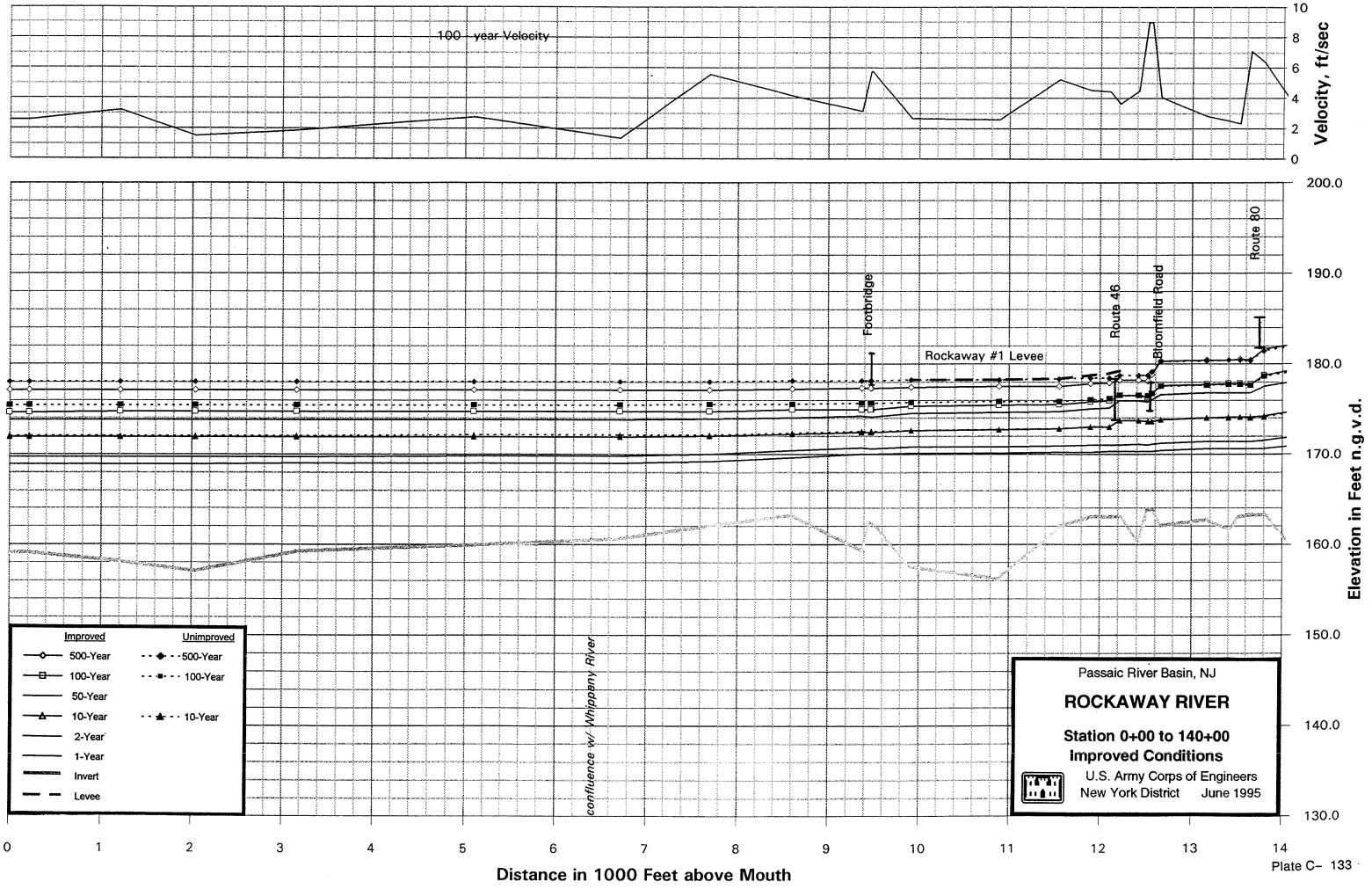
PEQUANNOCK RIVER

Station 140+00 to 171+55
Improved Conditions

U.S. Army Corps of Engineers
New York District June 1995


100 - year Velocity
Velocity, ft/sec
12
10
8
6
4
2
220.0
210.0
200.0
190.0
180.0
170.0
160.0
150.0
Elevation in Feet n.g.v.d.
Ramapo weir
Dawes Hwy.
Patterson - Hamburg Tpk.
Pequannock-Ramapo Levee
confluence w/ Pompton R.
confluence w/ Pequannock R.
12" Riprap
12" Riprap
18" Riprap
24" Riprap
12" Riprap
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Levee
Passaic River Basin, NJ
RAMAPO RIVER
Station 0+00 to 100+15
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth


14.5 ft/sec max.
100 - year Velocity
Velocity, ft/sec
footbridge
Patterson-Hamburg Tpk.
Lenox Ave.
Susq. West RR
Wanaque Ave.
confluence w/ Pequannock R.
6" Stone
12" Riprap
36" Riprap
12" Riprap
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Old Invert
Elevation in Feet n.g.v.d.
Distance in 1000 Feet above Mouth
Passaic River Basin, NJ
WANAQUE RIVER
Station 0+00 to 92+50
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Footbridge
Rockaway #1 Levee
Route 46
Bloomfield Road
Route 80
confluence w/ Whippany River
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Levee
Passaic River Basin, NJ
ROCKAWAY RIVER
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth

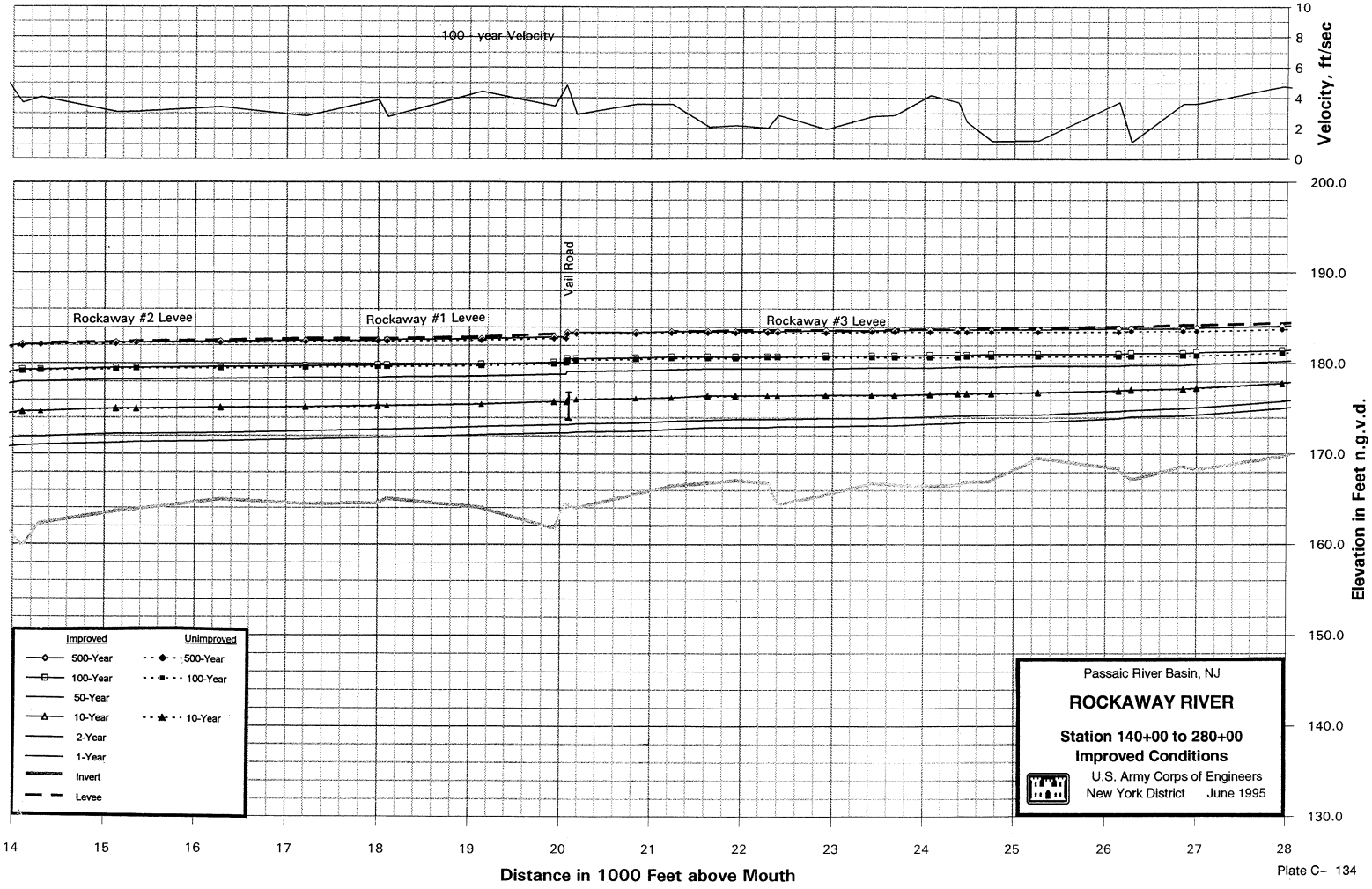
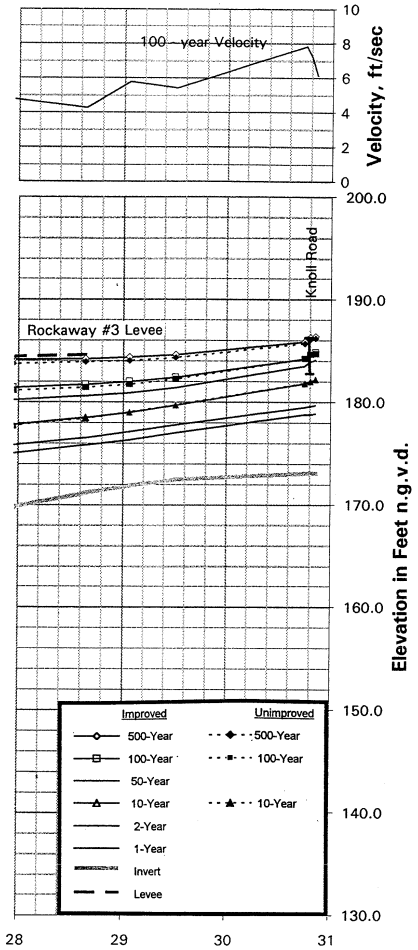

100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Vail Road
Rockaway #2 Levee
Rockaway #1 Levee
Rockaway #3 Levee
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
100-Year
50-Year
10-Year
2-Year
1-Year
Invert
Levee
Passaic River Basin, NJ
ROCKAWAY RIVER
Station 140+00 to 280+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

Plate C- 134

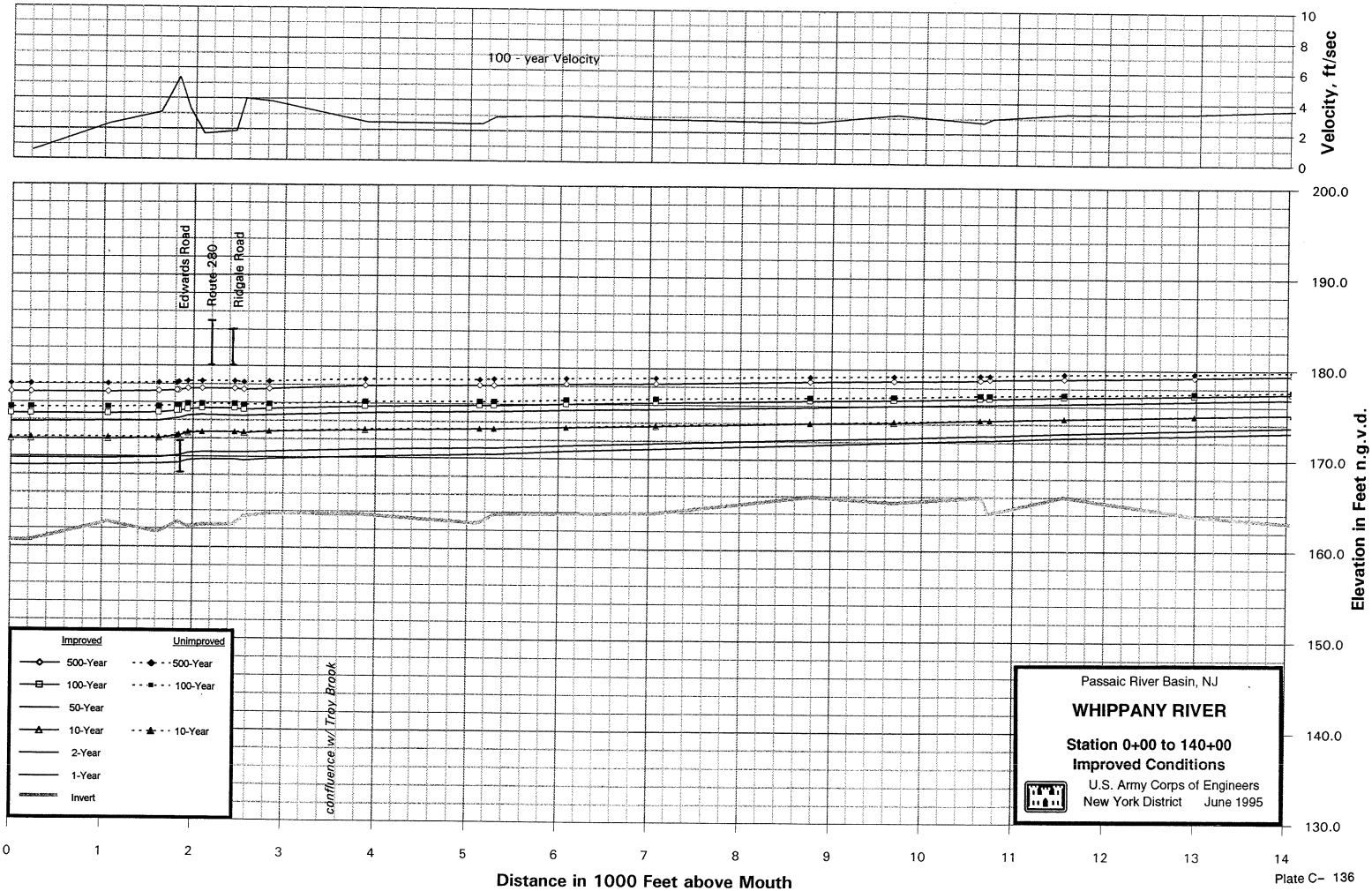


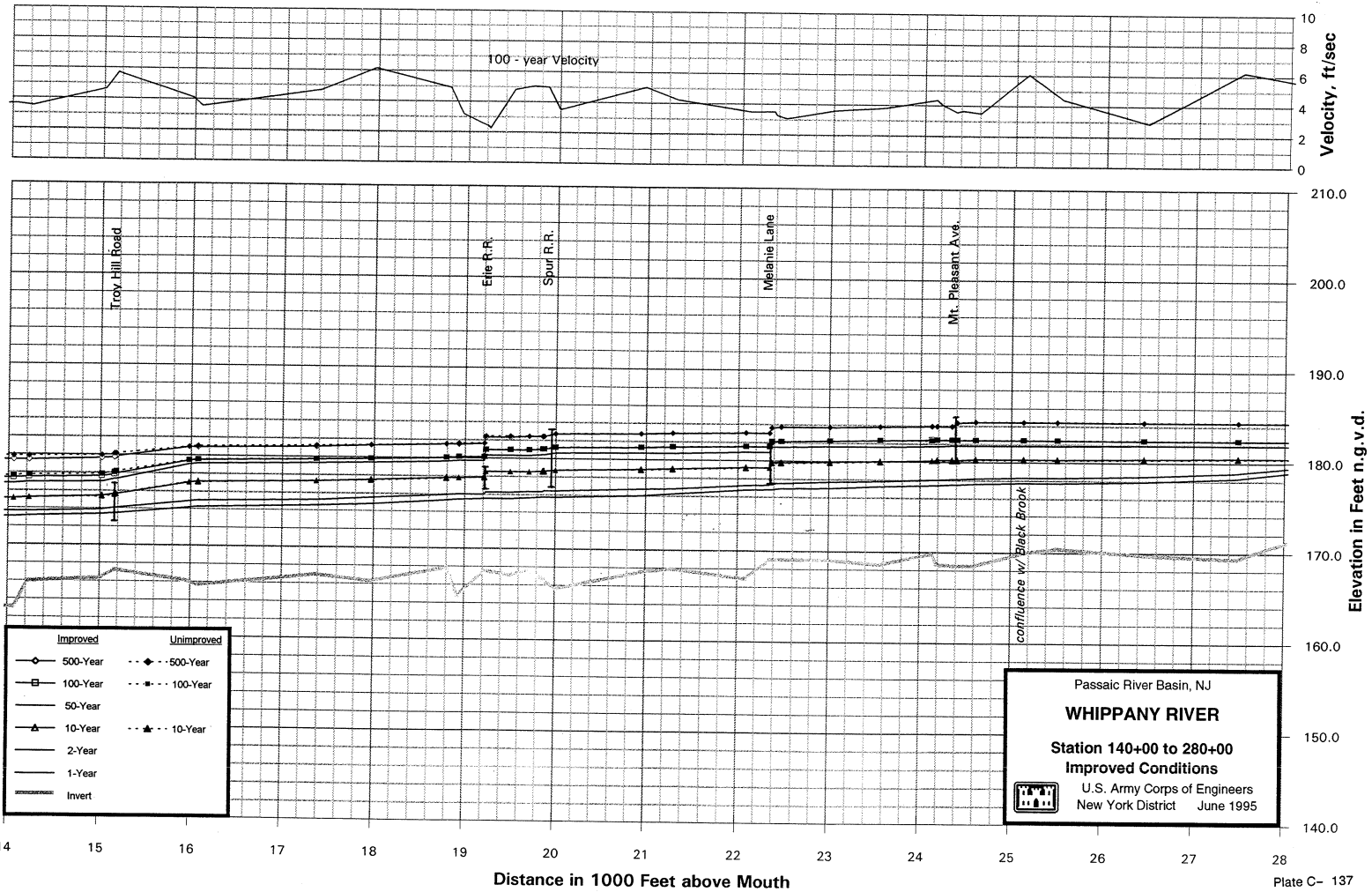
Passaic River Basin, NJ

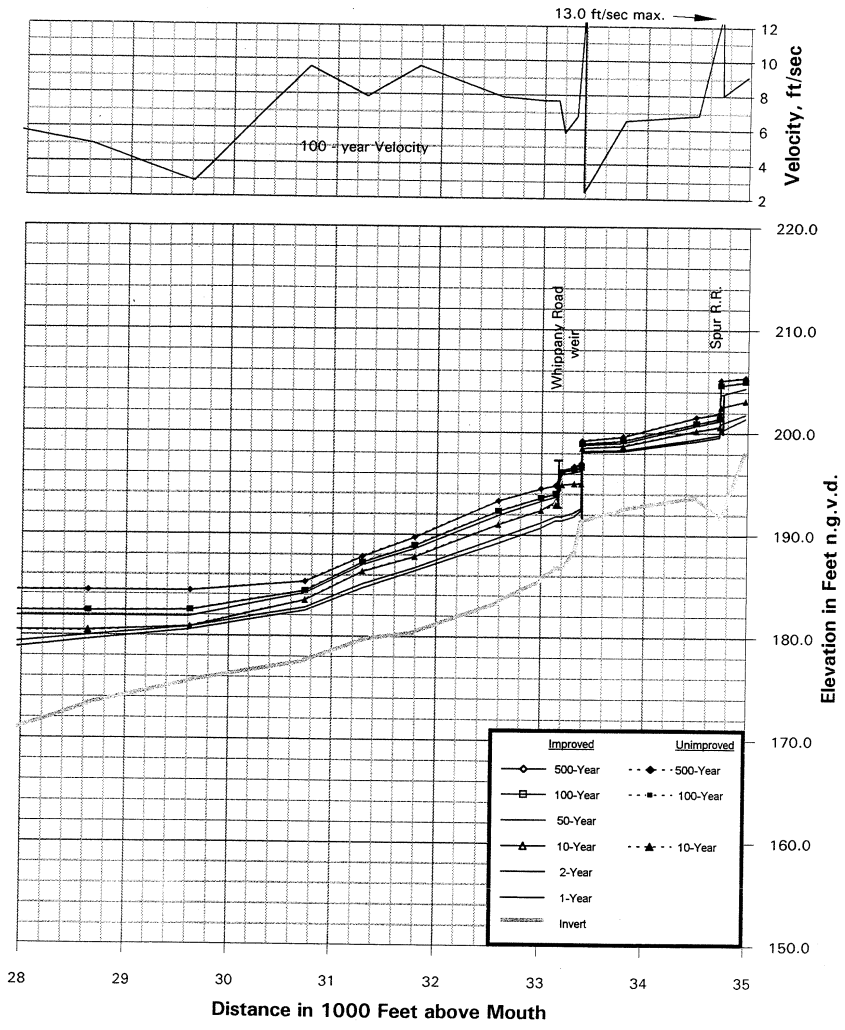
ROCKAWAY RIVER

Station 280+00 to 308+56
Improved Conditions

U.S. Army Corps of Engineers
New York District June 1995


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Edwards Road
Route 280
Ridgale Road
200.0
190.0
180.0
170.0
160.0
150.0
140.0
130.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
confluence w/ Troy Brook
Passaic River Basin, NJ
WHIPPANY RIVER
Station 0+00 to 140+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
Distance in 1000 Feet above Mouth


