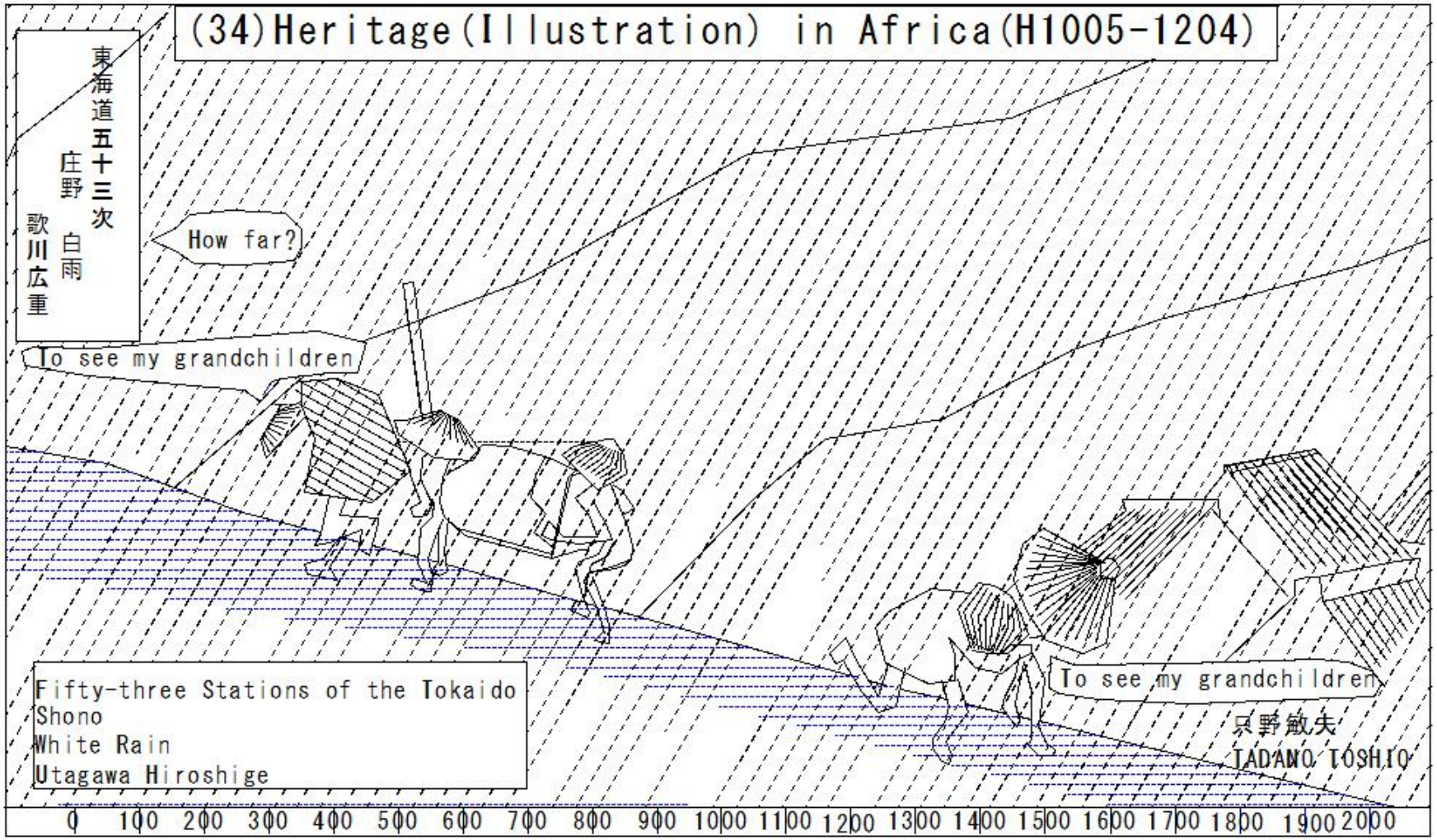

(34)Heritage(Illustration) in Africa(H1005-1204)
東海道五十三次
庄野 白雨
歌川広重
How far?
To see my grandchildren
Fifty-three Stations of the Tokaido
Shono
White Rain
Utagawa Hiroshige
To see my grandchildren
只野敏夫
TADANO TOSHIO
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

Reference

1	土木工学ハンドブック Civil Engineering Handbook	土木学会編 Edited by Japan Society of Civil Engineers	技報堂 GIHODO SHUPPAN Co., Ltd.
2	農業土木ハンドブック Agricultural civil engineering handbook	農業土木学会編 Japan Society of Agricultural Civil Engineers	丸善株式会社 Maruzen Co., Ltd.
3	林業土木ハンドブック Forestry Civil Engineering Handbook		千代田出版 Chiyoda Publishing Co., Ltd.
4	図説土木用語事典 Illustrated Dictionary of Civil Engineering Terms		実教出版 Jikkyo Publishing
5	応用地質用語集 Glossary of applied geological terms		東洋書店 Toyo Shoten Co., Ltd.
6	実用英和対訳 土木用語辞典 Practical English-Japanese translation Dictionary of civil engineering terms		工学出版株式会社 Engineering Publishing Co., Ltd.
7	農業土木用語集 Glossary of agricultural civil engineering terms		東洋書店 Toyo Shoten Co., Ltd.
8	土木施工用語集 Glossary of civil engineering construction terms		東洋書店 Toyo Shoten Co., Ltd.
9	土木コンクリート用語集 Glossary of civil engineering and concrete terms		東洋書店 Toyo Book Book Store
10	土木用語辞典 Dictionary of civil engineering terms	東京工学研究会編 Edited by Tokyo Engineering Study Group	工学出版株式会社 Engineering Publishing Co., Ltd.
11	図解 土質・基礎用語集 Illustrated Glossary of Soil Characteristics and Basic Terms		東洋書店 Toyo Shoten Co., Ltd.
12	農業土木設計 農業土木施工 水循環 Agricultural civil engineering design Agricultural civil engineering construction Water cycle		文部科学省 Ministry of Education, Culture, Sports, Science and Technology
13	かんがい、かんがい施設、農業水文、農地排水 Irrigation, irrigation facilities, agricultural hydrology, farmland drainage		コロナ社 Corona Publishing
14	ハンディブック 土木 Handy Book Civil Engineering		オーム社 Ohmsha

①香貫用水	沼津市産業振興部
① Kanuki Irrigation Canal	Numazu City Industrial Promotion Department
	郷土史講座「沼津あれこれ塾」
	Local History Lecture Series "Numazu All About School"
	静岡県公式ホームページ
	Shizuoka Prefecture Official Website
②寺谷用水	静岡県・磐田市 寺谷用水土地改良区
②Teratani Irrigation Canal	Shizuoka Prefecture/Iwata City Teratani Irrigation Water Land Improvement District
	静岡県磐田市教育委員会
	Iwata City Board of Education, Shizuoka Prefecture
③本宿用水	静岡県・長泉町産業振興課
③Honjuku Irrigation Canal	Shizuoka Prefecture, Nagaizumi Town Industrial Promotion Division
④北山用水	静岡県富士宮市北山用水運営協力委員会
④Kitayama Irrigation System	Kitayama Irrigation Canal Management Cooperation Committee,
	Fujinomiya City, Shizuoka Prefecture
	静岡県富士宮市
	Fujinomiya City, Shizuoka Prefecture
	富士宮市立中央図書館
	Fujinomiya City Central Library
	静岡県富士宮市　文化課埋蔵文化財センター
	Fujinomiya City, Shizuoka Prefecture, Cultural Affairs Division,
	Buried Cultural Properties Center
⑤上江用水路(新潟県・上越市・妙高市)	関川水系土地改良区
Uwae Irrigation Canal	Sekigawa River Watershed Land Improvement District
(Niigata Prefecture, Joetsu City, Myoko City)	水土里ネット関川水系
	Water and Land Network Sekigawa River Watershed
⑥常西合口用水（富山県富山市）	水土里ネット富山
Josaigoguchi Irrigation Canal	Midori Net Toyama
(Toyama City, Toyama Prefecture)	常西用水土地改良区
	Josai Irrigation Land Improvement District
⑦七ヶ用水（石川県・白山市 他）	水土里ネットみやたけ（手取川宮竹用水土地改良区）
⑦Shichikayousui Irrigation Canal (Ishikawa)	Miyatake Water and Land Network
	(Tedori River Miyatake Irrigation Canal Land Improvement District)
	水土里ネット石川

	Ishikawa Perfectural Federation of Land Improvement Association
	手取川七ヶ用水土地改良区
	Tedori River Shichika Irrigation Canal Land Improvement District
	白山市公式ホームページ
	Hakusan City Official Website
⑧足羽川用水［福井県・福井市］	足羽川堰堤土地改良区連合
⑧Asuwagawa Irrigation Canal（Fukui）	Asuwagawa Dam Land Improvement District Association
⑨曽代用水 (岐阜県・関市 他)	曽代用水土地改良区
⑨Sodaiyousui Irrigation System(Gifu)	Sodaiyousui Land Improvement District
⑩入鹿池(愛知県犬山市)	愛知県土地改良事業団体連合会（水土里ネット愛知）
⑩Iruka Pond (Inuyama City, Aichi Prefecture)	Aichi Prefectural Land Improvement Association (Midori Net Aichi)
	(愛知県犬山市)
	(Inuyama City, Aichi Prefecture)

(He1005) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1006) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1007) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1008) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1009) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1010) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1011) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1012) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1013) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1014) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1015) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1016) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1017) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1018) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1019) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1020) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1021) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1022) Kanuki Irrigation Canal (Shizuoka)	Kanuki Irrigation Canal (Shizuoka)
(He1023)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1024)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1025)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1026)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1027)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1028)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1029)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1030)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1031)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1032)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1033)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1034)Teradani Irrigation System (Canal) Shizuoka	Teradani Irrigation System (Canal) Shizuoka
(He1035)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1036)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1037)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1038)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)

(He1039)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1040)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1041)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1042)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1043)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1044)Honjukuyousui Irrigation Canal (Shizuoka)	Honjukuyousui Irrigation Canal (Shizuoka)
(He1045) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1046) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1047) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1048) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1049) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1050) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1051) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1052) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1053) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1054) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1055) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1056) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1057) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1058) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1059) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1060) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1061) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1062) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1063) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1064) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1065) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1066) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1067) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1068) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1069) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1070) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1071) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1072) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)

(He1073) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1074) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1075) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1076) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1077) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1078) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1079) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1080) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1081) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1082) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1083) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]	Kitayama Irrigation Canal (Shizuoka)
(He1084) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1085) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1086) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1087) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1088) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1089) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1090) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1091) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1092) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1093) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1094) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1095) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1096) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1097) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1098) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1099) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1100) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1101) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1102) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1103) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1104) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1105) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1106) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)

(He1107) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1108) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1109) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1110) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1111) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1112) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1113) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1114) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1115) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)	Uwae Irrigation Canal (Niigata)
(He1116) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1117) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1118) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1119) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1120) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1121) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1122) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1123) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1124) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1125) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1126) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1127) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1128) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1129) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1130) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1131) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1132) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1133) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1134) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1135) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1136) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1137) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1138) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1139) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)
(He1140) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)	Josaigoguchi Irrigation Canal(Toyama)

(1141) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1142) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1143) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1144) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1145) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1146) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1147) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1148) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1149) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1150) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1151) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1152) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1153) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1154) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(1155) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)	Shichikayousui Irrigation Canal (Ishikawa)
(He1156)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1157)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1158)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1159)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1160)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1161)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1162)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1163)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1164)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1165)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1166)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1167)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1168)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1169)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1170)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)	Asuwagawa Irrigation Canal (Fukui)
(He1171)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1172)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1173)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1174)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)

(He1175)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1176)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1177)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1178)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1179)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1180)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1181)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1182)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1183)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1184)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)	Sodaiyousui Irrigation System(Gifu)
(He1185)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1186)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1187)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1188)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1189)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1190)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1191)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1192)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1193)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1194)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1195)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1196)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1197)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1198)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1199)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1200)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1201)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1202)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1203)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)
(He1204)Iruka Pond (Inuyama City, Aichi Prefecture)	Iruka Pond (Aichi)

(He1005)Genbegawa Irrigation Canal(Shizuoka)

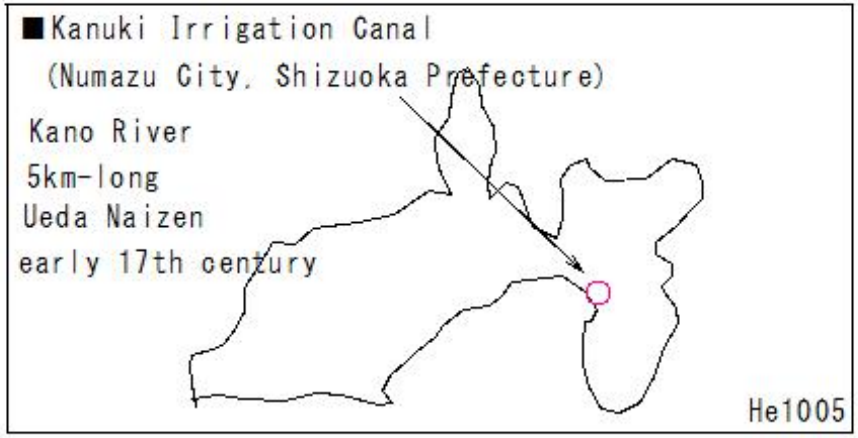
(He1005) Kanuki Irrigation Canal (Shizuoka)

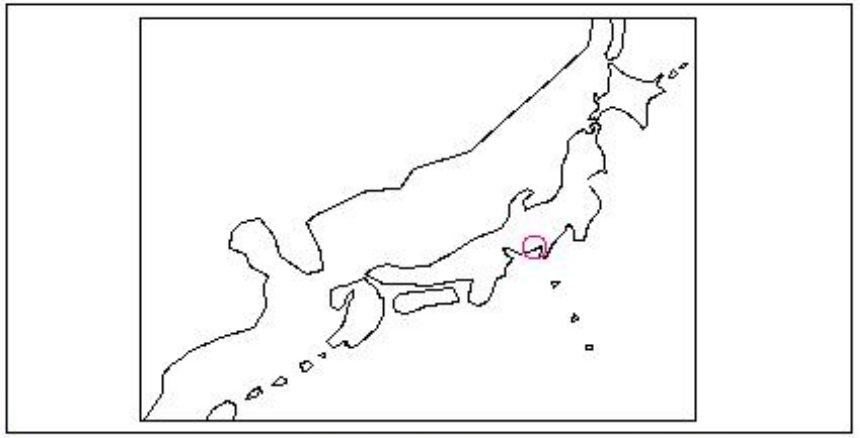
■Kanuki Irrigation Canal

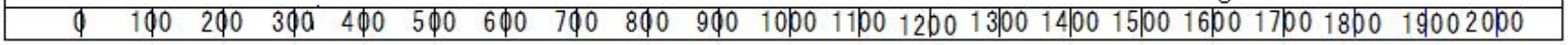
(Numazu City, Shizuoka Prefecture)

① To provide a stable supply of agricultural water to the area near the left bank of the mighty Kano River, which suffered from water shortages despite being located along the river.

② This approximately 5km-long agricultural canal was constructed by Ueda Naizen in the early 17th century.







(He1006) Kanuki Irrigation Canal (Shizuoka)

(He1006) Kanuki Irrigation Canal (Shizuoka)

■ Kanuki Irrigation Canal
(Numazu City, Shizuoka Prefecture)

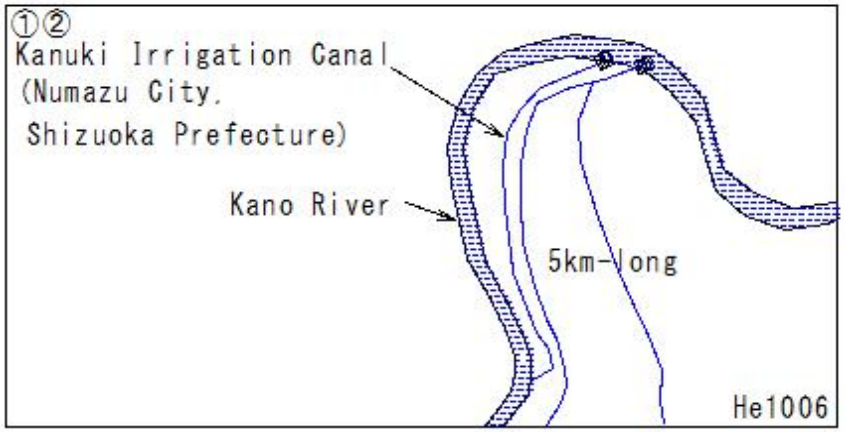
① To provide a stable supply of agricultural water to the area near the left bank of the mighty Kano River, which suffered from water shortages despite being located along the river.

② This approximately 5km-long agricultural canal was constructed by Ueda Naizen in the early 17th century.

Kanuki Irrigation Canal
(Numazu City, Shizuoka Prefecture)

Kano River
5km-long
Ueda Naizen
early 17th century

He1006



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1007) Kanuki Irrigation Canal (Shizuoka)

(He1007) Kanuki Irrigation Canal (Shizuoka)

■ Facility Construction

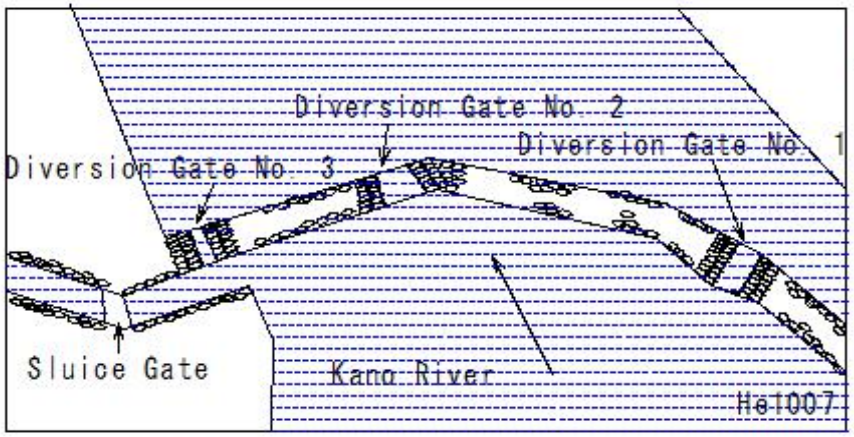
③ A crescent-shaped stone weir was installed at the intake, and a river storehouse was placed on the extension of the weir to raise the water level.

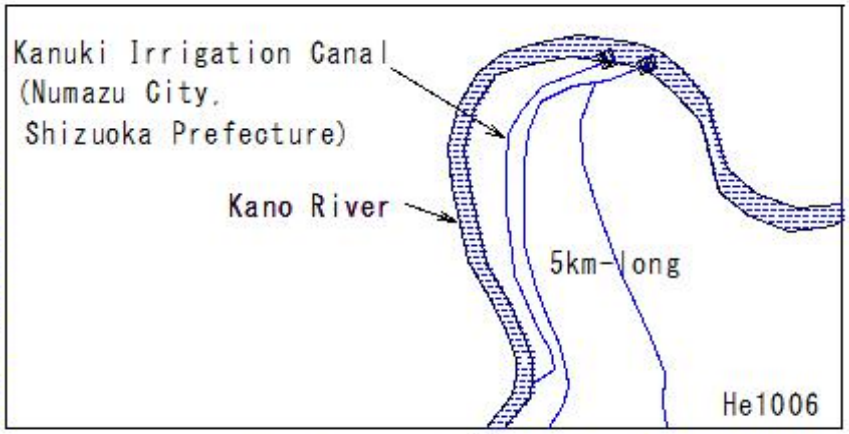
④ The water level was raised by damming up the water flow using horizontal logs, bamboo, and straw mats called "water-shedding gates."

⑤ Three gates were installed to allow water to flow during heavy rain.

⑥ Because the irrigation canal near the intake was built on sandy soil, furnace ash was mixed into the sand.

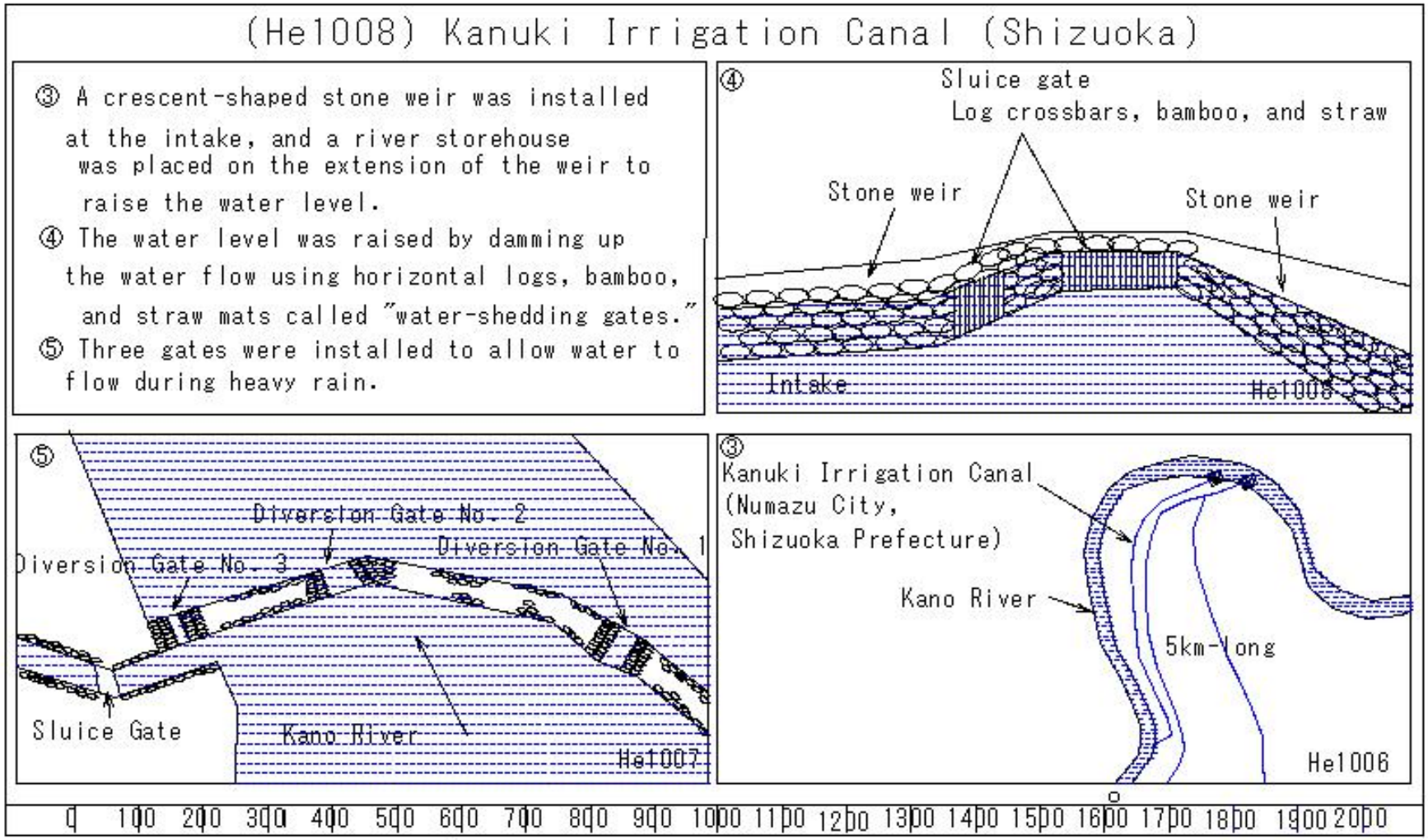
⑦ Through these and other measures to prevent water from seeping in, long-awaited agricultural water was successfully brought to the Kanuki area.



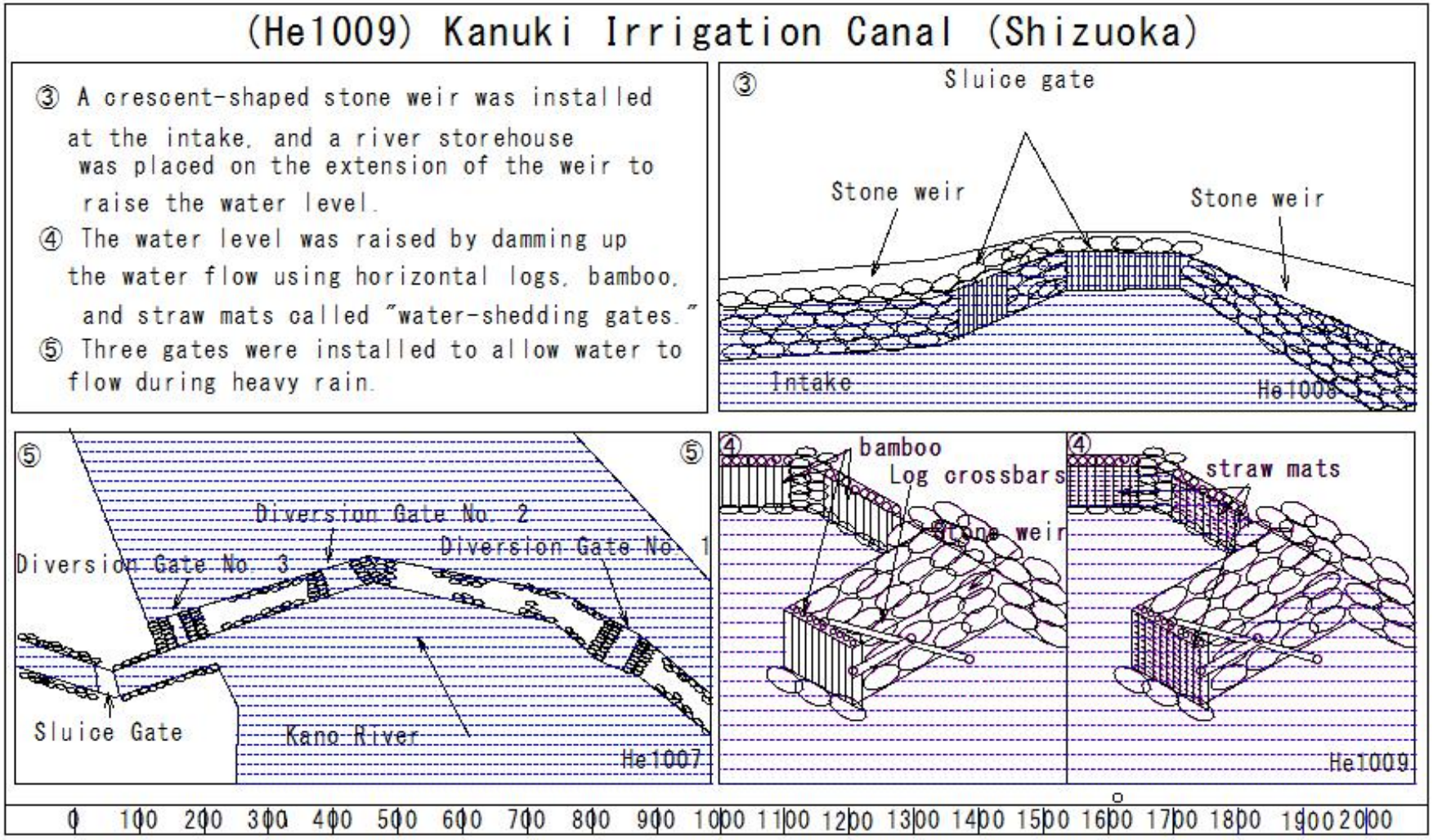


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

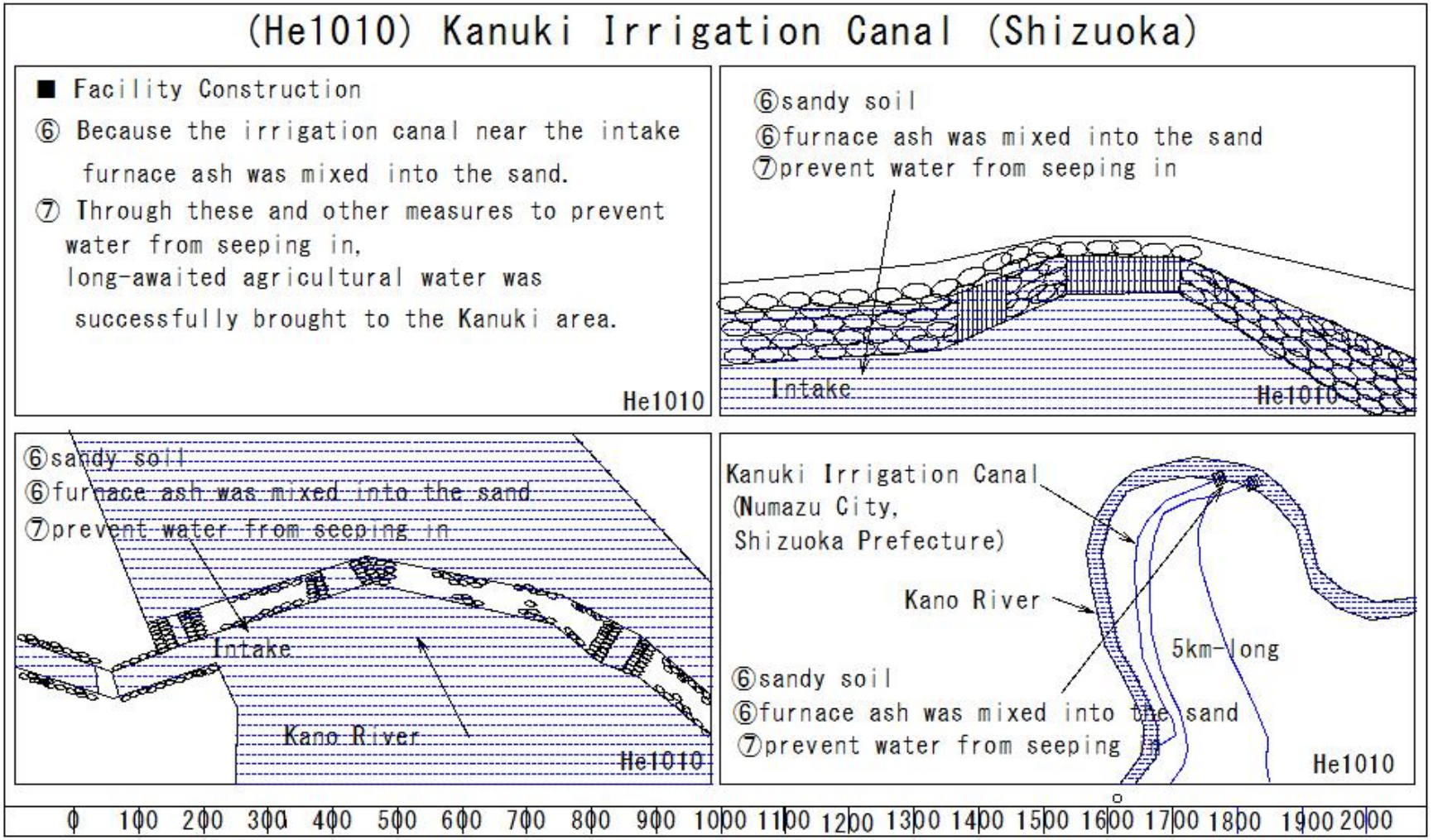
(He1008) Kanuki Irrigation Canal (Shizuoka)



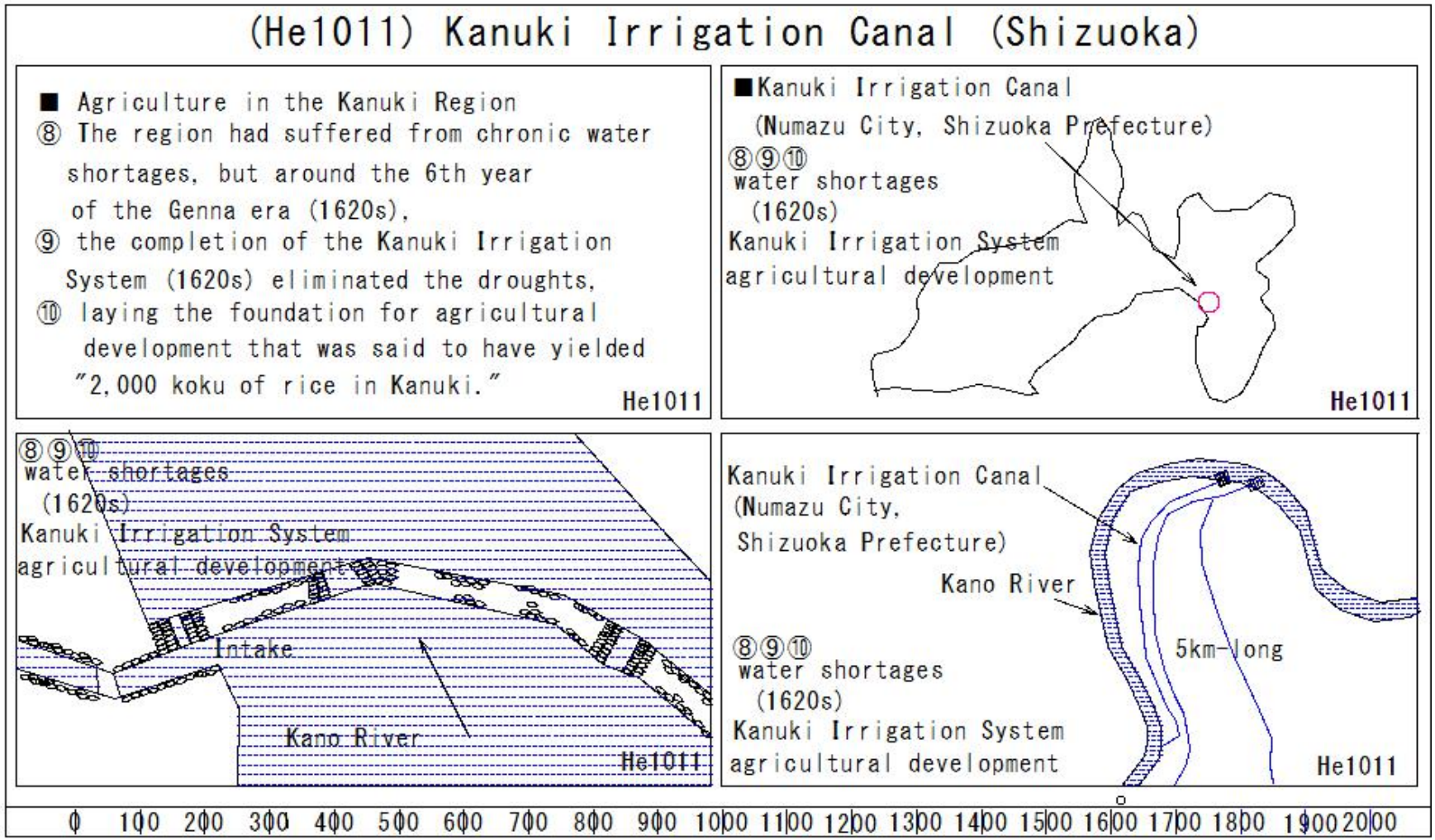
(He1009) Kanuki Irrigation Canal (Shizuoka)



(He1010) Kanuki Irrigation Canal (Shizuoka)



(He1011) Kanuki Irrigation Canal (Shizuoka)



(He1012) Kanuki Irrigation Canal (Shizuoka)

(He1012) Kanuki Irrigation Canal (Shizuoka)

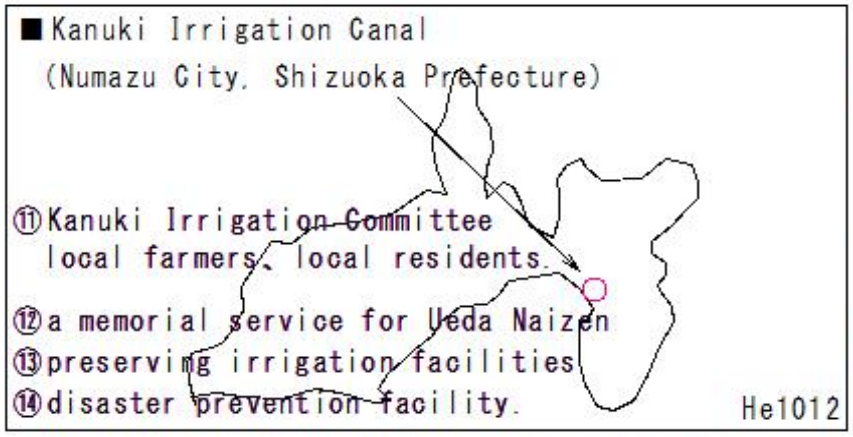
■ Facility Maintenance

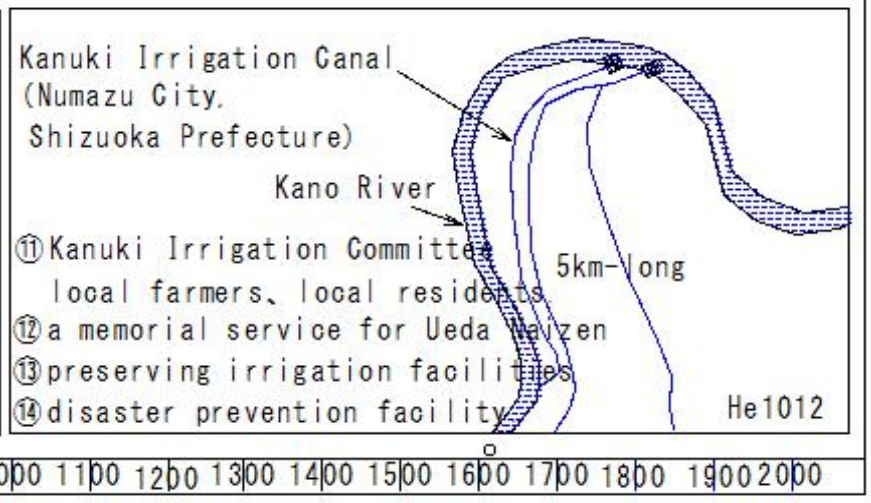
⑪ Numazu City is the primary authority, working in collaboration with the Kokan Irrigation Committee, an organization of local farmers, and local residents.

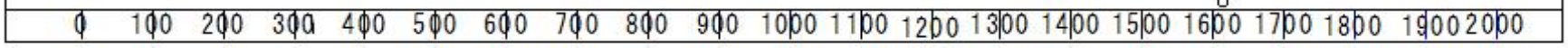
⑫ Every year on August 15th, a memorial service for Ueda Naizen is held at Reizanji Temple.