100 - year Velocity
Velocity, ft/sec
10
8
6
4
2
0
Troy Hill Road
Erie R.R.
Spur R.R.
Melanie Lane
Mt. Pleasant Ave.
confluence w/ Black Brook
210.0
200.0
190.0
180.0
170.0
160.0
150.0
140.0
Elevation in Feet n.g.v.d.
Improved
Unimproved
500-Year
500-Year
100-Year
100-Year
50-Year
10-Year
10-Year
2-Year
1-Year
Invert
Passaic River Basin, NJ
WHIPPANY RIVER
Station 140+00 to 280+00
Improved Conditions
U.S. Army Corps of Engineers
New York District June 1995
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
Distance in 1000 Feet above Mouth

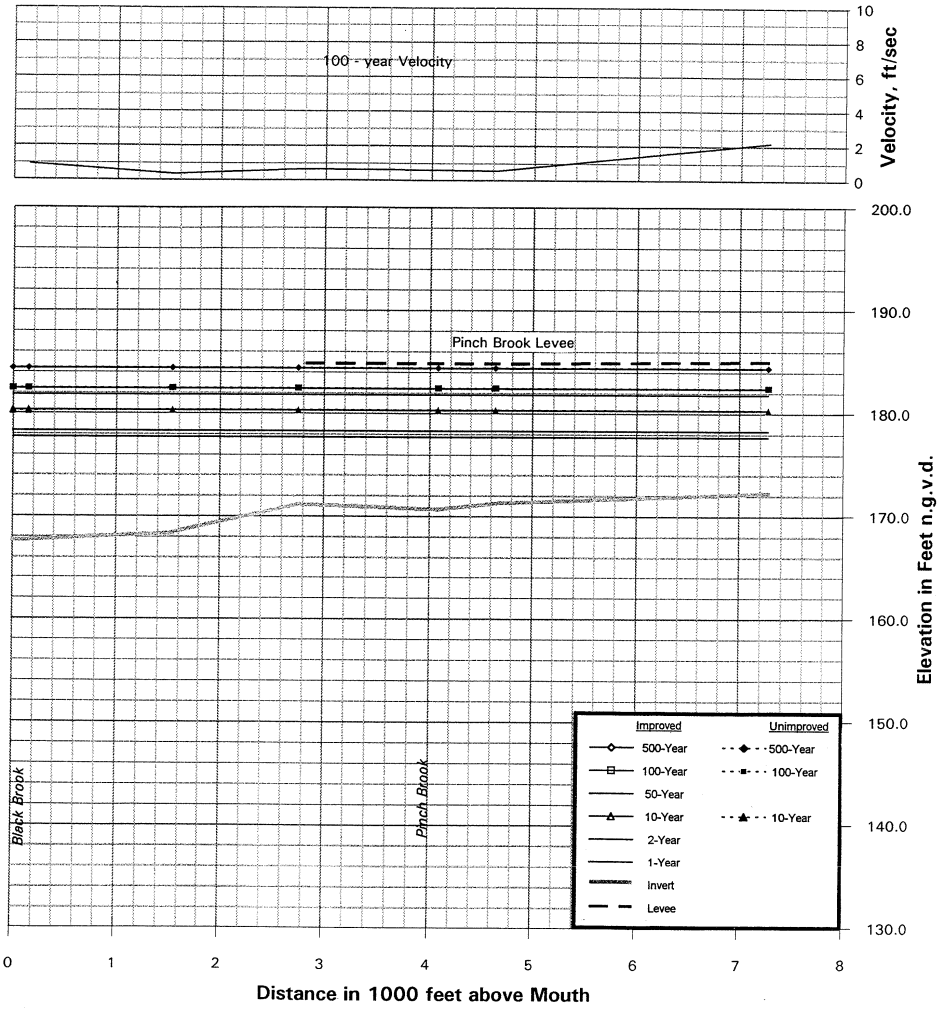


Passaic River Basin, NJ

WHIPPANY RIVER

Station 280+00 to 349+75
Improved Conditions

U.S. Army Corps of Engineers
New York District June 1995

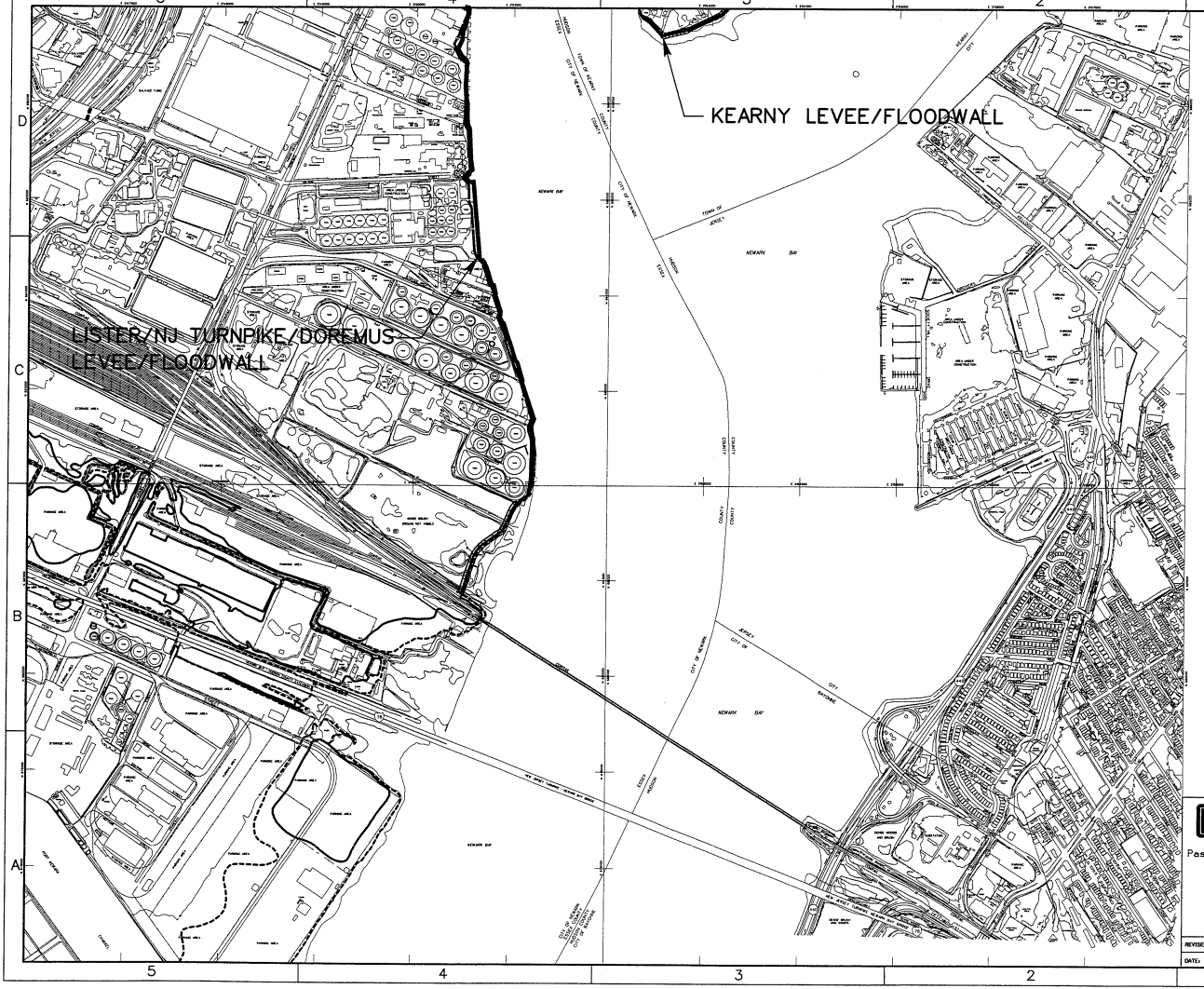


Passaic River Basin, NJ

BLACK AND PINCH BROOKS

Station 0+00 to 72+75
Improved Conditions

U.S. Army Corps of Engineers
New York District June 1995



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-4	PS-3	PS-2
	PS-1	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:			
DATE:	PREPARED BY:	SHEET	PS-1

Plate C- 140



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-3	PS-2	
PS-1		

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

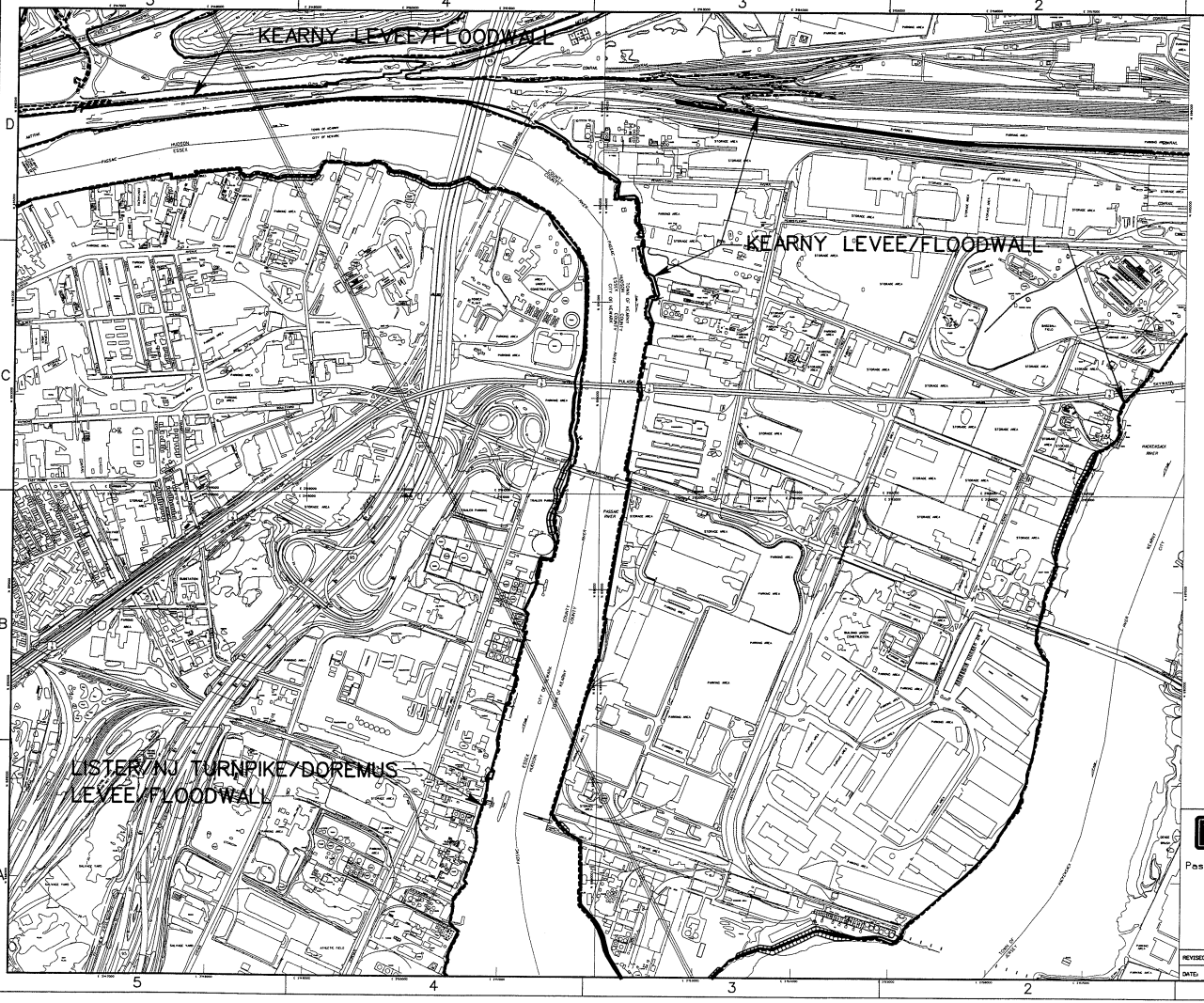
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: | PREPARED BY: | SHEET PS-2



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS,PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-5		
PS-4	PS-3	PS-2
	PS-1	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET
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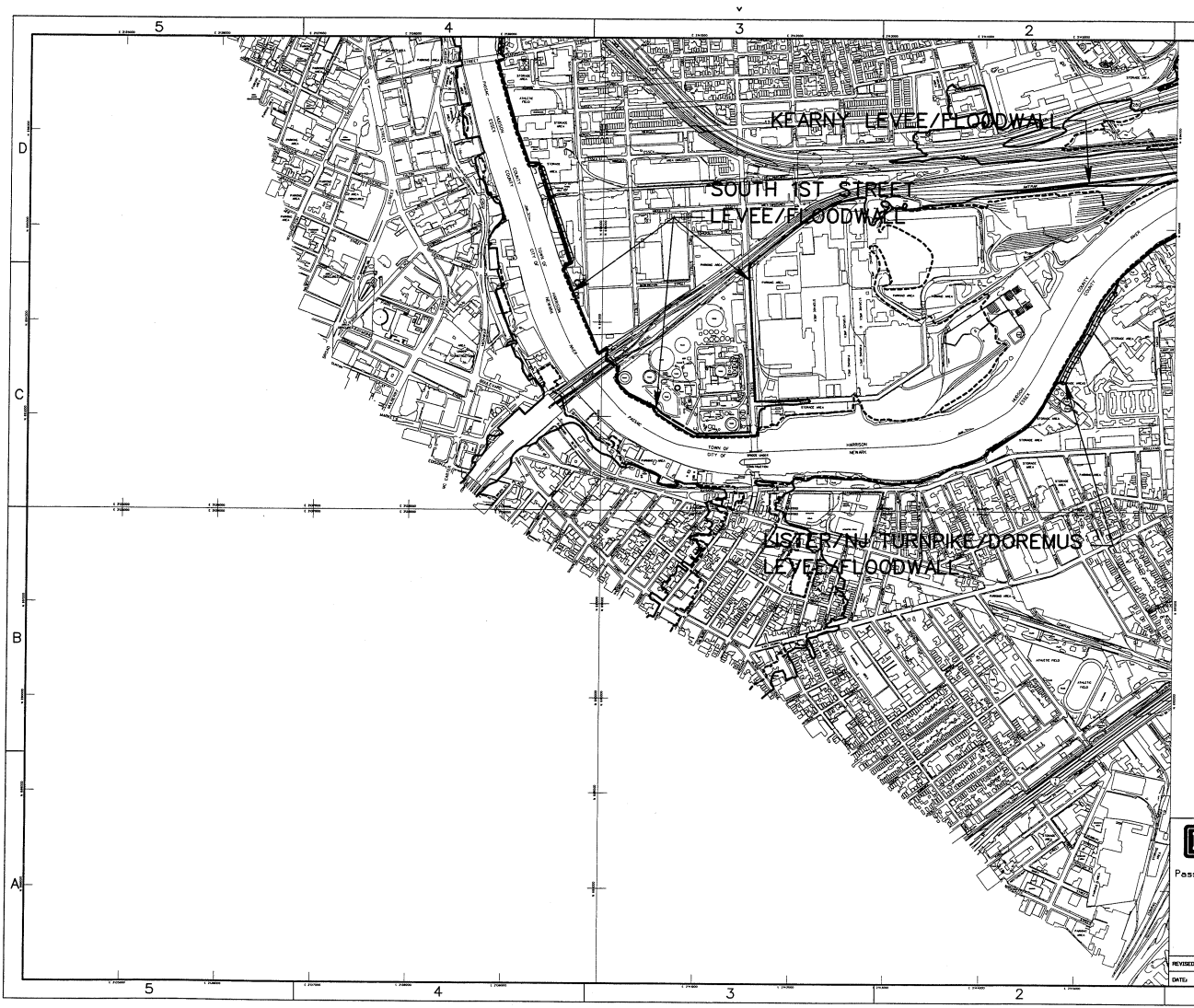
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:			
DATE:	PREPARED BY:	SHEET	PS-3



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-5	
	PS-4	PS-3
		PS-1

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

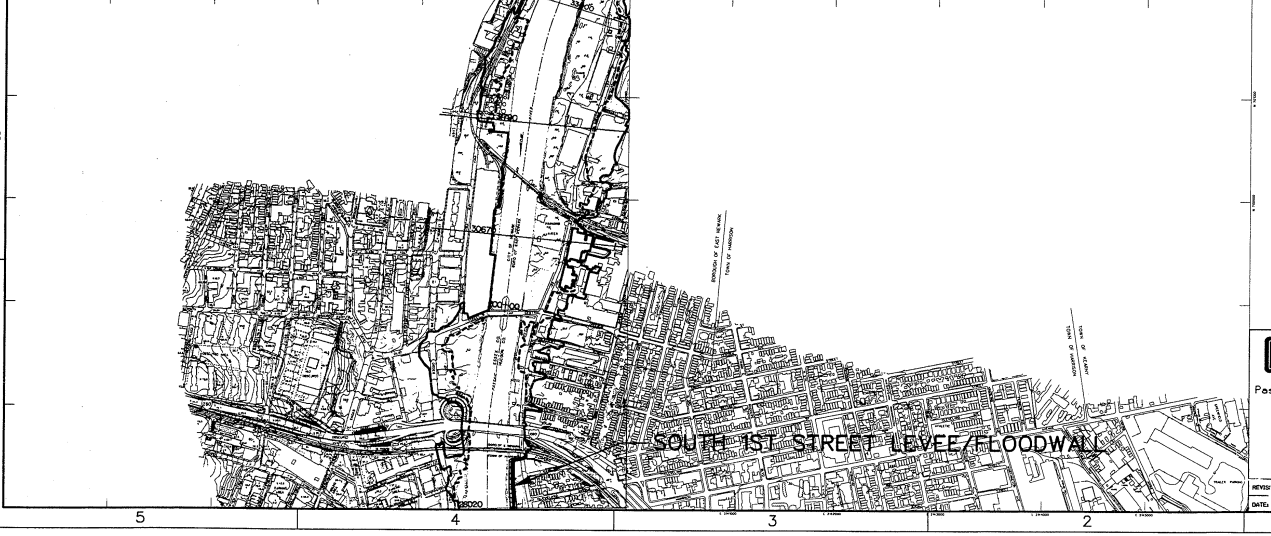
GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-4

SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA



KEY TO MATCHING SHEETS

	PS-6	
	PS-5	
	PS-4	PS-3

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

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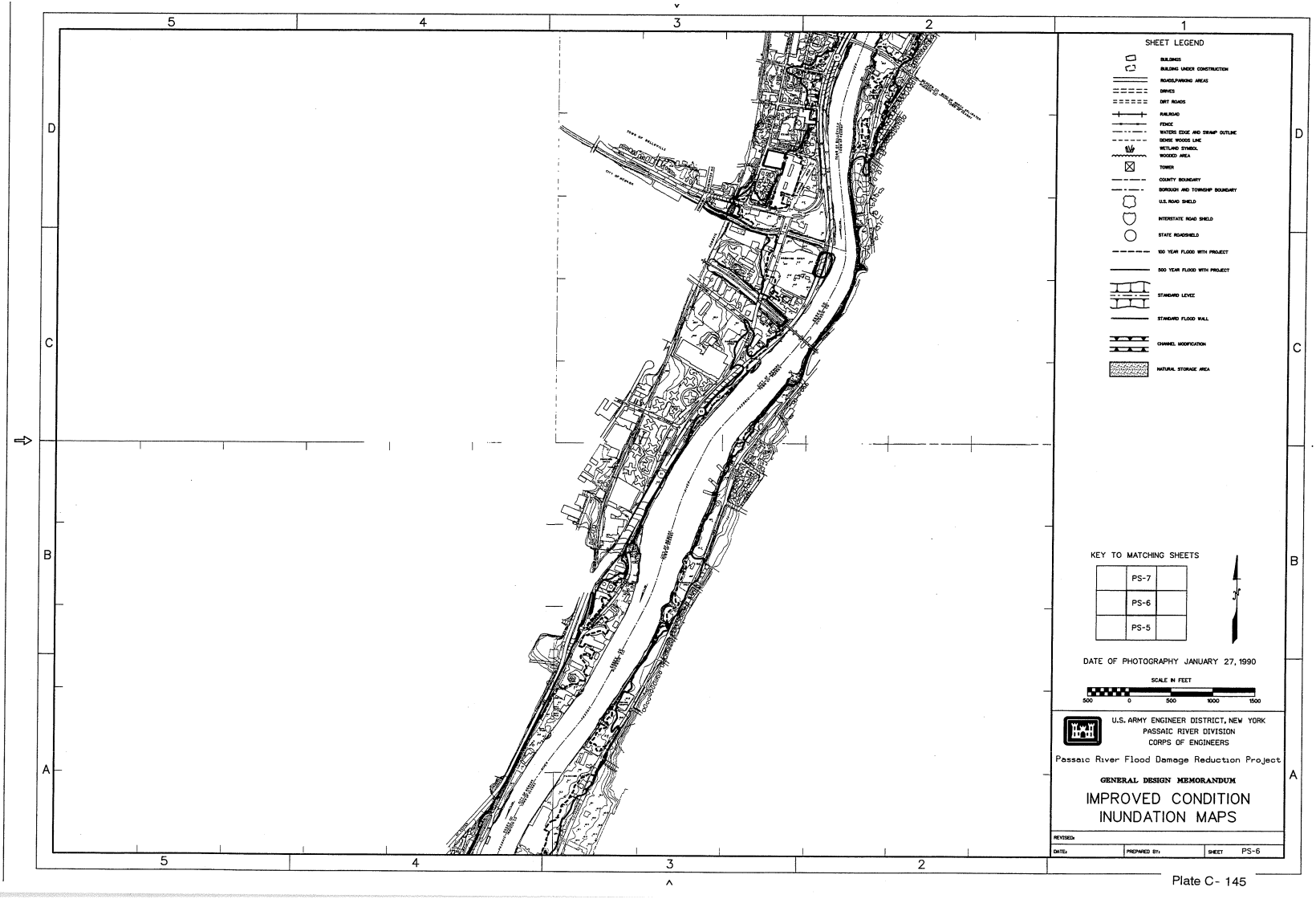
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-5


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
BRIDGE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA
KEY TO MATCHING SHEETS
PS-7
PS-6
PS-5
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
IMPROVED CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET PS-6



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-8	
	PS-7	
	PS-6	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

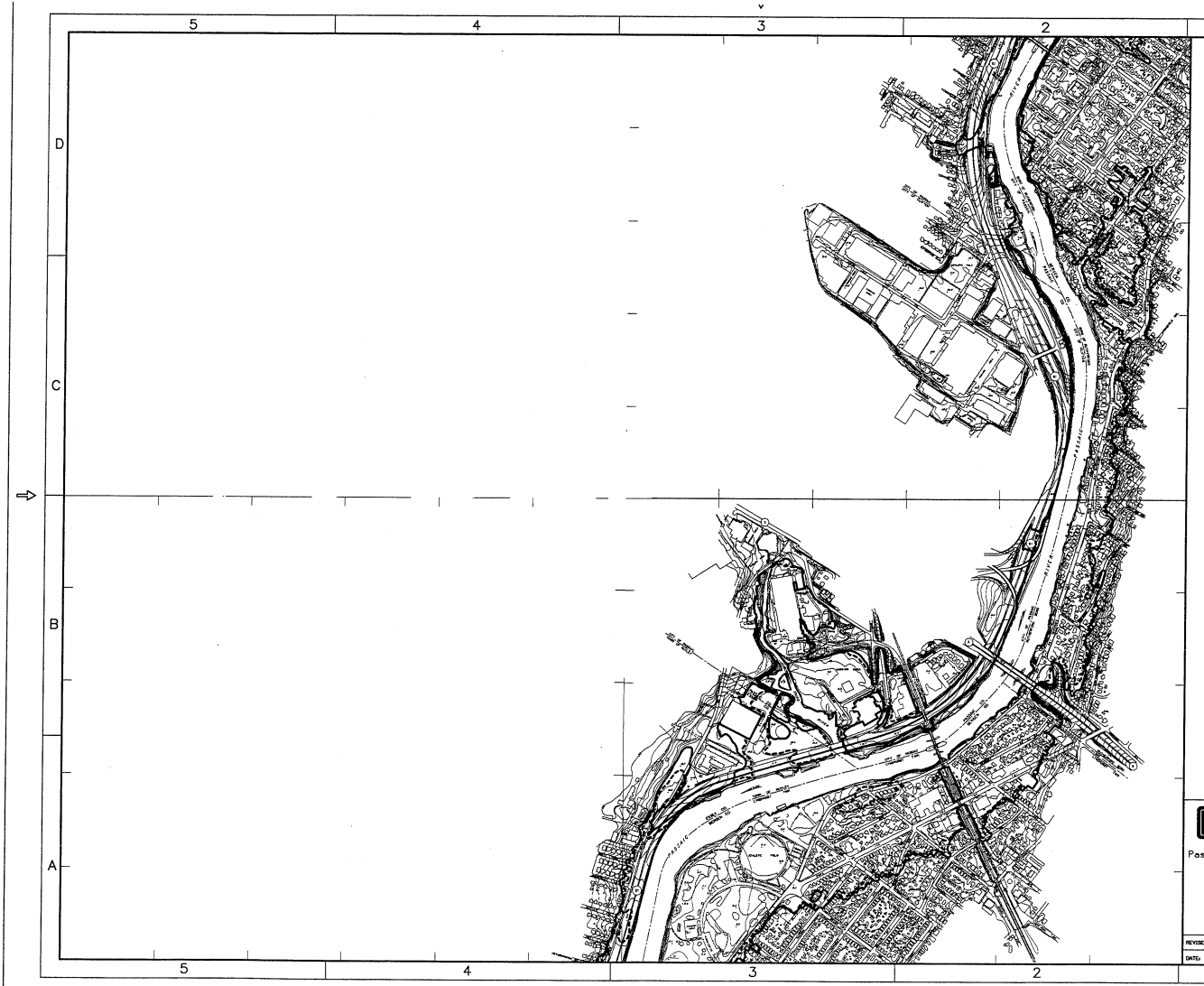
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: | PREPARED BY: | SHEET PS-7



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-9	
	PS-8	
	PS-7	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

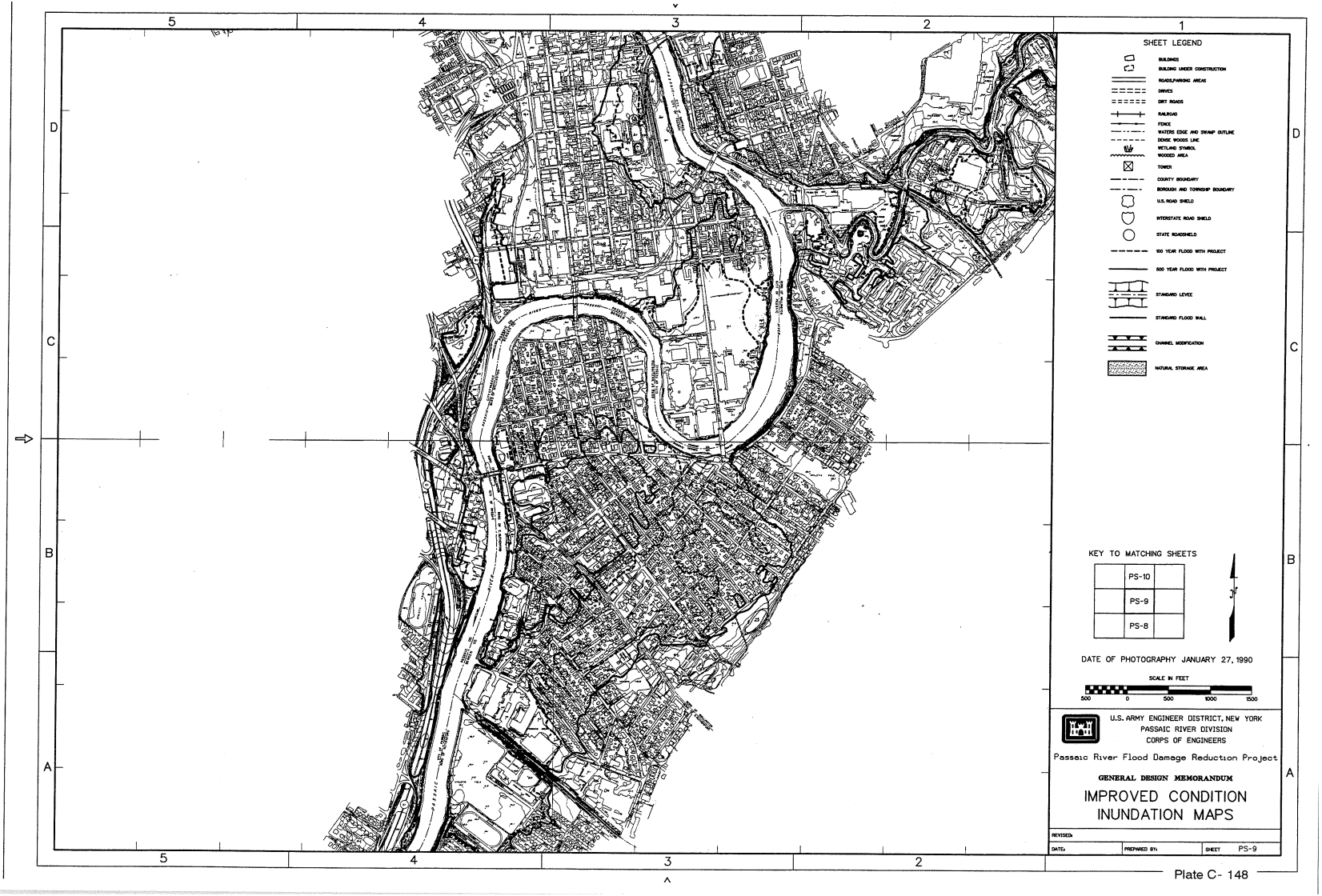
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

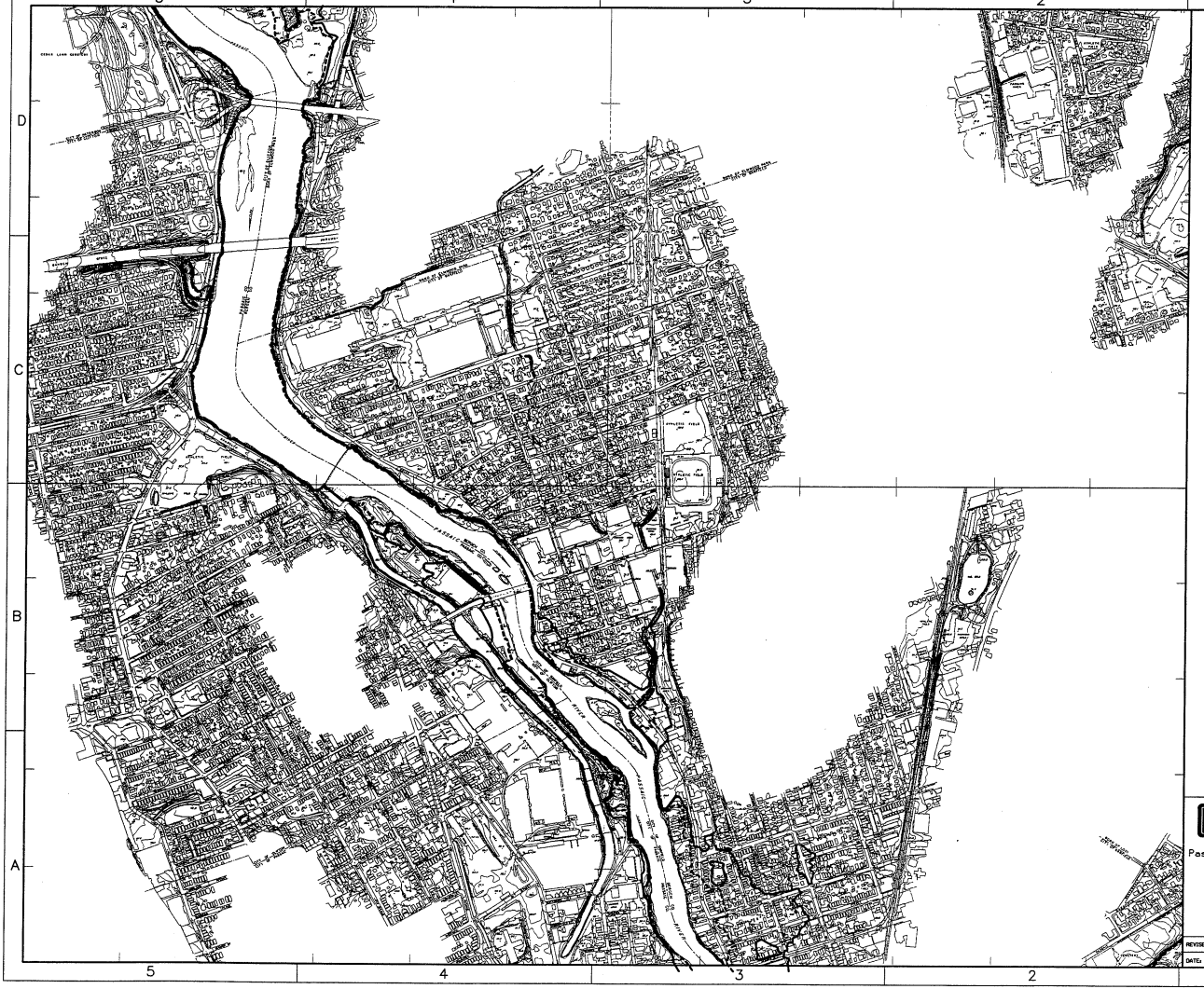
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-8


SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
EDGE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA
KEY TO MATCHING SHEETS
PS-10
PS-9
PS-8
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500 0 500 1000 1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
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SHEET PS-9



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-11	
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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

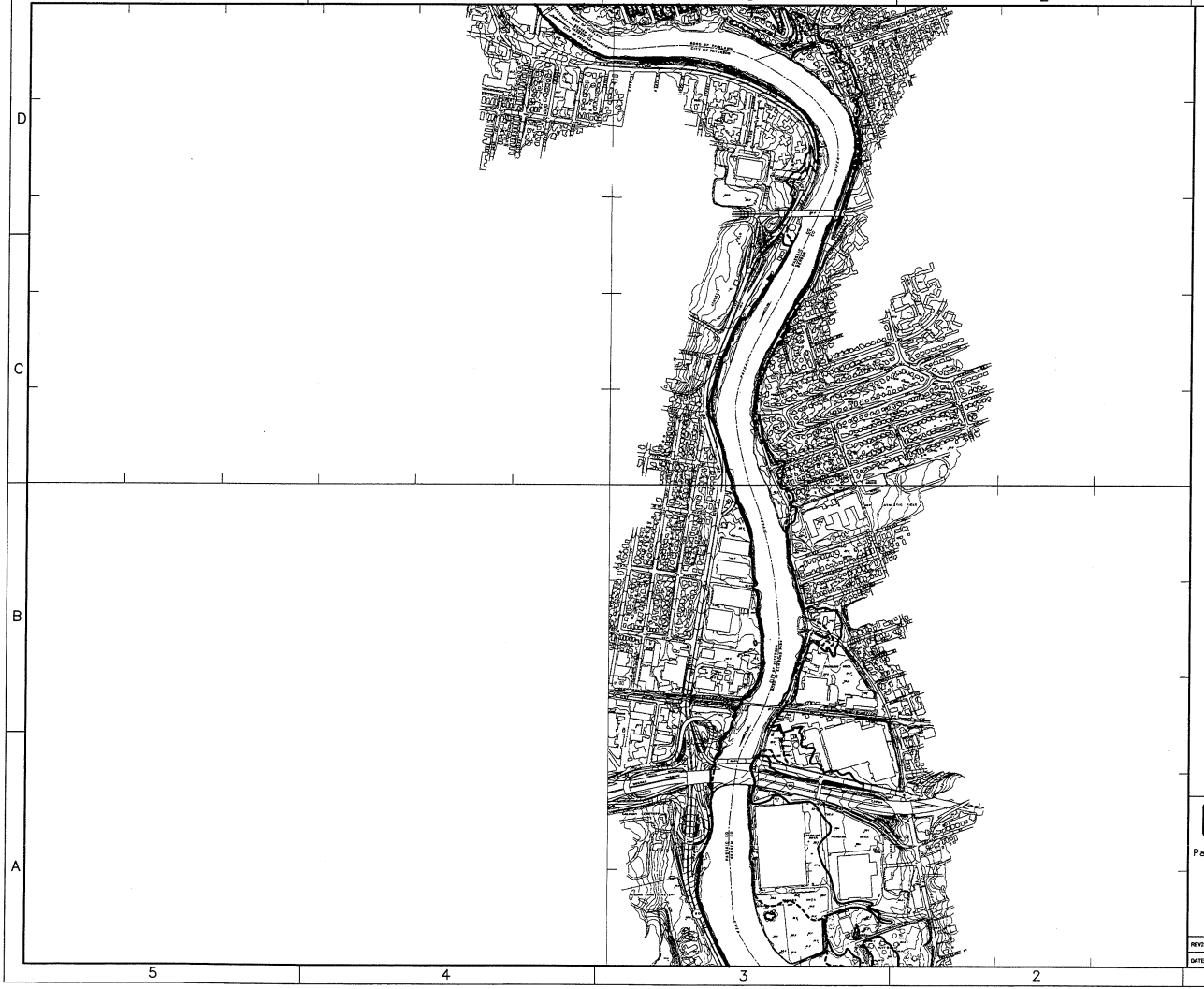
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-10