⑬ We are committed to preserving irrigation facilities that support local agriculture while preserving traditional culture.

⑭ Today, the Kanuki Irrigation Canal not only contributes to agricultural development, but also serves as a disaster prevention facility.







(He1013) Kanuki Irrigation Canal (Shizuoka)

(He1013) Kanuki Irrigation Canal (Shizuoka)

① The Kanuki Irrigation Canal is a waterway that channels water from the Kano River throughout the Kanuki area. It was built in the early Edo period and was used for agricultural irrigation until the late Showa period.

② Before the construction of Naizenbori, the Kanuki area collected rainwater to secure water for agriculture.

③ For this reason, several reservoirs were built around Mount Kanuki.

④ The structure of the Kanuki Irrigation Canal: The water intake was built near the confluence of the Kise River and Kano River.

⑤ To make it easier to draw river water into the intake, a weir was built in the river by piling stones to block part of the river's flow and guide the water.

⑥ Various ingenious ideas were incorporated into the construction of the canal.

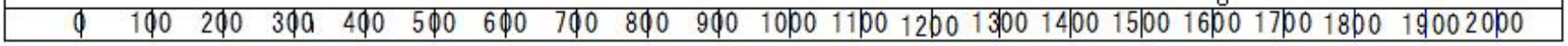
⑦ To prevent sediment from entering the intake, the weir was built in a curved rather than straight line, a structure called a "fukuro-zeki."

⑧ Clay mixed with ash was laid at the bottom of the canal to prevent water leakage. The ash method was adopted by Ueda Naizen.

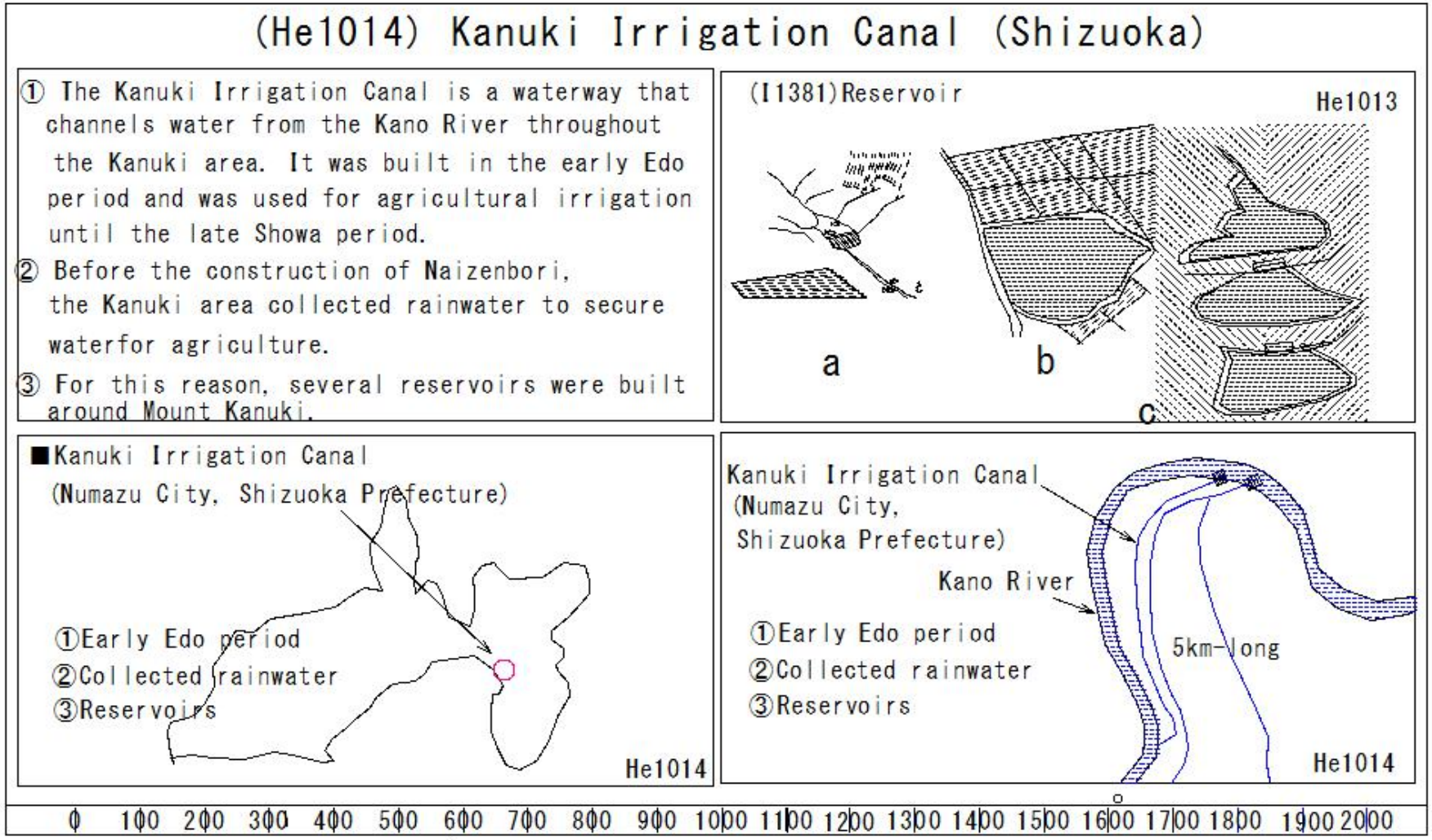
⑨ Because the water level in the irrigation canal was lower than the ground surface of the fields, it was necessary to pump water using a foot-operated waterwheel.

⑩ A water intake pump was installed in 1947, and the use of the weir and intake was discontinued the following year.

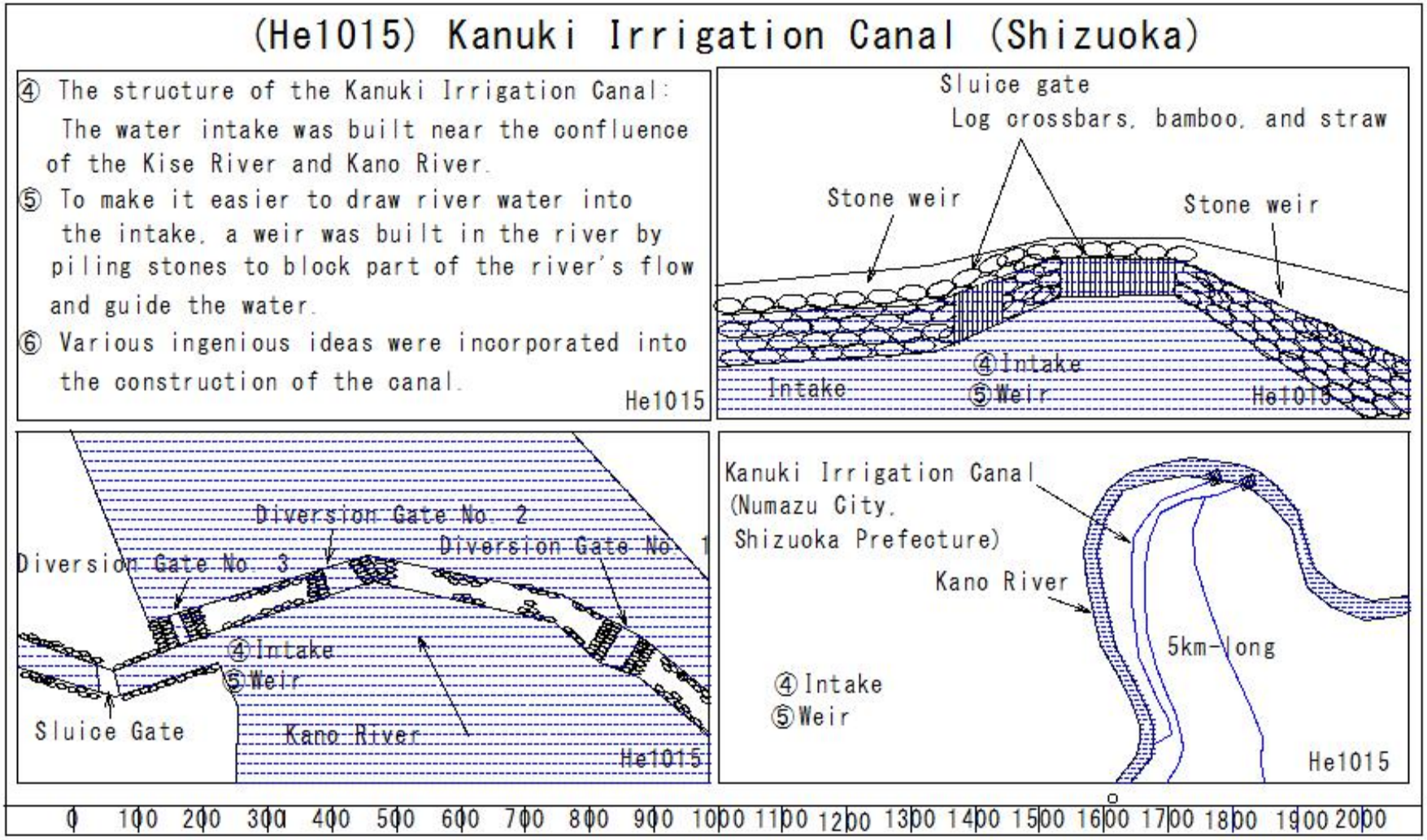
⑪ When construction of the Kano River levee began in the 1960s, the weir and intake were removed, and today the pump's intake tower can be seen near Kurose Bridge.



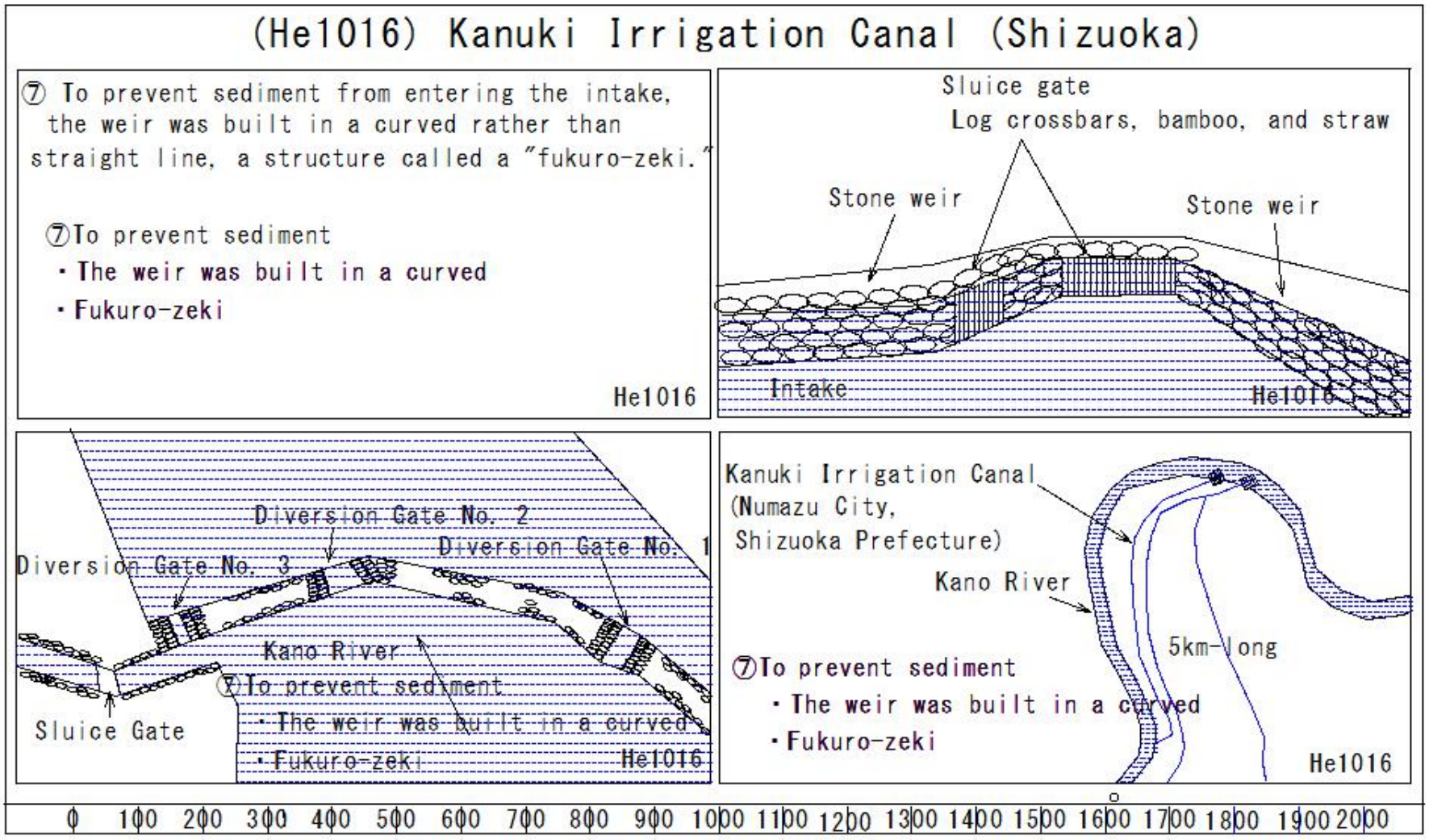
(He1014) Kanuki Irrigation Canal (Shizuoka)



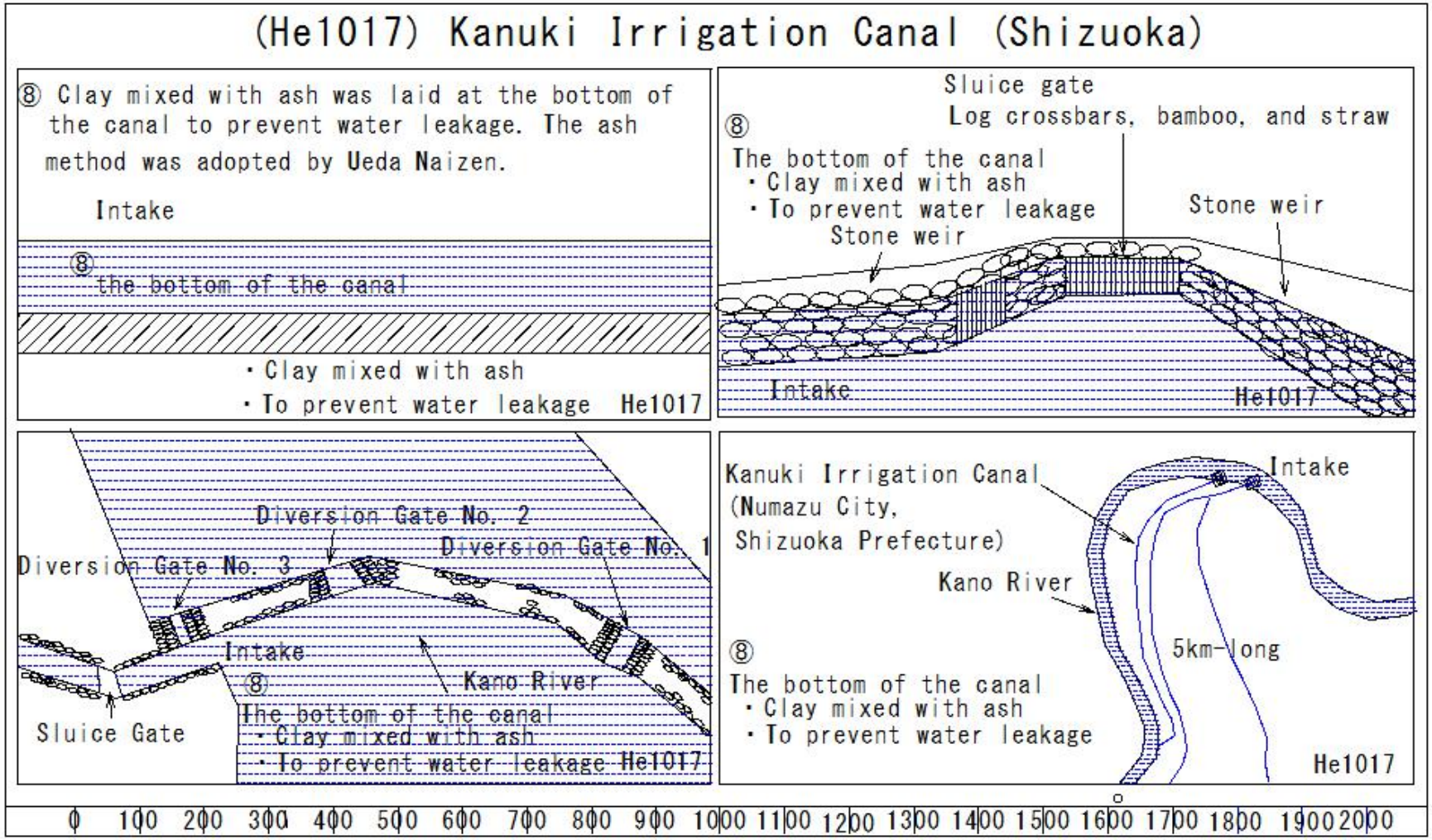
(He1015) Kanuki Irrigation Canal (Shizuoka)



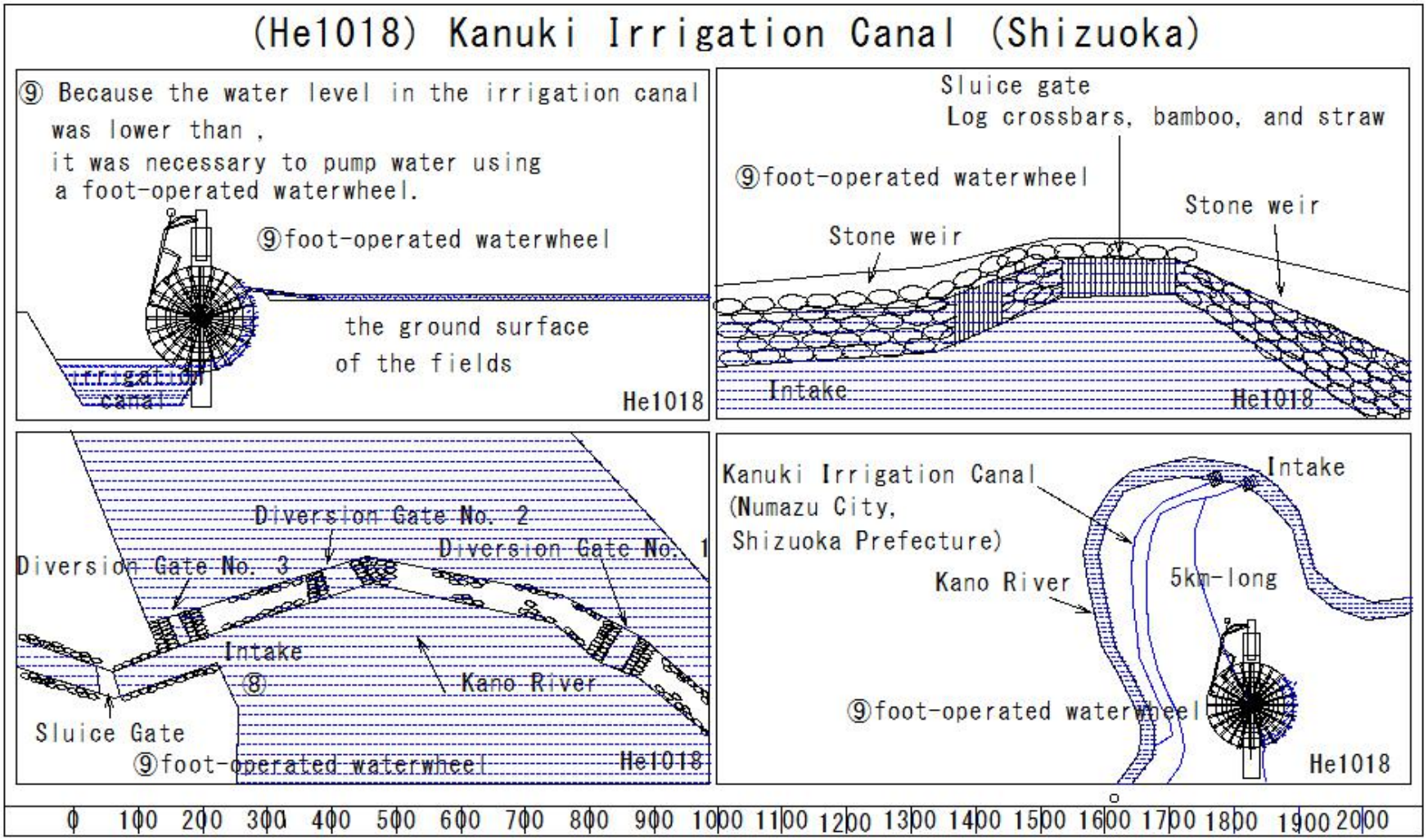
(He1016) Kanuki Irrigation Canal (Shizuoka)



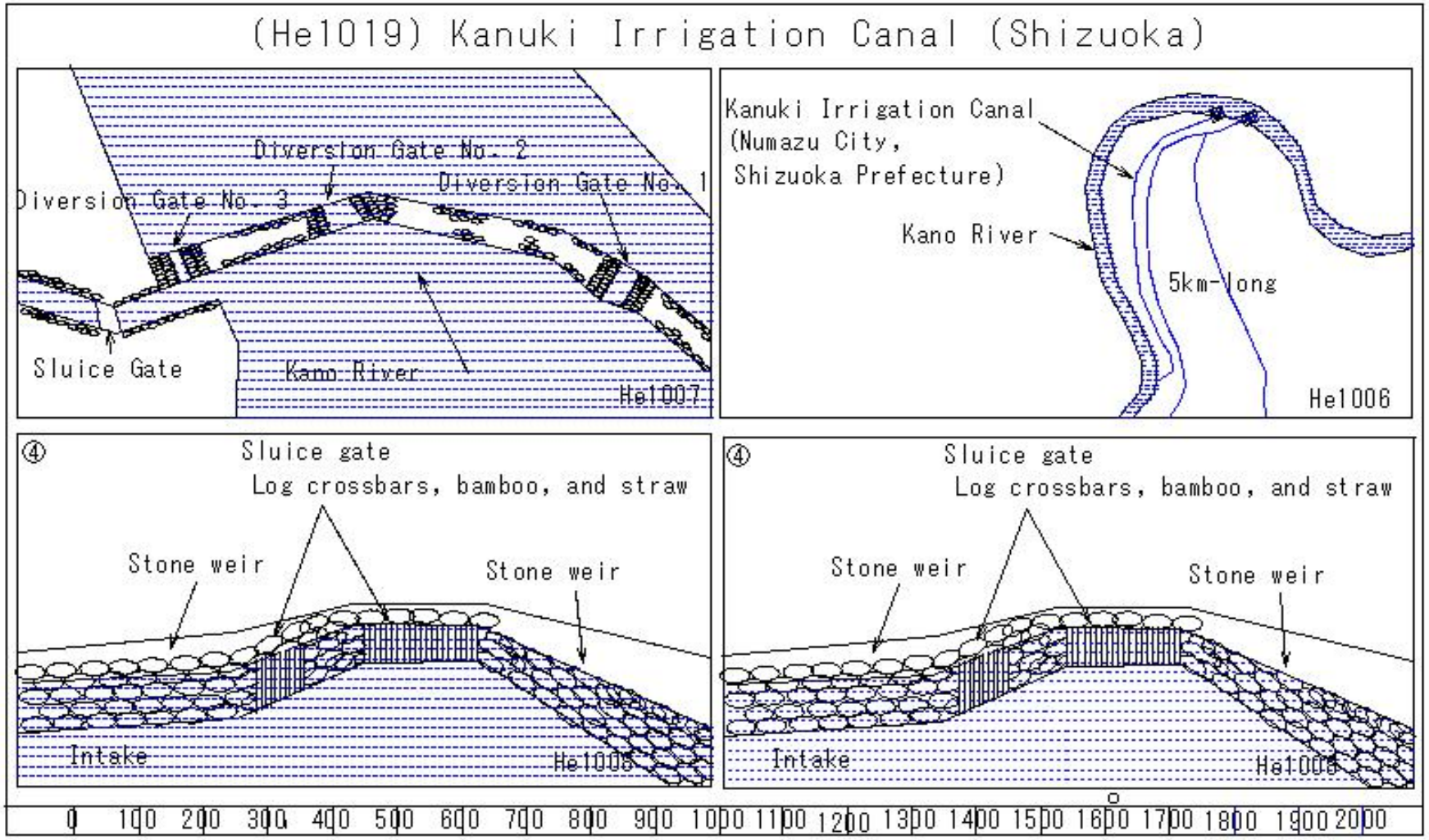
(He1017) Kanuki Irrigation Canal (Shizuoka)



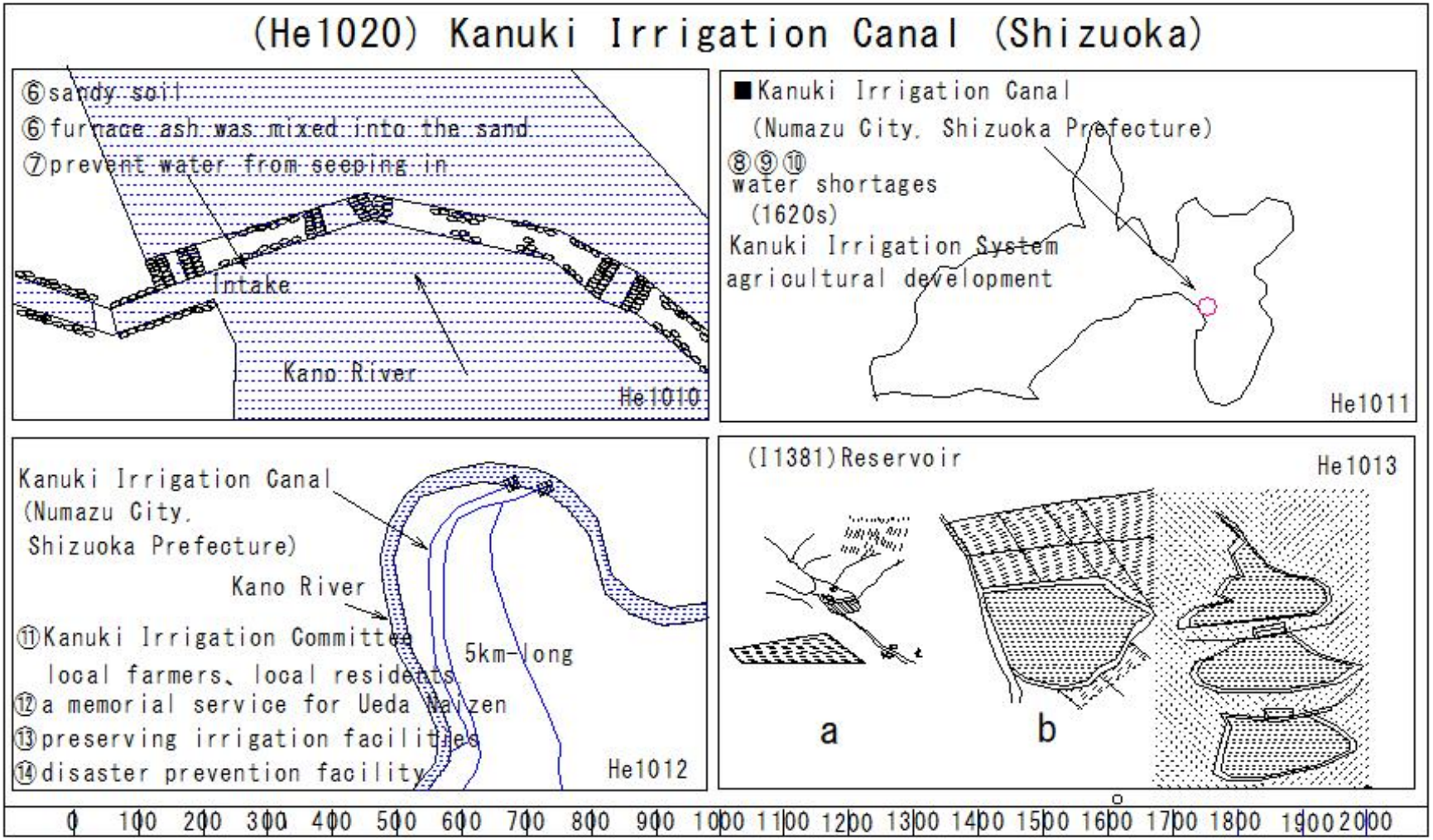
(He1018) Kanuki Irrigation Canal (Shizuoka)



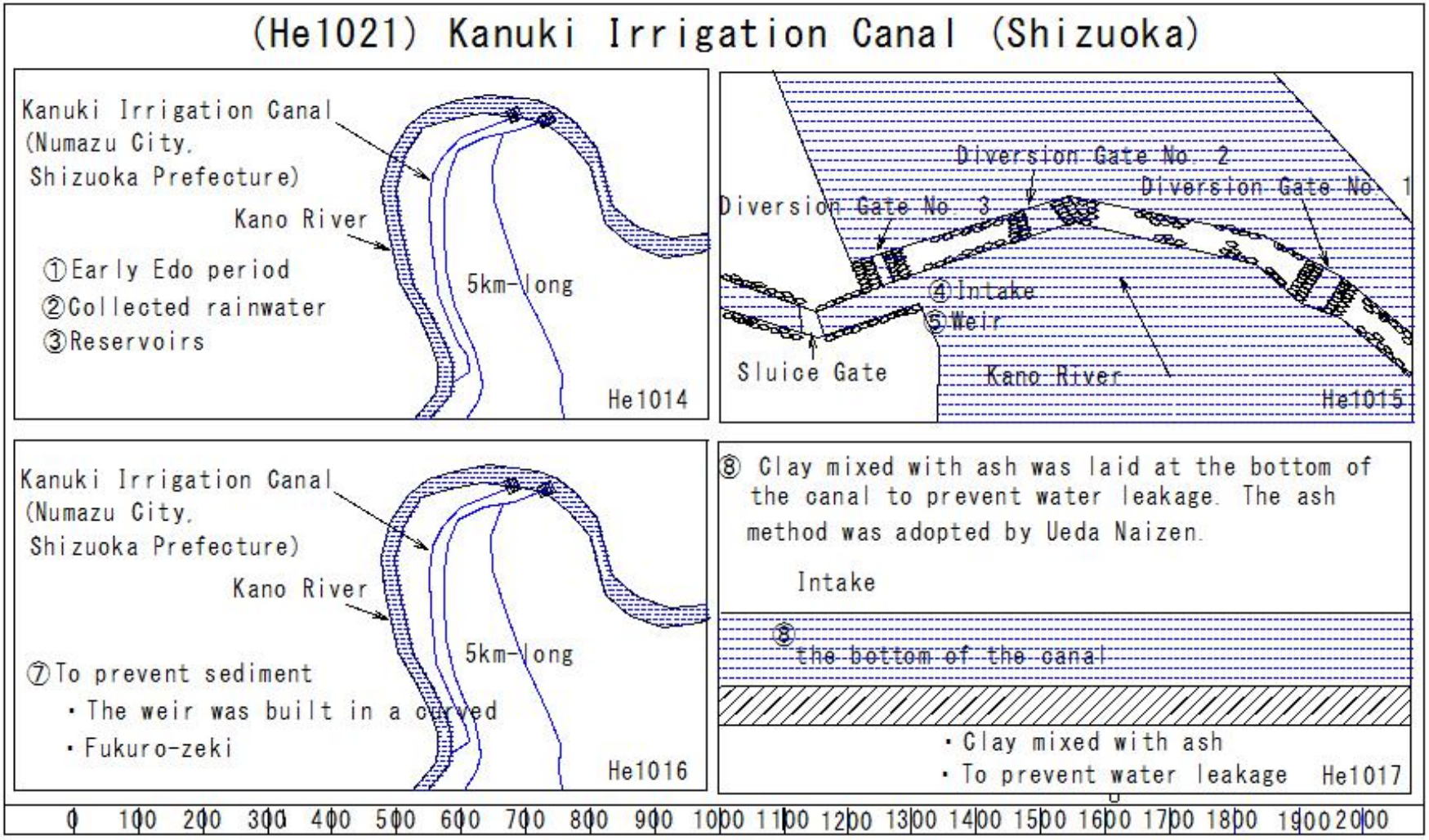
(He1019) Kanuki Irrigation Canal (Shizuoka)



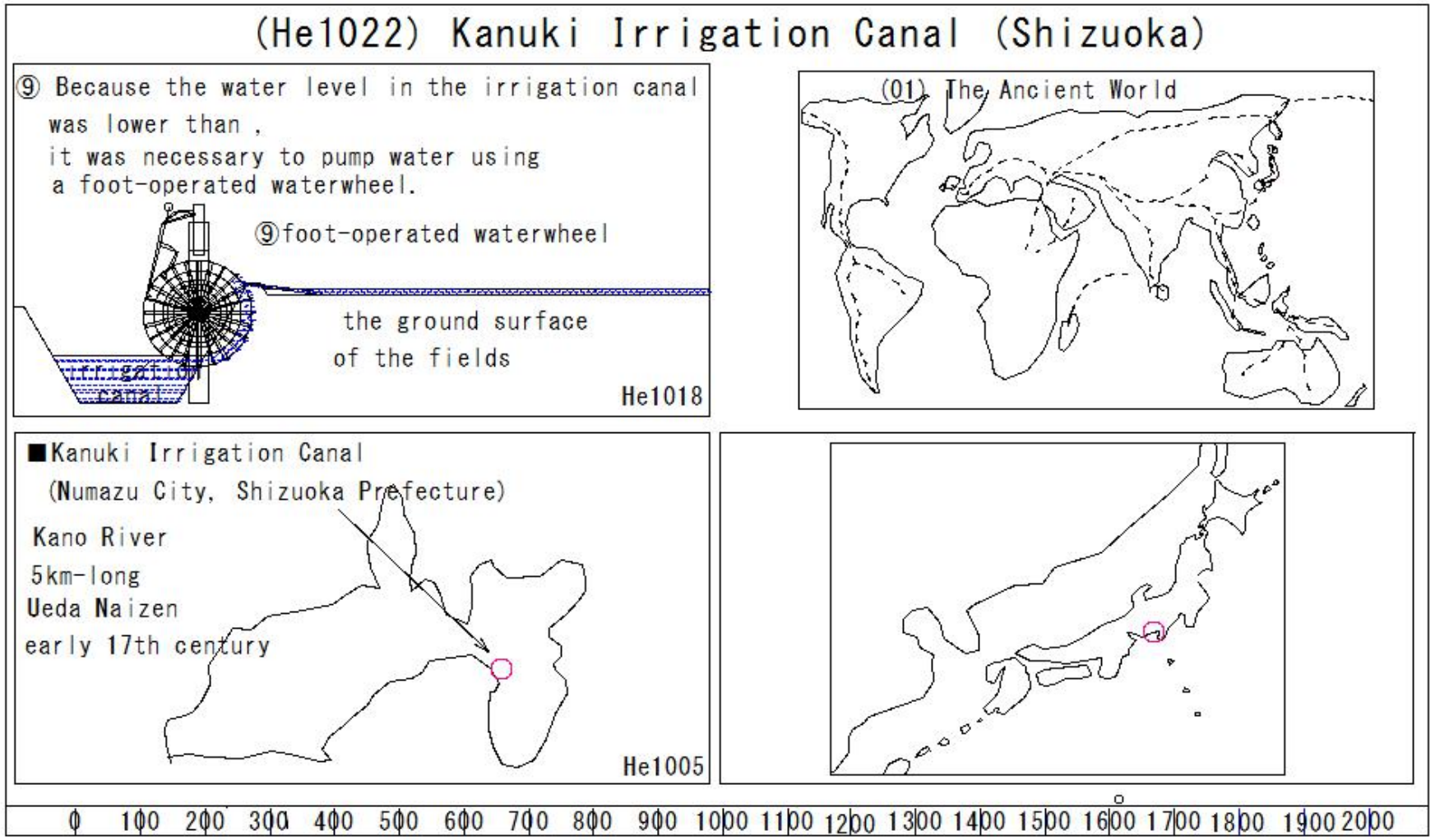
(He1020) Kanuki Irrigation Canal (Shizuoka)



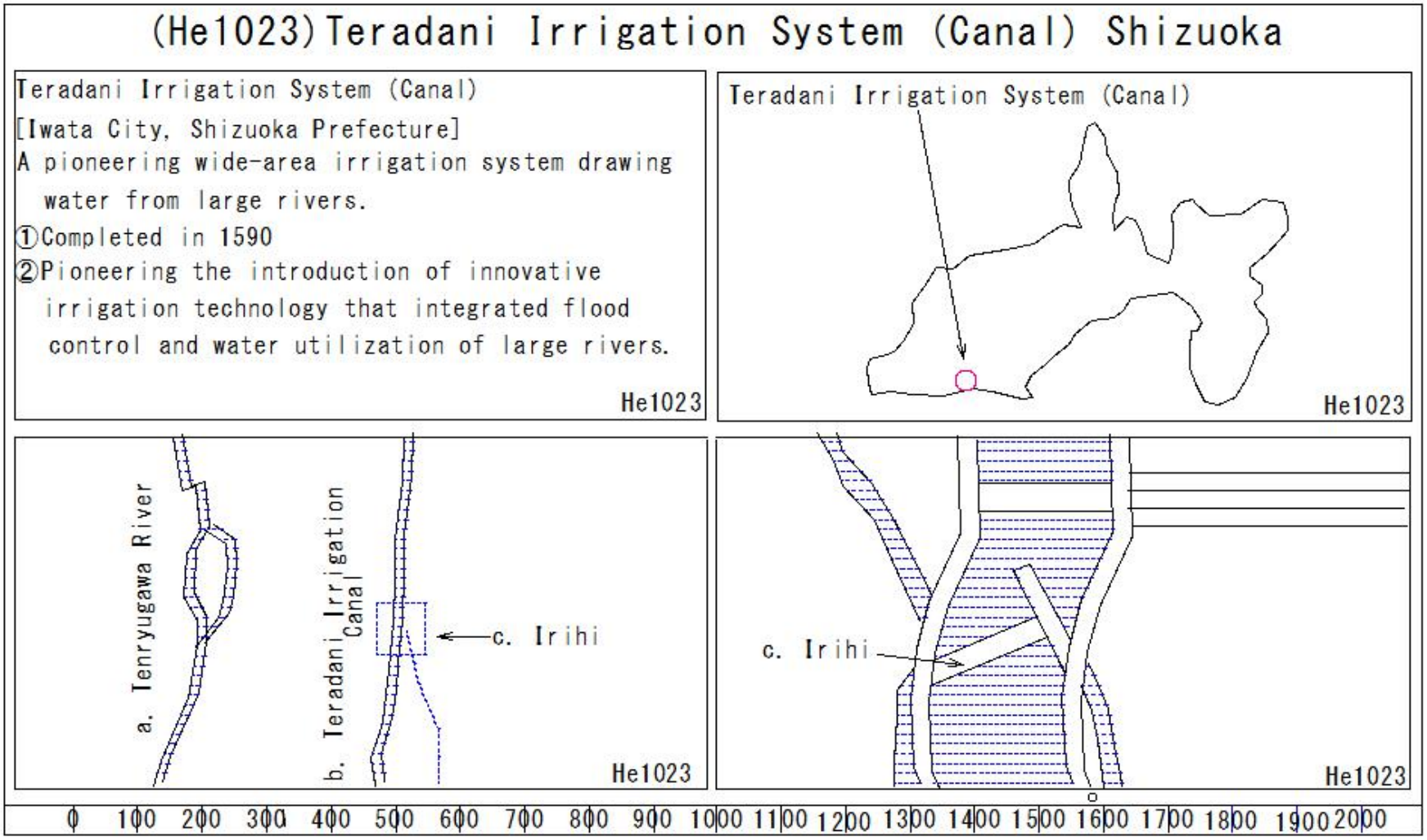
(He1021) Kanuki Irrigation Canal (Shizuoka)