Plate C- 149



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
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- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

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PS-13	PS-11	
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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

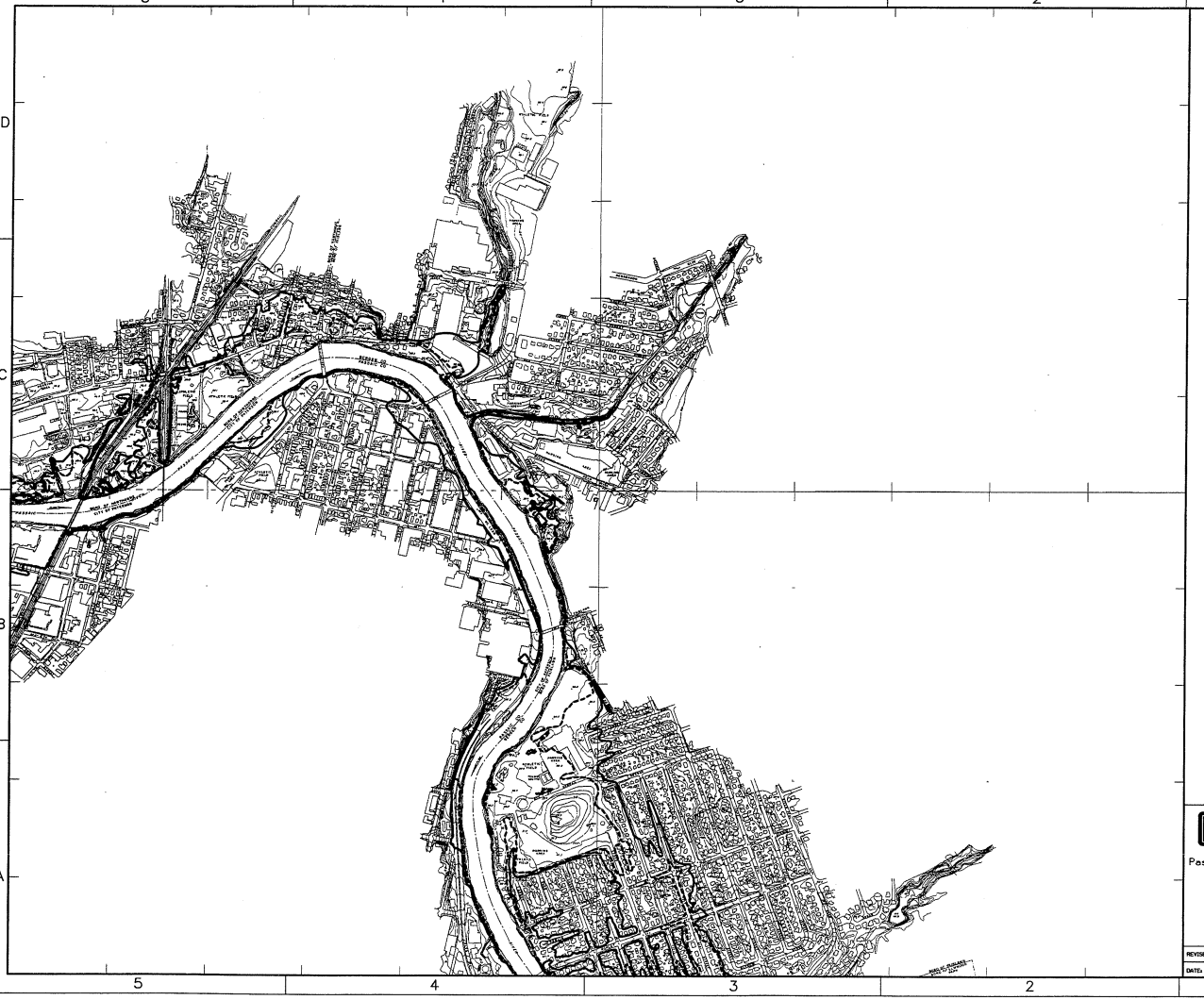
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-11

Plate C- 150



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
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- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

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Plate C- 151



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
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- INTERSTATE ROAD SHIELD
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- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
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	PS-14	PS-12
	PS-13	PS-11
PS-15		PS-10

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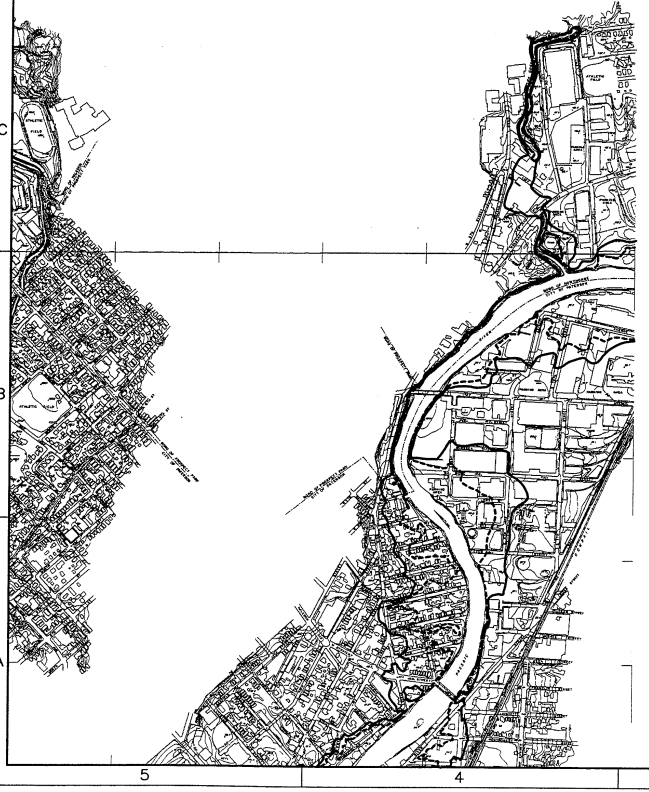
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IMPROVED CONDITION INUNDATION MAPS

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SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
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- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

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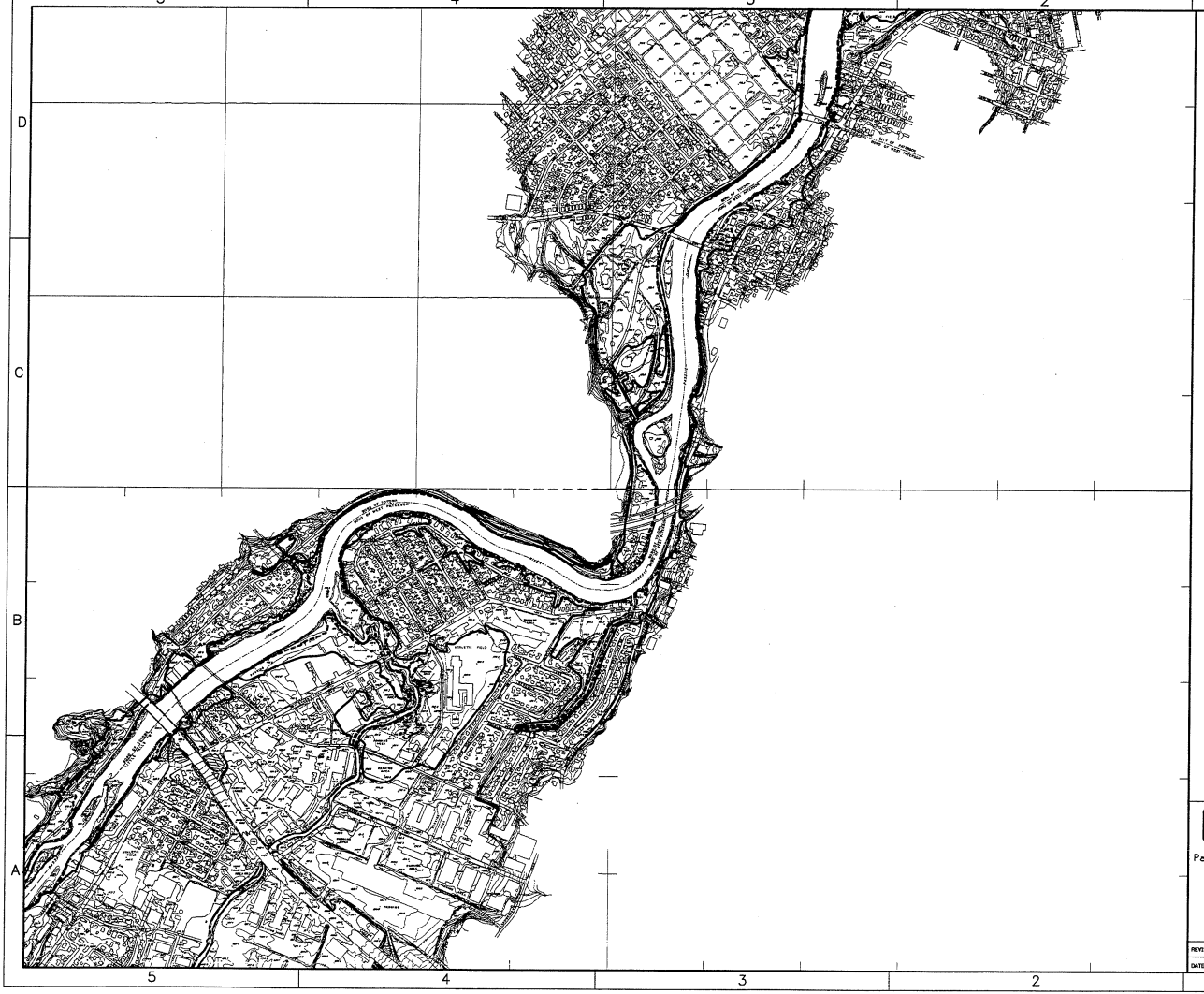
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SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
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- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

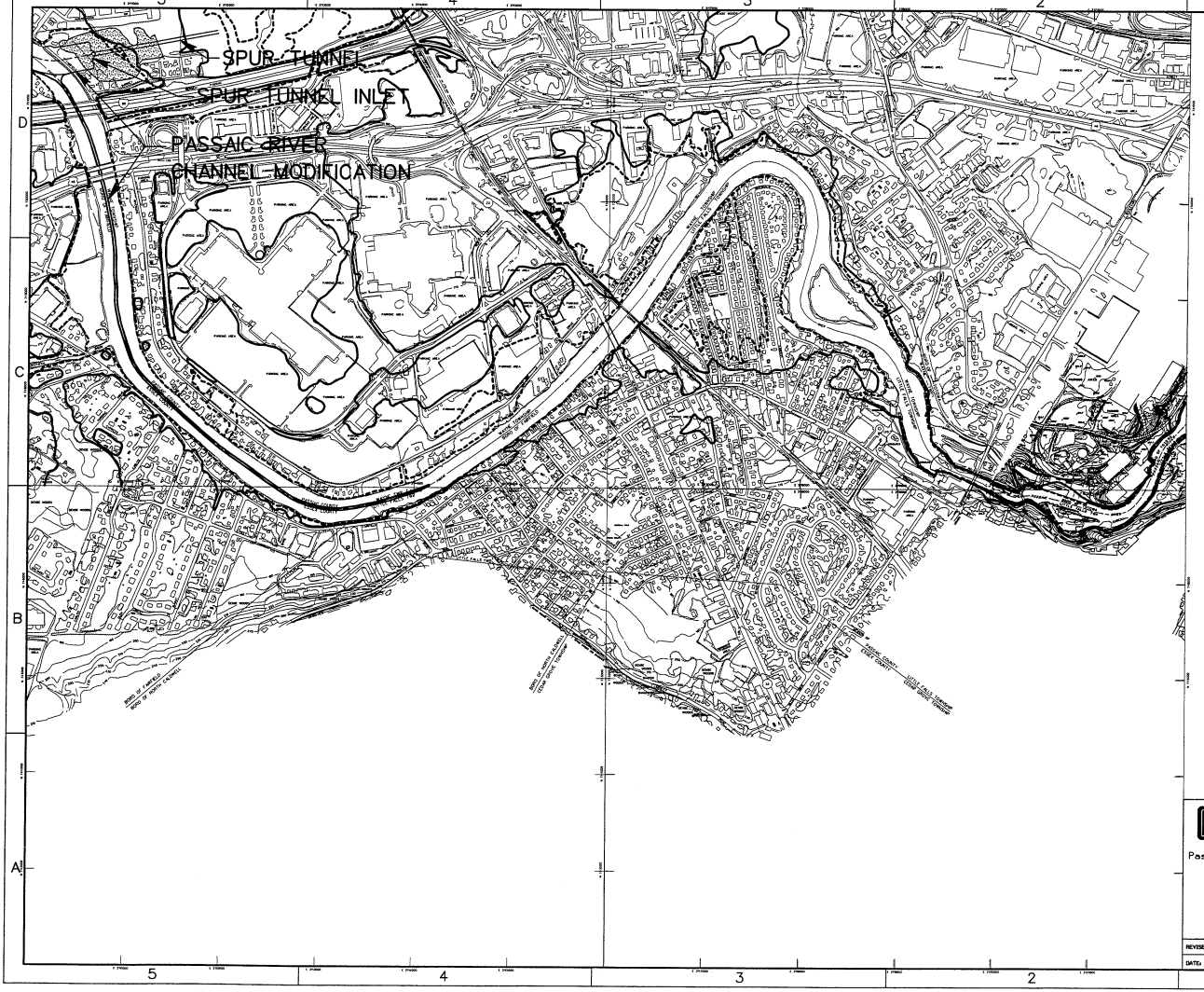
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DATE:	PREPARED BY:	SHEET:	PS-15

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SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- EDGE WOODS LINE
- WETLAND SYMBOL
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- TOWER
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- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

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PS-20	PS-16	PS-15
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PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

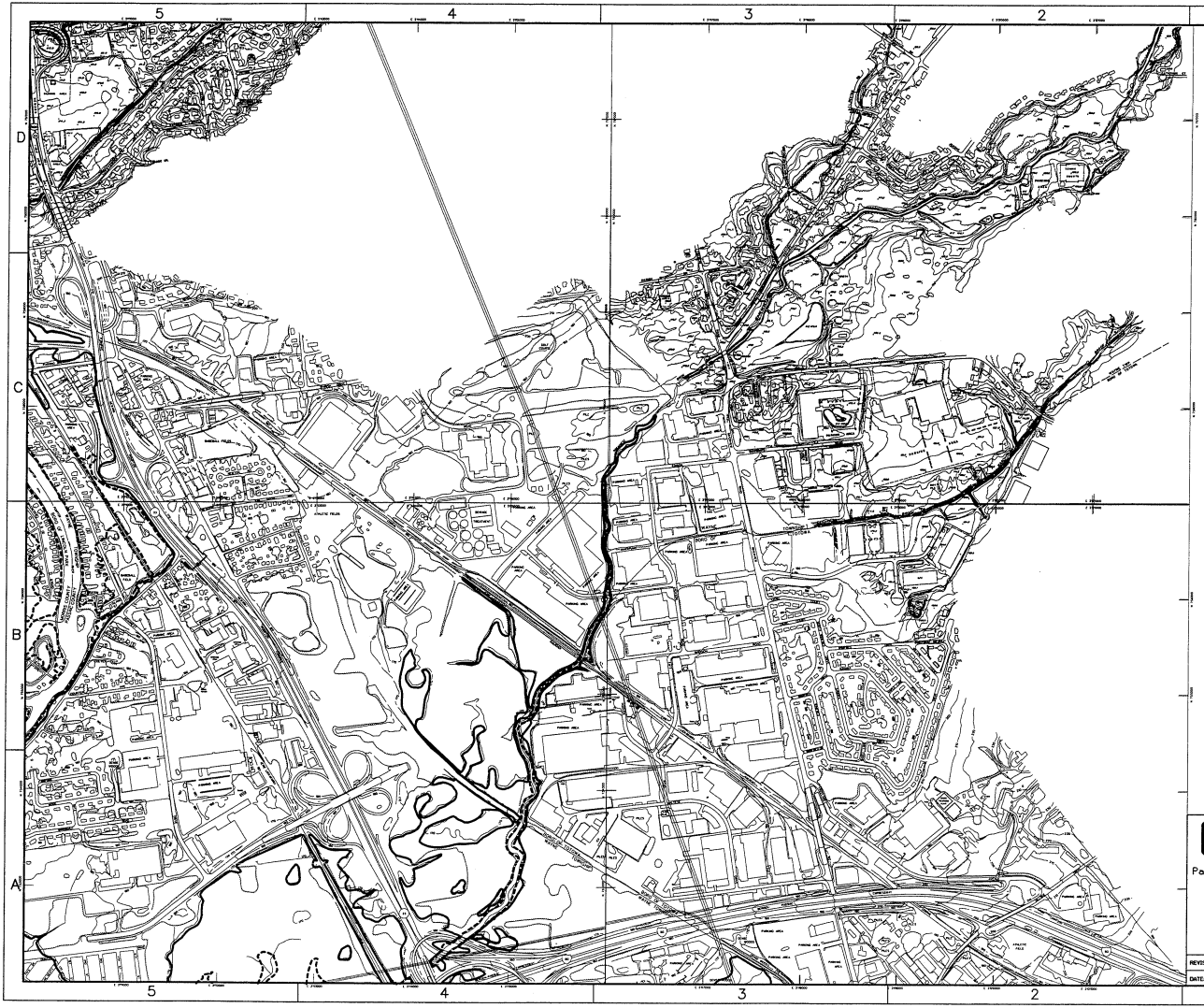
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GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

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Plate C- 155



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
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- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-22	PS-18	
PS-21	PS-17	
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CORPS OF ENGINEERS