(He1022) Kanuki Irrigation Canal (Shizuoka)



(He1023)Teradani Irrigation System (Canal) Shizuoka

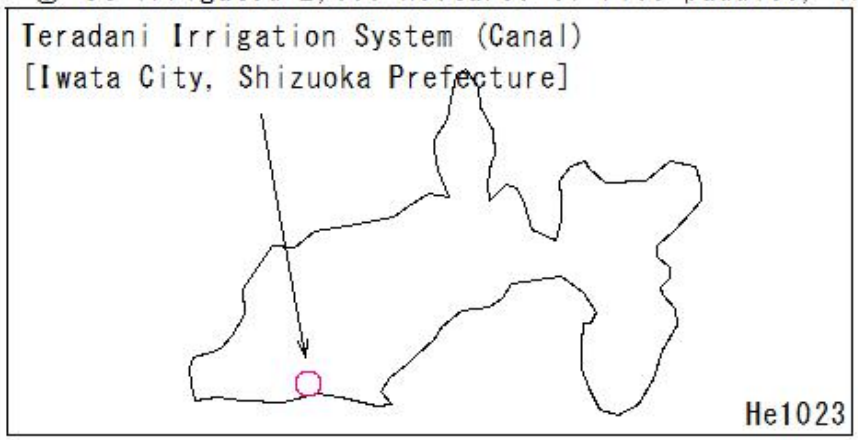


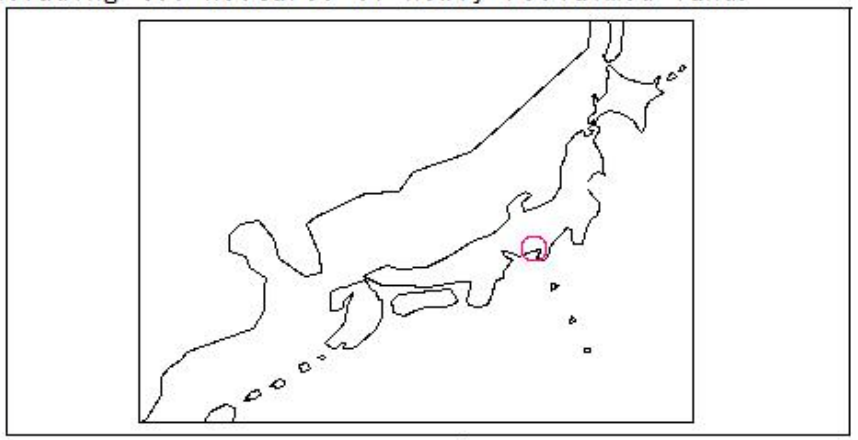
(He1024)Teradani Irrigation System (Canal) Shizuoka

(He1024)Teradani Irrigation System (Canal) Shizuoka

Canal Construction Project
[Iwata City, Shizuoka Prefecture]

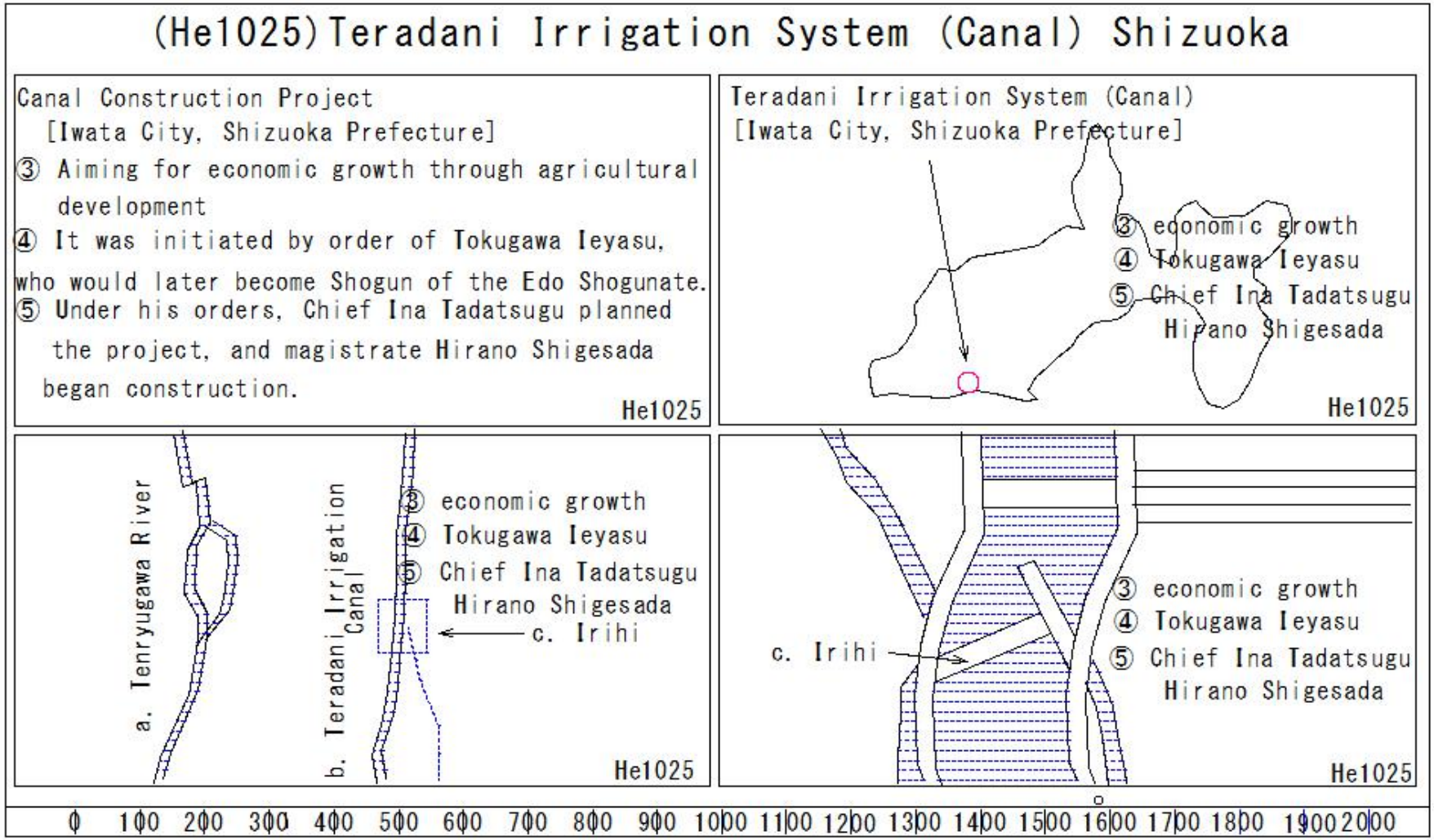
③ Aiming for economic growth through agricultural development
④ It was initiated by order of Tokugawa Ieyasu, who would later become Shogun of the Edo Shogunate.
⑤ Under his orders, Chief Ina Tadatsugu planned the project,
and magistrate Hirano Shigesada began construction.
⑥ They constructed a levee to separate farmland from the floodplain of the Tenryu River,
also known as the Violent Tenryu.
⑦ They constructed a 12-km canal.
⑧ The canal took two years from start to completion.
⑨ It irrigated 2,000 hectares of rice paddies, including 400 hectares of newly reclaimed land.



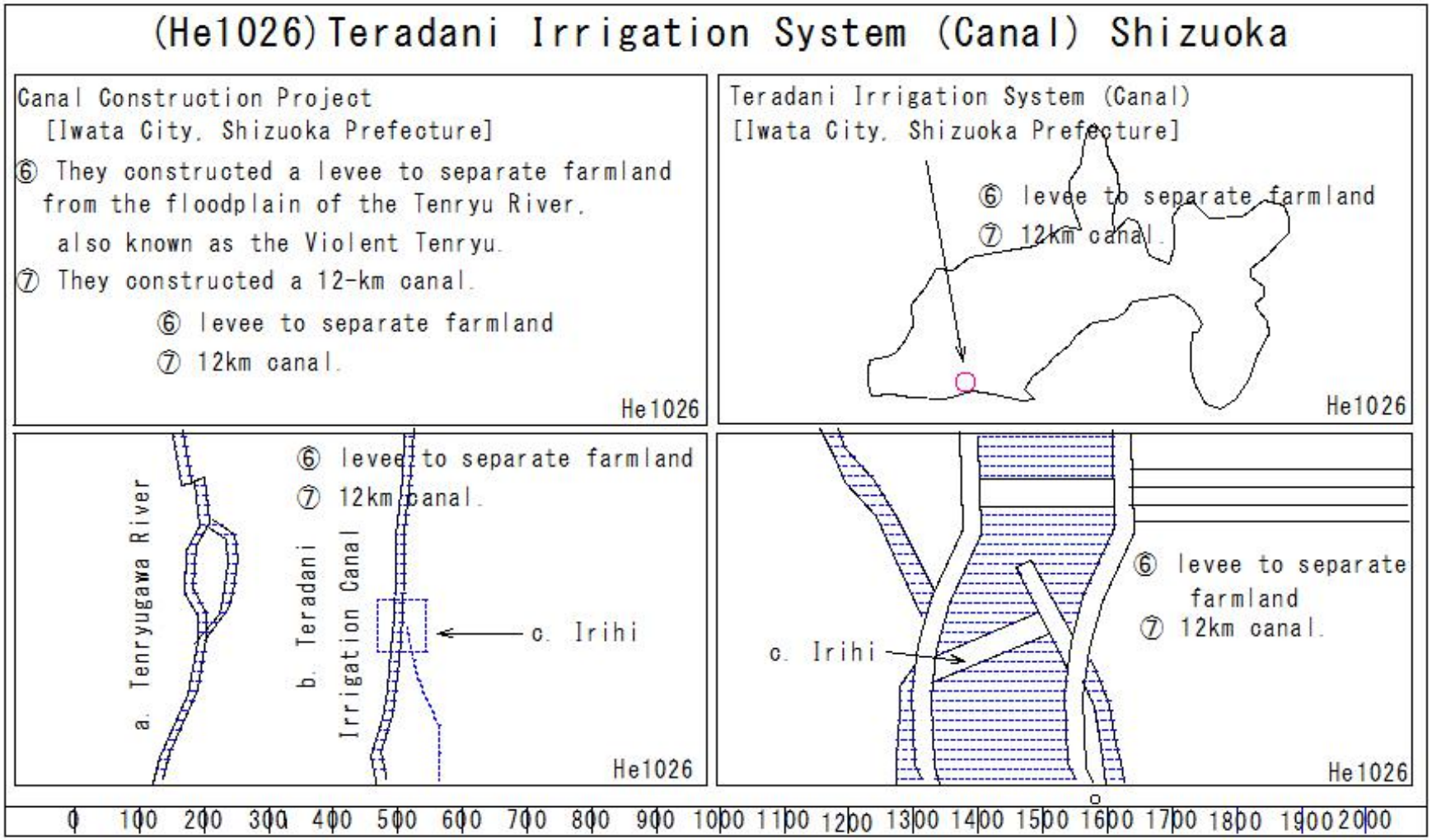


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

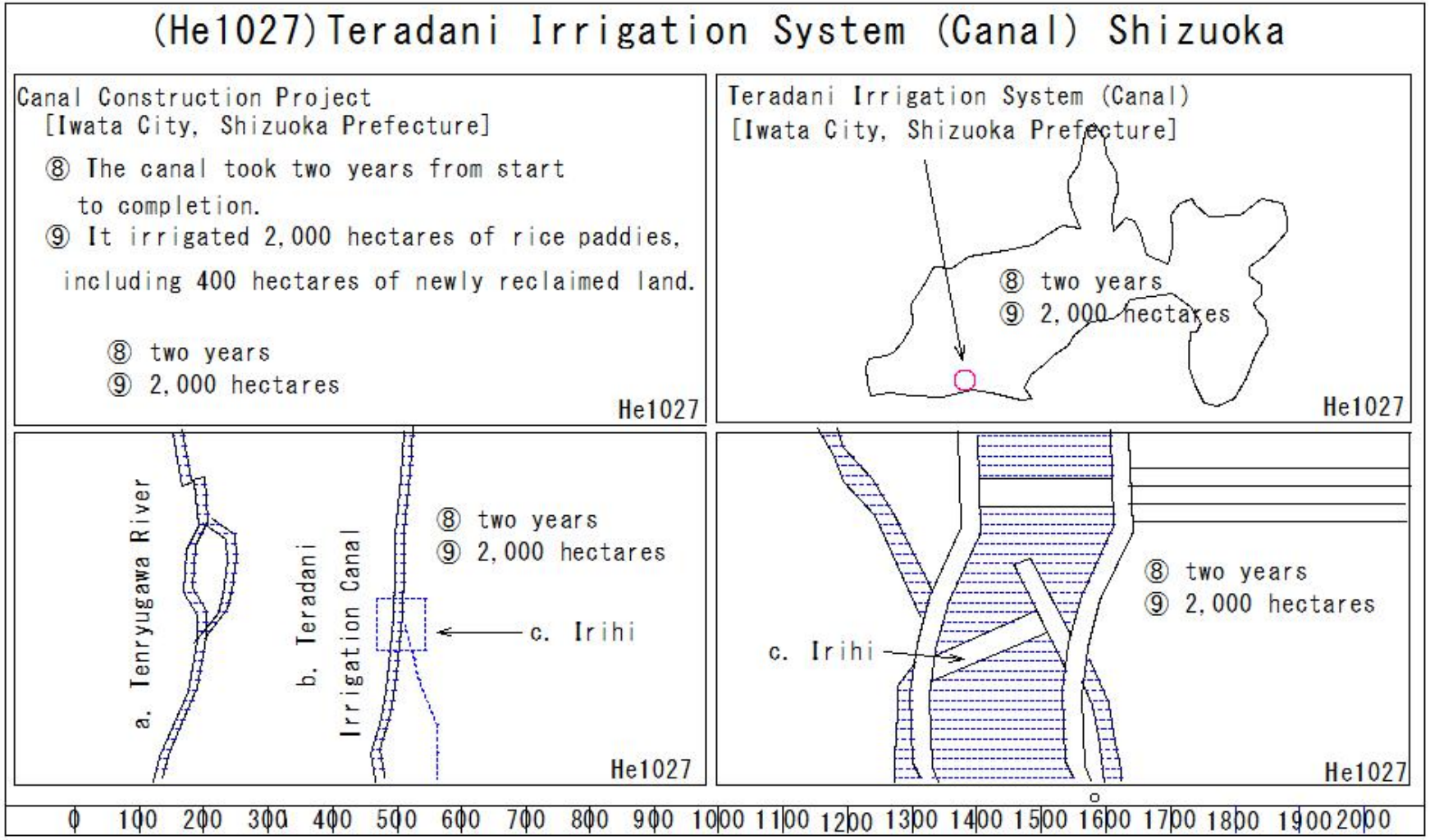
(He1025)Teradani Irrigation System (Canal) Shizuoka



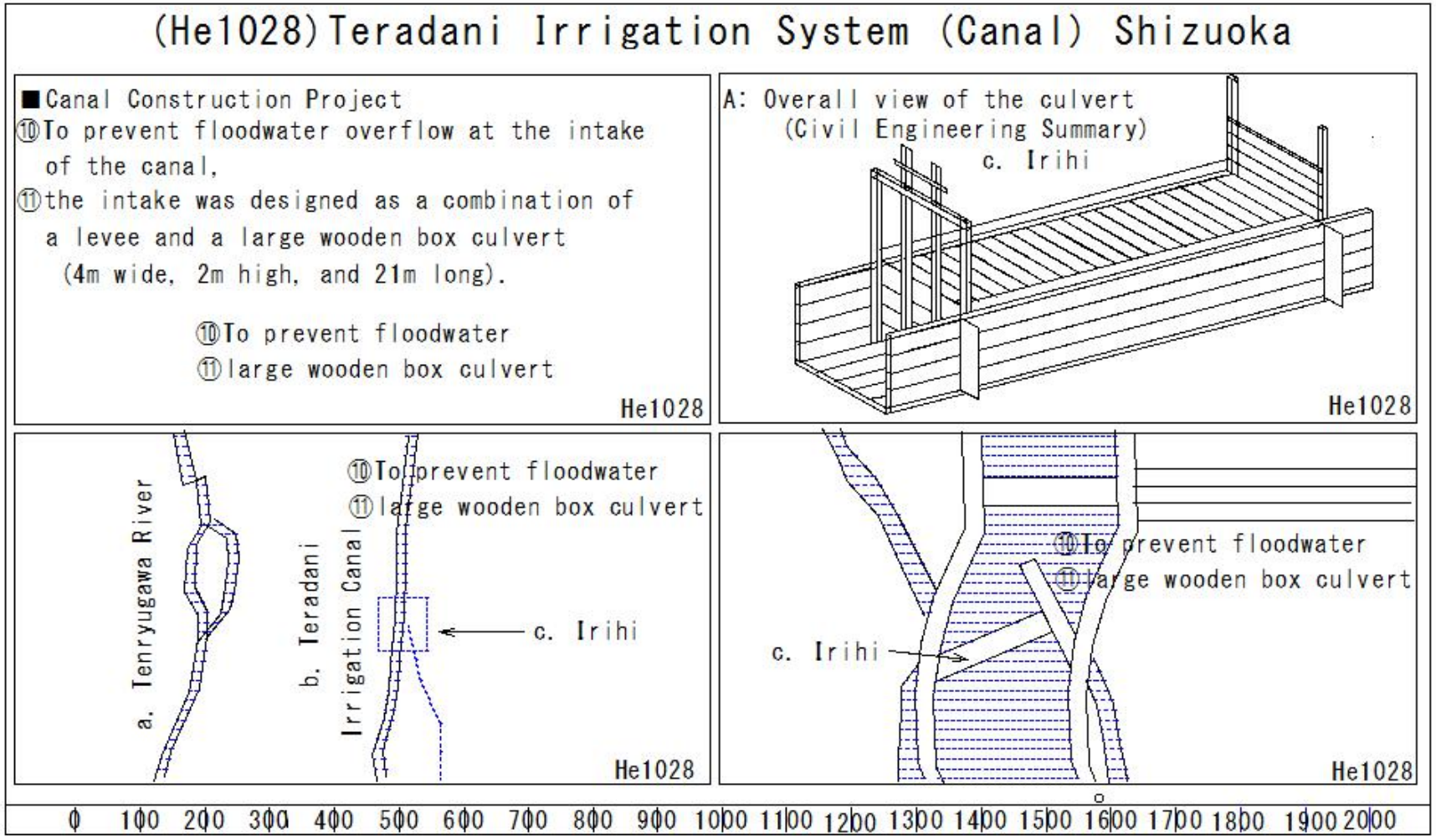
(He1026)Teradani Irrigation System (Canal) Shizuoka



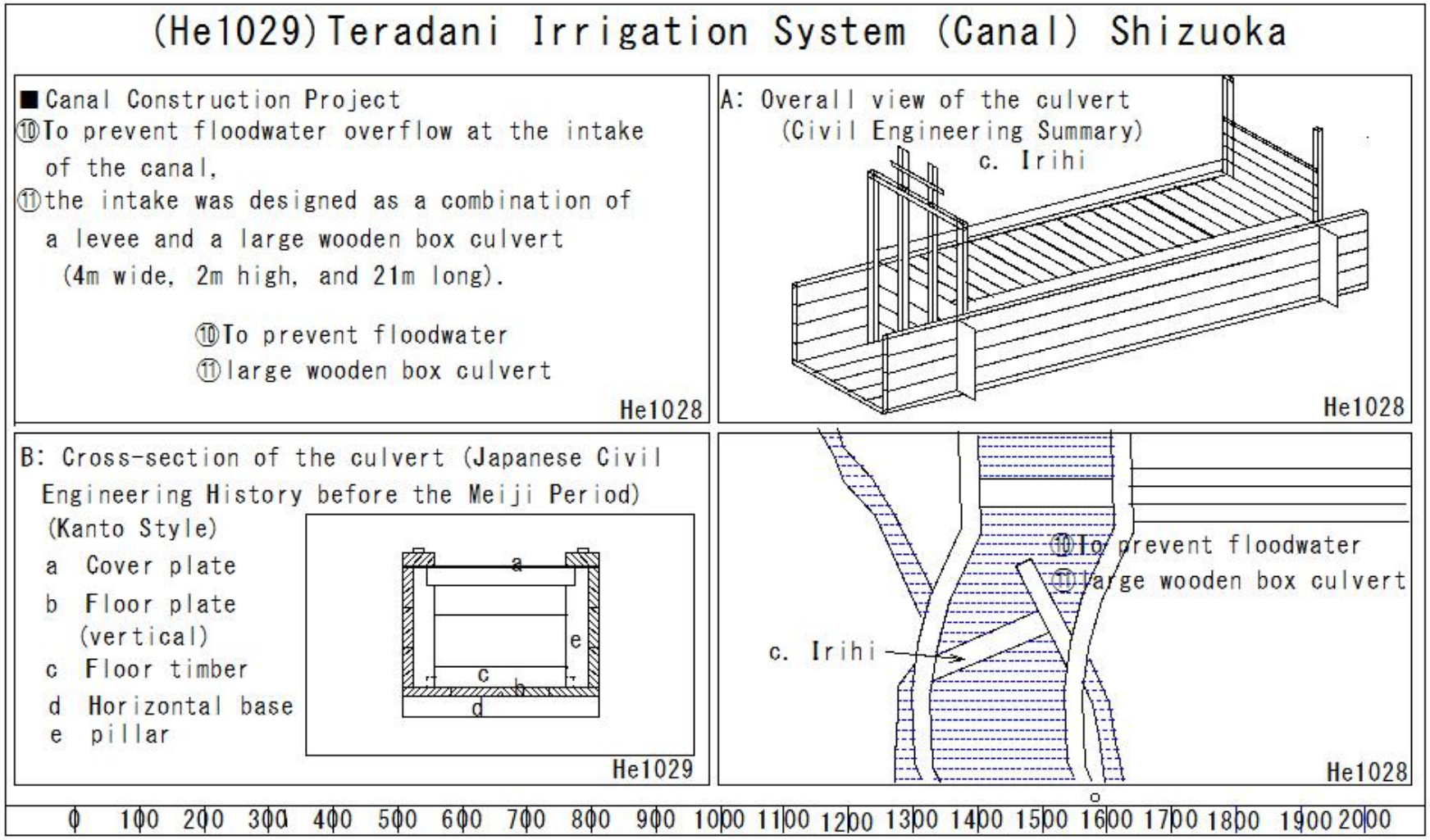
(He1027)Teradani Irrigation System (Canal) Shizuoka



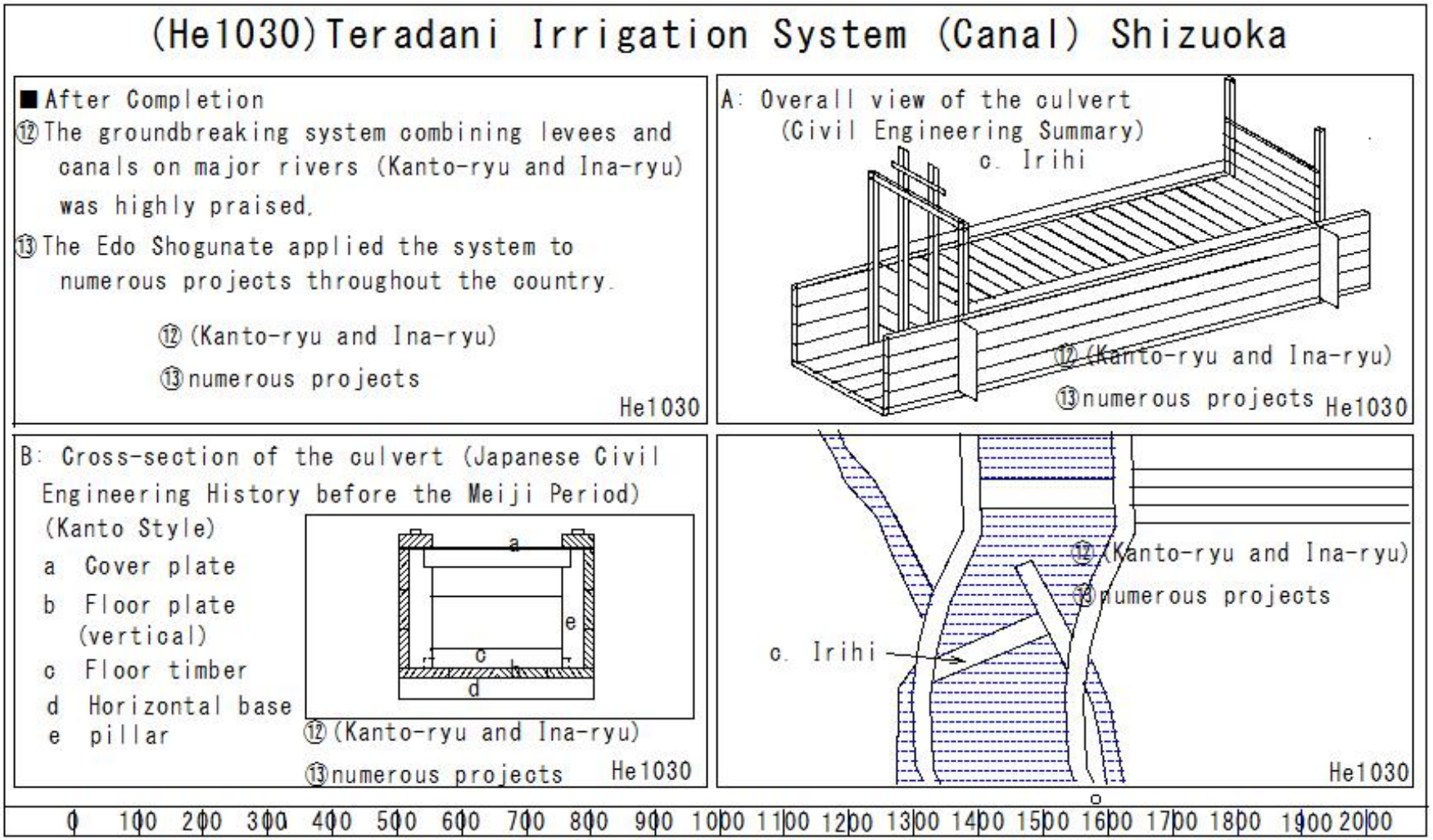
(He1028)Teradani Irrigation System (Canal) Shizuoka



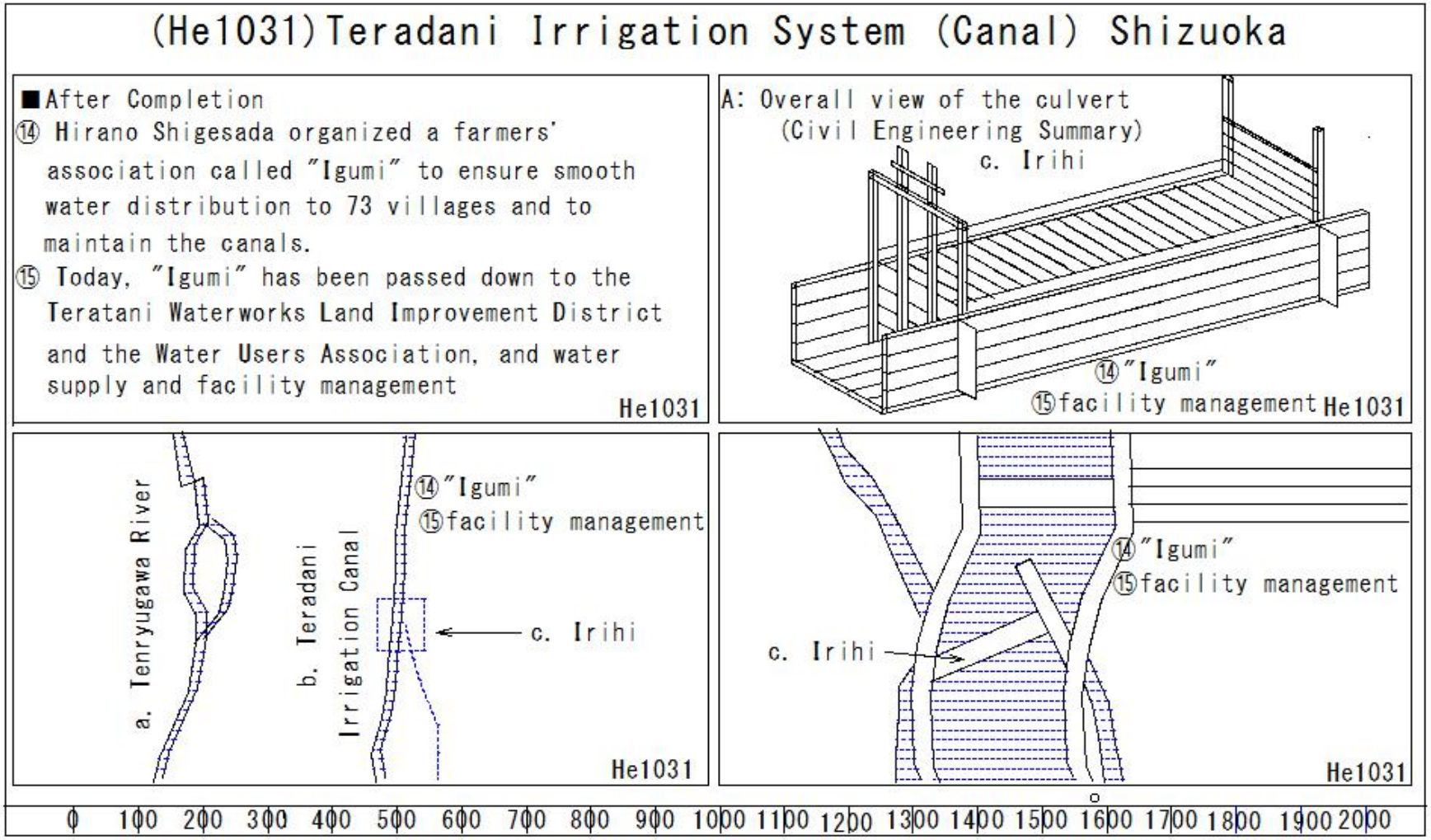
(He1029)Teradani Irrigation System (Canal) Shizuoka



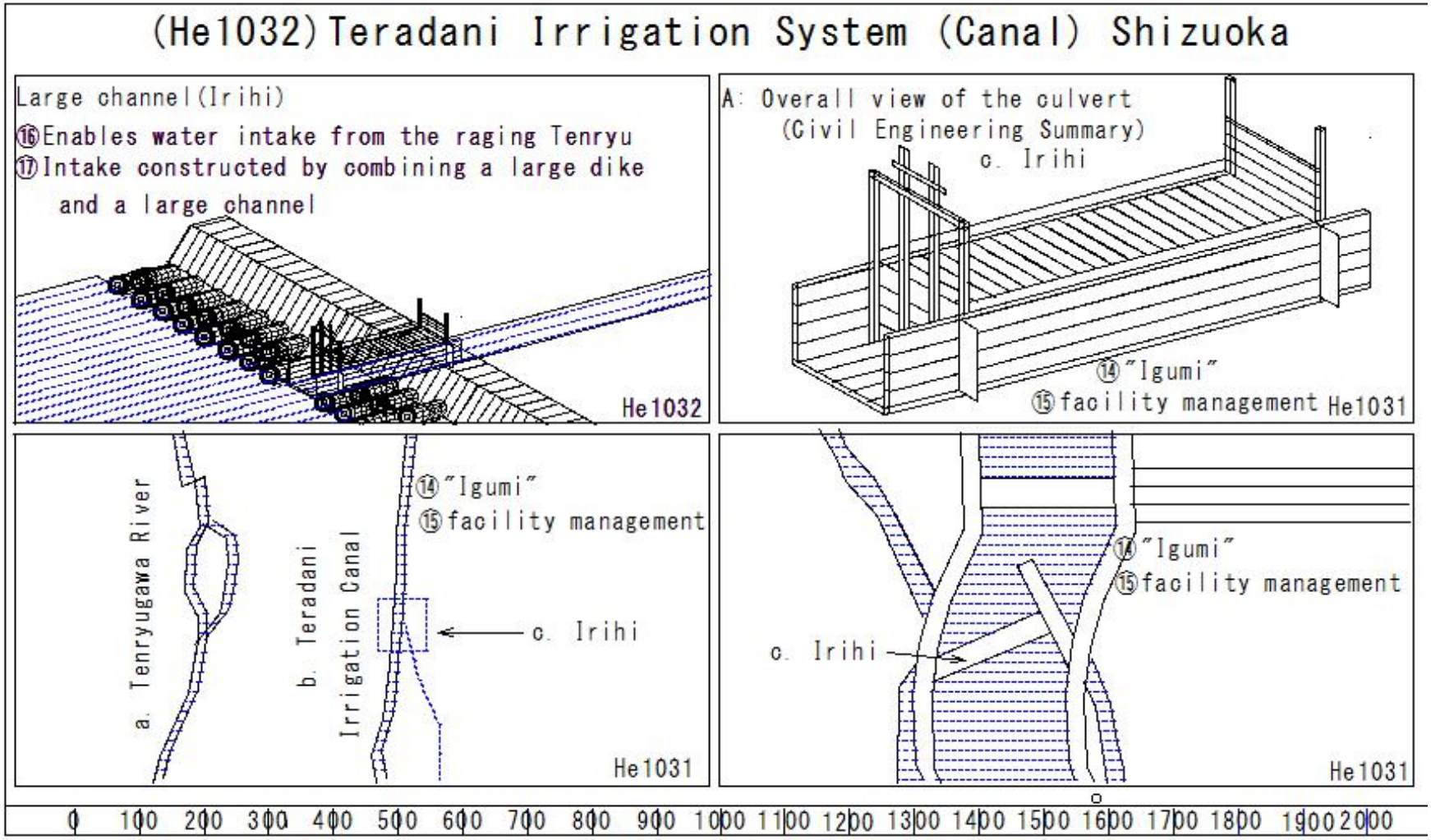
(He1030)Teradani Irrigation System (Canal) Shizuoka



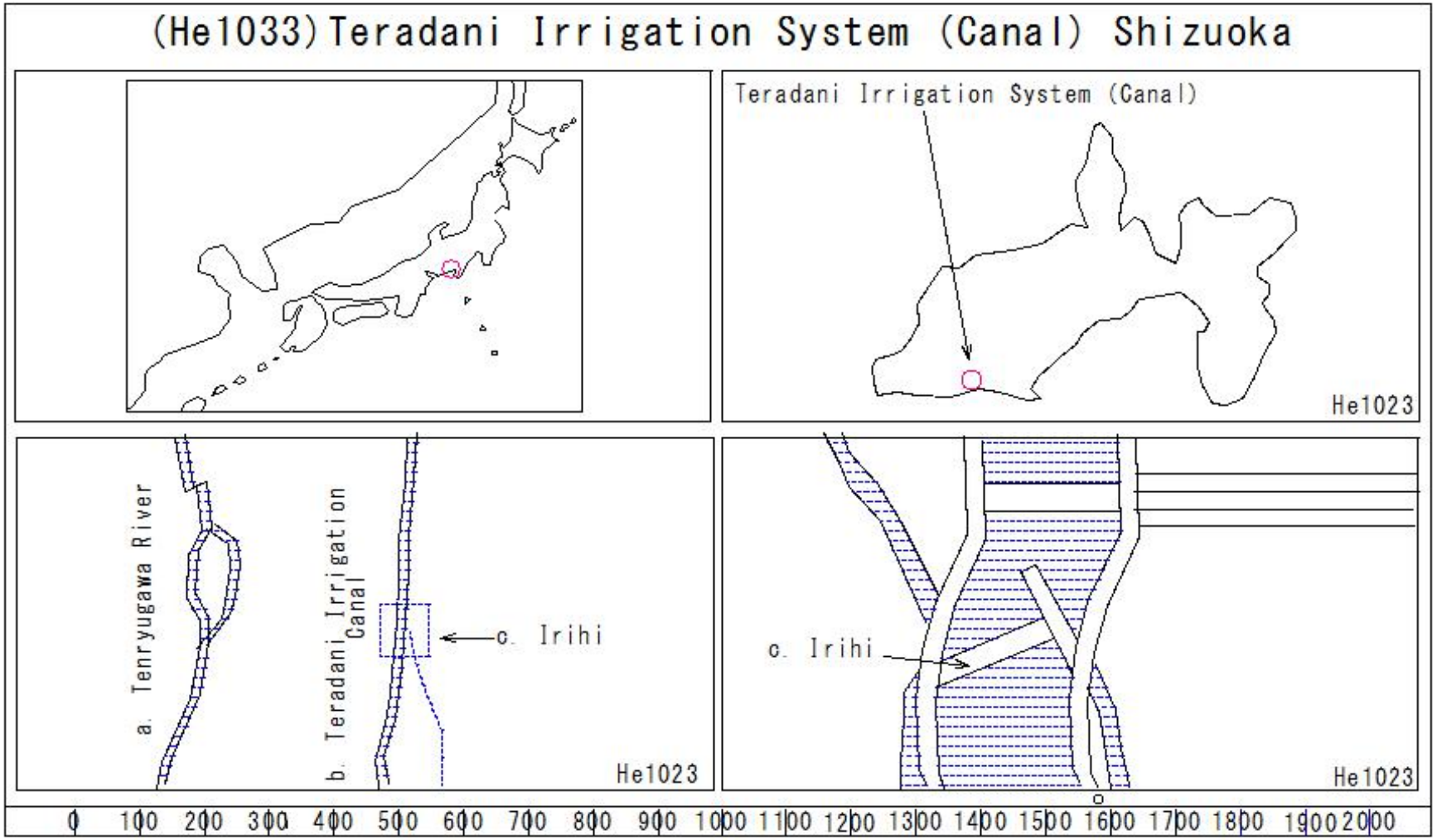
(He1031)Teradani Irrigation System (Canal) Shizuoka