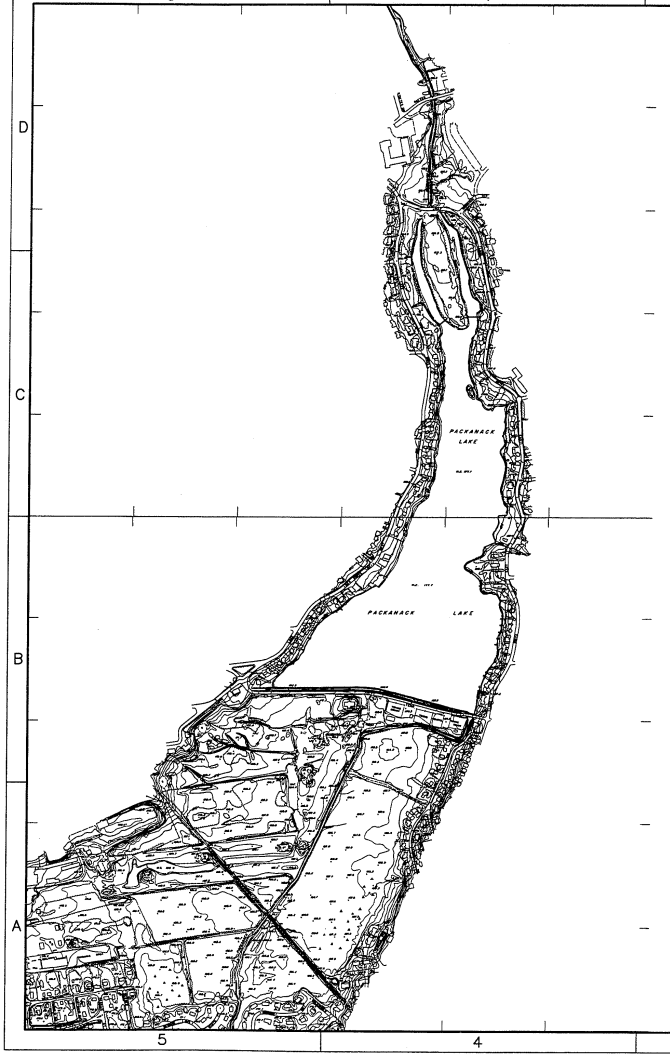
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

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DATE:	PREPARED BY:	SHEET PS-17

Plate C- 156



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
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- BOROUGH AND TOWNSHIP BOUNDARY
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- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-23		
PS-22	PS-18	
PS-21	PS-17	

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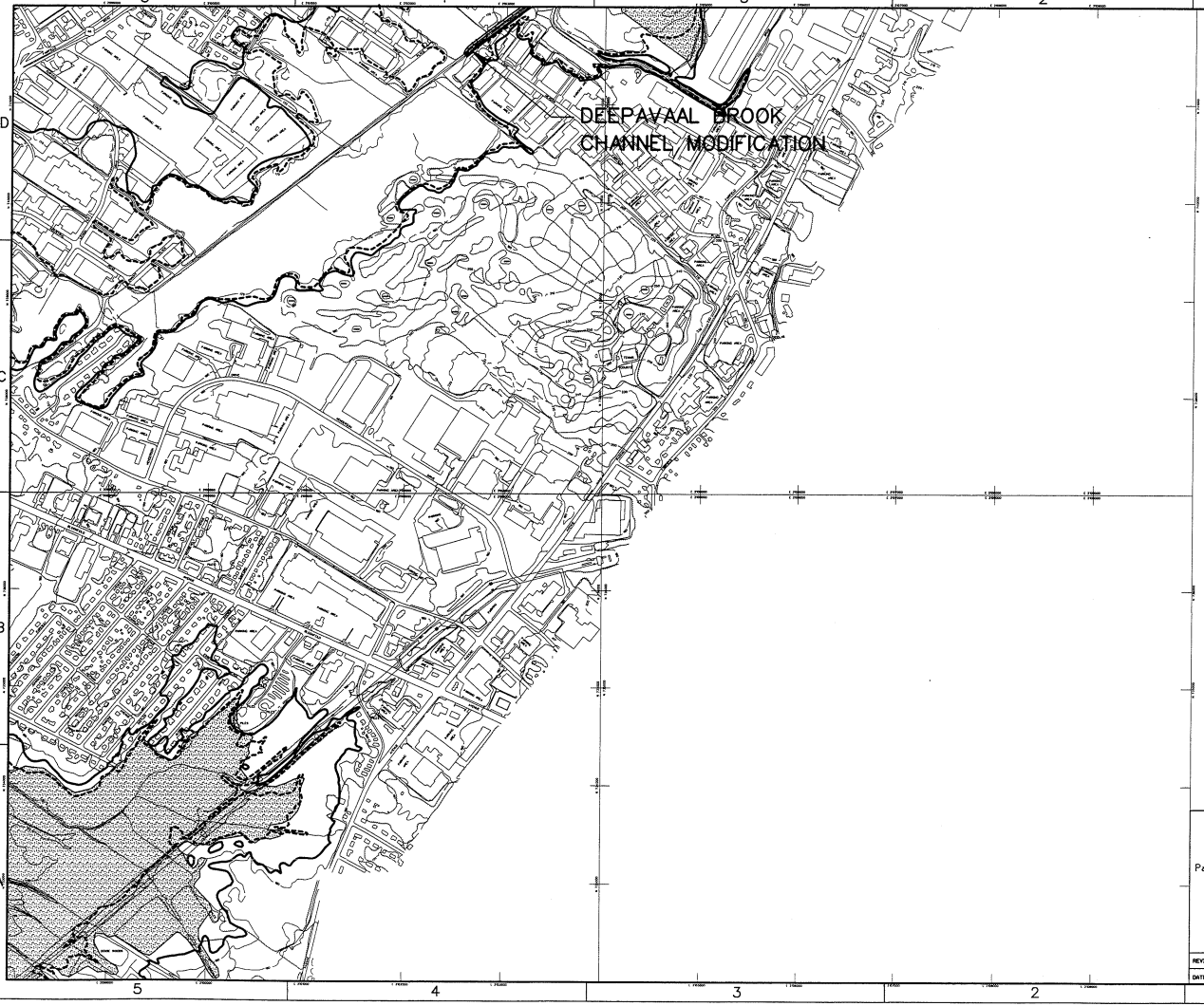
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PASSAIC RIVER DIVISION
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IMPROVED CONDITION INUNDATION MAPS

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SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- EDGE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

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PS-30	PS-19	
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PASSAIC RIVER DIVISION
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Passaic River Flood Damage Reduction Project

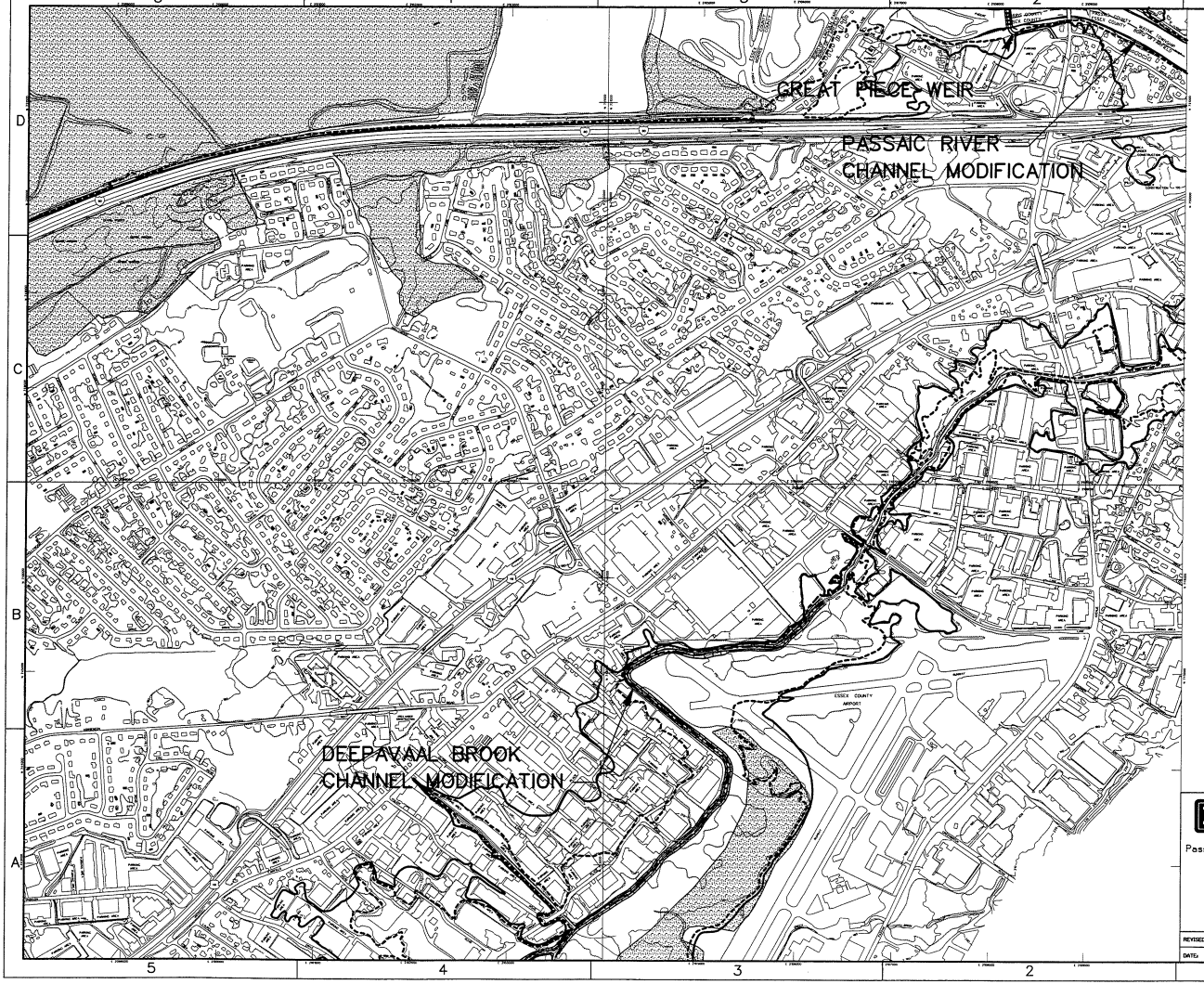
GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

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DATE: PREPARED BY: SHEET PS-19

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SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
EDGE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

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PASSAIC RIVER DIVISION
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Passaic River Flood Damage Reduction Project

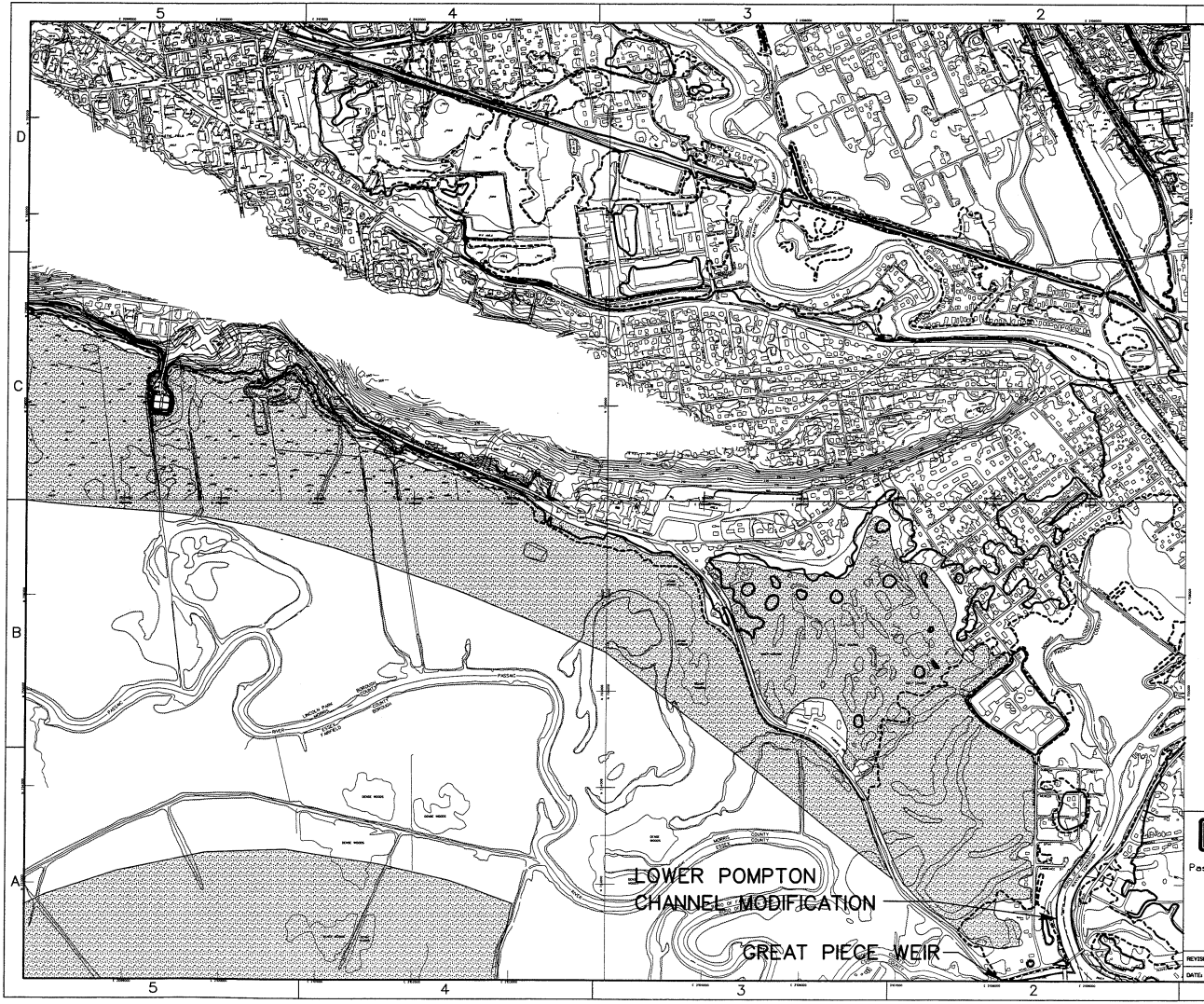
GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

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DATE: PREPARED BY: SHEET PS-20

Plate C- 159



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
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INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

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PS-33	PS-22	PS-18
PS-32	PS-21	PS-17
PS-31	PS-20	PS-16

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Plate C- 160

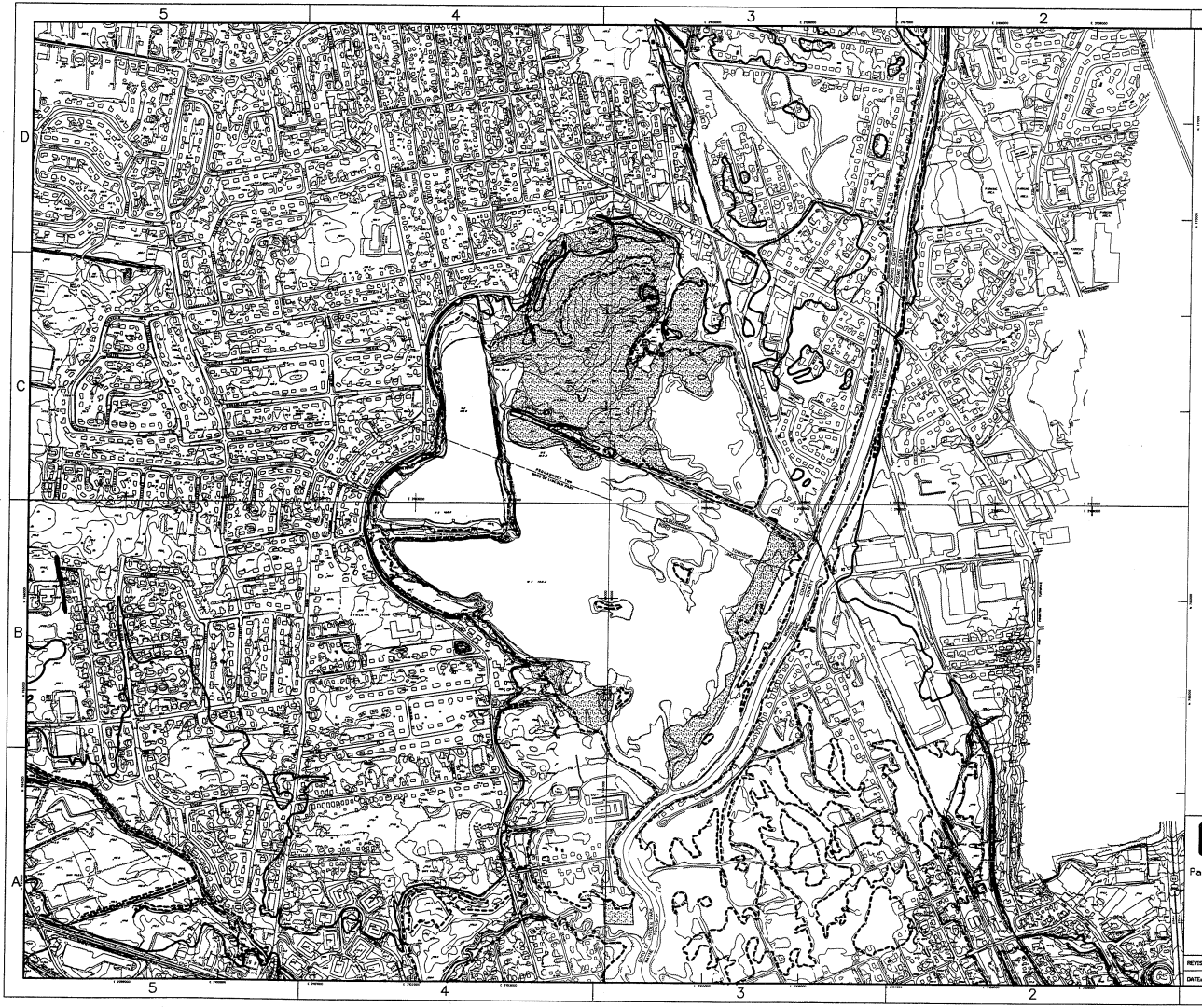
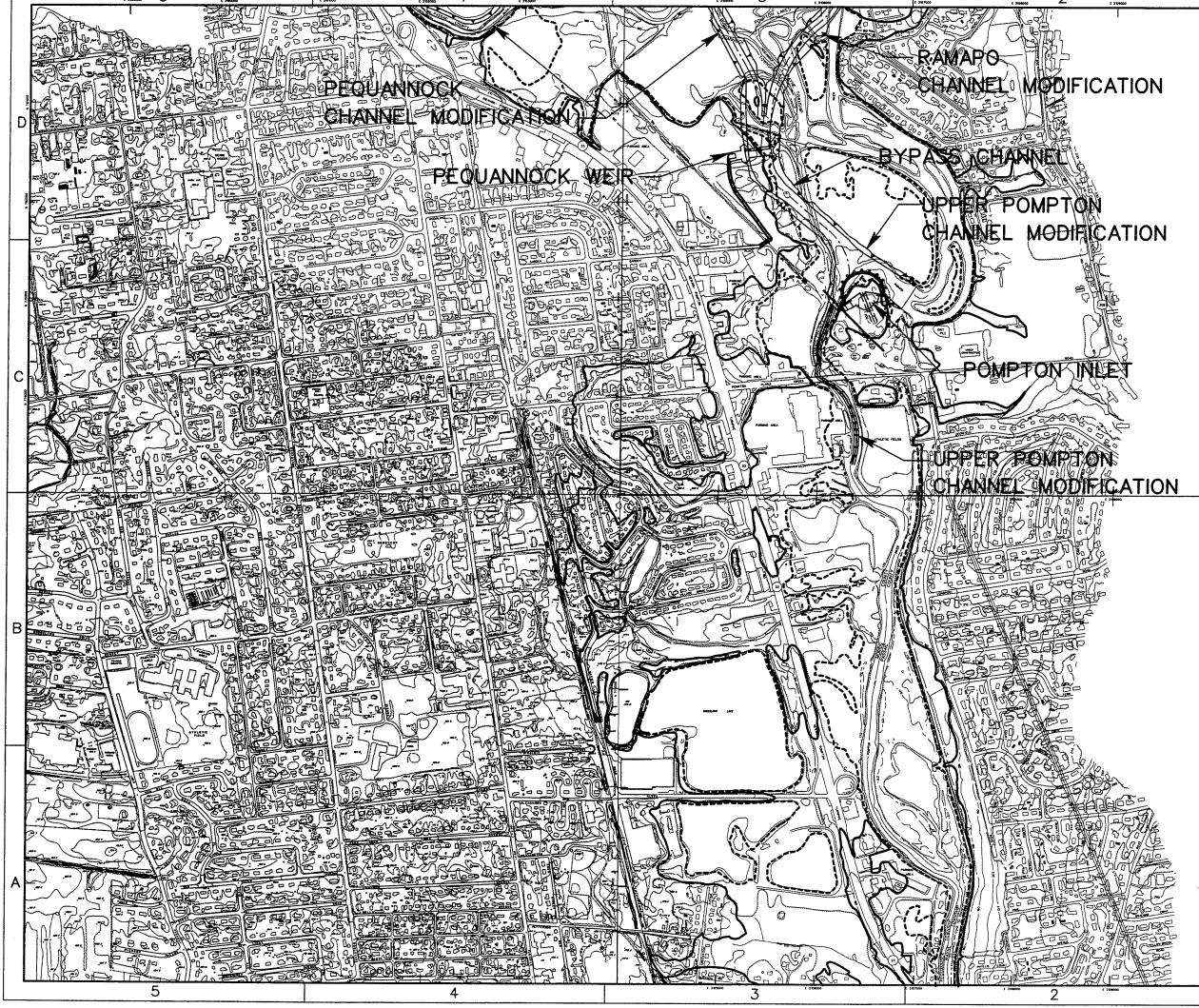