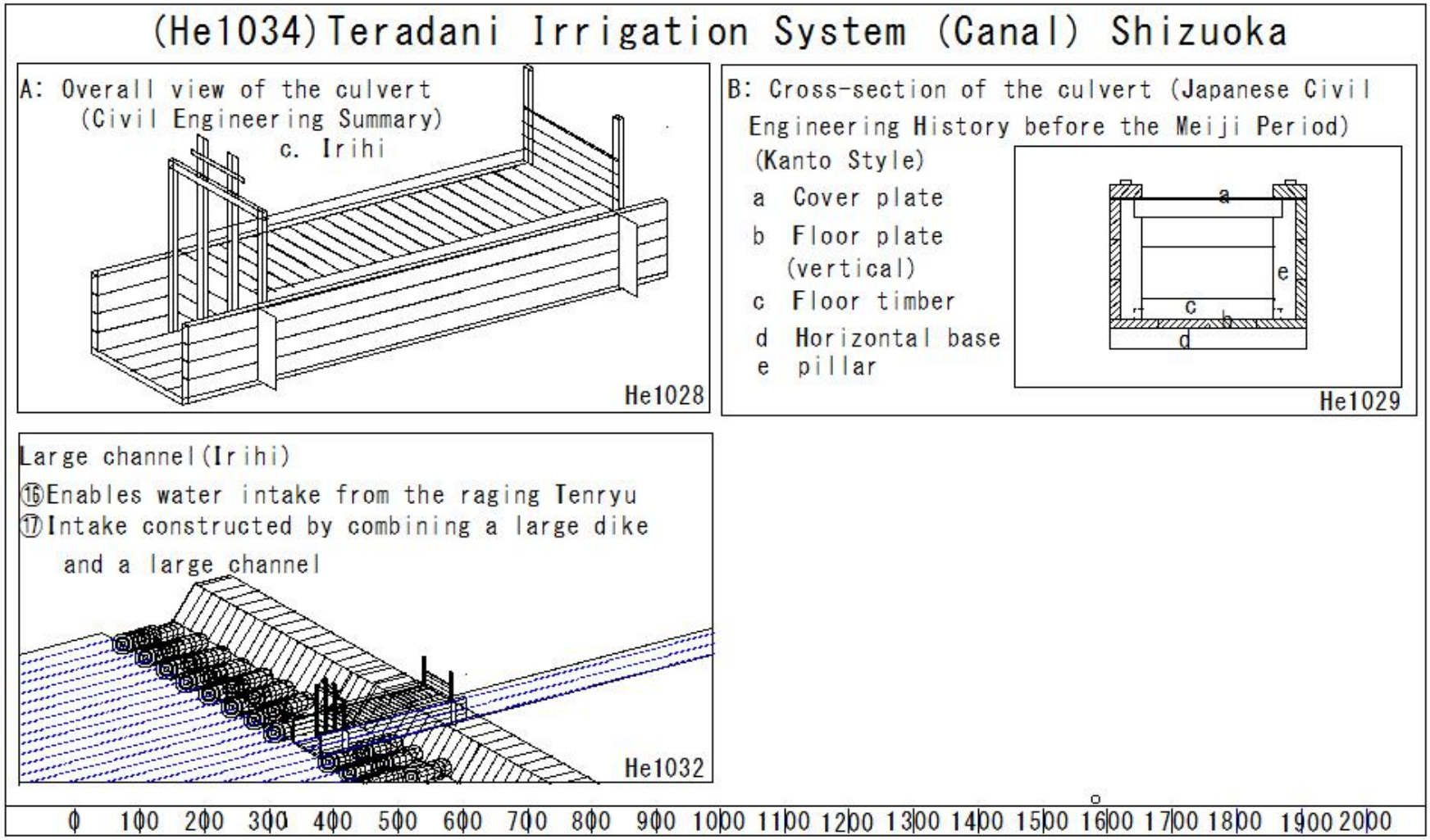
(He1032)Teradani Irrigation System (Canal) Shizuoka



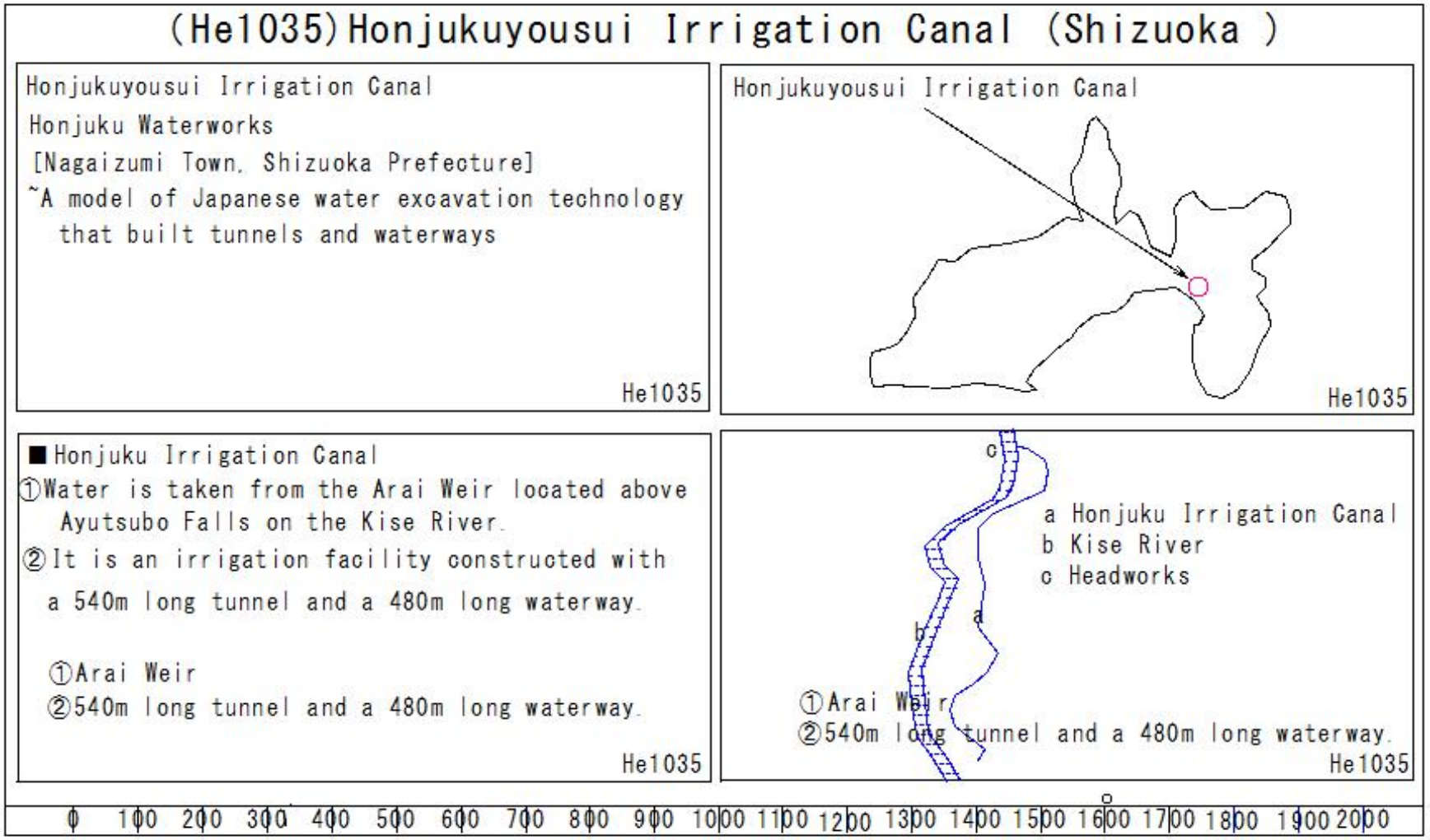
(He1033)Teradani Irrigation System (Canal) Shizuoka



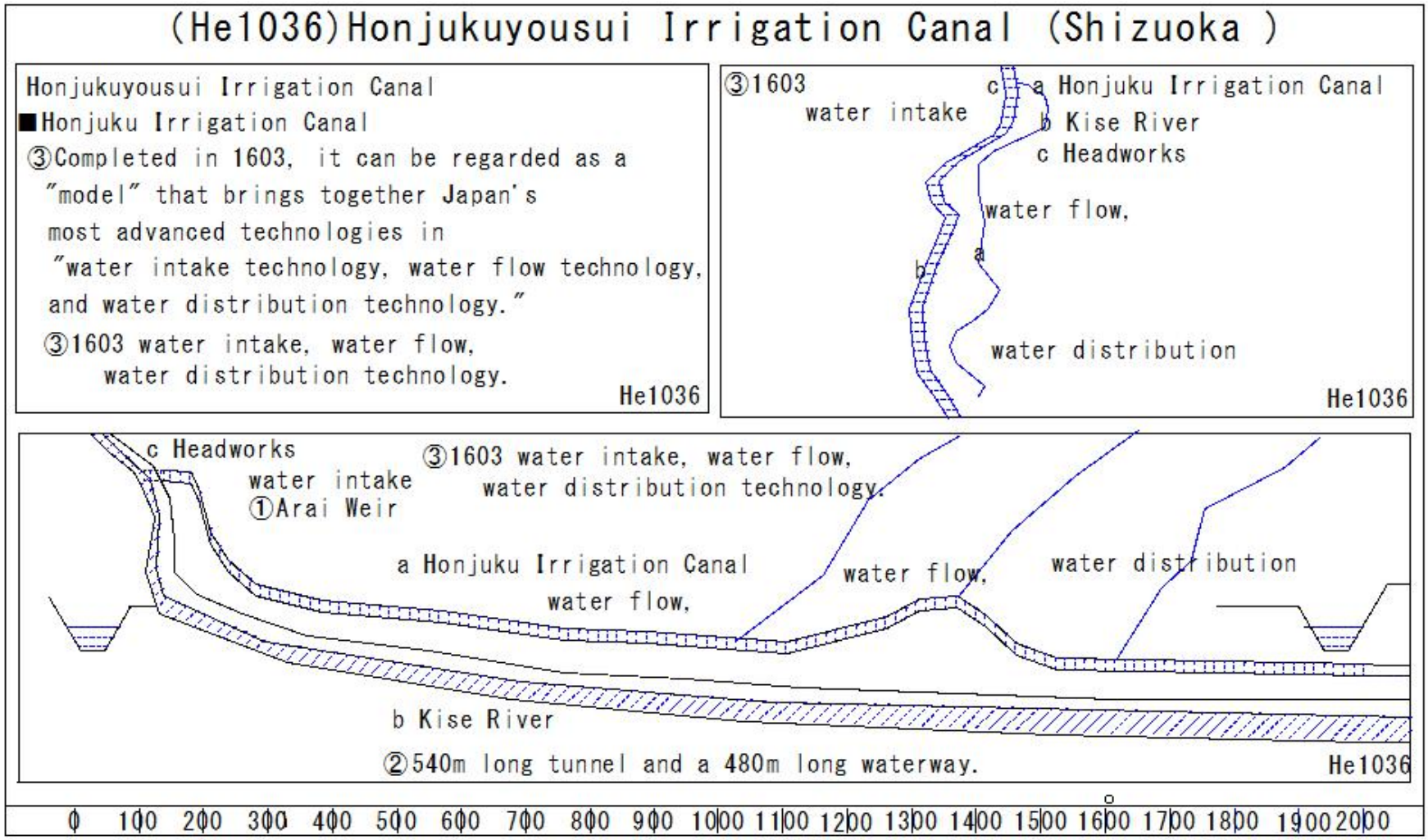
(He1034)Teradani Irrigation System (Canal) Shizuoka



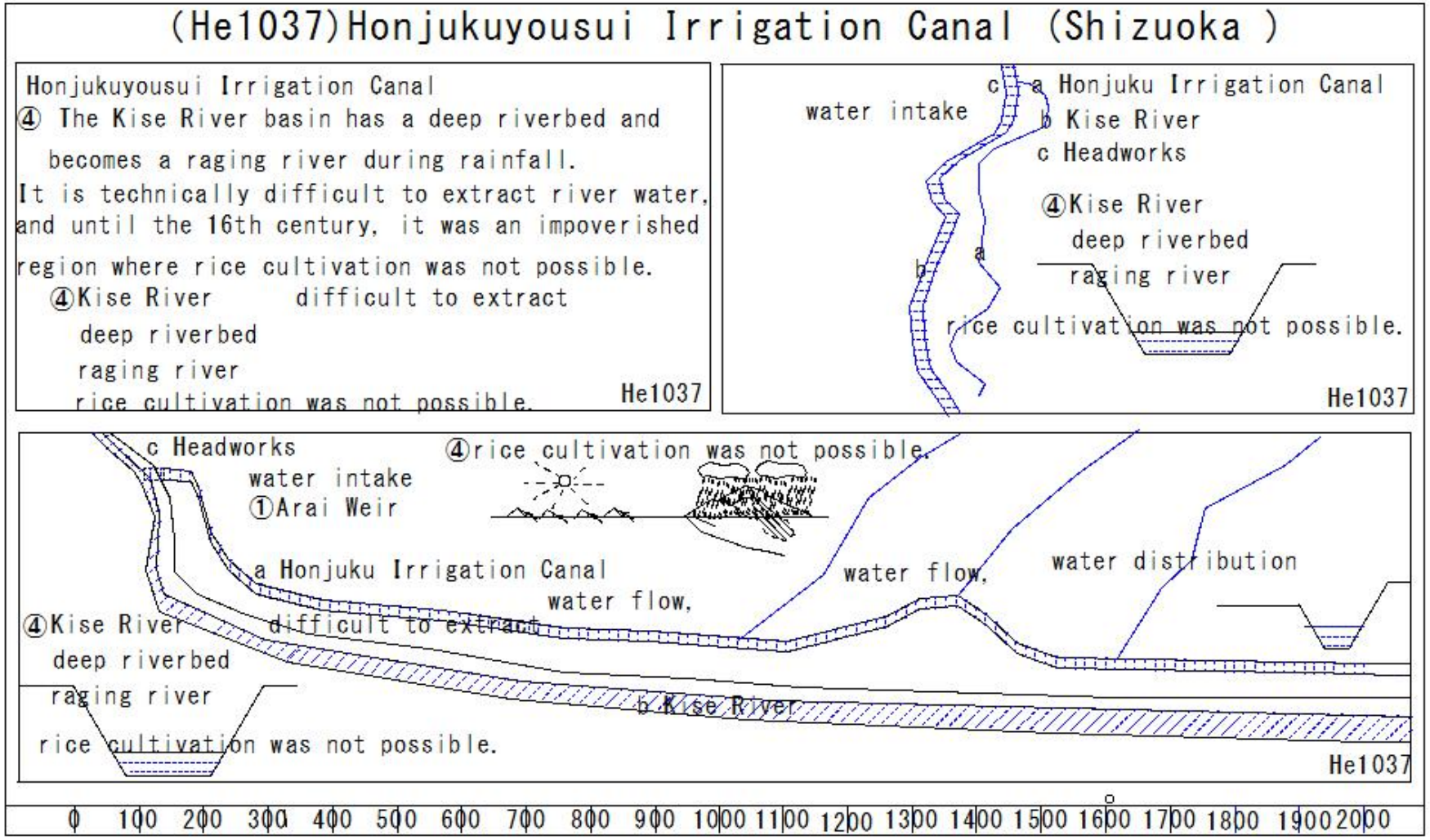
(He1035)Honjukuyousui Irrigation Canal (Shizuoka)



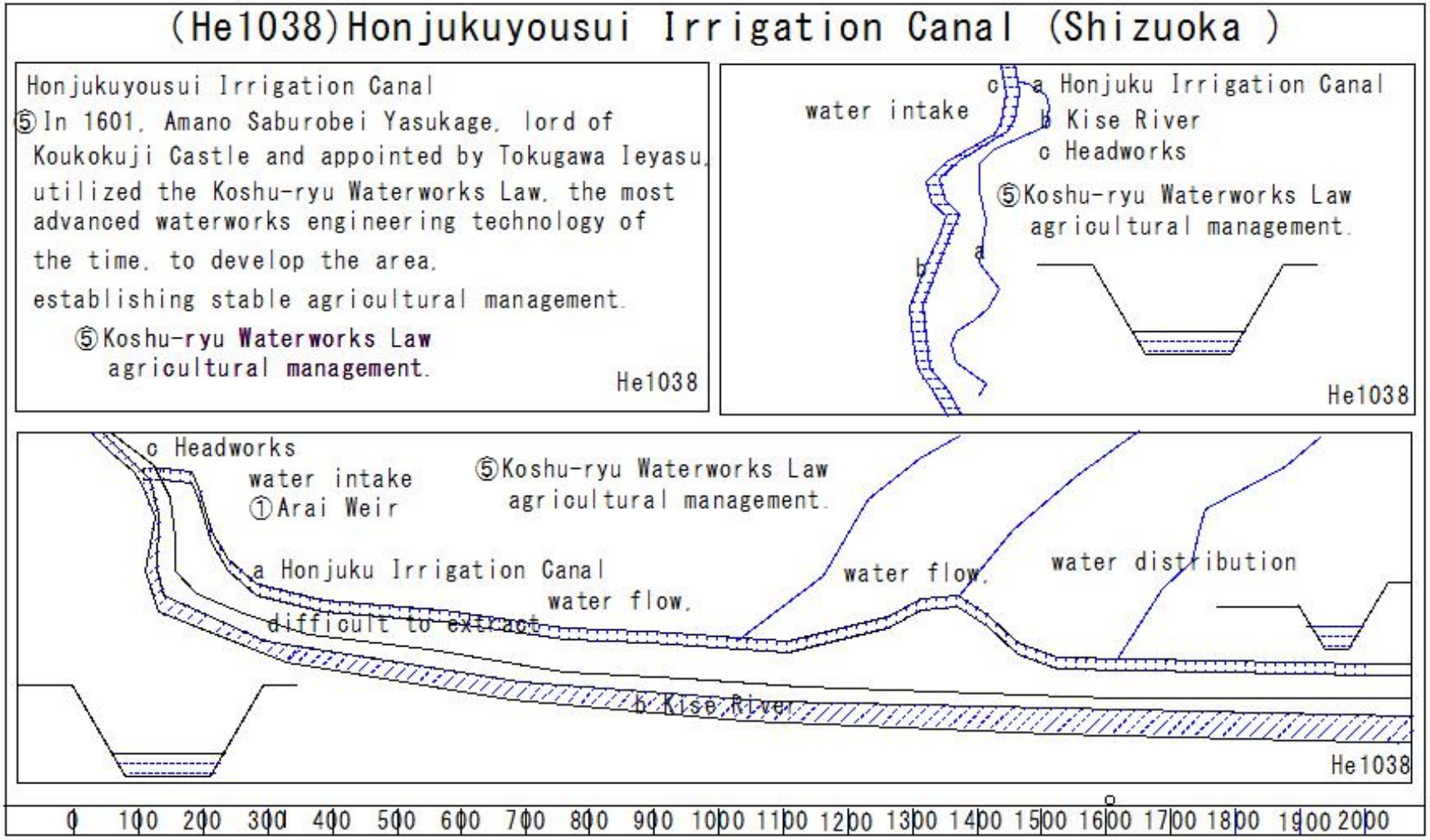
(He1036)Honjukuyousui Irrigation Canal (Shizuoka)



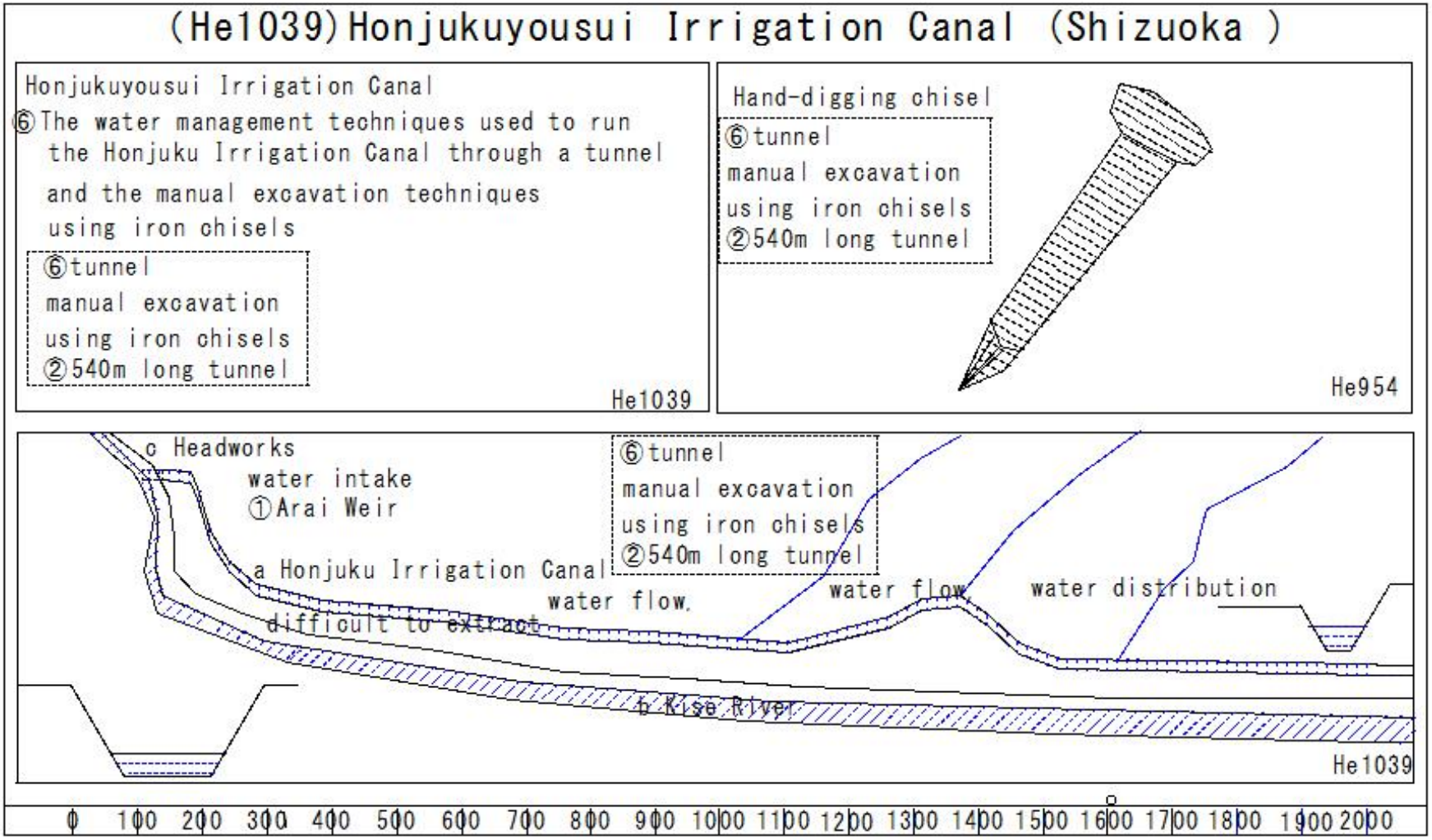
(He1037)Honjukuyousui Irrigation Canal (Shizuoka)



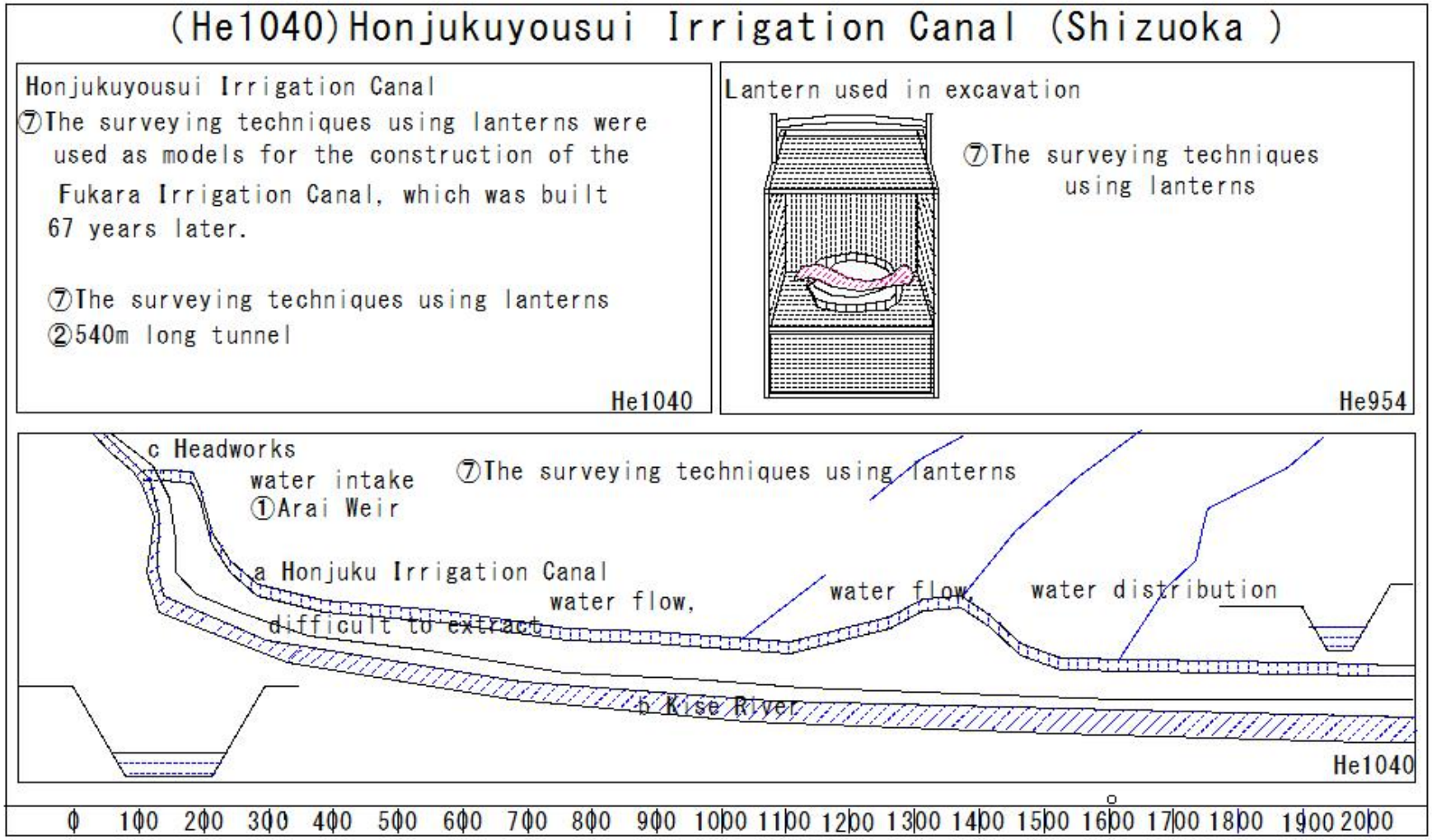
(He1038)Honjukuyousui Irrigation Canal (Shizuoka)



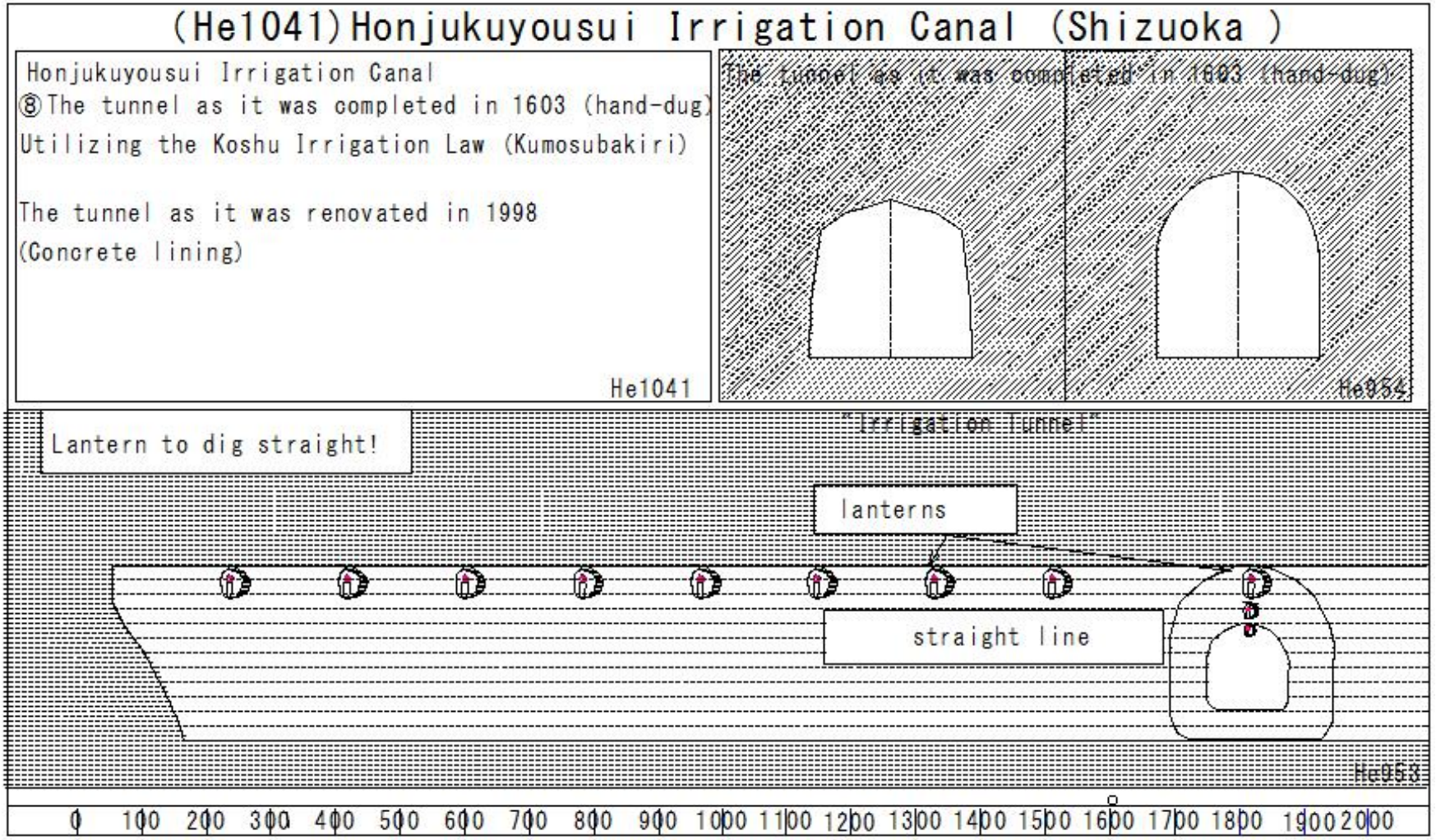
(He1039)Honjukuyousui Irrigation Canal (Shizuoka)



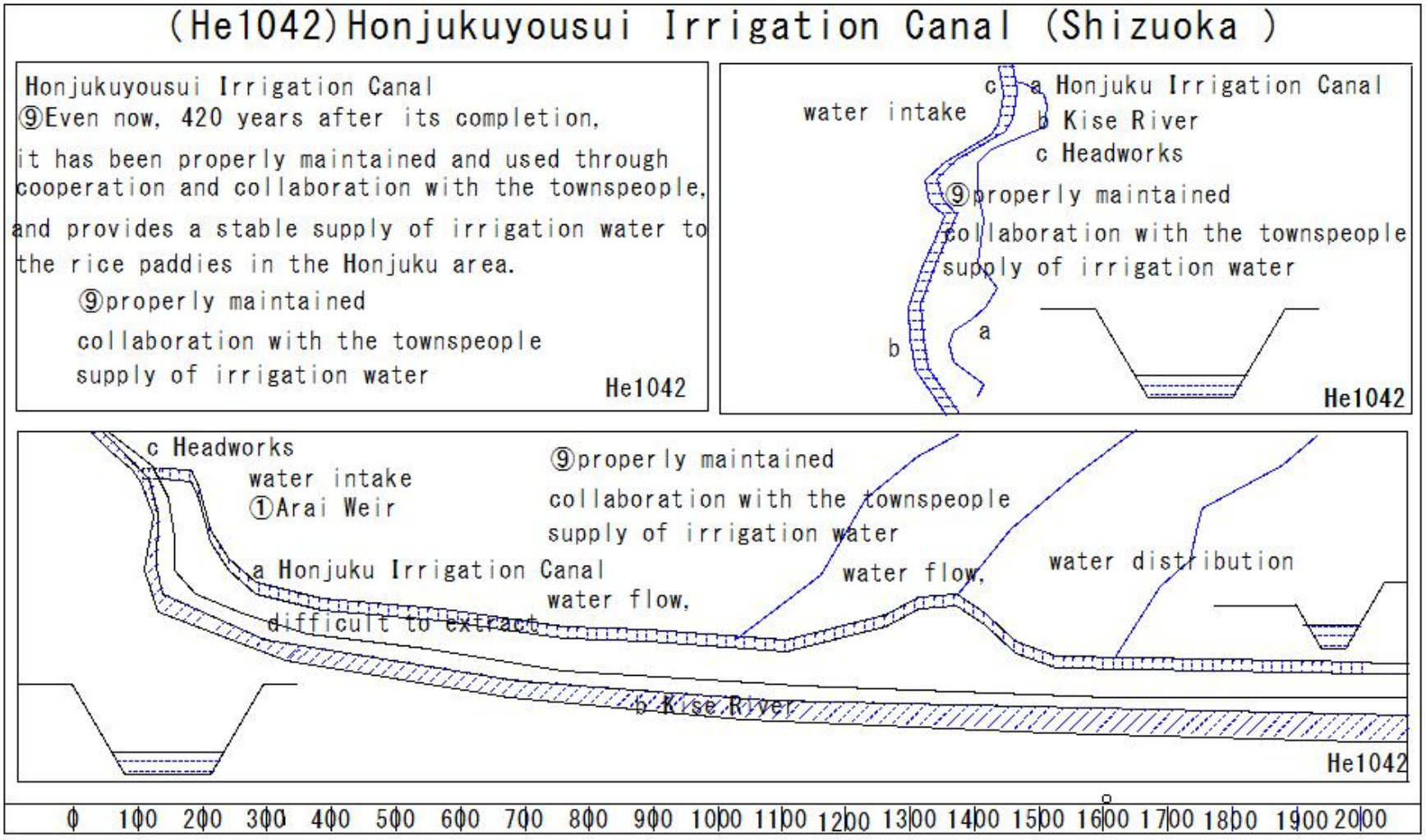
(He1040)Honjukuyousui Irrigation Canal (Shizuoka)



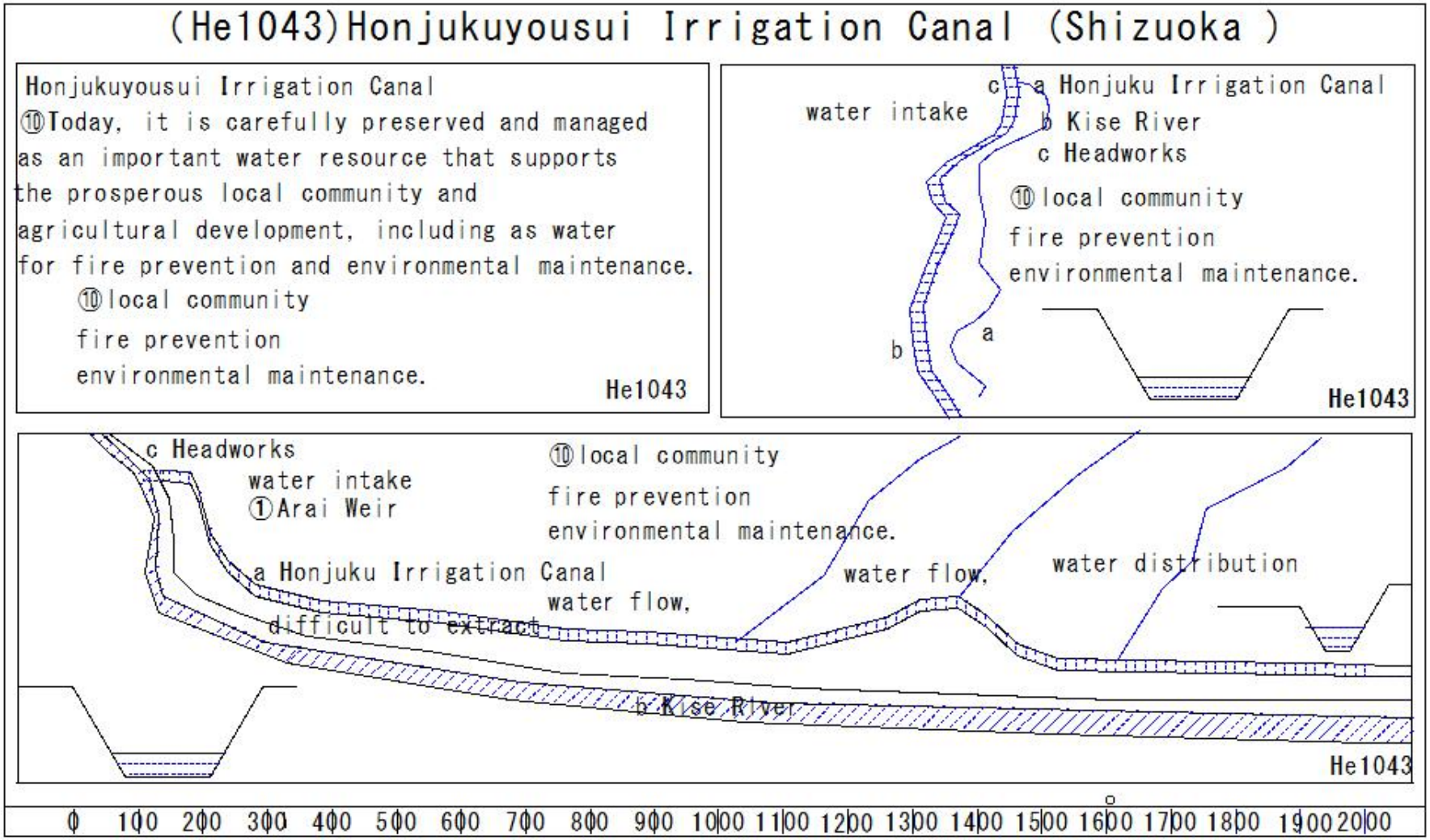
(He1041)Honjukuyousui Irrigation Canal (Shizuoka)



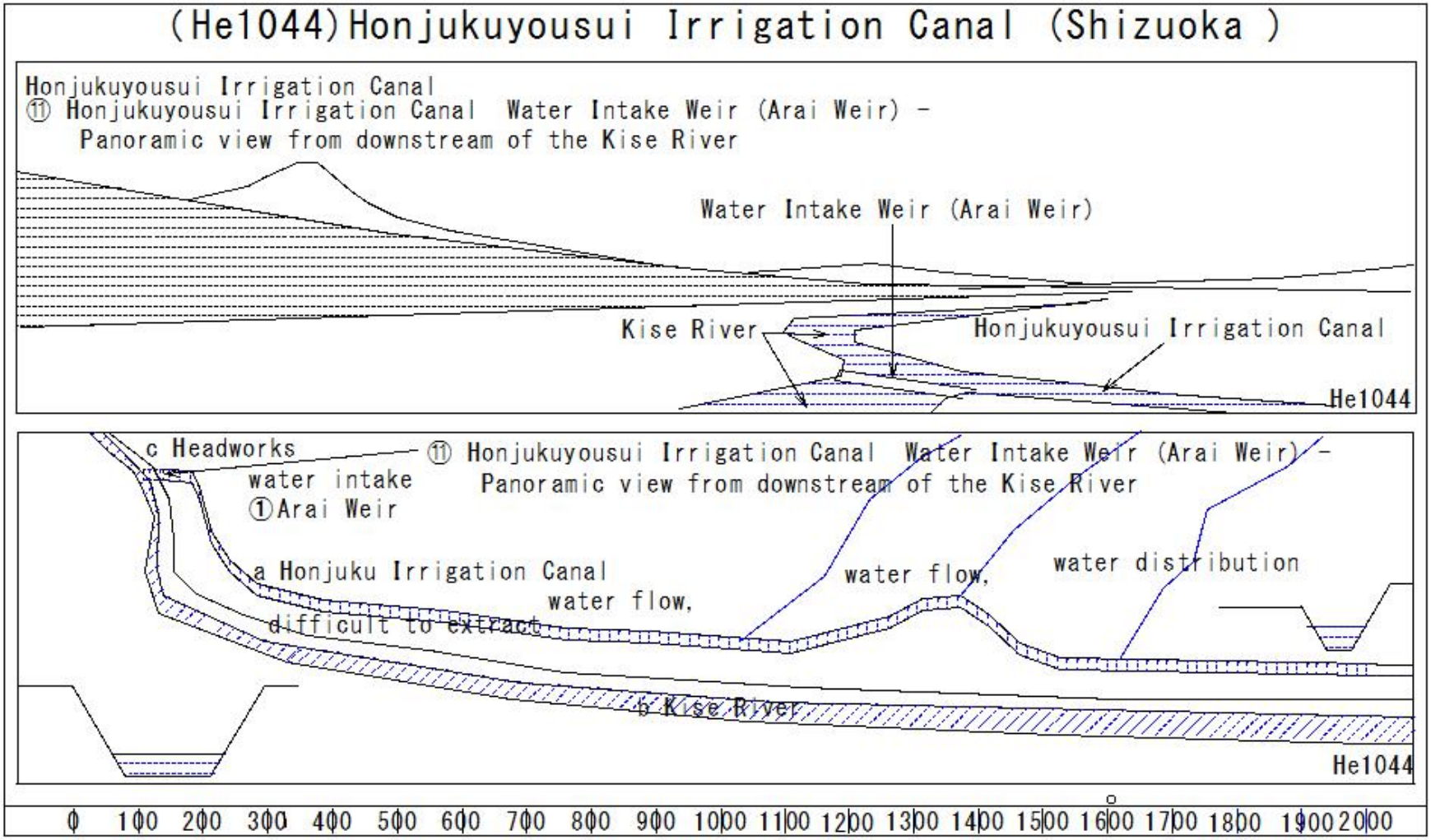
(He1042)Honjukuyousui Irrigation Canal (Shizuoka)



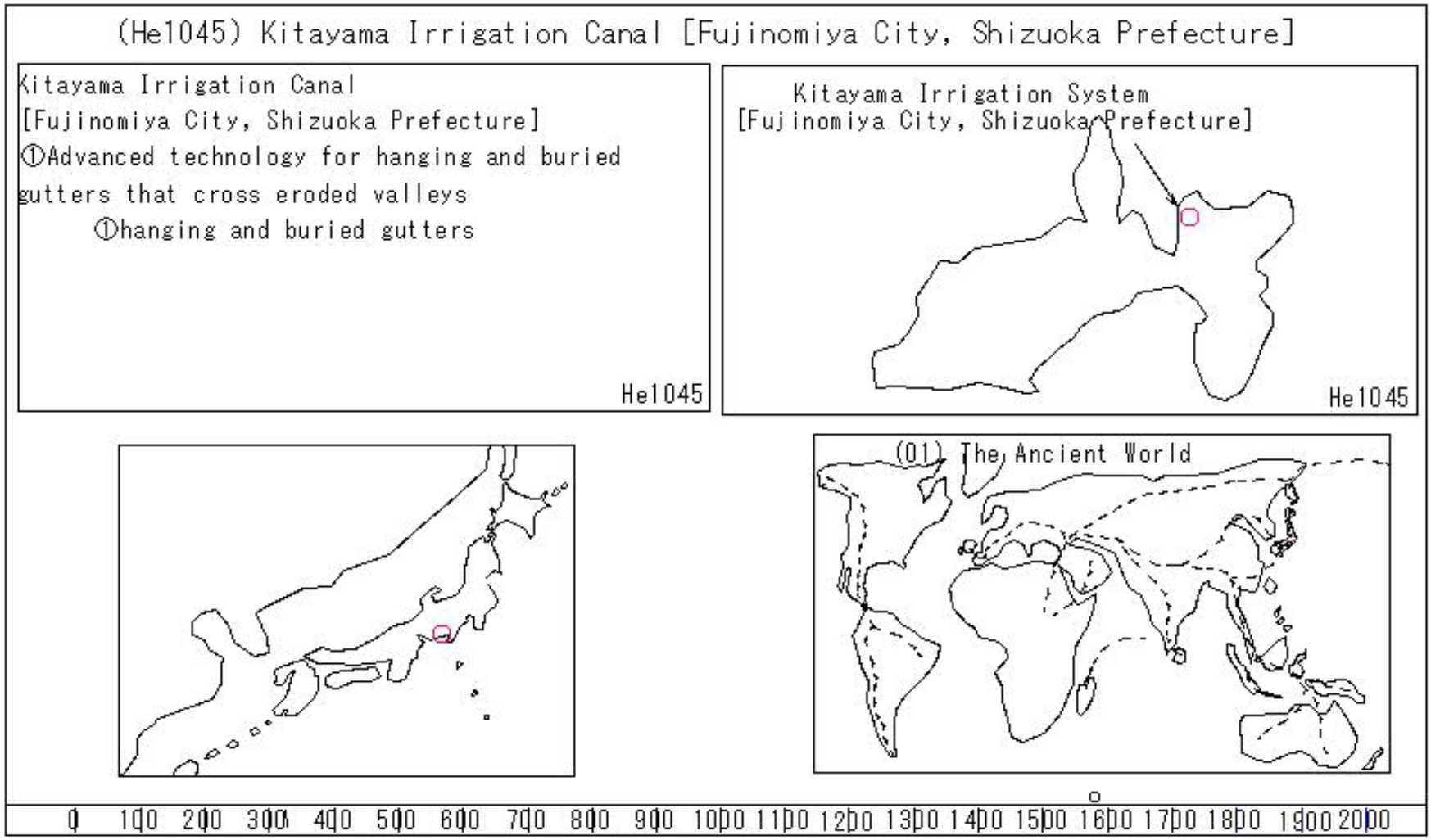
(He1043)Honjukuyousui Irrigation Canal (Shizuoka)



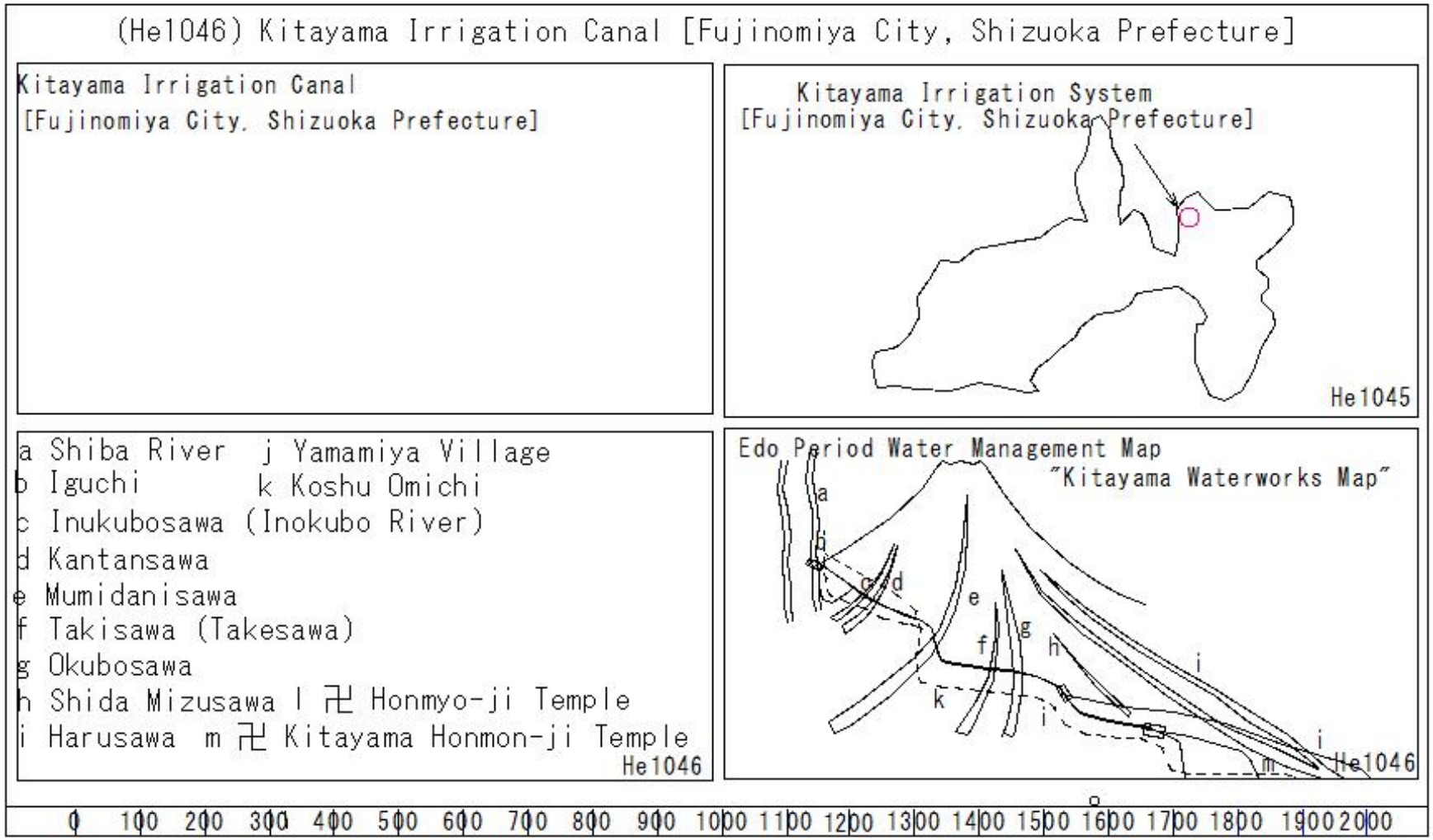
(He1044)Honjukuyousui Irrigation Canal (Shizuoka)



(He1045) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



(He1046) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



(He1047) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

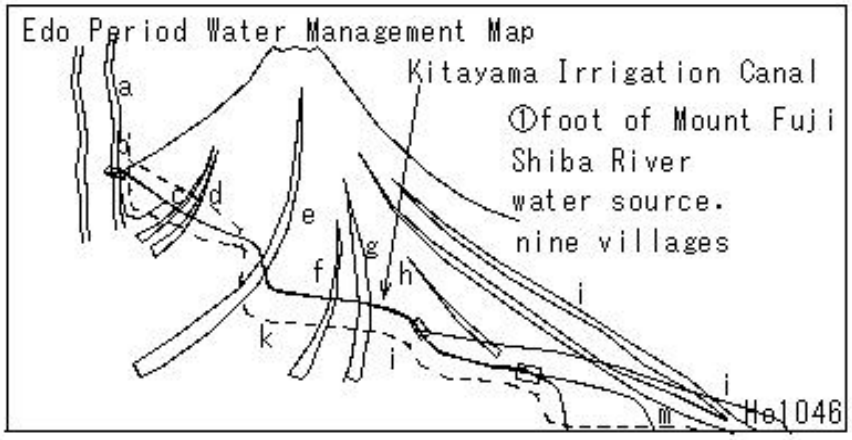
(He1047) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]

① The Kitayama Irrigation Canal is an irrigation canal that flows through the western foot of Mount Fuji, Japan's highest peak.
Drilling of the canal began toward the end of the Sengoku period, with the Shiba River as its water source.
By the mid-Edo period, it had grown into a massive canal that irrigated nine villages.

①foot of Mount Fuji water source.
Shiba River nine villages

a Shiba River j Yamamiya Village
b Iguchi k Koshu Omichi
c Inukubosawa (Inokubo River)
d Kantansawa
e Mumidanisawa
f Takisawa (Takesawa)
g Okubosawa
h Shida Mizusawa l 卍 Honmyo-ji Temple
i Harusawa m 卍 Kitayama Honmon-ji Temple
He1046



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1048) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

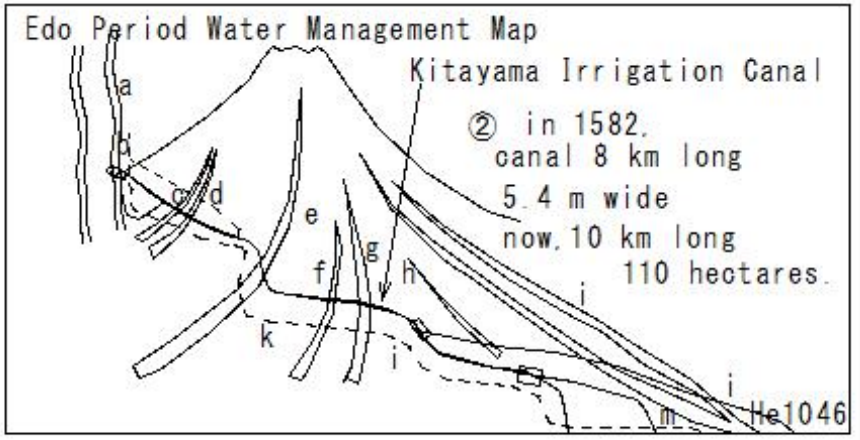
(He1048) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]
②Construction of the canal began under the orders of Tokugawa Ieyasu, who would later become Shogun of the Edo Shogunate.
Under his orders, in 1582, magistrate Ide Masatsugu constructed a canal 8 km long and 5.4 m wide.
The canal was subsequently extended by Ina Tadatsugu,
now it is approximately 10 km long with an irrigation area of 110 hectares.

②Construction of the canal in 1582, canal 8 km long 5.4 m wide; now, 10 km long 110 hectares.

a Shiba River
b Iguchi
c Inukubosawa (Inokubo River)
d Kantansawa
e Mumidanisawa
f Takisawa (Takesawa)
g Okubosawa
h Shida Mizusawa
i Harusawa
j Yamamiya Village
k Koshu Omichi
l 卍 Honmyo-ji Temple
m 卍 Kitayama Honmon-ji Temple

He1046

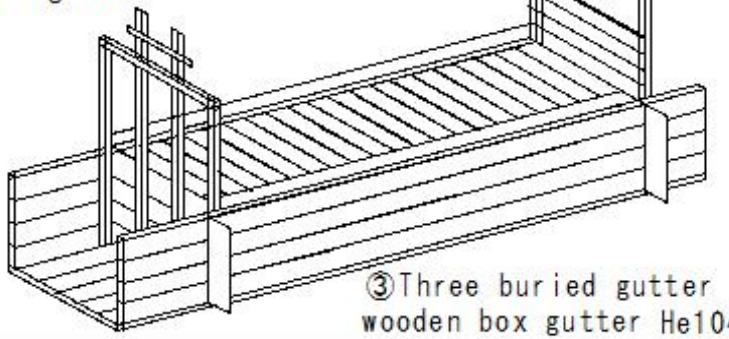


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1049) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]
③The irrigation canal crossed seven eroded valleys at the foot of Mount Fuji.
Three buried gutter, each containing a wooden box gutter, carried water.
The largest gutter, both buried and hanging, was over 30 meters long.
③Three buried gutter wooden box gutter
He1049

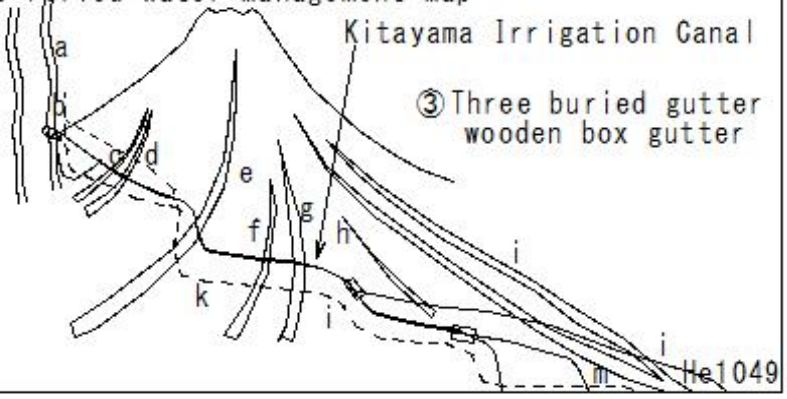
Illustration of the Ushigoe Buried gutter



③Three buried gutter wooden box gutter He1049

a Shiba River
b Iguchi
c Inukubosawa (Inokubo River)
d Kantansawa
e Mumidanisawa
f Takisawa (Takesawa)
g Okubosawa
h Shida Mizusawa
i Harusawa
j Yamamiya Village
k Koshu Omichi
l 卍 Honmyo-ji Temple
m 卍 Kitayama Honmon-ji Temple
He1046

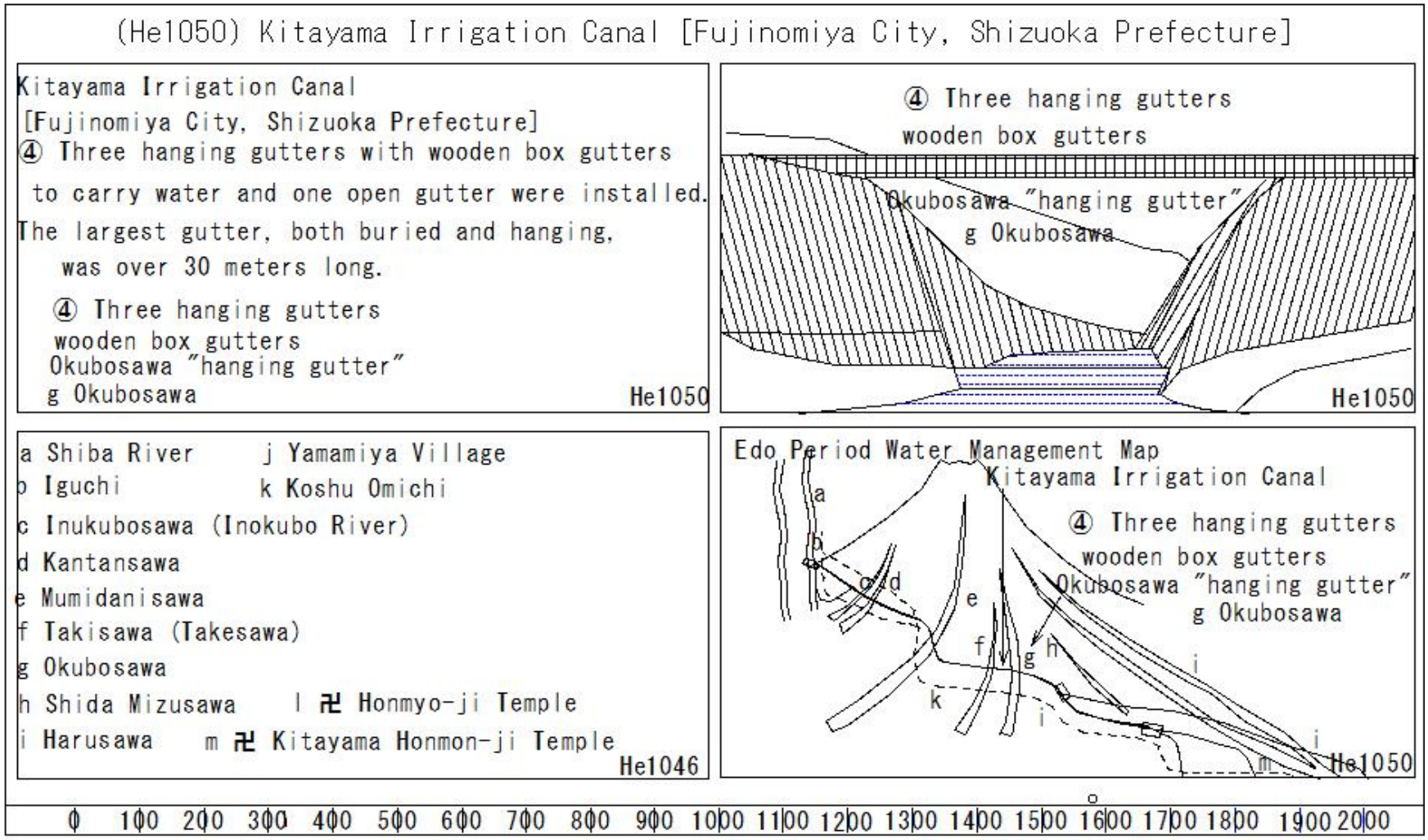
Edo Period Water Management Map



He1049

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1050) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



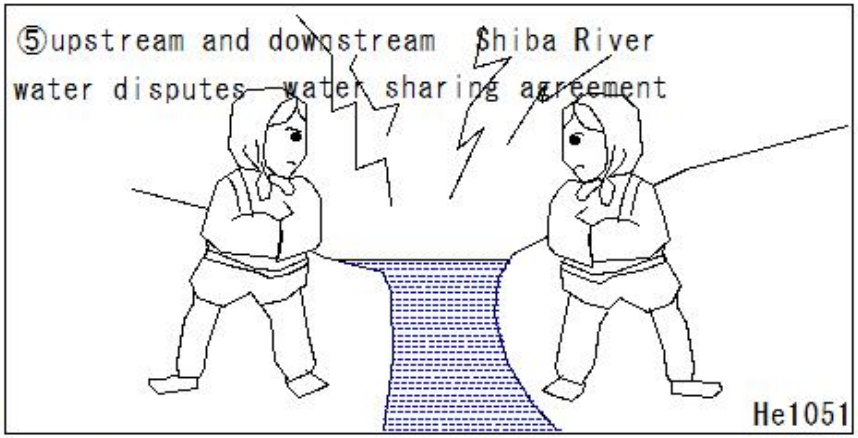
(He1051) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]

⑤In the irrigation area, water disputes frequently arose between villages upstream and downstream of the Shiba River, but the people resolved the disputes through negotiation and signed a water sharing agreement in 1889.

⑤upstream and downstream Shiba River water disputes water sharing agreement

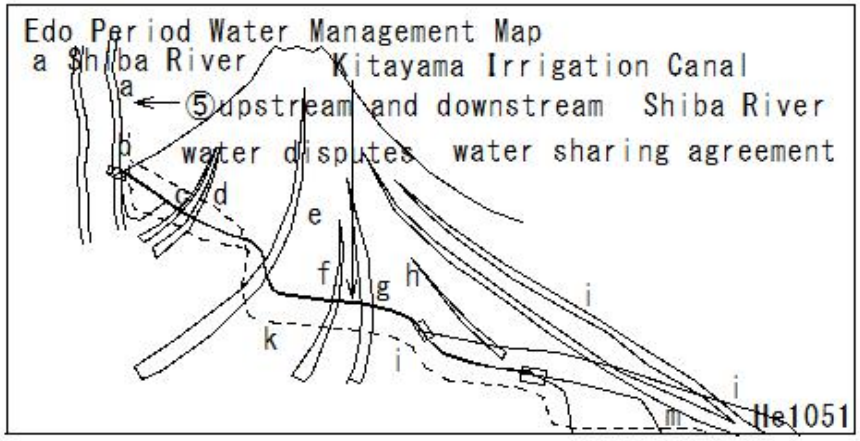
He1051



He1051

j Yamamiya Village
b Iguchi
k Koshu Omichi
c Inukubosawa (Inokubo River)
d Kantansawa
e Mumidanisawa
f Takisawa (Takesawa)
g Okubosawa
h Shida Mizusawa
l 卍 Honmyo-ji Temple
i Harusawa
m 卍 Kitayama Honmon-ji Temple

He1046



He1051

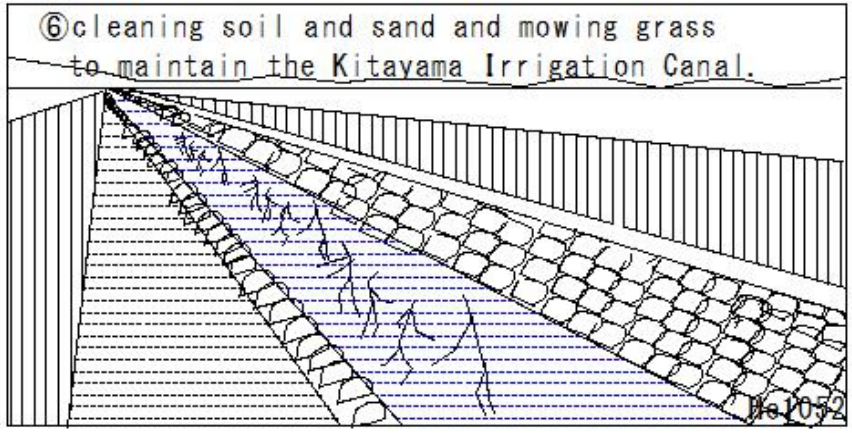
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1052) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]
⑥Since then, the Fujinomiya City Kitayama Irrigation Canal Management Cooperation Committee has been regularly cleaning soil and sand and mowing grass to maintain the Kitayama Irrigation Canal.

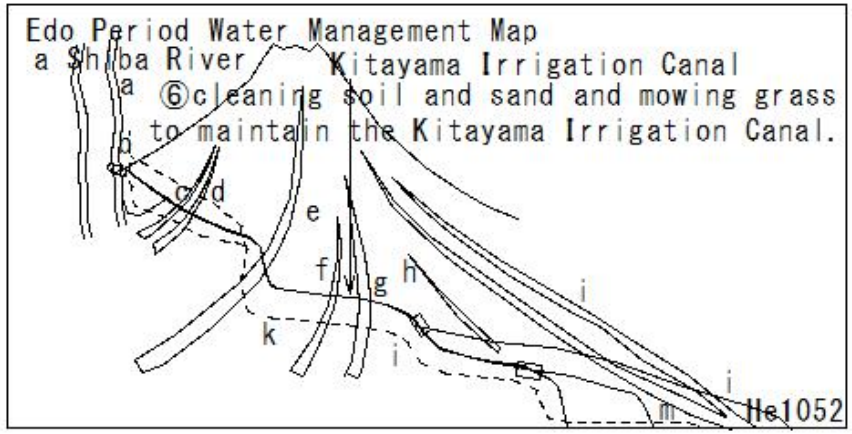
⑥cleaning soil and sand and mowing grass to maintain the Kitayama Irrigation Canal.

He1052



a Shiba River
b Iguchi
c Inukubosawa (Inokubo River)
d Kantansawa
e Mumidanisawa
f Takisawa (Takesawa)
g Okubosawa
h Shida Mizusawa
i Harusawa
j Yamamiya Village
k Koshu Omichi
l 卍 Honmyo-ji Temple
m 卍 Kitayama Honmon-ji Temple

He1046



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1053) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]

⑦Currently, three sides of the Kitayama Irrigation Canal have been renovated with concrete, utilizing the abundant water volume and head, small-scale hydroelectric power generation is being carried out at four locations.

The combined maximum output is 428 kW, generating 2,437 MWh of electricity.

He1053

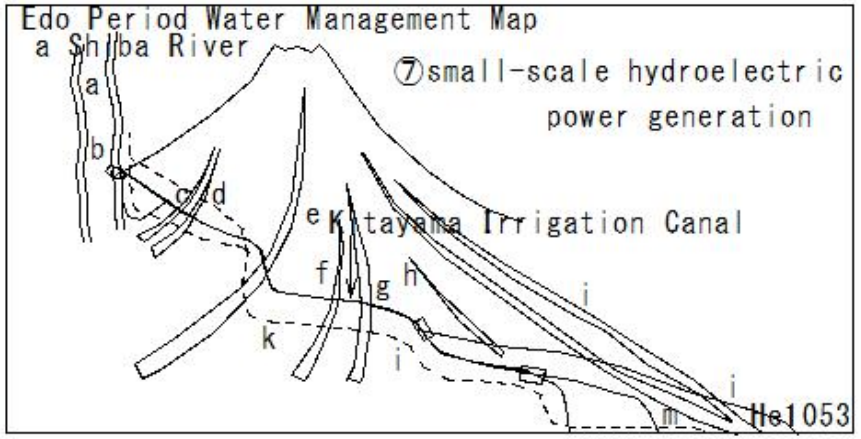
This has reduced CO2 emissions by 1,048 tons per year, producing clean, carbon dioxide-free electricity.

⑦small-scale hydroelectric power generation 428 kW, generating 2,437 MWh clean, carbon dioxide-free electricity.

He1053

a Shiba River
b Iguchi
c Inukubosawa (Inokubo River)
d Kantansawa
e Mumidanisawa
f Takisawa (Takesawa)
g Okubosawa
h Shida Mizusawa
i Harusawa
j Yamamiya Village
k Koshu Omichi
l 卍 Honmyo-ji Temple
m 卍 Kitayama Honmon-ji Temple

He1046



He1053

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1054) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]

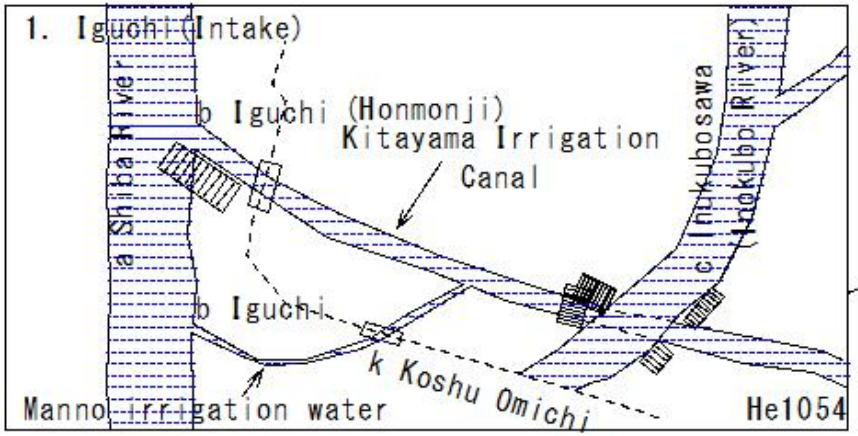
1. Iguchi(Intake)

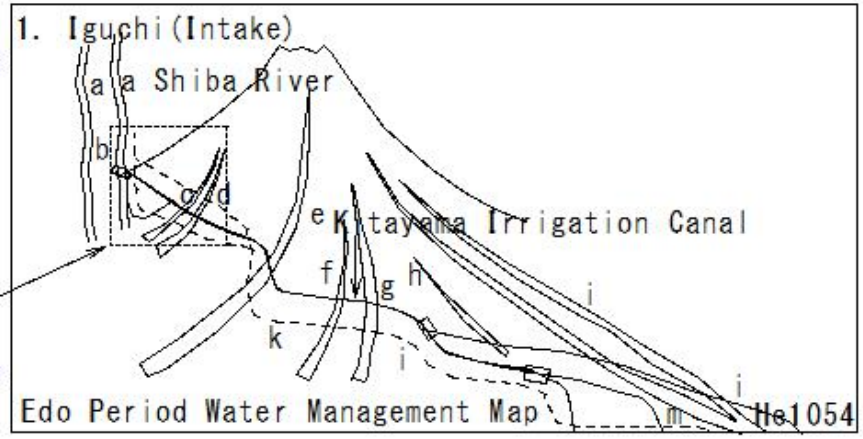
The Kitayama Irrigation Canal Intake underwent renovations in 1976 and 1977, but foundation stones and leveling stones installed in 1889 remain.

Currently, it also serves as a water intake for the Kitayama Water Purification Plant, the city's water supply system.

The Manno Irrigation Canal Intake is located approximately 100 meters downstream from the Kitayama Irrigation Canal Intake.
It flows approximately 500 meters before merging with the Kitayama Irrigation Canal.

He1054



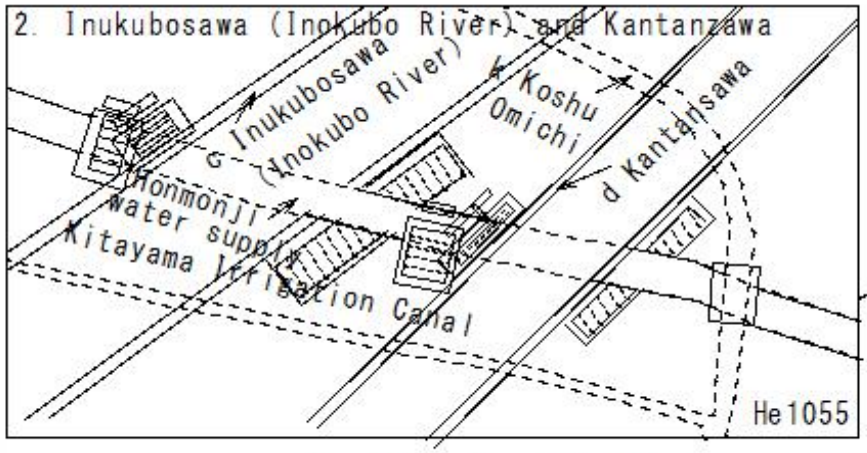


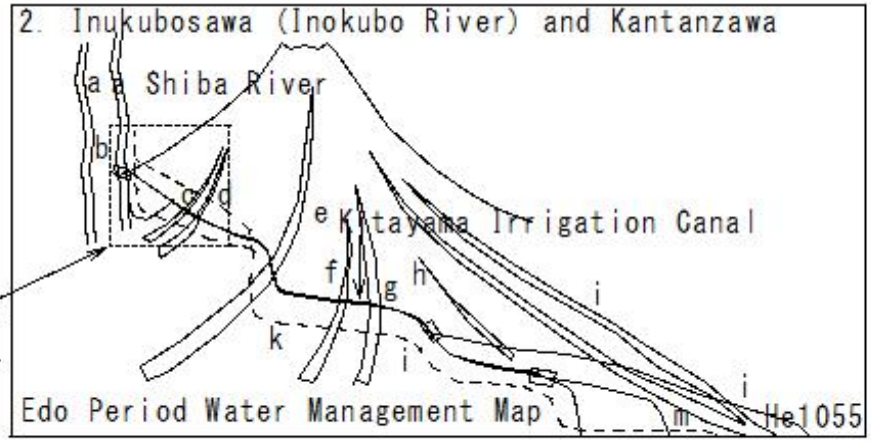
0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1055) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]
2. Inukubosawa (Inokubo River) and Kantanzawa
Inukubosawa was converted from a hanging canal to a buried canal in 1834.
At that time, it was 20 ken (approximately 36 m) long and 6 shaku (approximately 1.8 m) wide.
The buried canal is made of wood, and a sluice gate is installed on the upstream side
(left side of the illustration) to prevent bad water from entering.
A buried canal was built for Kantanzawa in 1862, and it was renovated in 1908.
A monument commemorating this canal has been erected on top of it.

He1055





0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1056) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

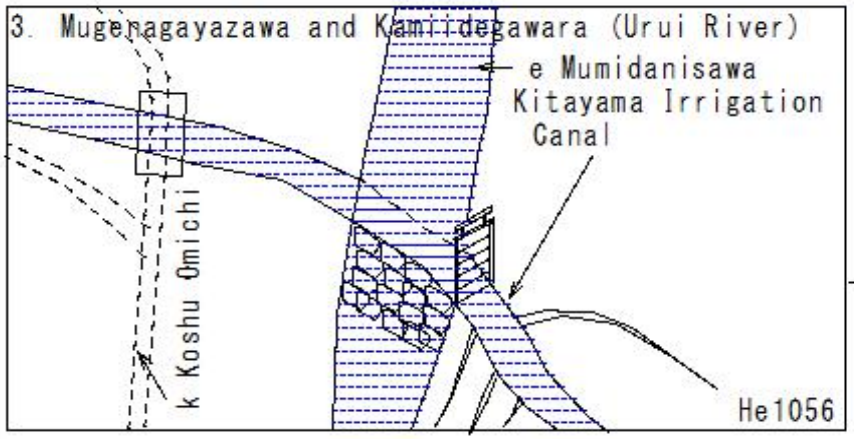
Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]
3. Mugenagayazawa and Kamiidegawara (Urui River)

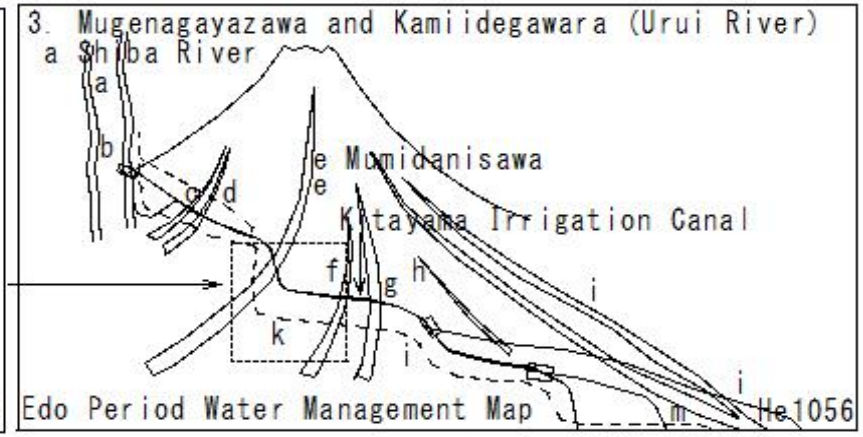
Mugenagayazawa refers to a large stream. During the Edo period, this area was called Kamiidegawara. Currently, the section downstream from Osawa Bridge is called the Jun'i River.