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
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STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
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PS-33 PS-22 PS-18
PS-32 PS-21 PS-17
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SHEET PS-22

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SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
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- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
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	PS-24	
PS-34	PS-23	
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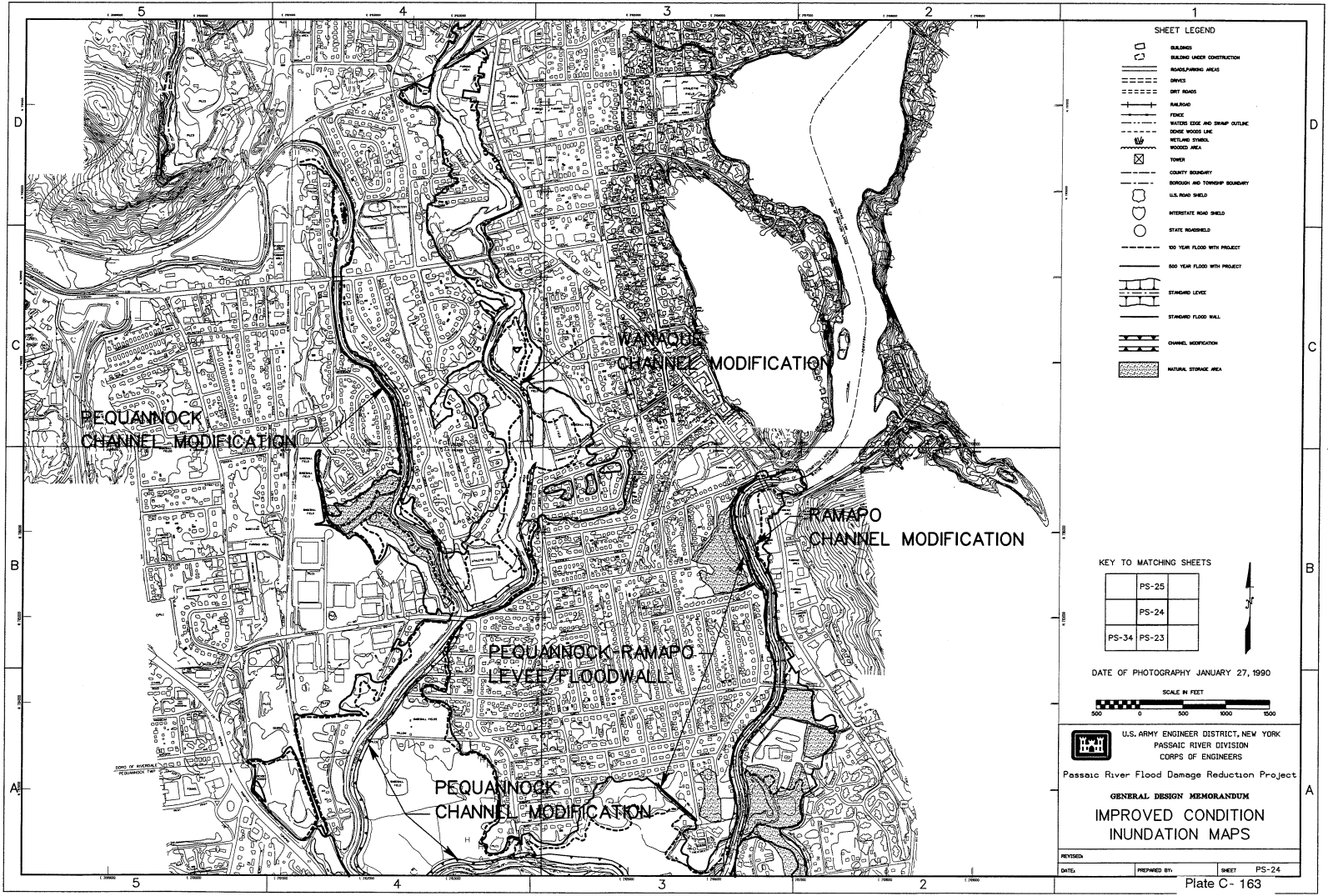
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Plate C- 162


WANAQUE
CHANNEL MODIFICATION
PEQUANNOCK
CHANNEL MODIFICATION
RAMAPO
CHANNEL MODIFICATION
PEQUANNOCK-RAMAPO
LEVEE/FLOODWALL
PEQUANNOCK
CHANNEL MODIFICATION
SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
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U.S. ROAD SHIELD
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100 YEAR FLOOD WITH PROJECT
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STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA
KEY TO MATCHING SHEETS
PS-25
PS-24
PS-34
PS-23
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U.S. ARMY ENGINEER DISTRICT, NEW YORK
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CORPS OF ENGINEERS
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PREPARED BY:
SHEET PS-24



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
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- RAILROAD
- FENCE
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- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-25

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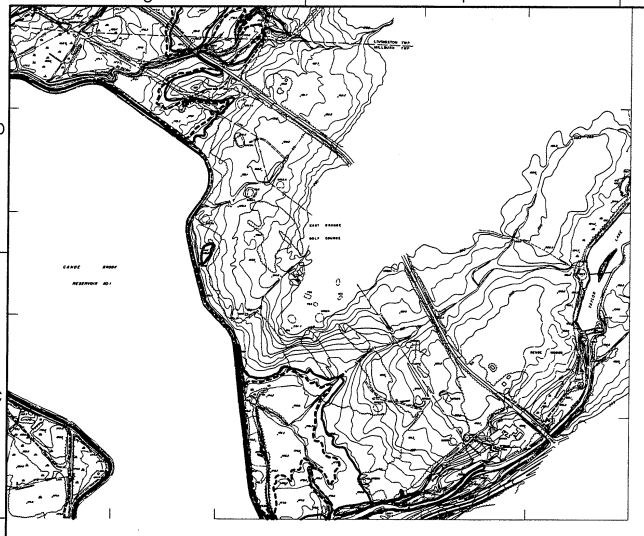
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-25

Plate C- 164



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-36	PS-27	
PS-35	PS-26	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

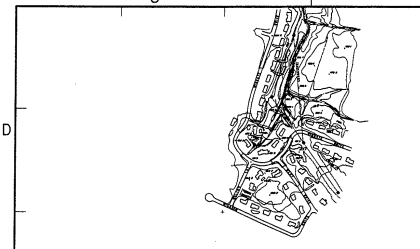
GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: PREPARED BY: SHEET PS-26

Plate C- 165





SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-37	PS-28	
PS-36	PS-27	
PS-35	PS-26	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

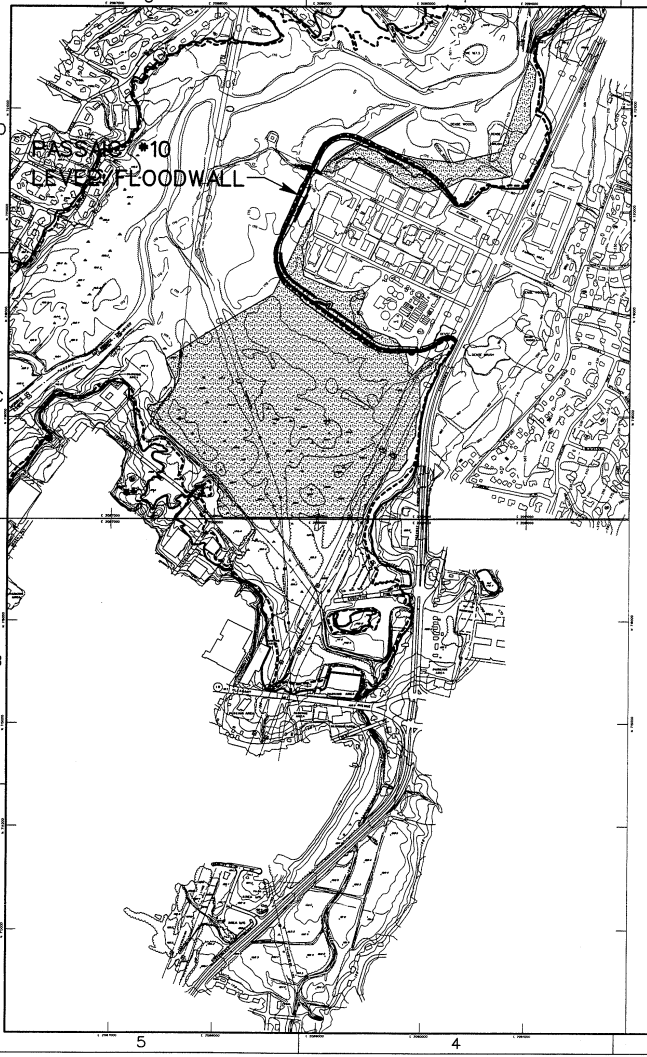
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: PREPARED BY: SHEET PS-27



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
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- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-38	PS-29	
PS-37	PS-28	
PS-36	PS-27	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

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500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

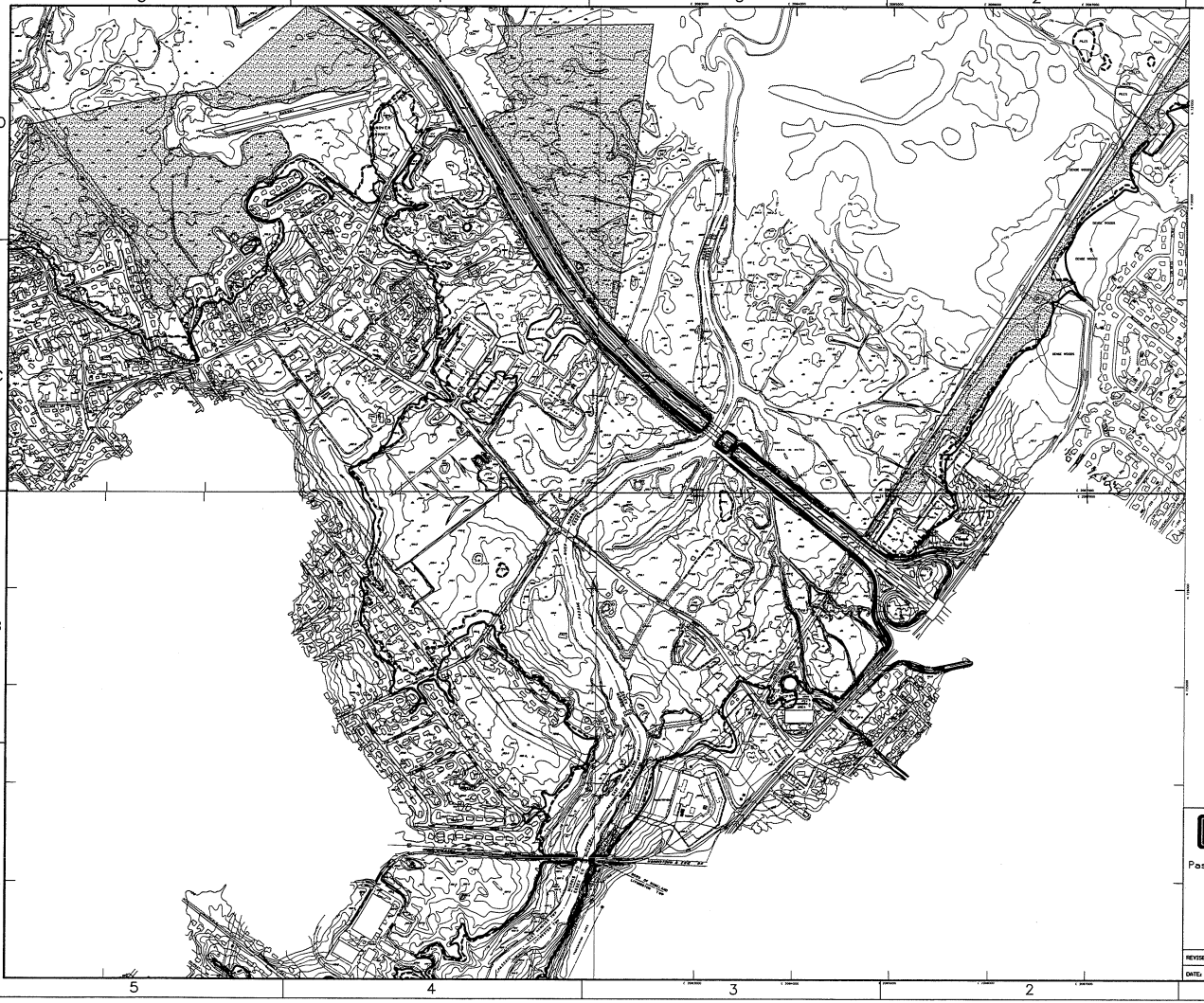
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:			
DATE:		PREPARED BY:	SHEET PS-28

Plate C- 167



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-39	PS-30	PS-19
PS-38	PS-29	
PS-37	PS-28	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

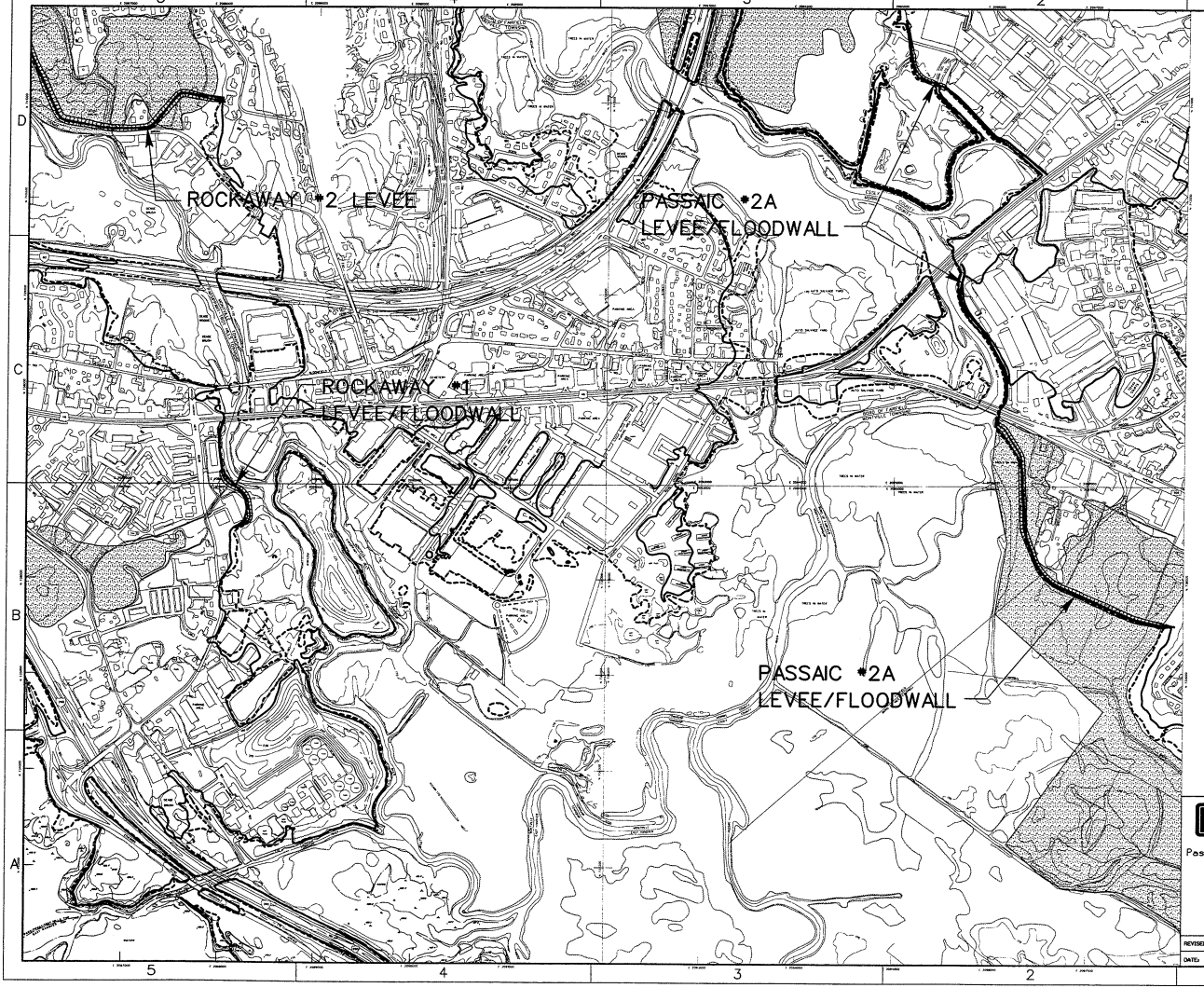
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED			
DATE:		PREPARED BY:	SHEET PS-29

Plate C- 168



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-40	PS-31	PS-20
PS-39	PS-30	PS-19
PS-38	PS-29	