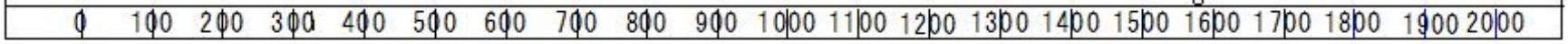
The Kitayama Irrigation Canal was constructed by lining large stones on the riverbank to create a weir, and then covering it with brushwood (tree branches) to prevent water leakage. During heavy floods, the weir would be washed away and sand would flow into the moat, causing frequent damage.

It appears that in 1862, along with the Kantanzawa, it was renovated into a buried culvert.

He1056







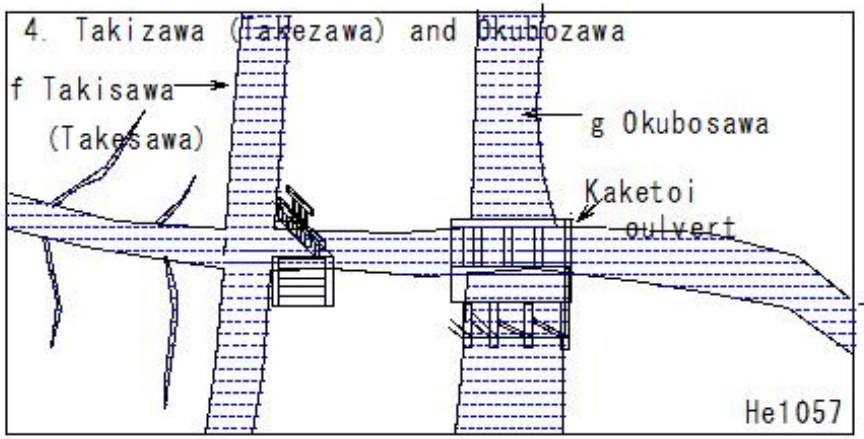
(He1057) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

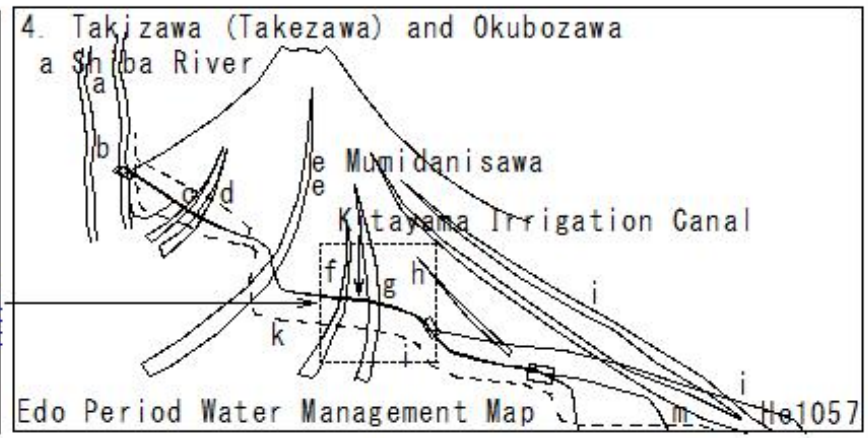
Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]

4. Takizawa (Takezawa) and Okubozawa

At Takizawa (Takezawa), you can see the sluice gates and drainage frames of the wells. The Okubozawa culvert was a large structure, measuring approximately 30 meters in length, 1.4 meters in width, and 50 cm in height, with pillars over 8 meters high.

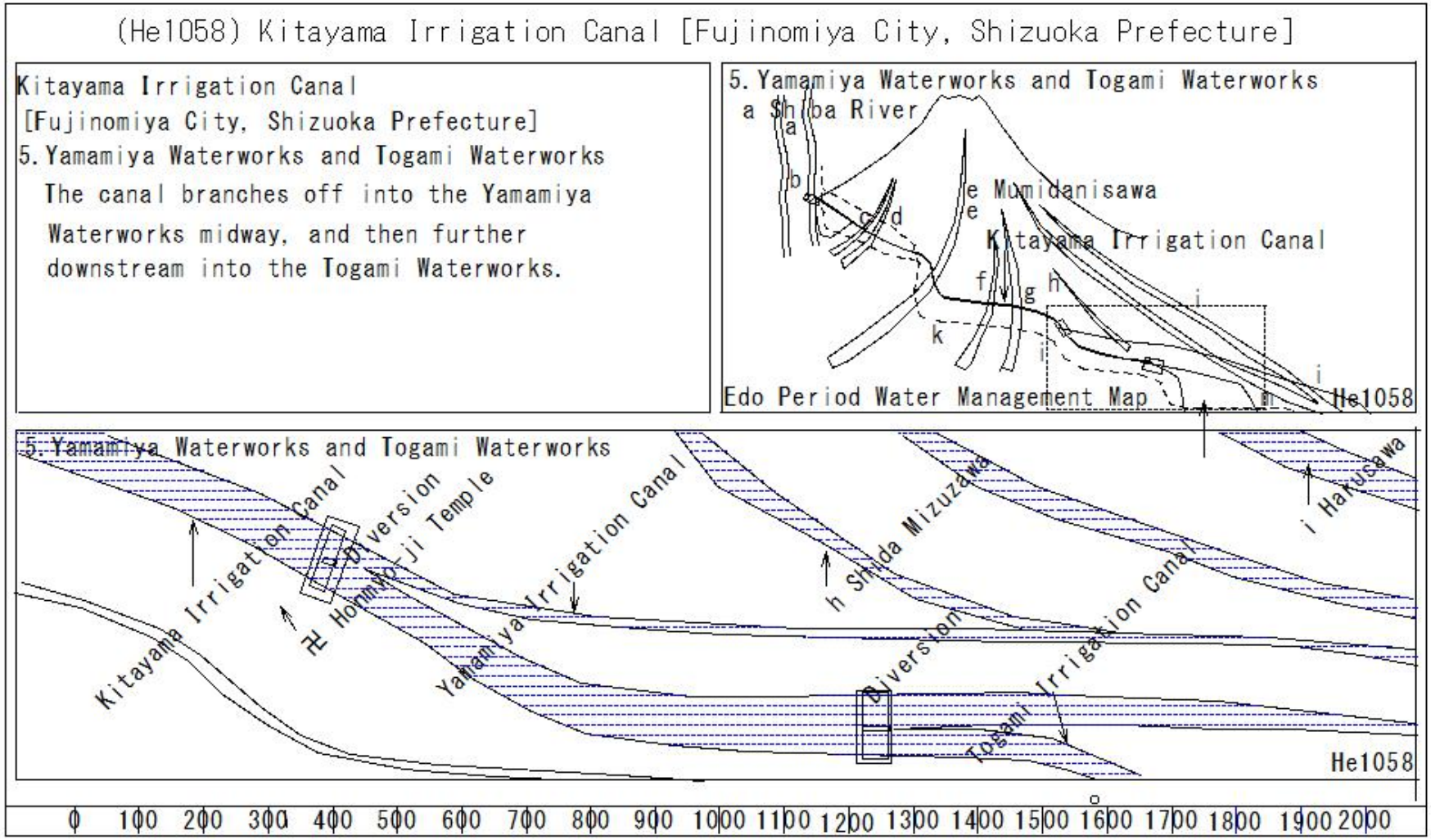
He1057



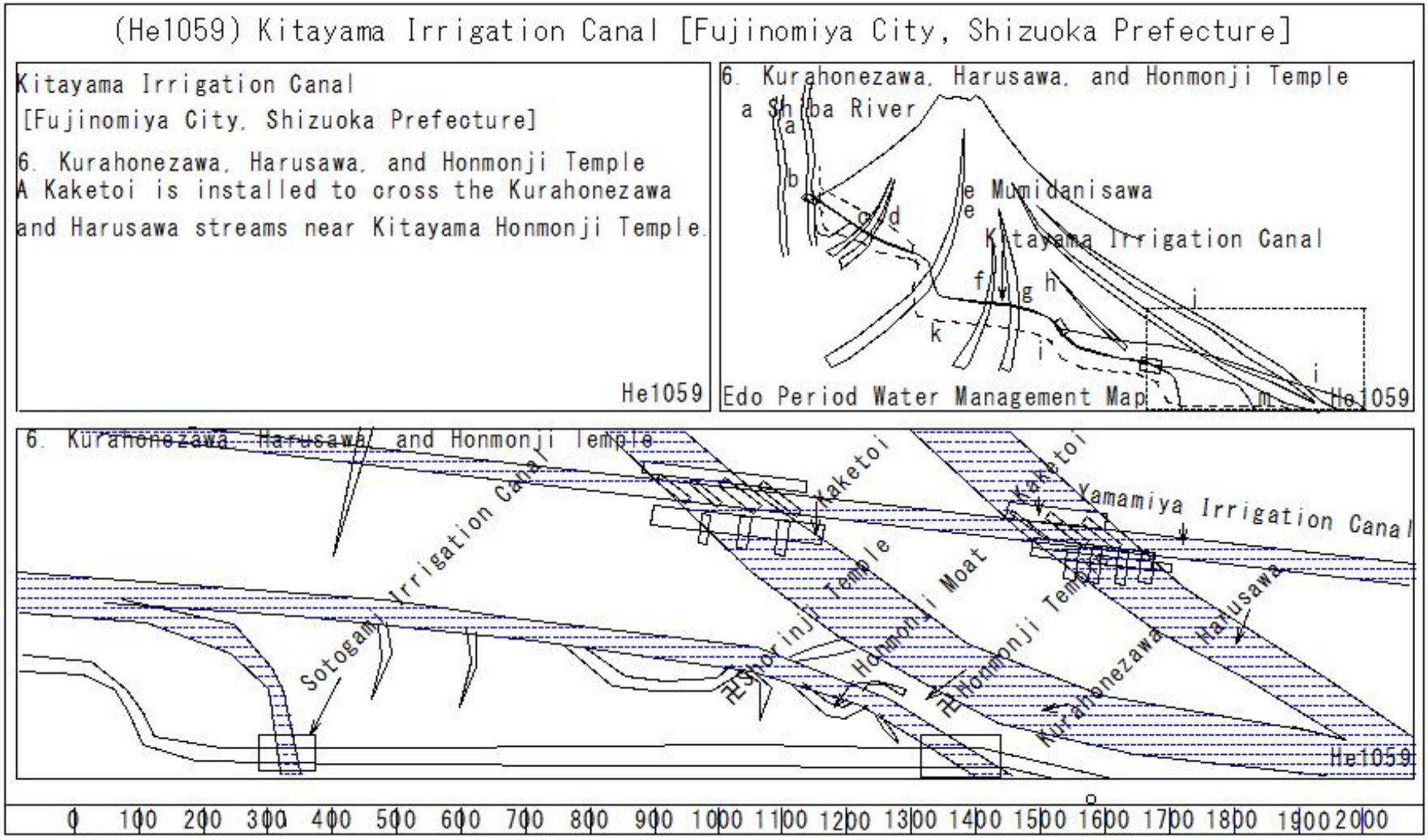


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

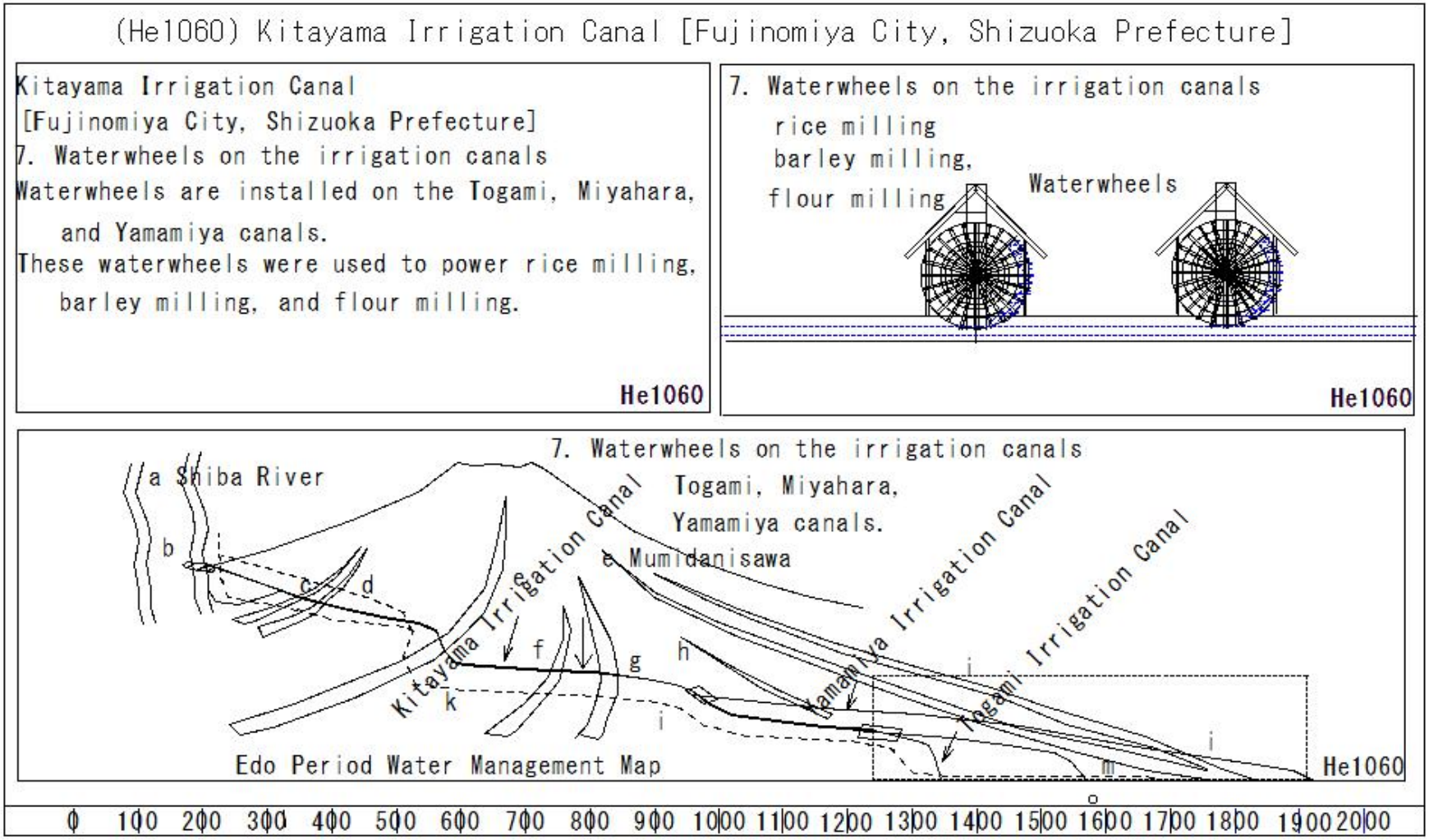
(He1058) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



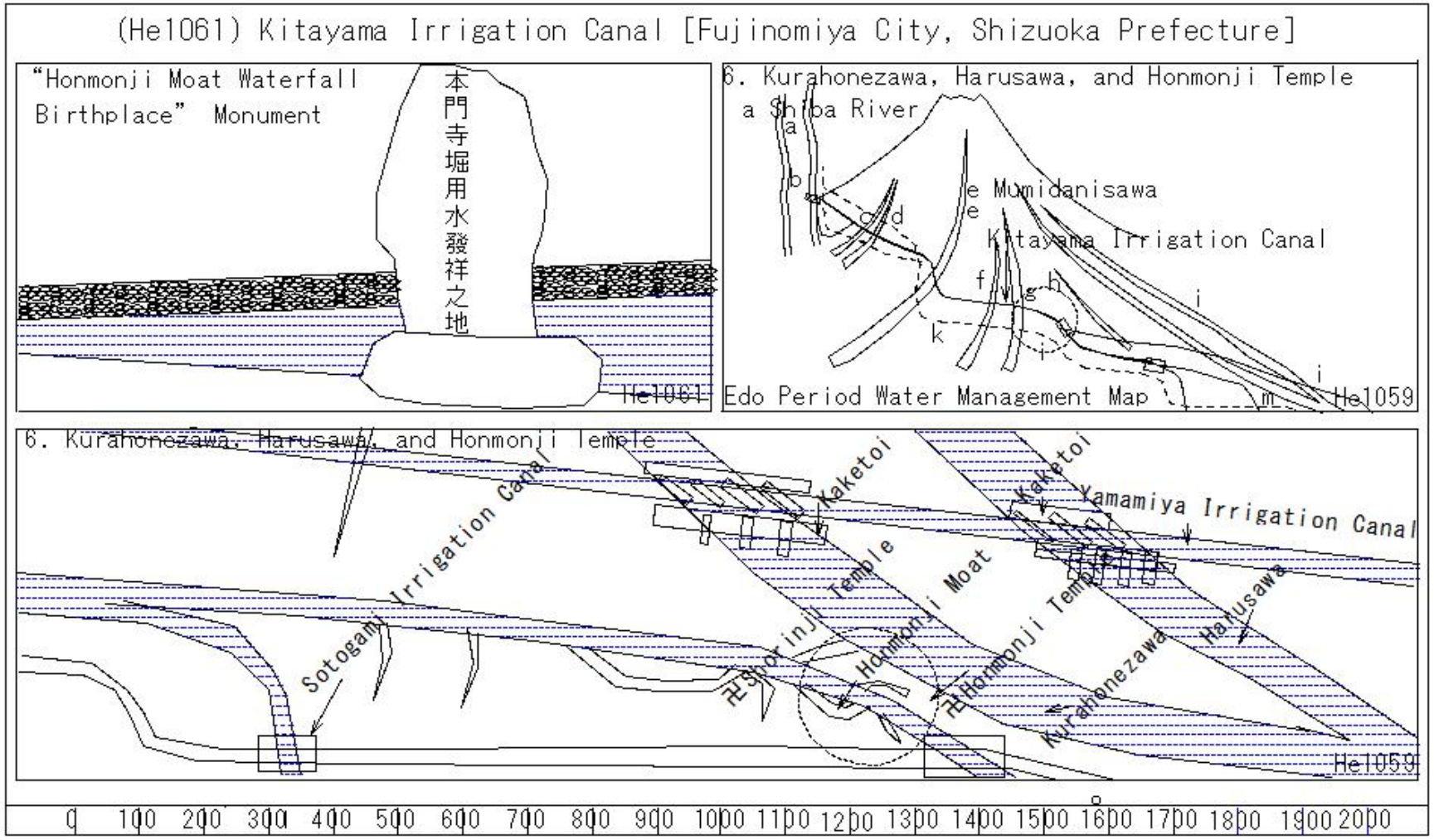
(He1059) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



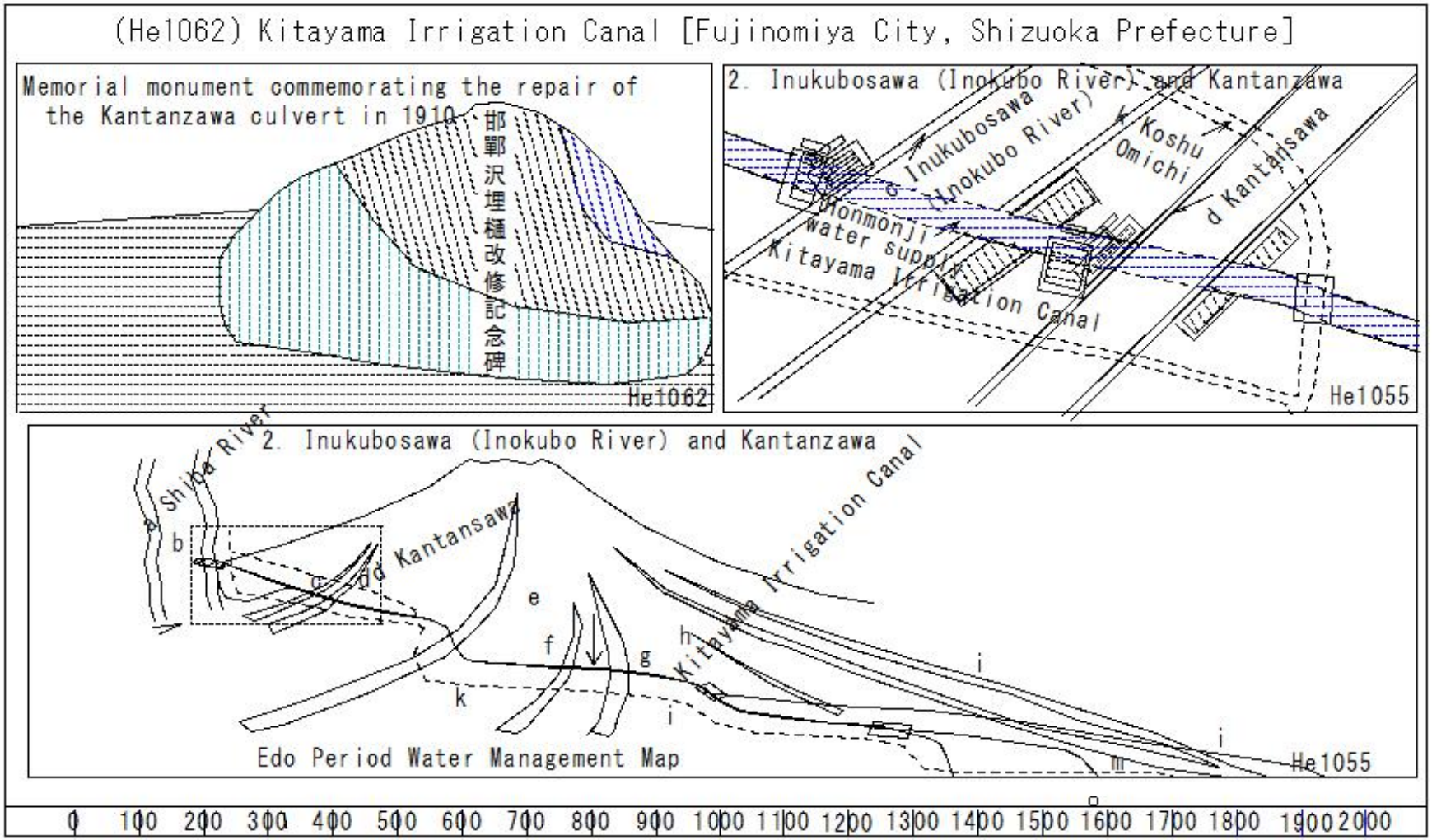
(He1060) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



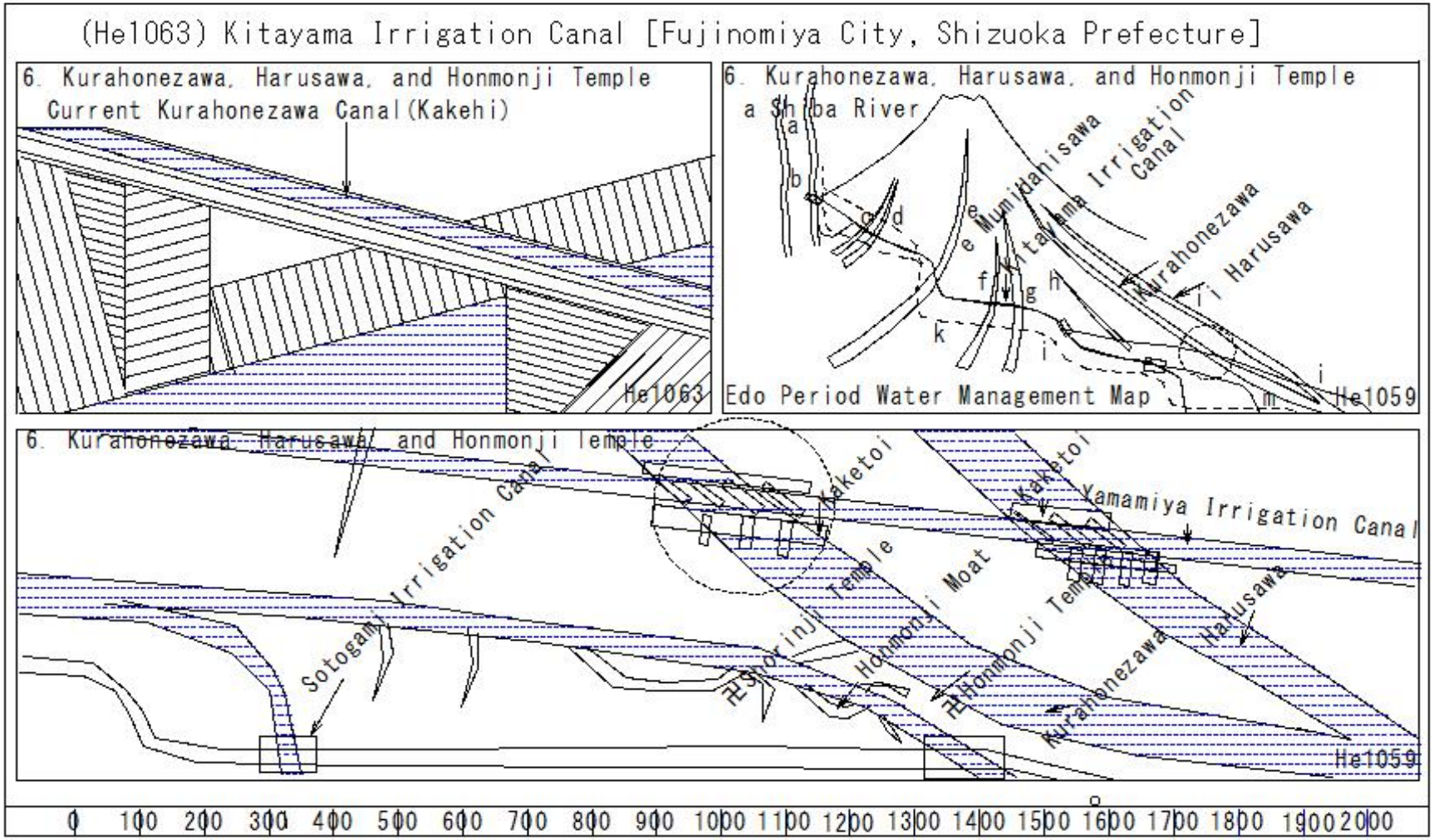
(He1061) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



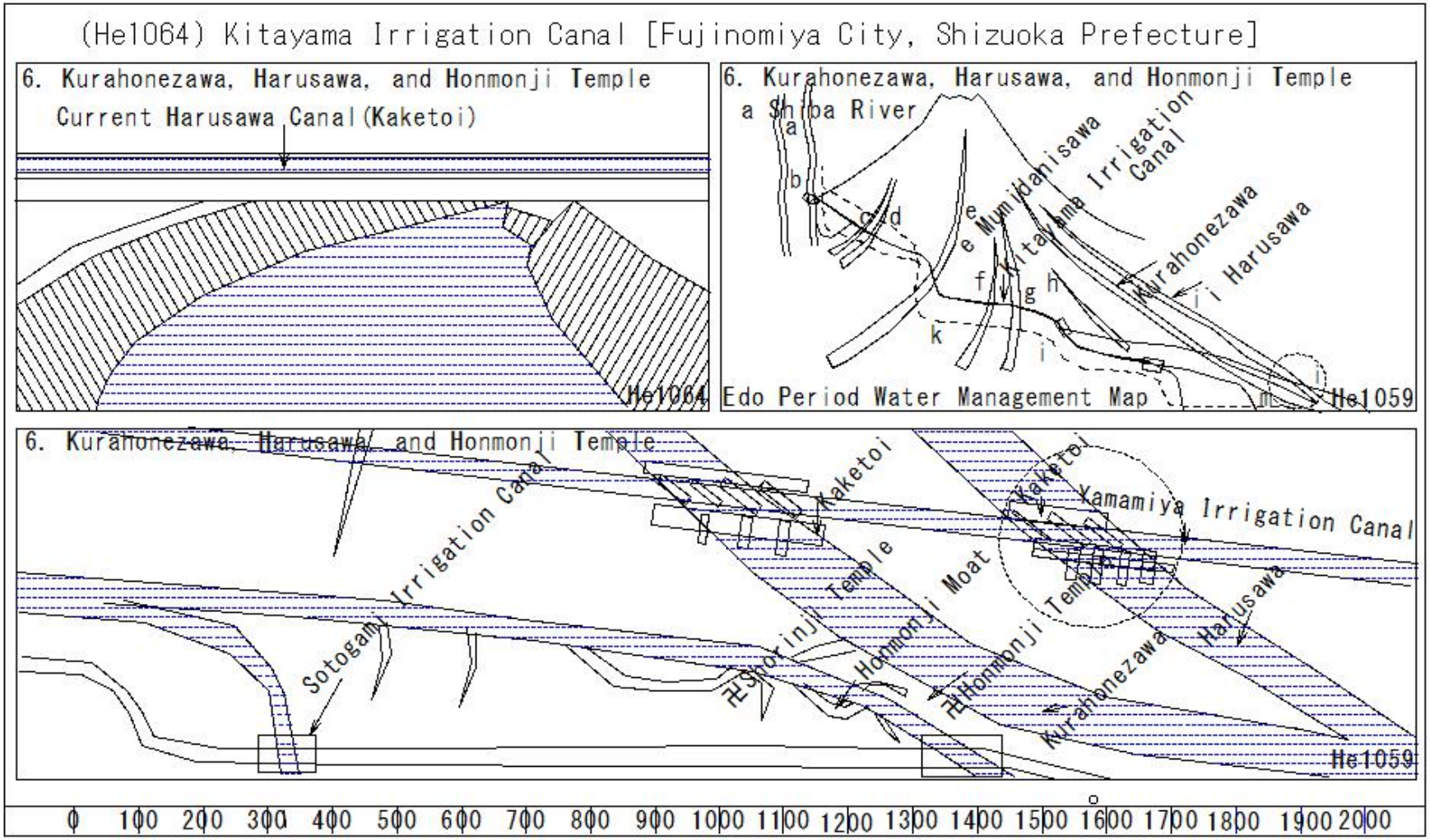
(He1062) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



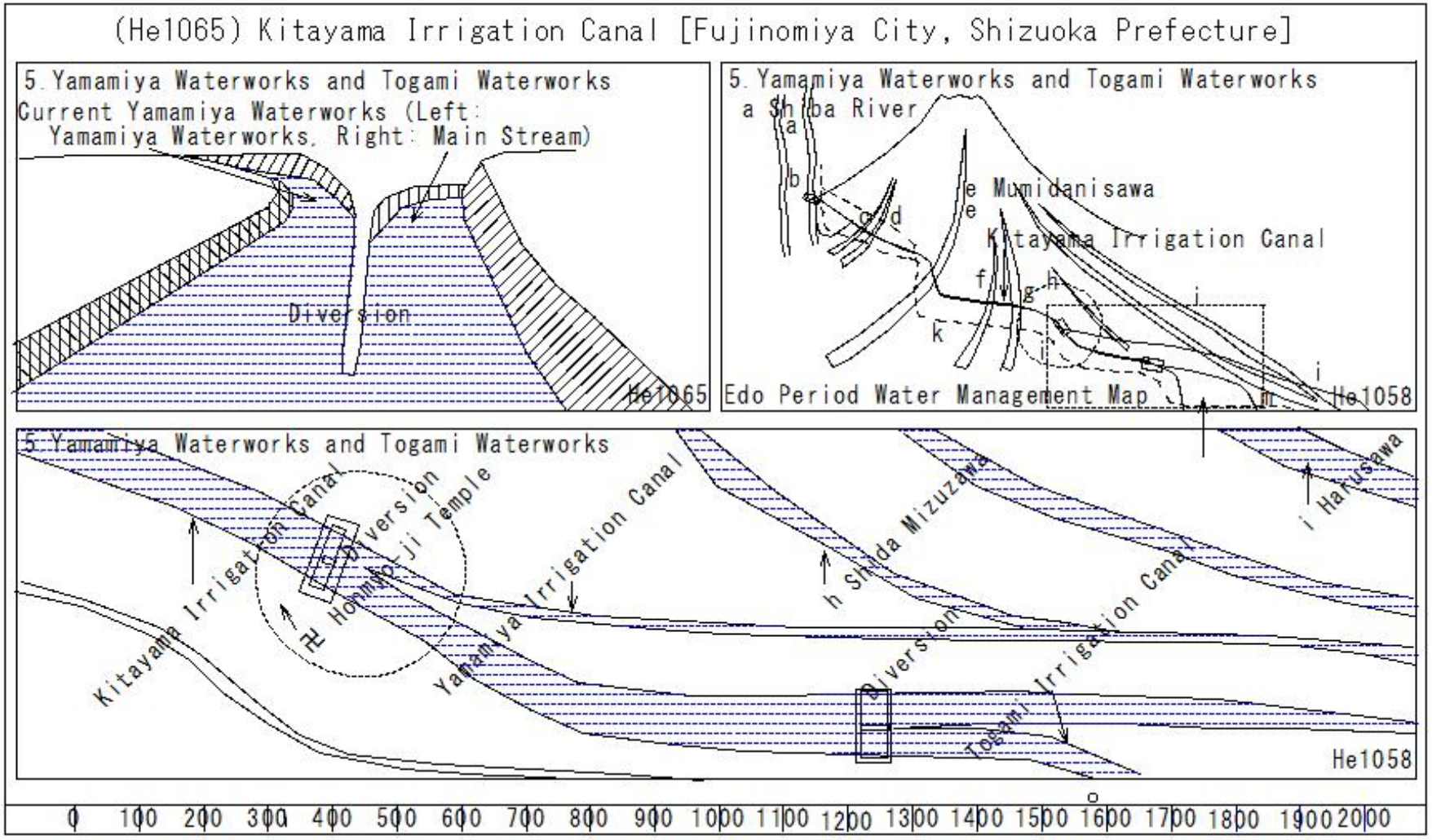
(He1063) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



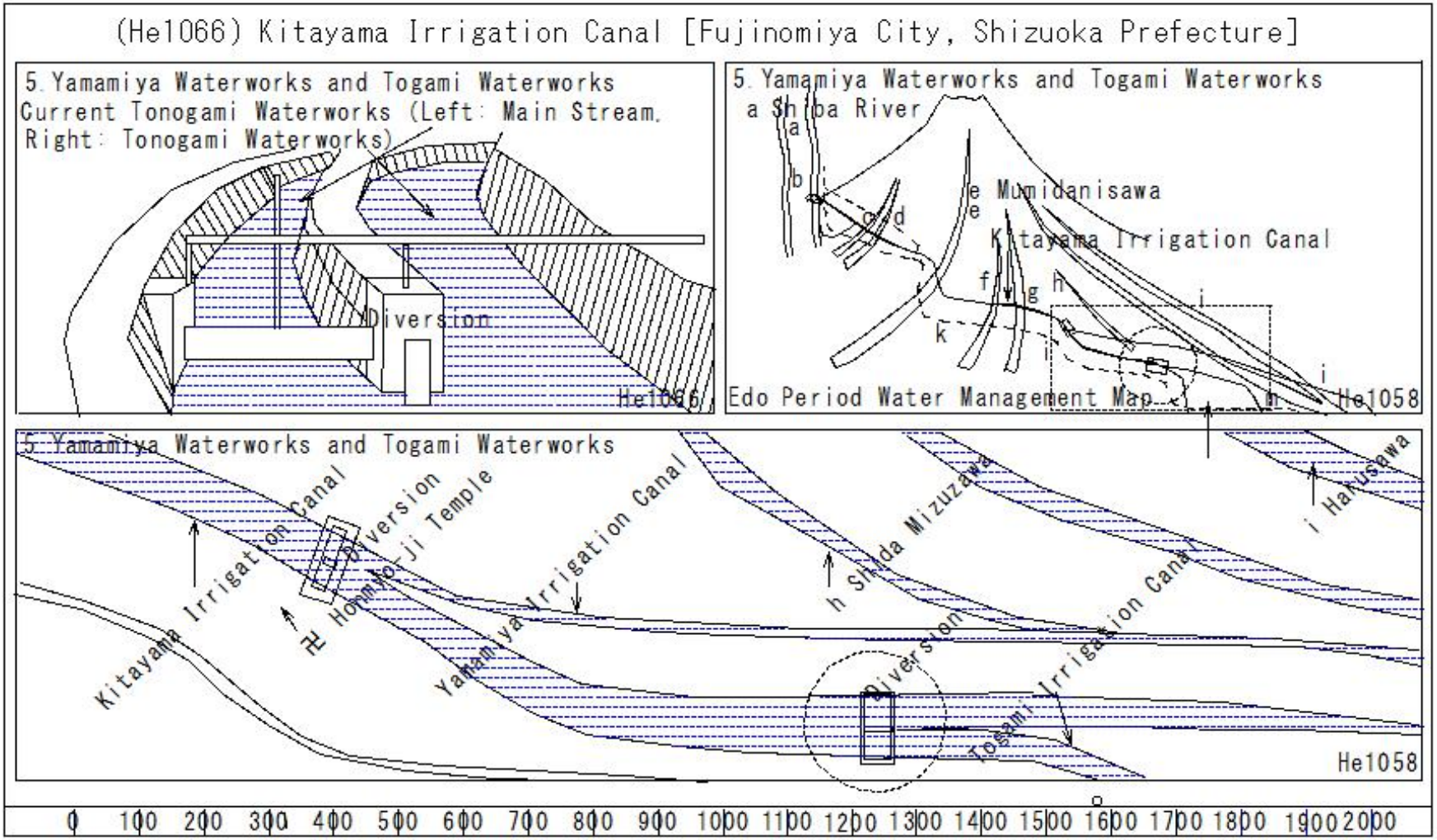
(He1064) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