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

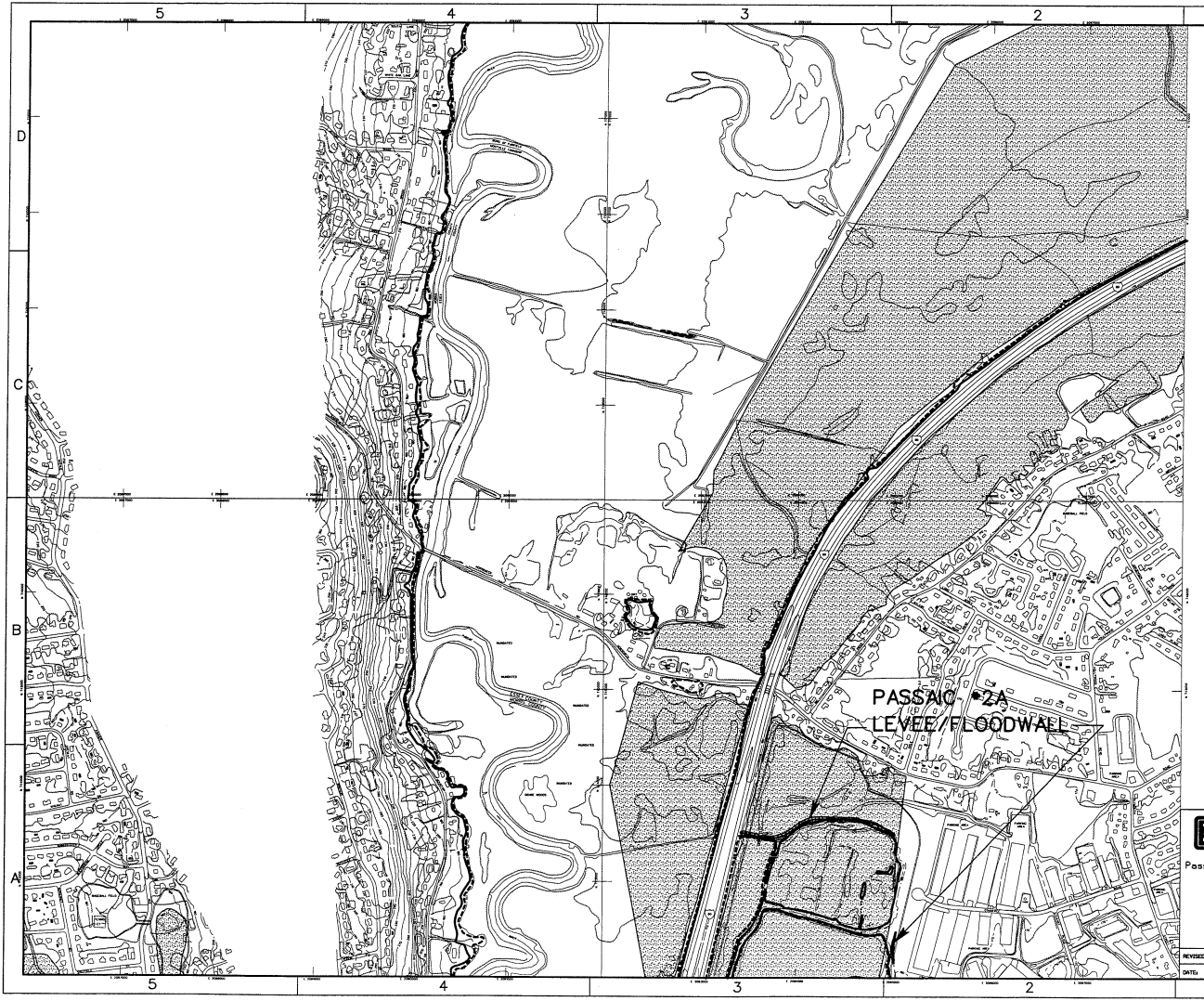
GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: PREPARED BY: SHEET PS-30

Plate C- 169



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-32	PS-21
PS-40	PS-31	PS-20
PS-39	PS-30	PS-19

DATE OF PHOTOGRAPHY JANUARY 27, 1990

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500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:			
DATE:	PREPARED BY:	SHEET	PS-31

Plate C- 170

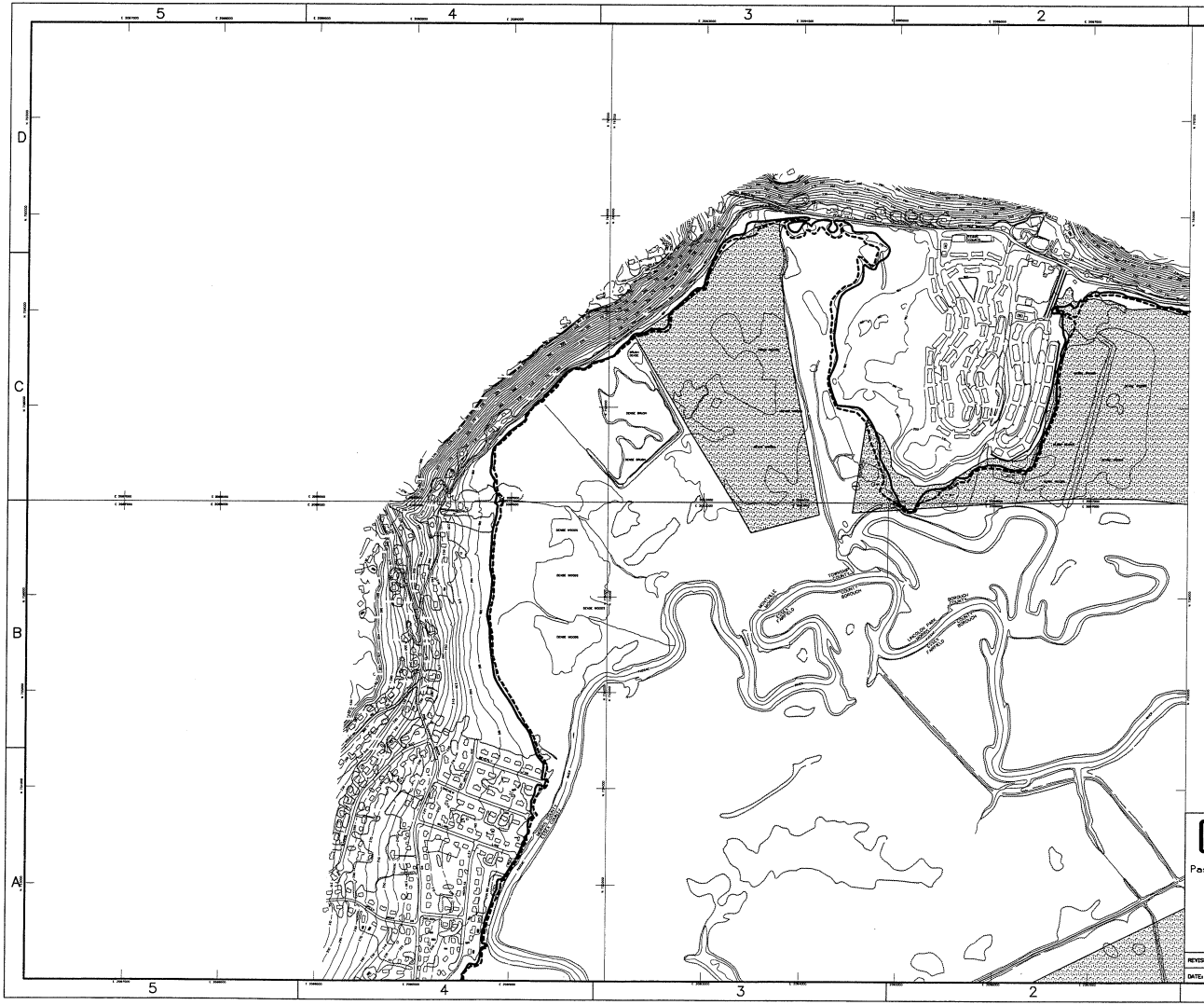

SHEET LEGEND
BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
EDGE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA
KEY TO MATCHING SHEETS
PS-33
PS-22
PS-32
PS-21
PS-40
PS-31
PS-20
DATE OF PHOTOGRAPHY JANUARY 27, 1990
SCALE IN FEET
500
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500
1000
1500
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS
Passaic River Flood Damage Reduction Project
GENERAL DESIGN MEMORANDUM
IMPROVED CONDITION
INUNDATION MAPS
REVISED:
DATE:
PREPARED BY:
SHEET
PS-32

Plate C- 171



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-34	PS-23
	PS-33	PS-22
	PS-32	PS-21

DATE OF PHOTOGRAPHY JANUARY 27, 1990

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500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:
DATE: PREPARED BY: SHEET PS-33

Plate C- 172



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- EDGE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
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- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

		PS-24
	PS-34	PS-23
	PS-33	PS-22

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

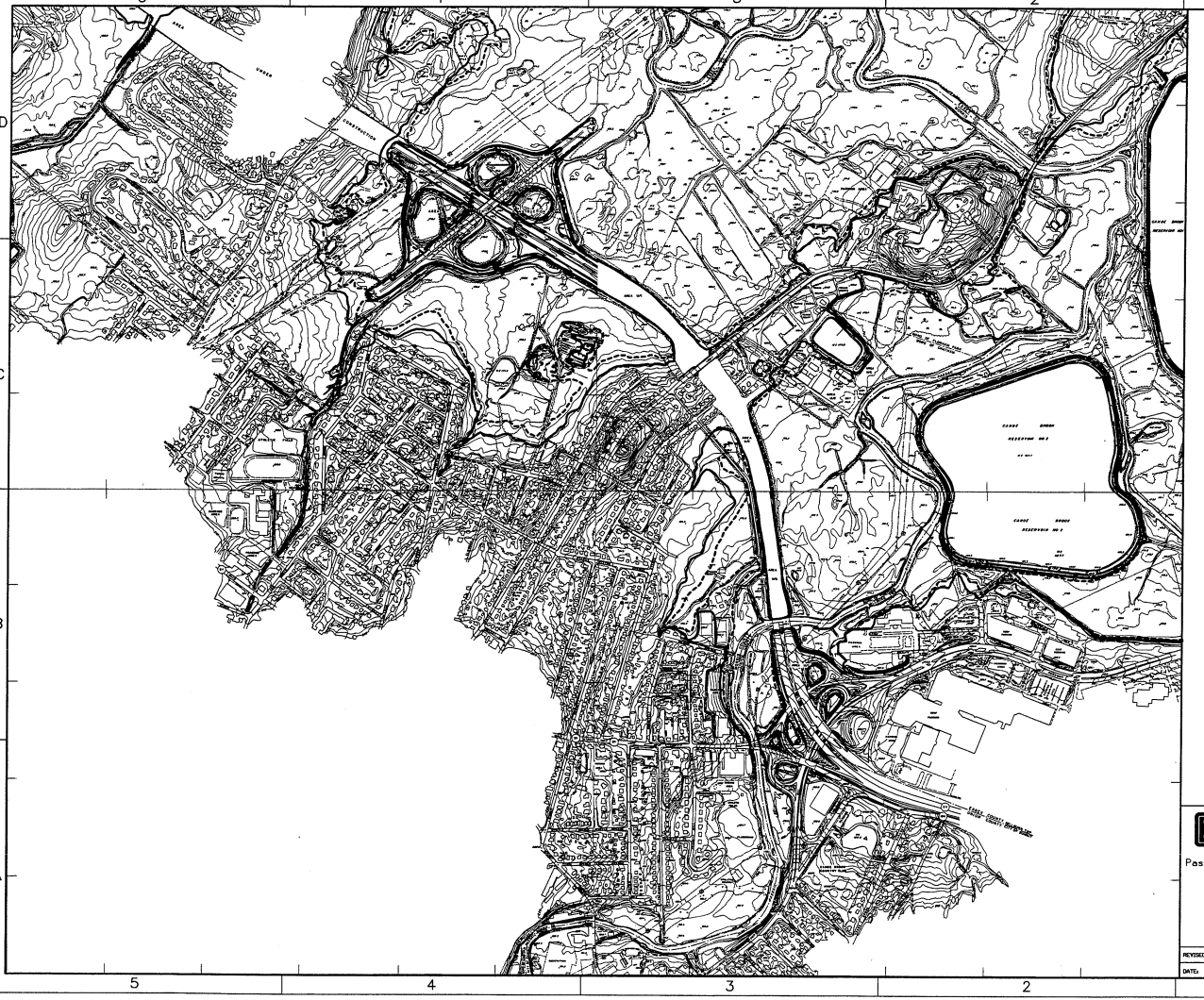
GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: PREPARED BY: SHEET PS-34

Plate C- 173



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-36	PS-27
	PS-35	PS-26

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

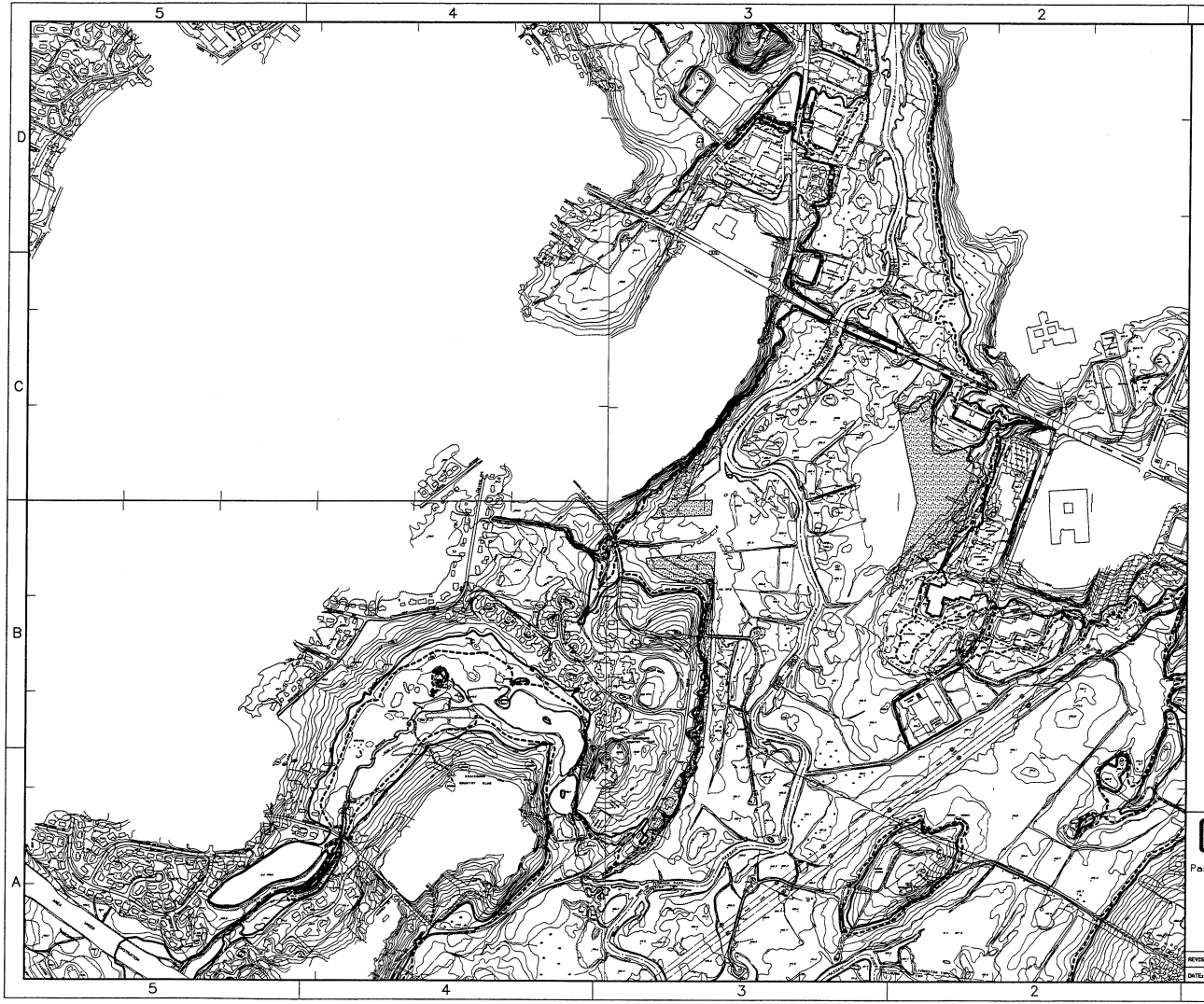
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-35

Plate C- 174



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-41	PS-37	PS-28
	PS-36	PS-27
	PS-35	PS-26

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET
500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

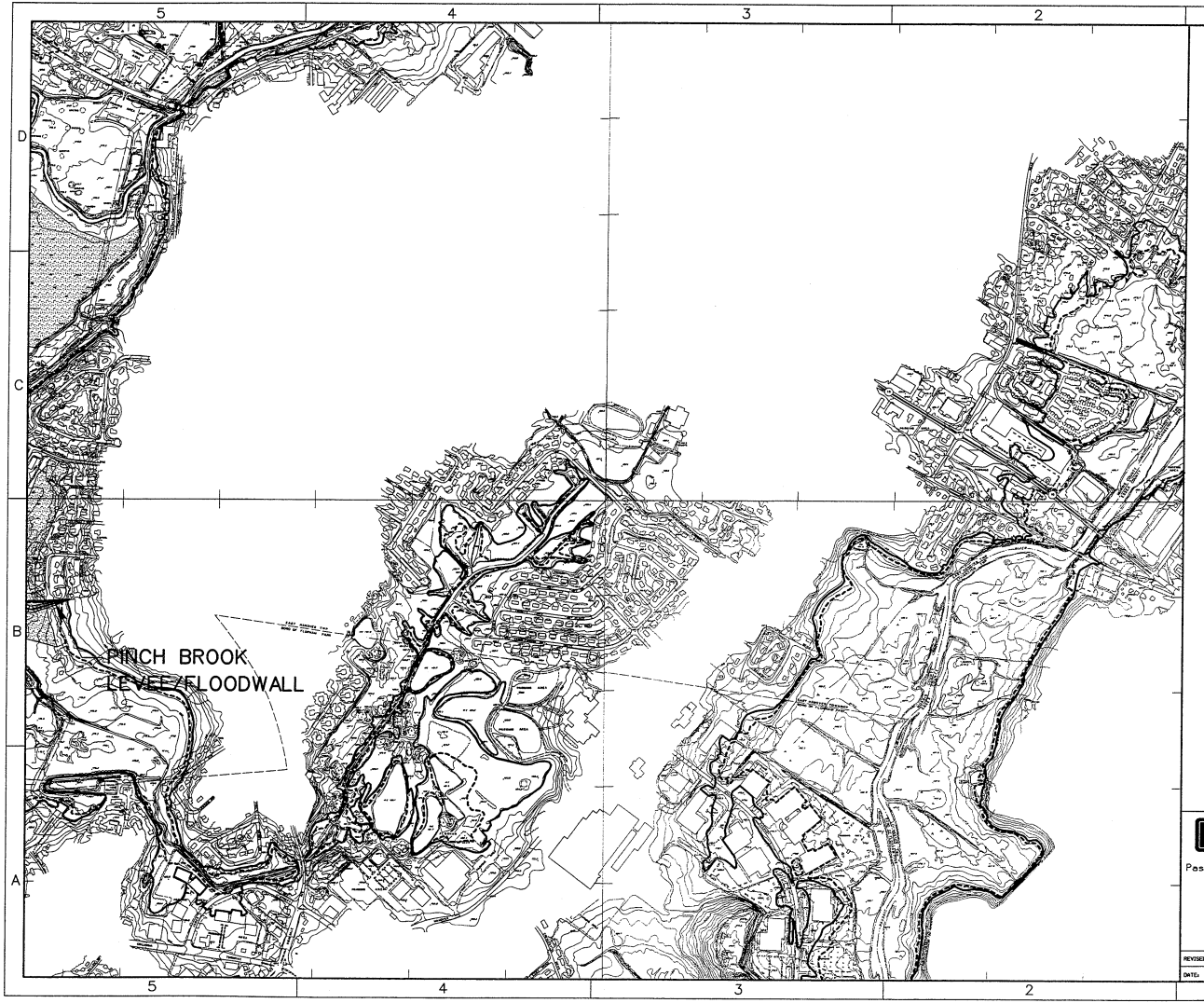
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:			
DATE:	PREPARED BY:	SHEET	PS-36