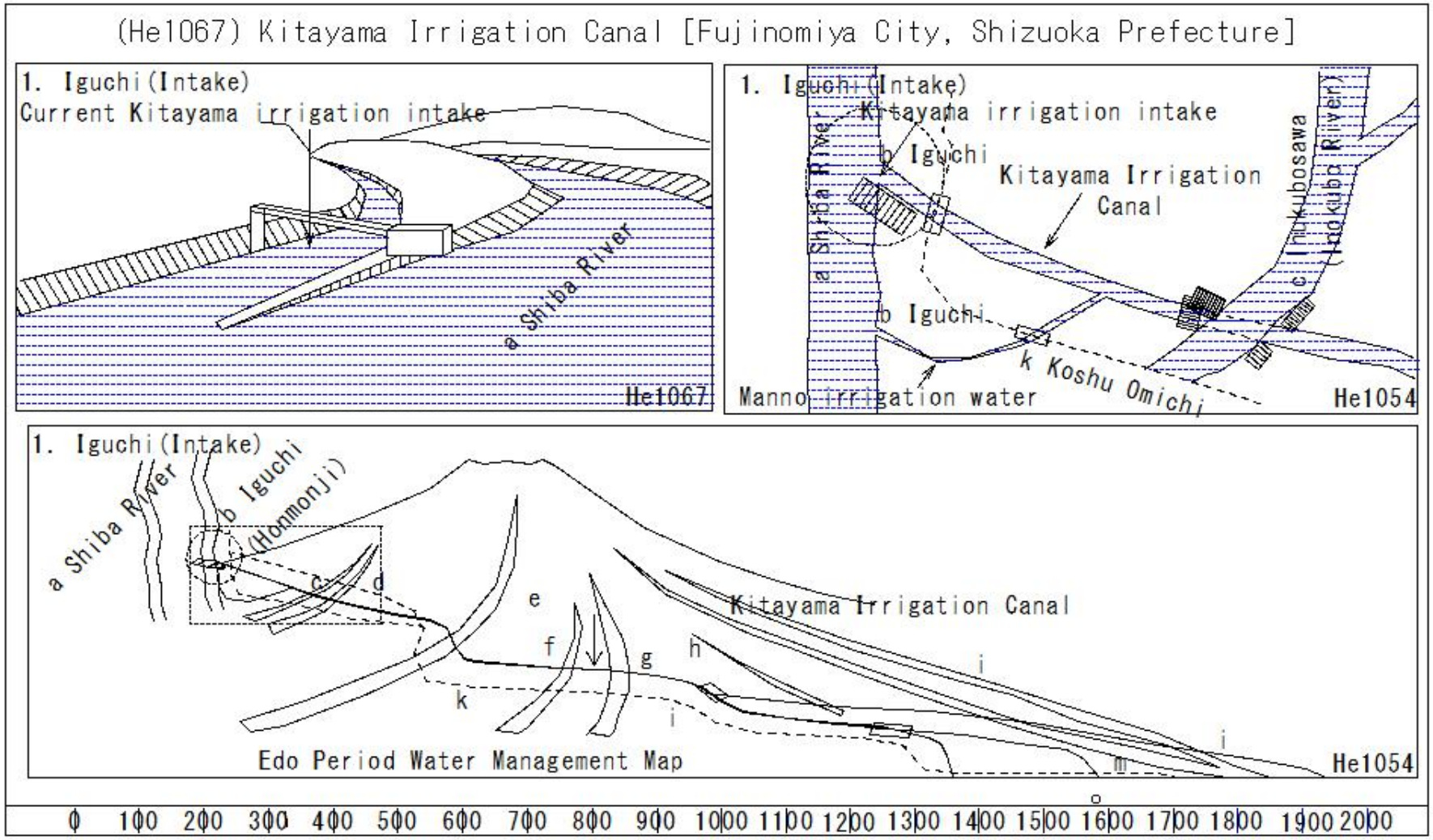
(He1065) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



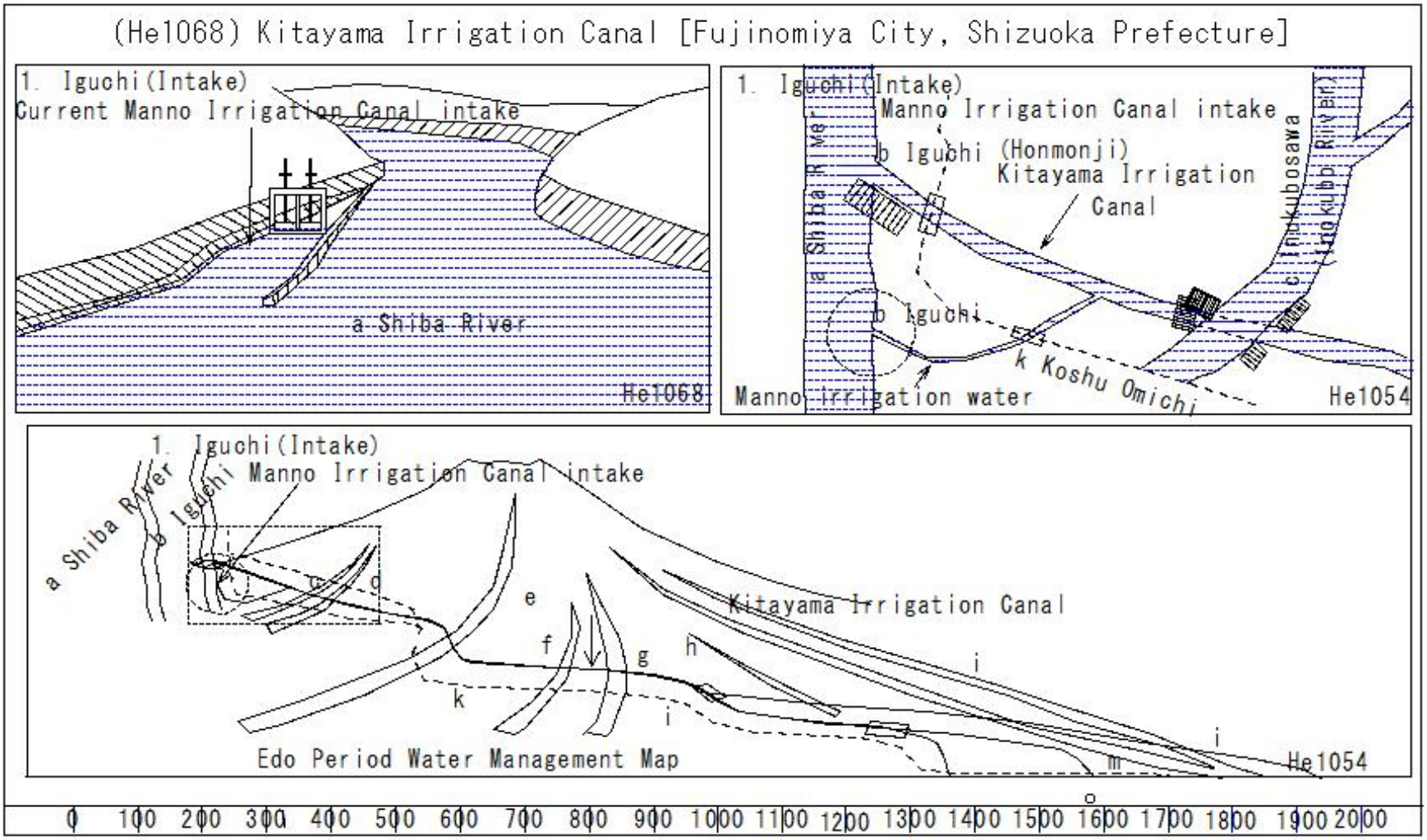
(He1066) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



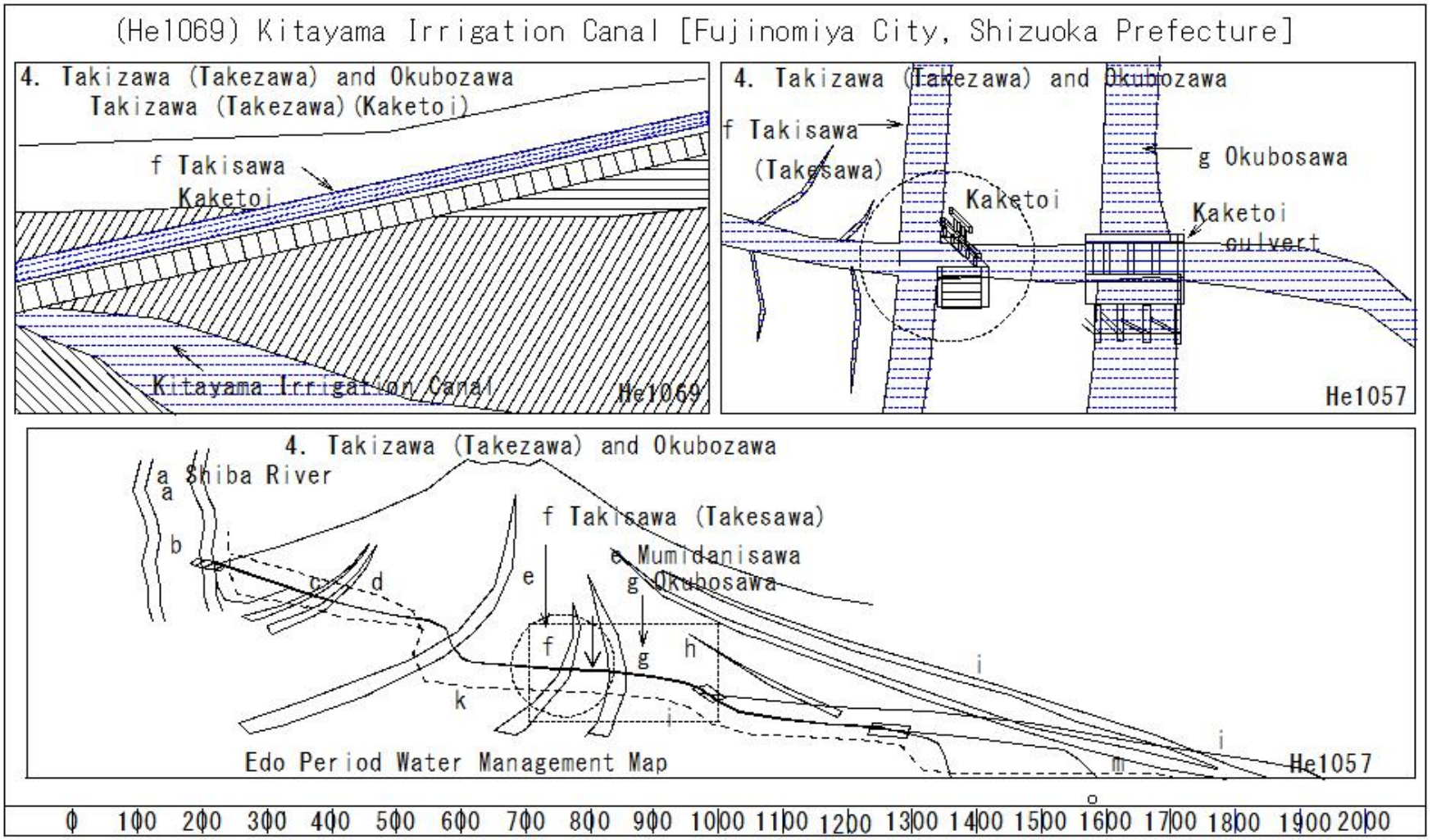
(He1067) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



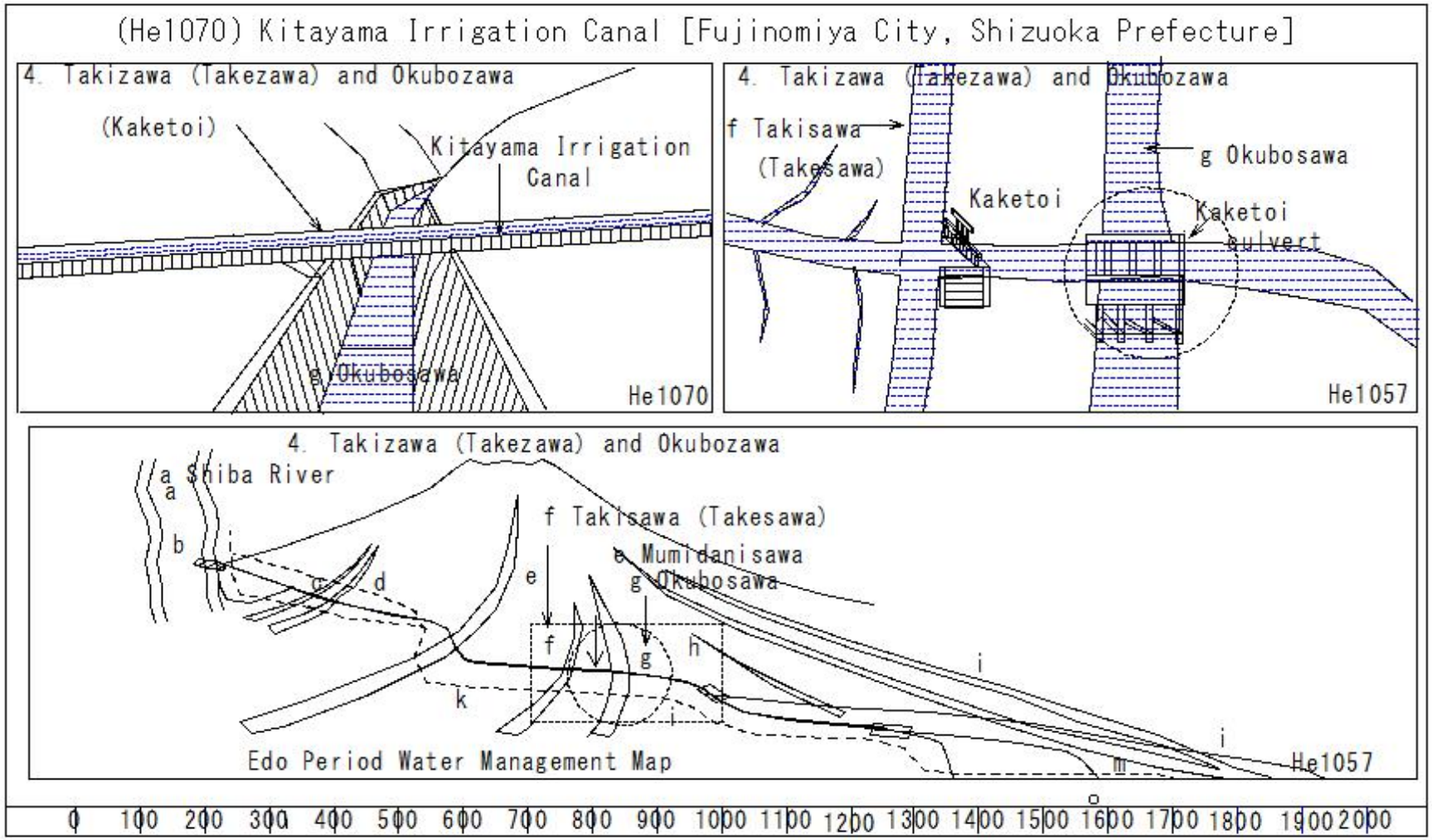
(He1068) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



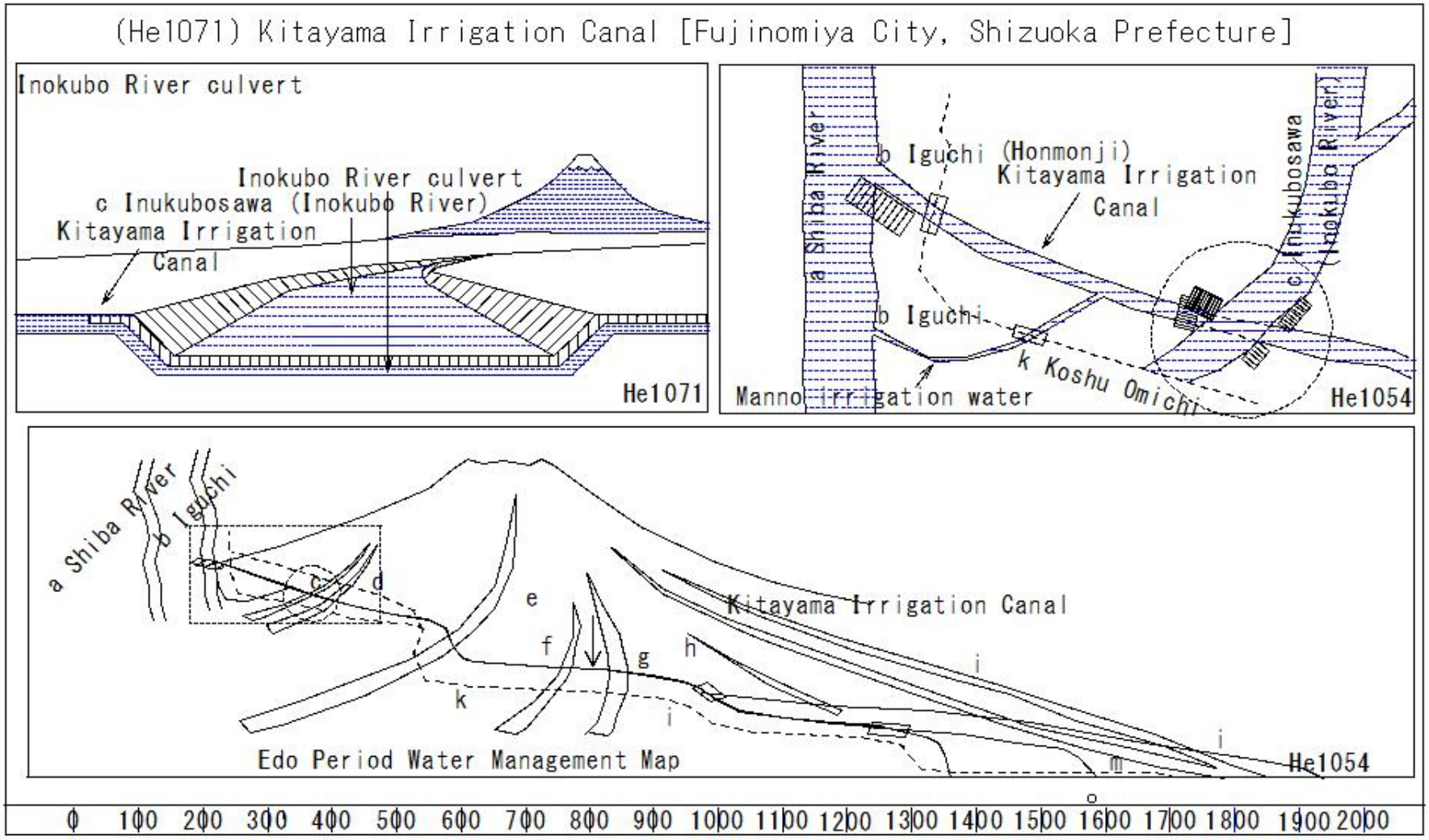
(He1069) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



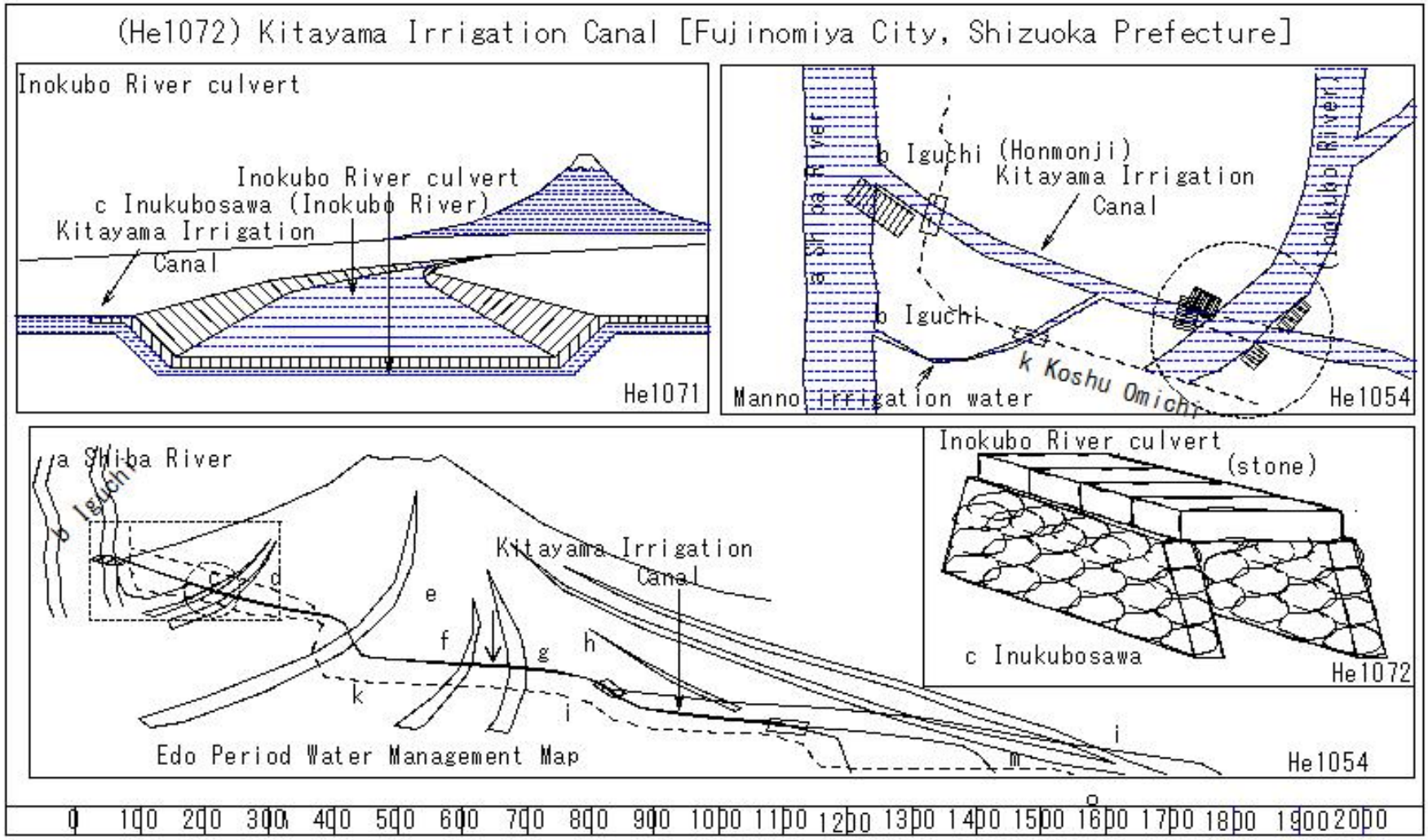
(He1070) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



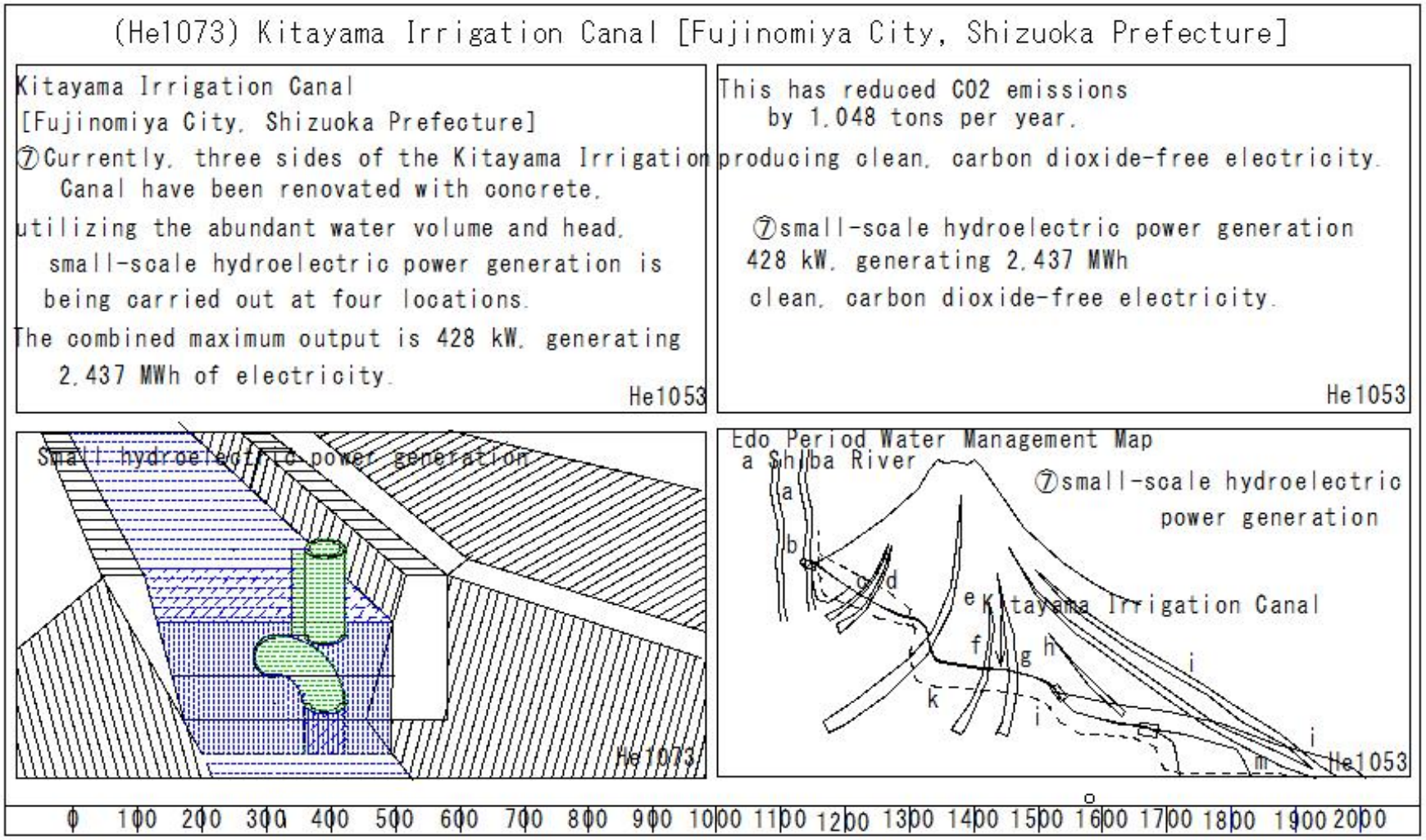
(He1071) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



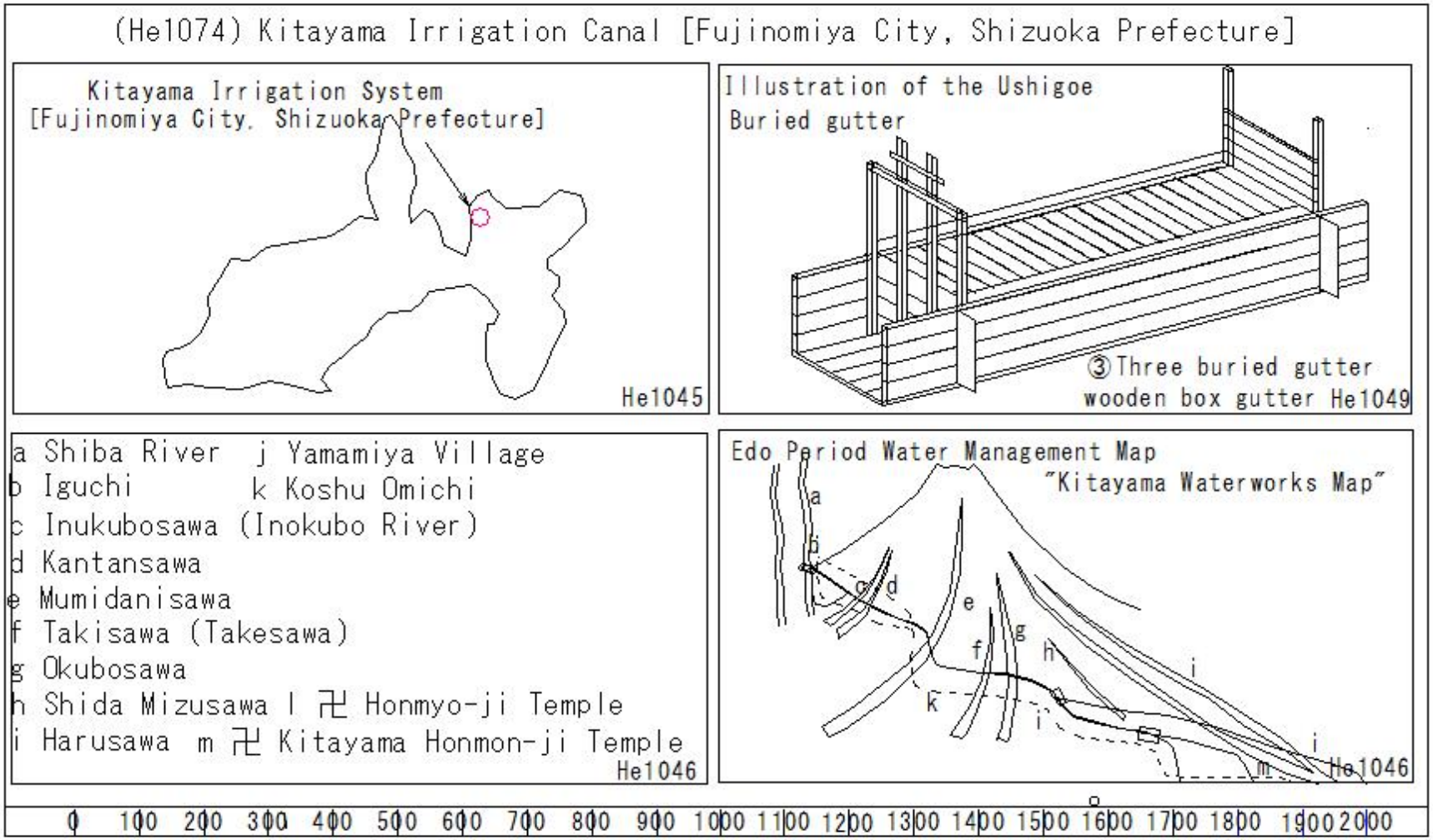
(He1072) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



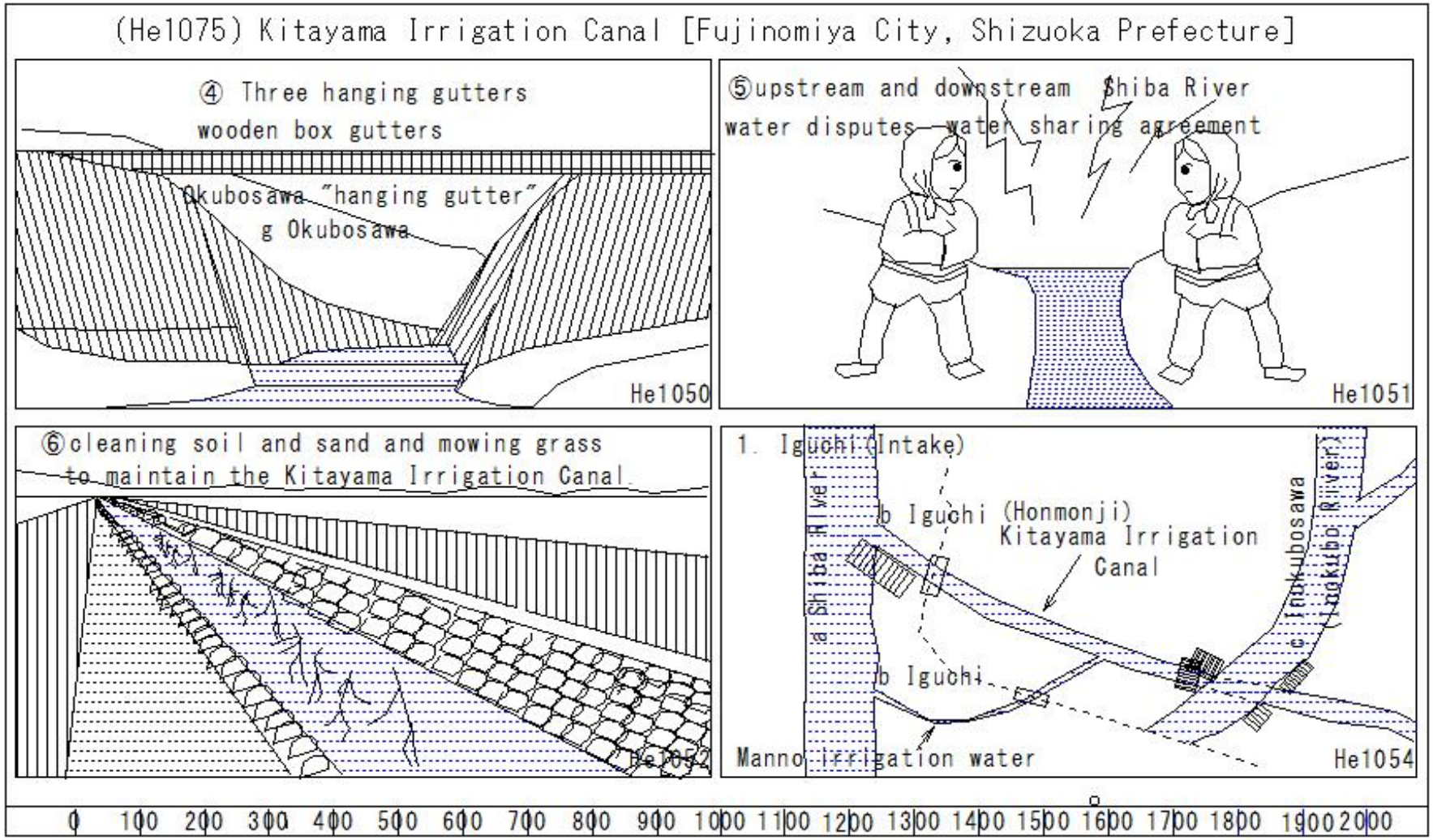
(He1073) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



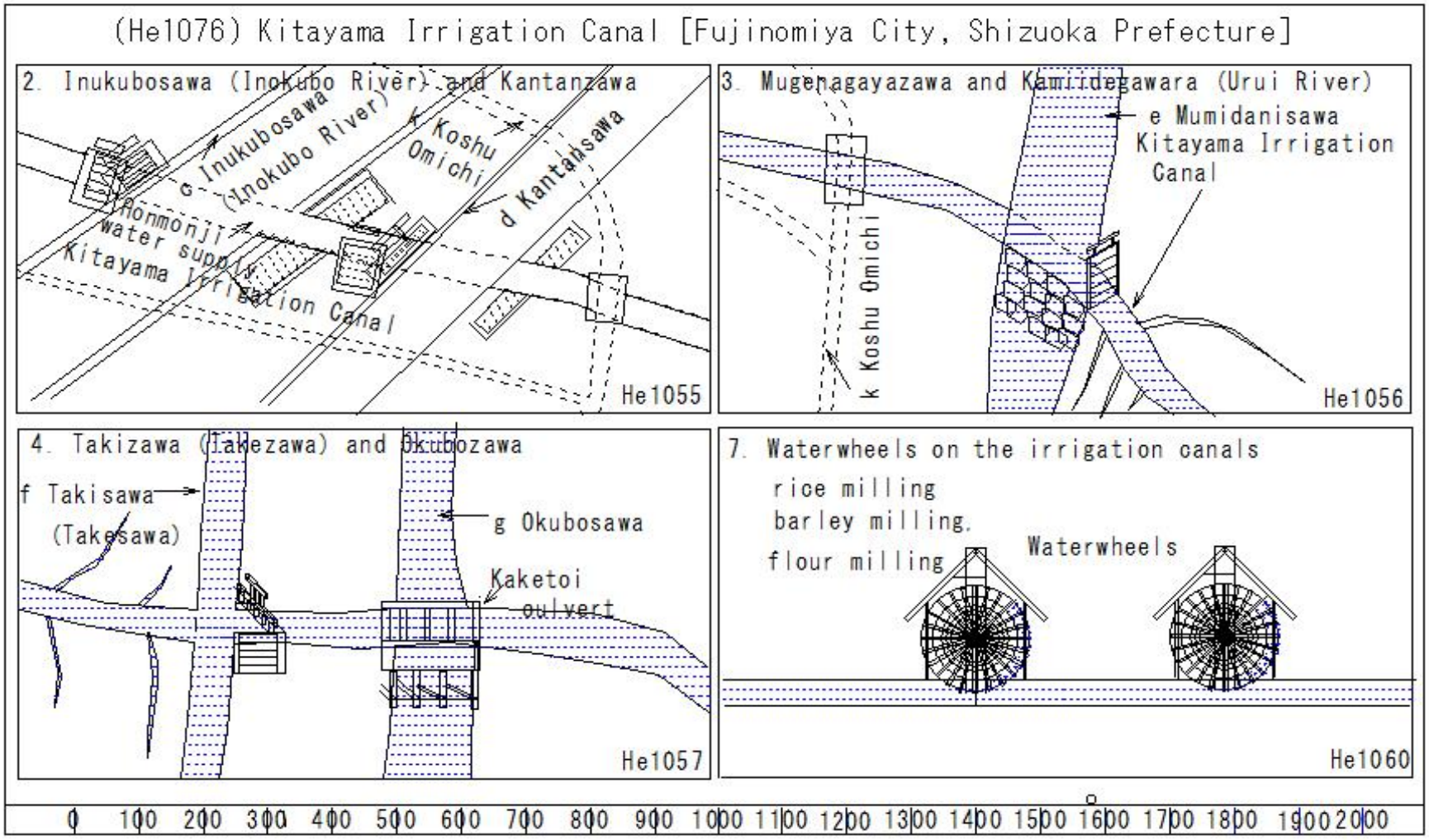
(He1074) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