Plate C- 175



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

PS-42	PS-38	PS-29
PS-41	PS-37	PS-28
	PS-36	PS-27

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

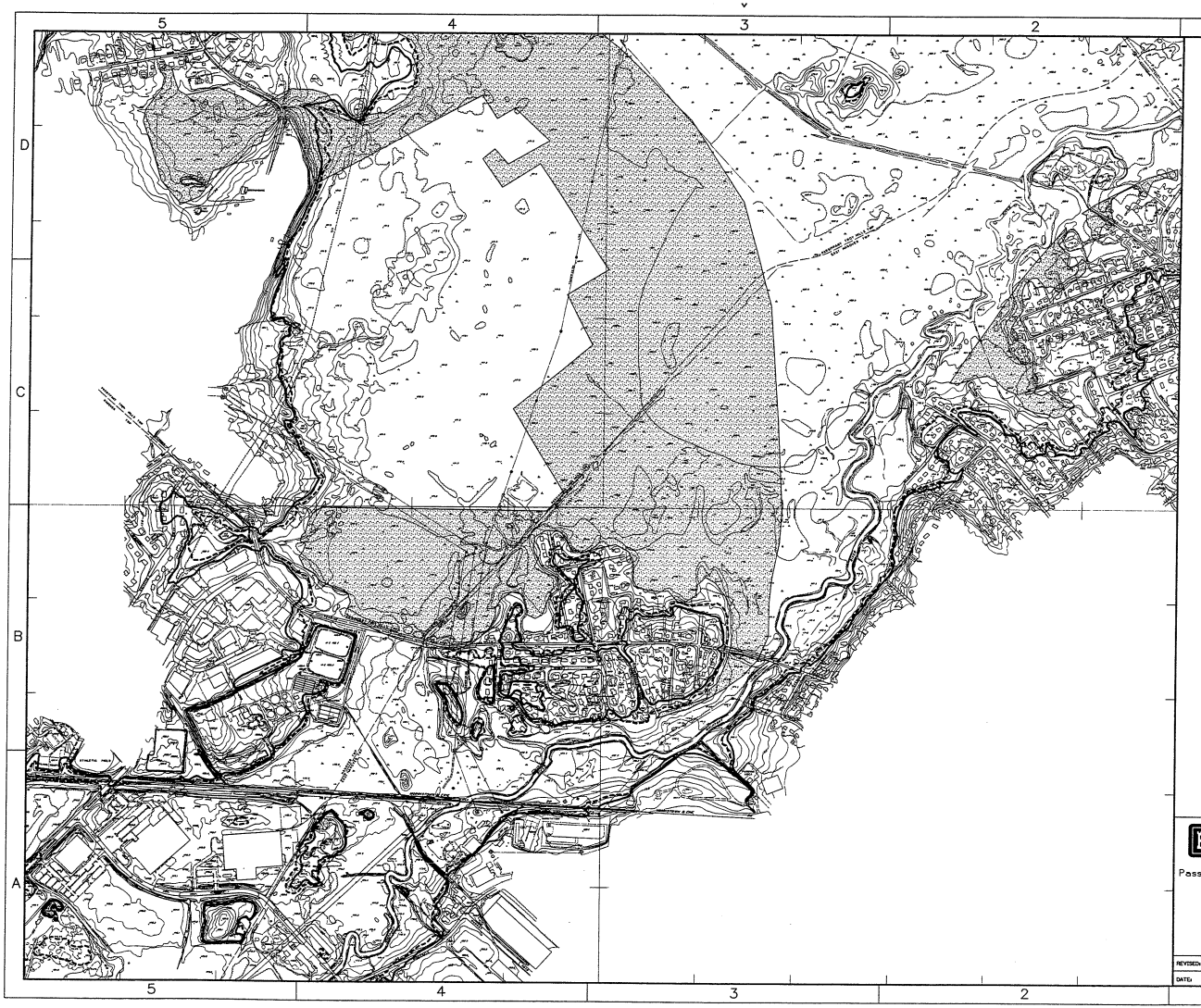
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-37

Plate C- 176



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS/PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- DENSE WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
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- COUNTY BOUNDARY
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- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-39	PS-30
PS-42	PS-38	PS-29
PS-41	PS-37	PS-28

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

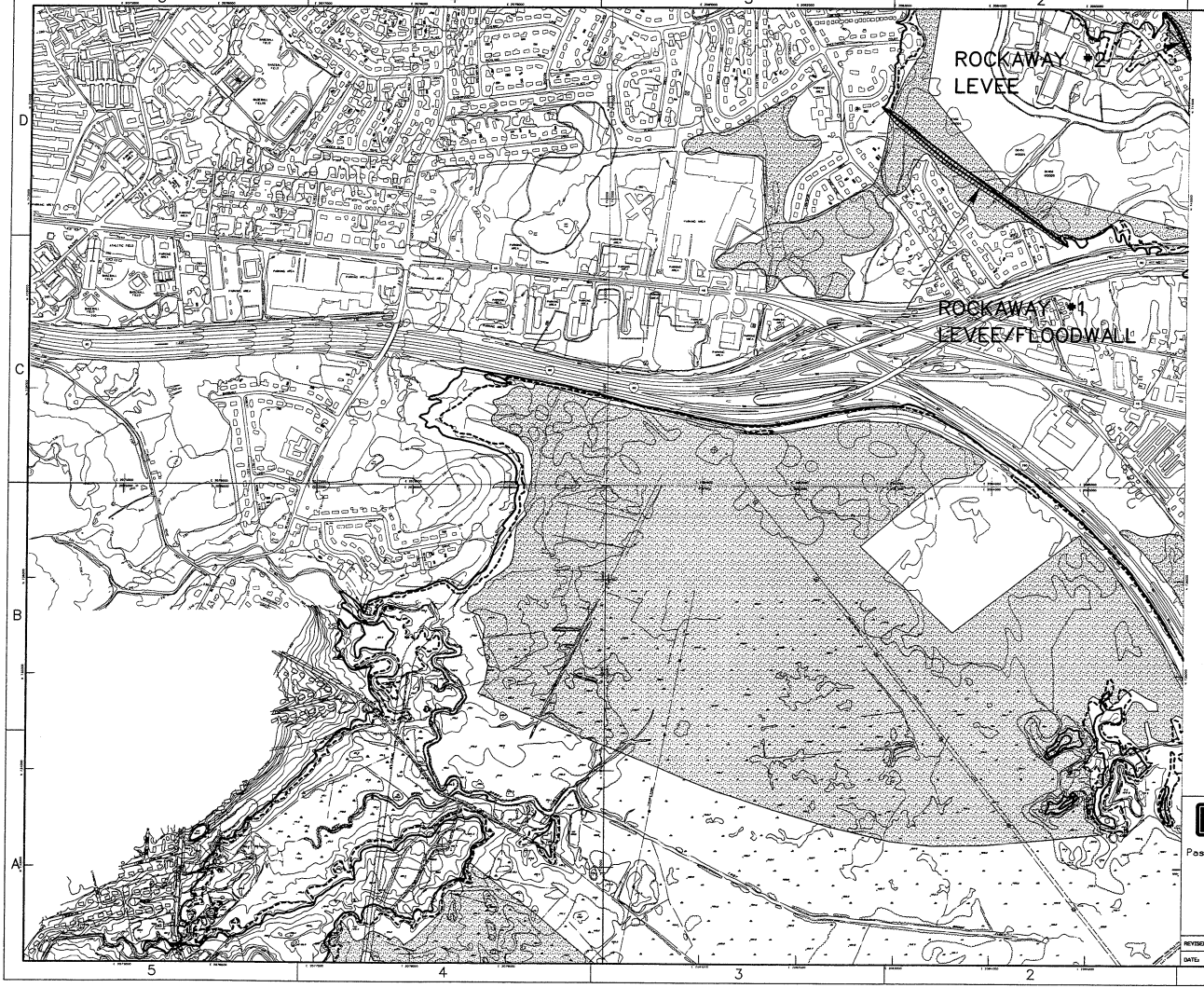
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-38

Plate C- 177



SHEET LEGEND

- BUILDINGS
- BUILDING UNDER CONSTRUCTION
- ROADS,PARKING AREAS
- DRIVES
- DIRT ROADS
- RAILROAD
- FENCE
- WATERS EDGE AND SWAMP OUTLINE
- BRUSH WOODS LINE
- WETLAND SYMBOL
- WOODED AREA
- TOWER
- COUNTY BOUNDARY
- BOROUGH AND TOWNSHIP BOUNDARY
- U.S. ROAD SHIELD
- INTERSTATE ROAD SHIELD
- STATE ROADSHIELD
- 100 YEAR FLOOD WITH PROJECT
- 500 YEAR FLOOD WITH PROJECT
- STANDARD LEVEE
- STANDARD FLOOD WALL
- CHANNEL MODIFICATION
- NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-40	PS-31
	PS-39	PS-30
PS-42	PS-38	PS-29

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET

500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

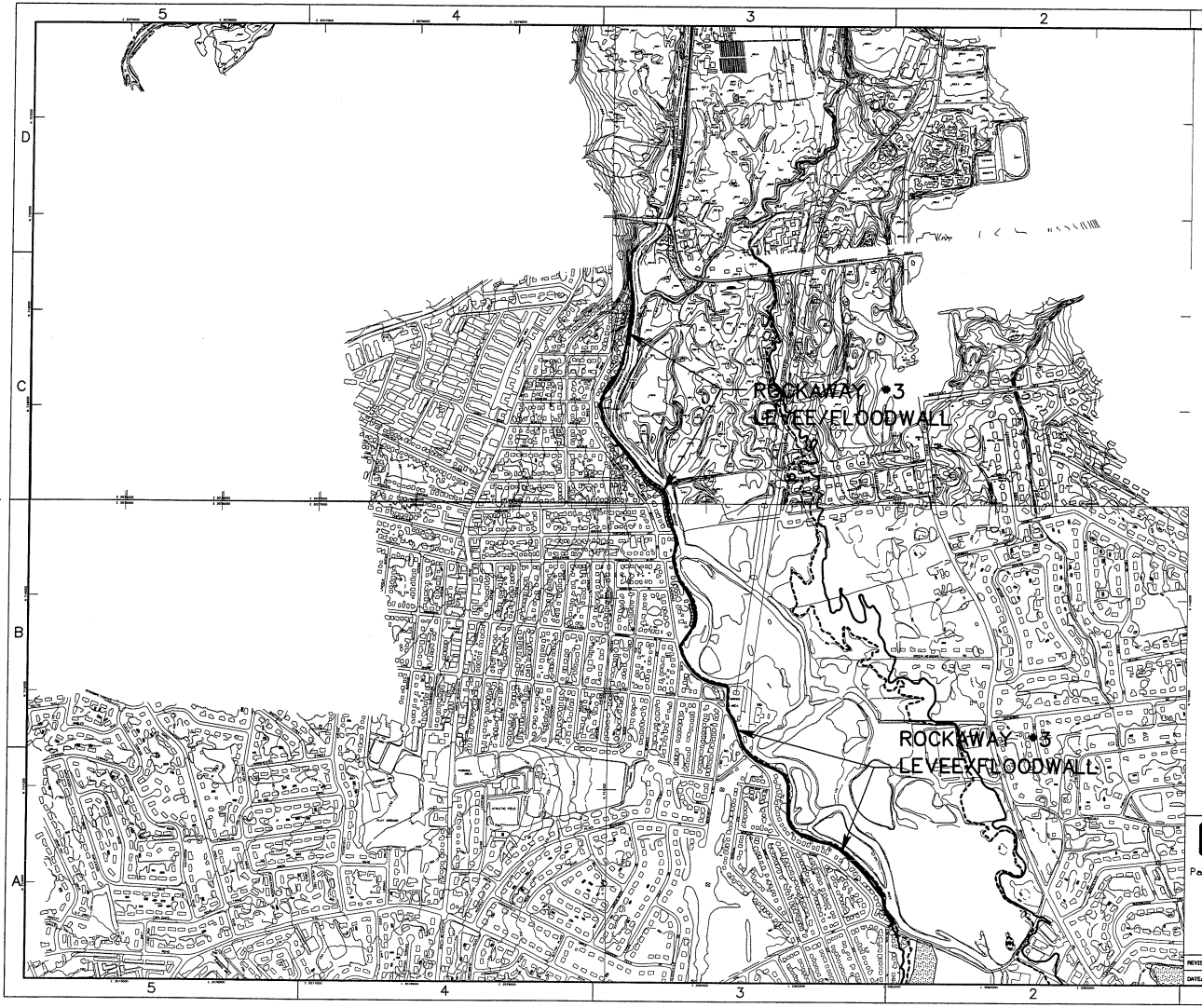
Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:			
DATE:	PREPARED BY:	SHEET	PS-39

Plate C- 178



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

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	PS-40	PS-31
	PS-39	PS-30

DATE OF PHOTOGRAPHY JANUARY 27, 1990

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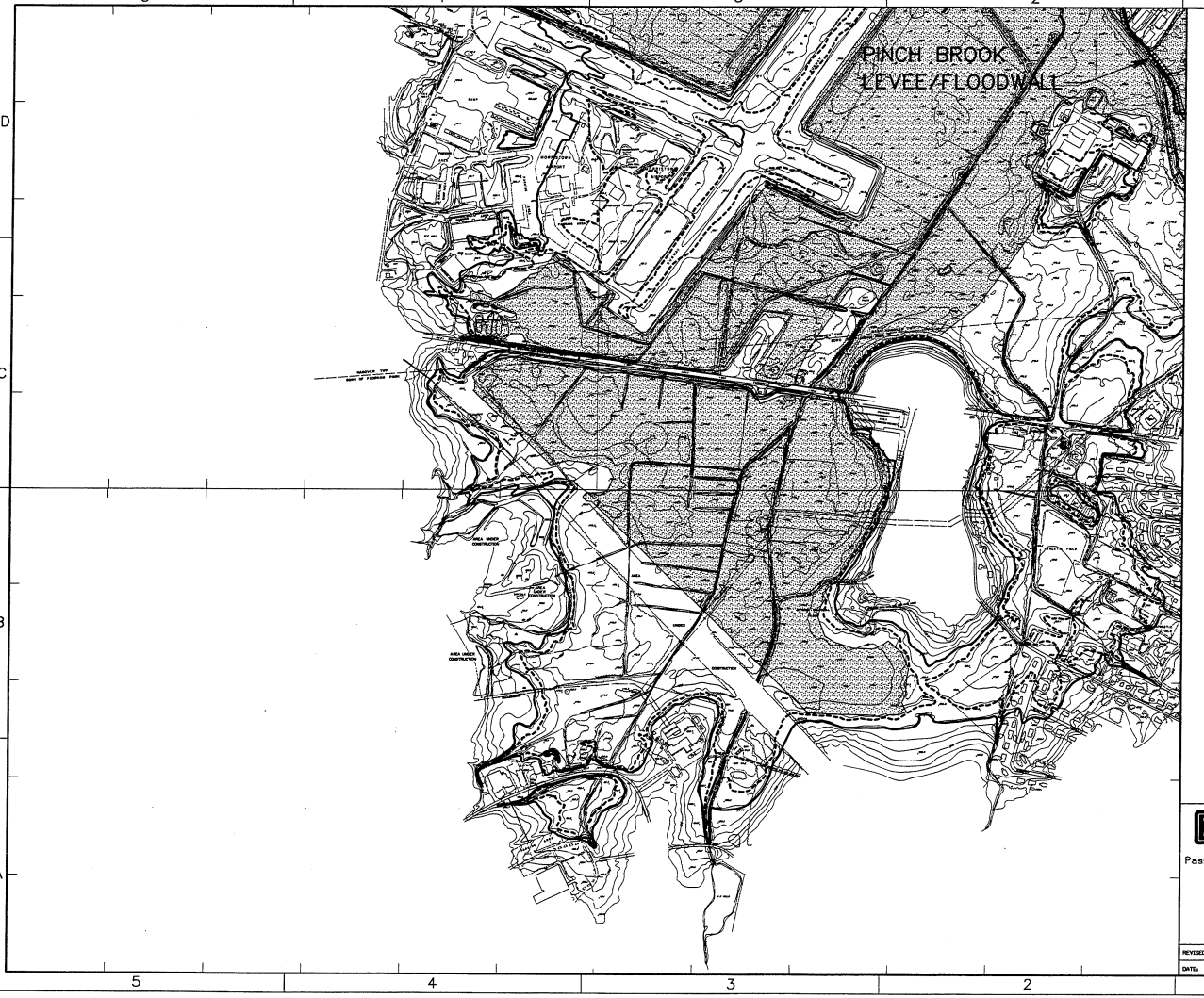
U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:
DATE: PREPARED BY: SHEET PS-40



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROADS/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROADSHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

	PS-42	PS-38
	PS-41	PS-37
		PS-36

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET
500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:

DATE: | PREPARED BY: | SHEET PS-41



SHEET LEGEND

BUILDINGS
BUILDING UNDER CONSTRUCTION
ROAD/PARKING AREAS
DRIVES
DIRT ROADS
RAILROAD
FENCE
WATERS EDGE AND SWAMP OUTLINE
DENSE WOODS LINE
WETLAND SYMBOL
WOODED AREA
TOWER
COUNTY BOUNDARY
BOROUGH AND TOWNSHIP BOUNDARY
U.S. ROAD SHIELD
INTERSTATE ROAD SHIELD
STATE ROAD SHIELD
100 YEAR FLOOD WITH PROJECT
500 YEAR FLOOD WITH PROJECT
STANDARD LEVEE
STANDARD FLOOD WALL
CHANNEL MODIFICATION
NATURAL STORAGE AREA

KEY TO MATCHING SHEETS

		PS-39
	PS-42	PS-38
	PS-41	PS-37

DATE OF PHOTOGRAPHY JANUARY 27, 1990

SCALE IN FEET
500 0 500 1000 1500

U.S. ARMY ENGINEER DISTRICT, NEW YORK
PASSAIC RIVER DIVISION
CORPS OF ENGINEERS

Passaic River Flood Damage Reduction Project

GENERAL DESIGN MEMORANDUM

IMPROVED CONDITION INUNDATION MAPS

REVISED:		
DATE:	PREPARED BY:	SHEET PS-42

Plate C- 181