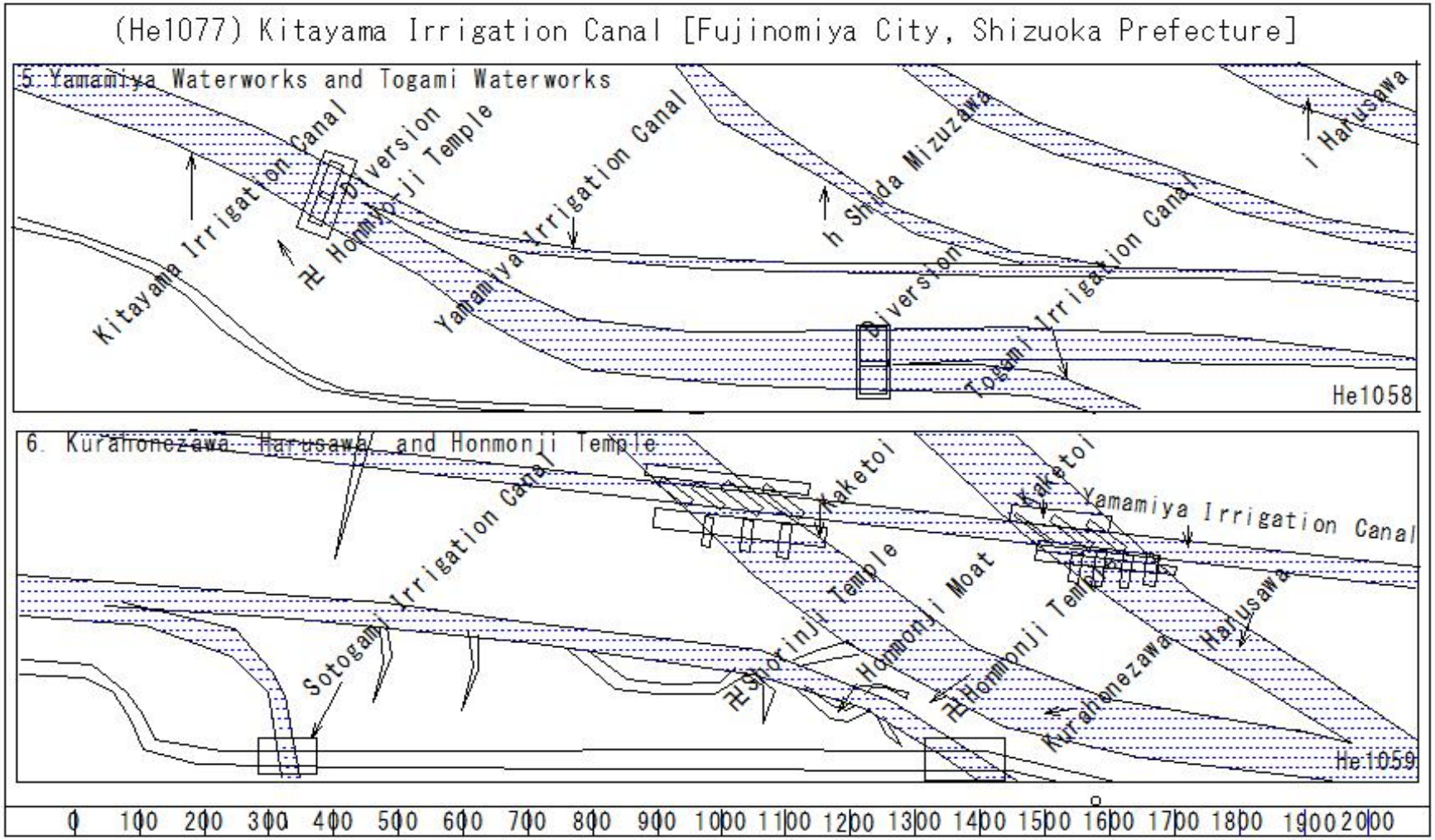
(He1075) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



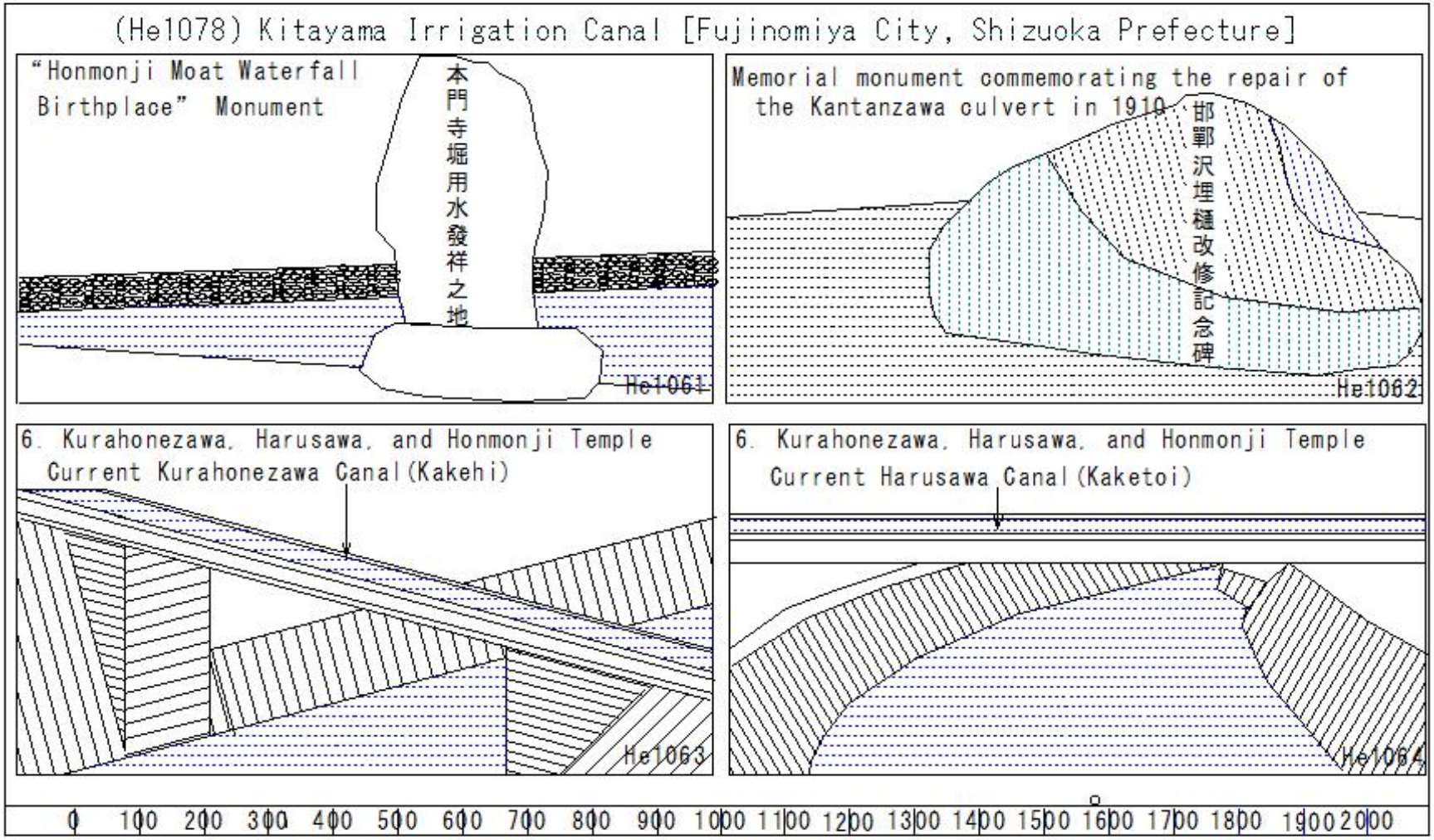
(He1076) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



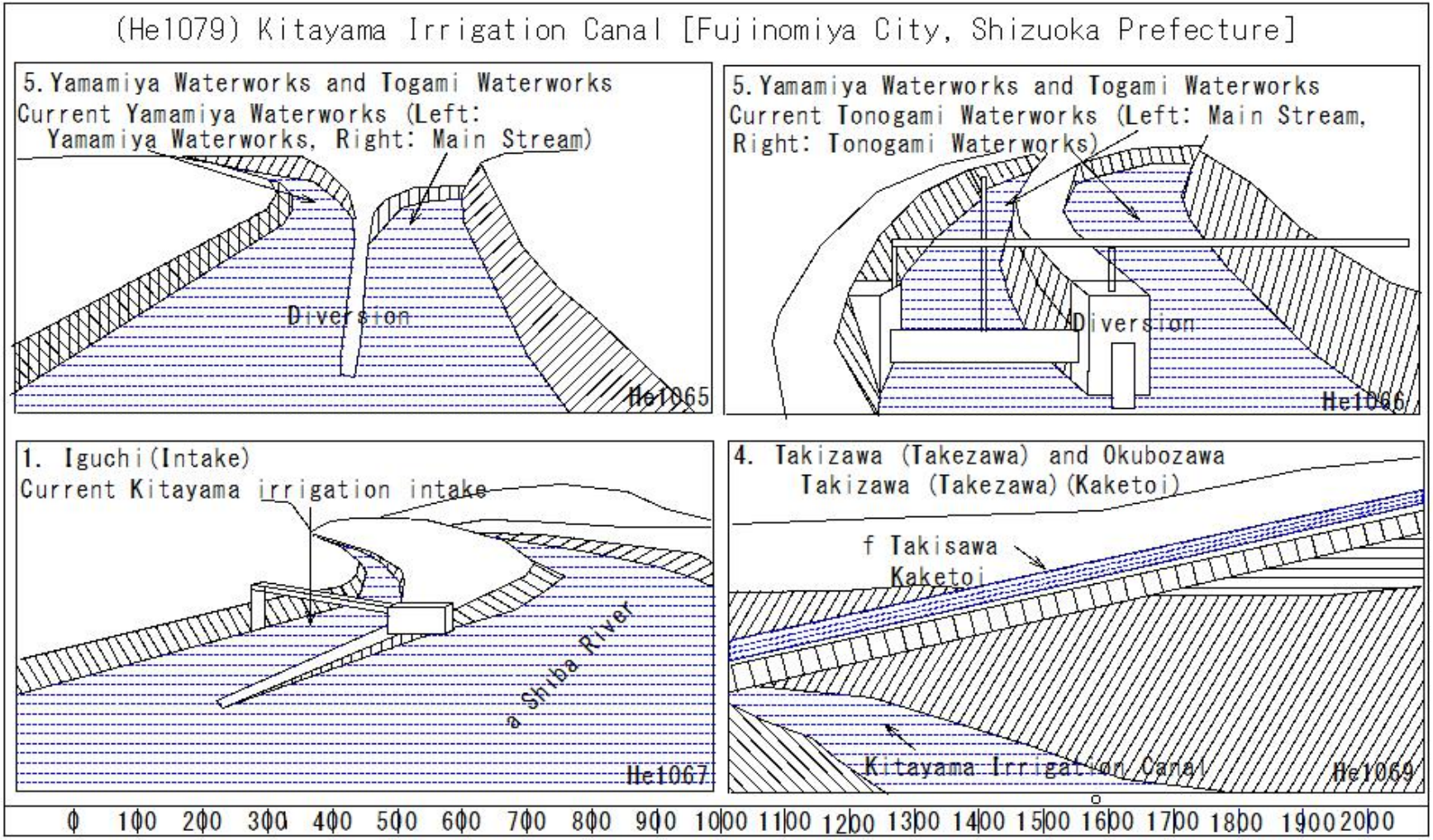
(He1077) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



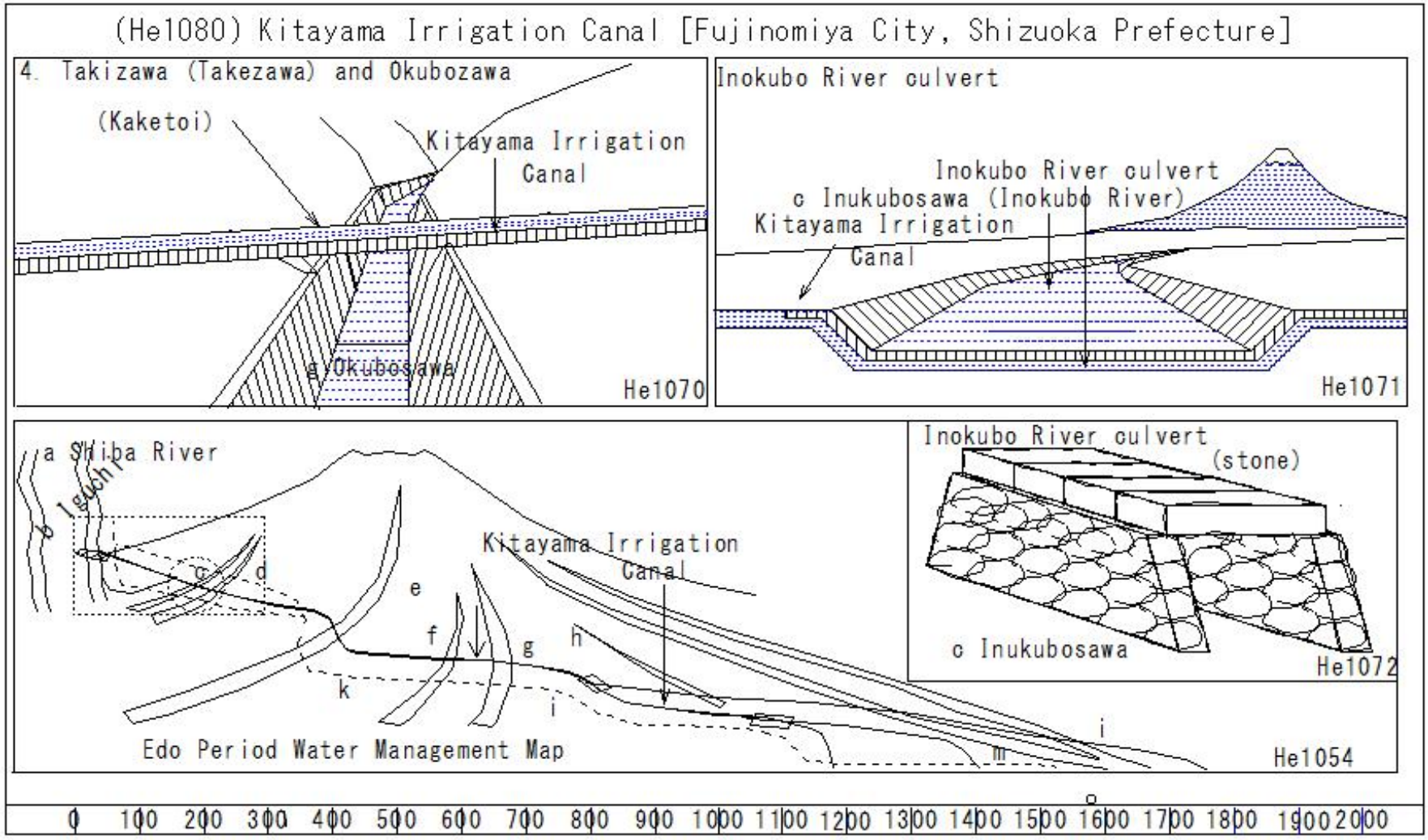
(He1078) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



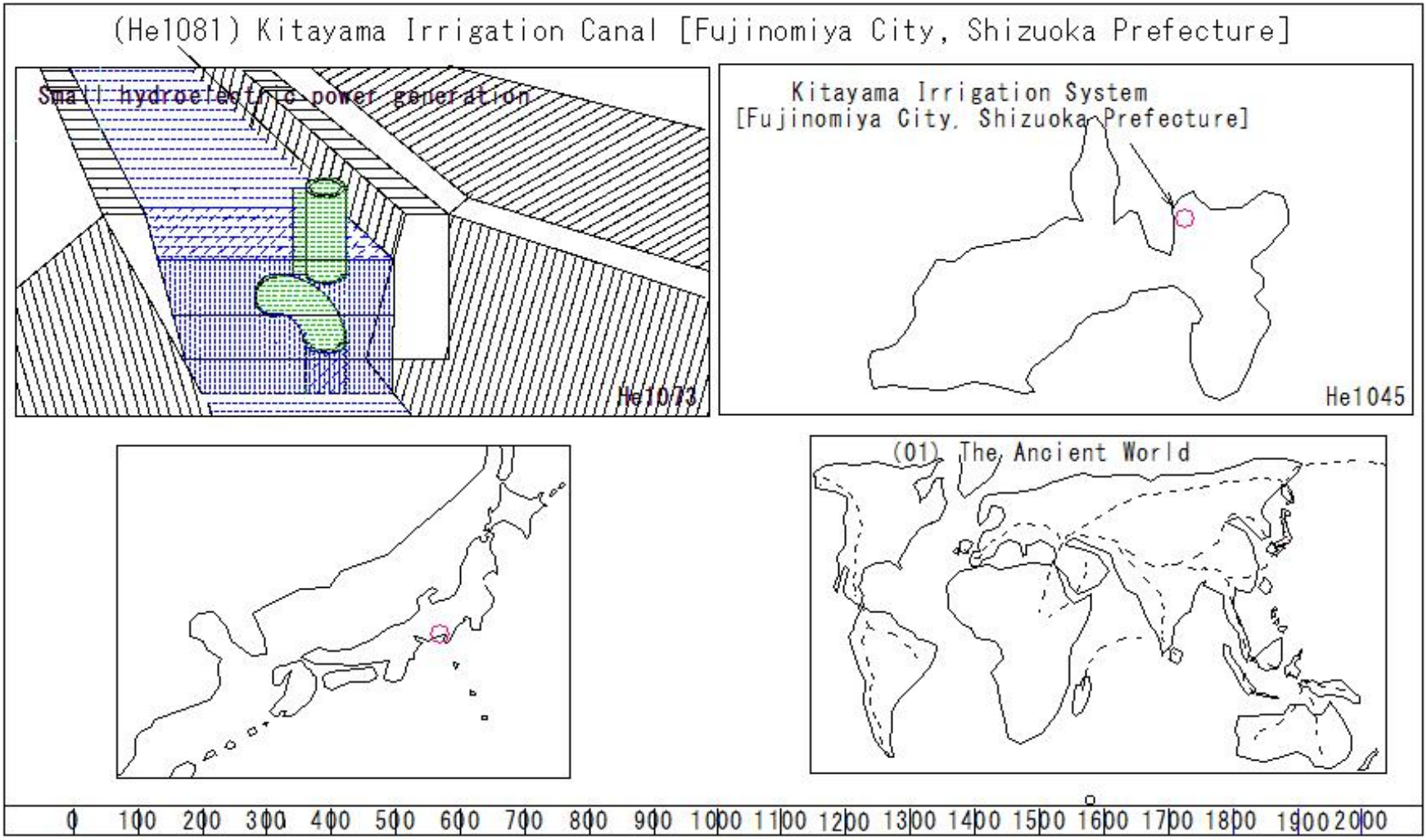
(He1079) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



(He1080) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



(He1081) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



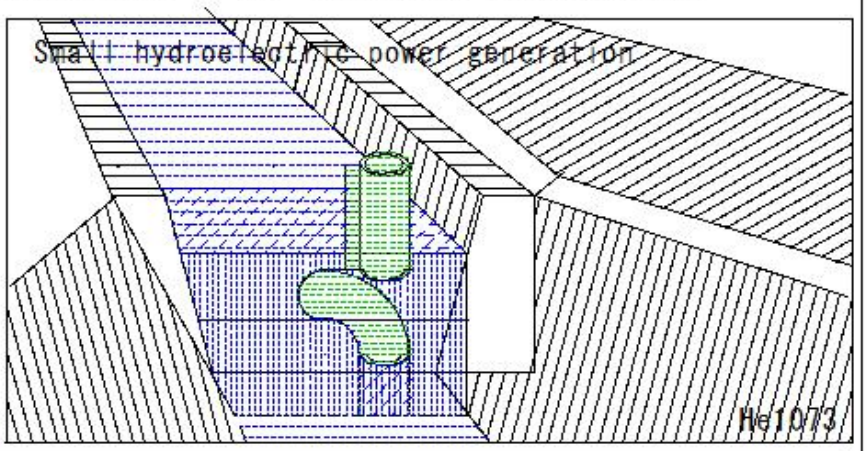
(He1082) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]

Kitayama Irrigation Canal
[Fujinomiya City, Shizuoka Prefecture]

⑦Currently, three sides of the Kitayama Irrigation Canal have been renovated with concrete, utilizing the abundant water volume and head, small-scale hydroelectric power generation is being carried out at four locations.

The combined maximum output is 428 kW, generating 2,437 MWh of electricity.

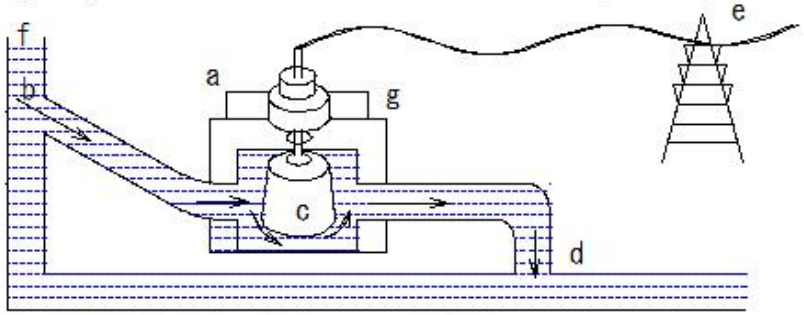
He1053



Hydroelectric Power Generation

a Generator
b Intake
c Water Turbine
d Outlet
e Transmission Line
f. Water pipe
g. Water wheel inside

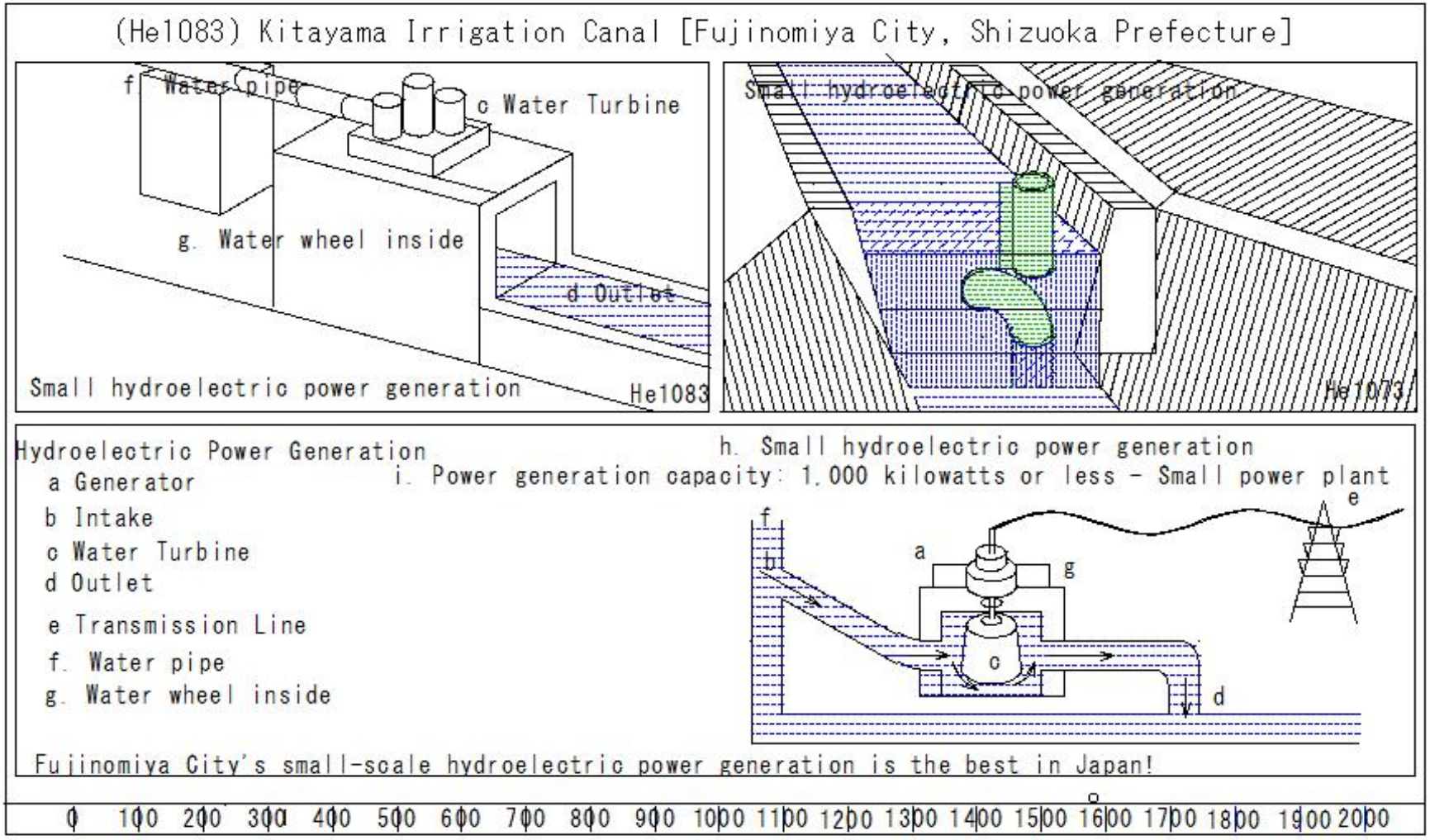
h. Small hydroelectric power generation
i. Power generation capacity: 1,000 kilowatts or less - Small power plant



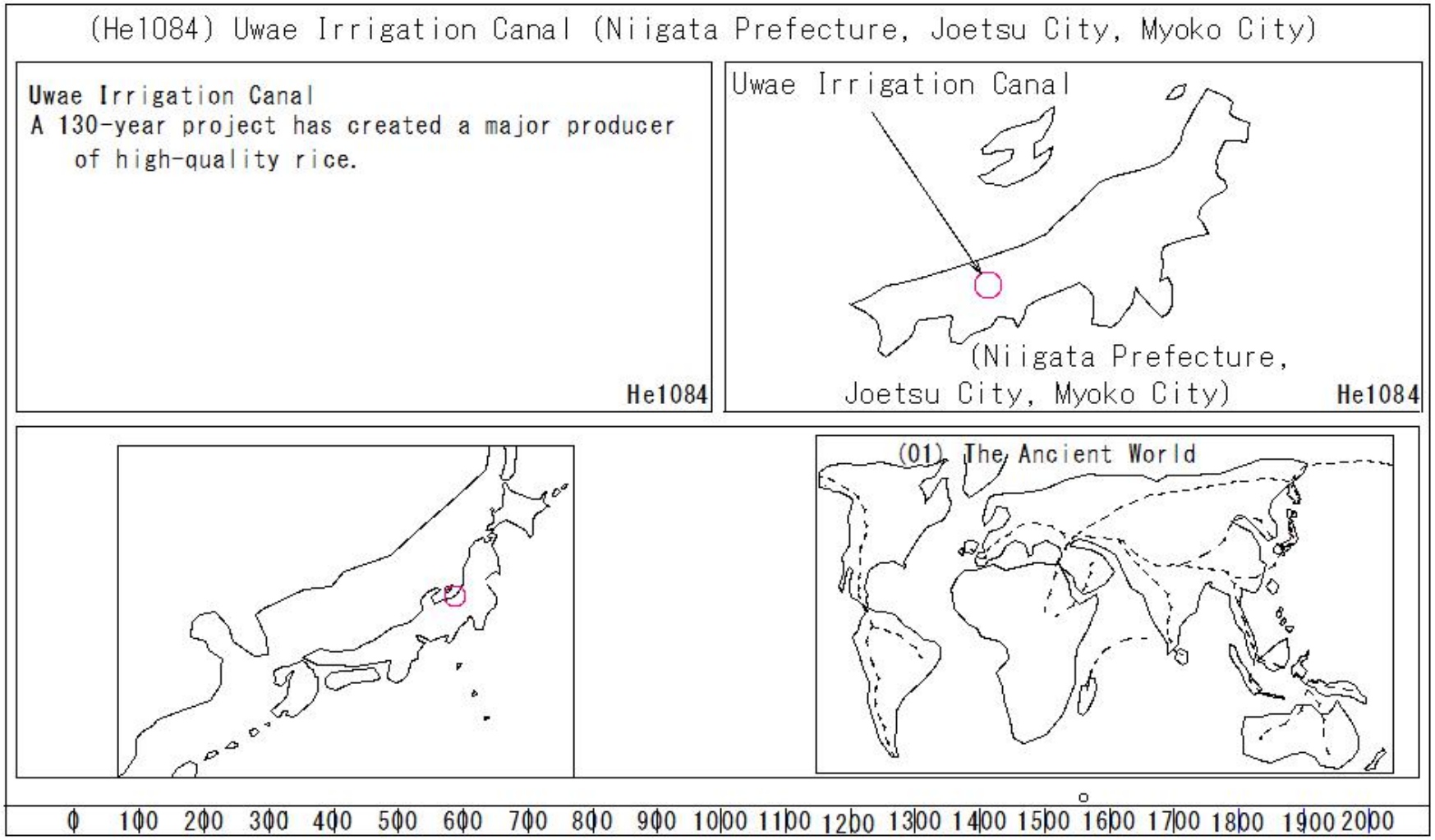
Fujinomiya City's small-scale hydroelectric power generation is the best in Japan!

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

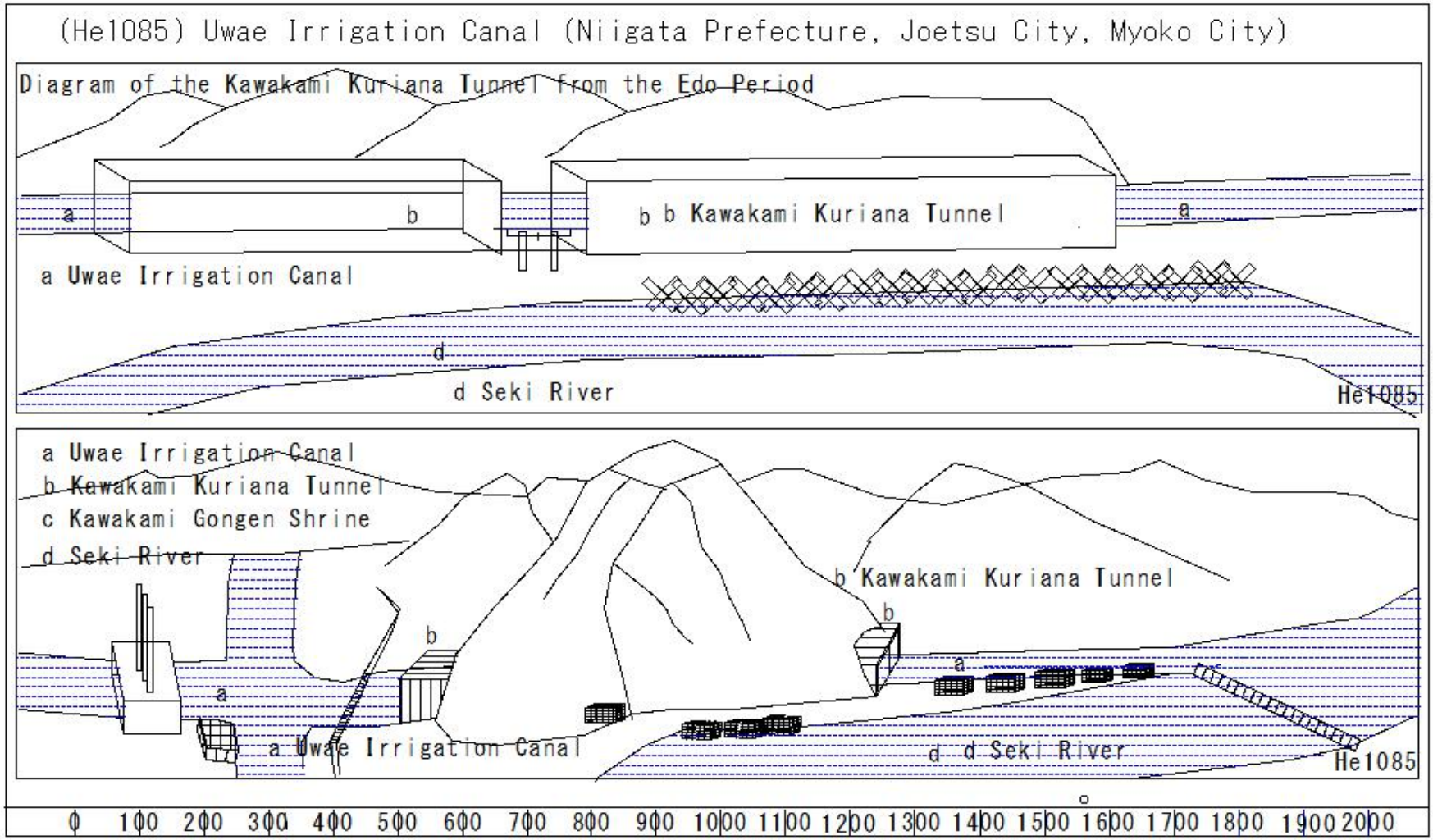
(He1083) Kitayama Irrigation Canal [Fujinomiya City, Shizuoka Prefecture]



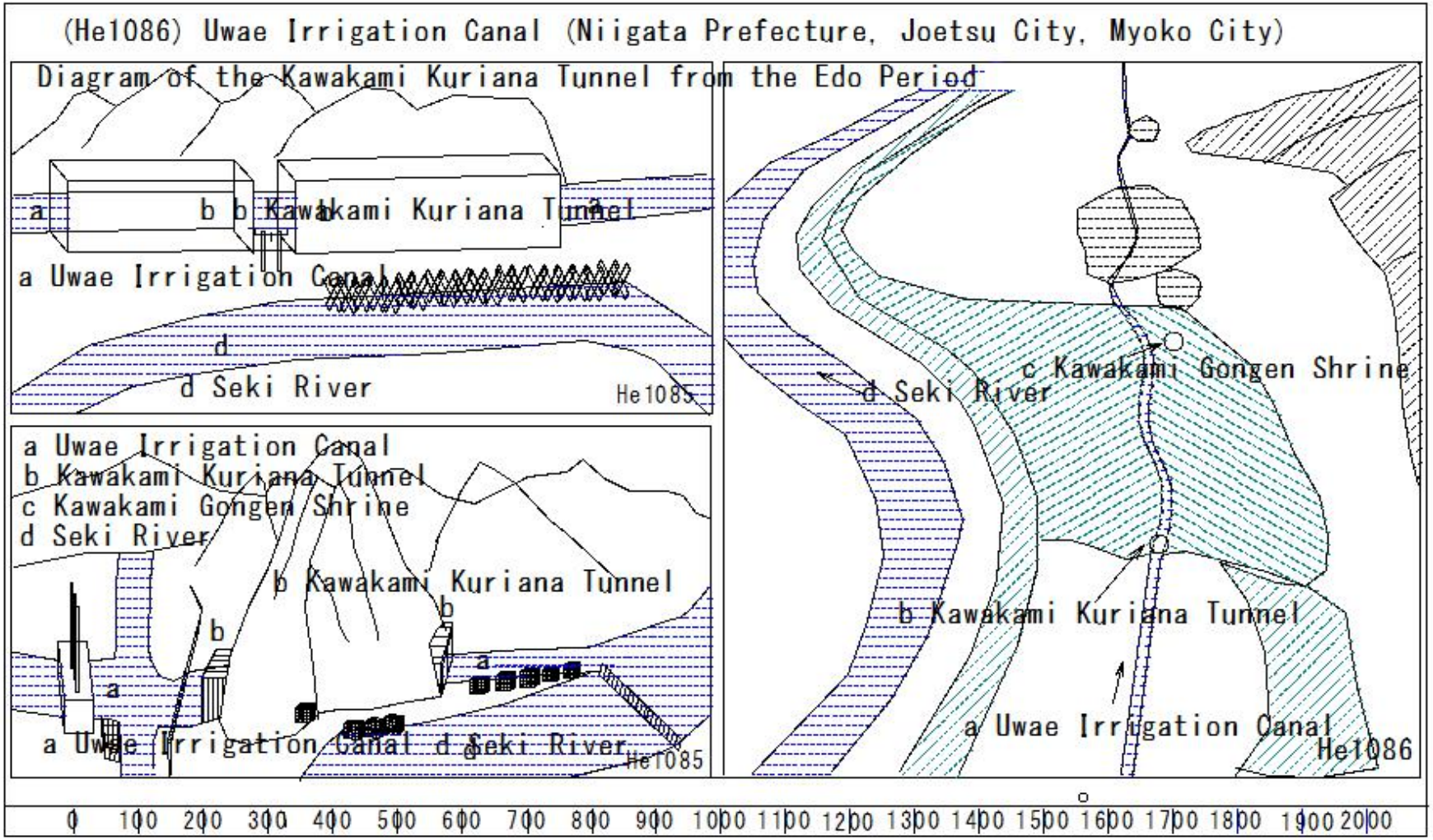
(He1084) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



(He1085) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



(He1086) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



(He1087) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)

(He1087) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)

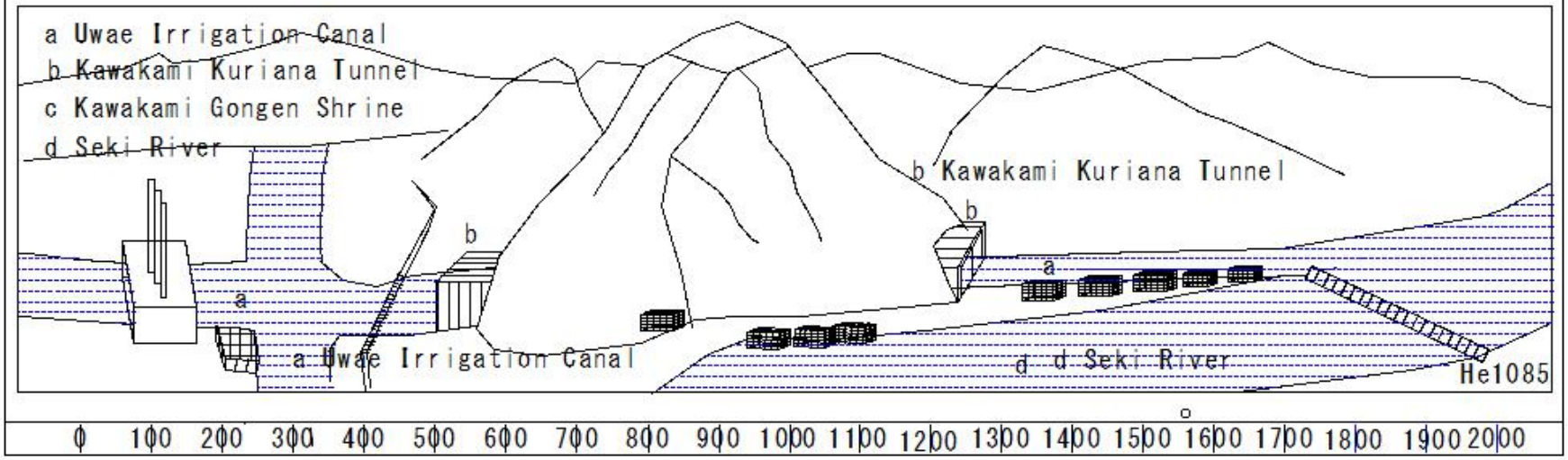
A 130-Year Project Realized a Major High-Quality Rice Production Area

① This region is nationally renowned for producing exceptionally high-quality rice.
However, before the construction of the Kamie Irrigation Canal,
securing water for harvest season was difficult.

before the construction

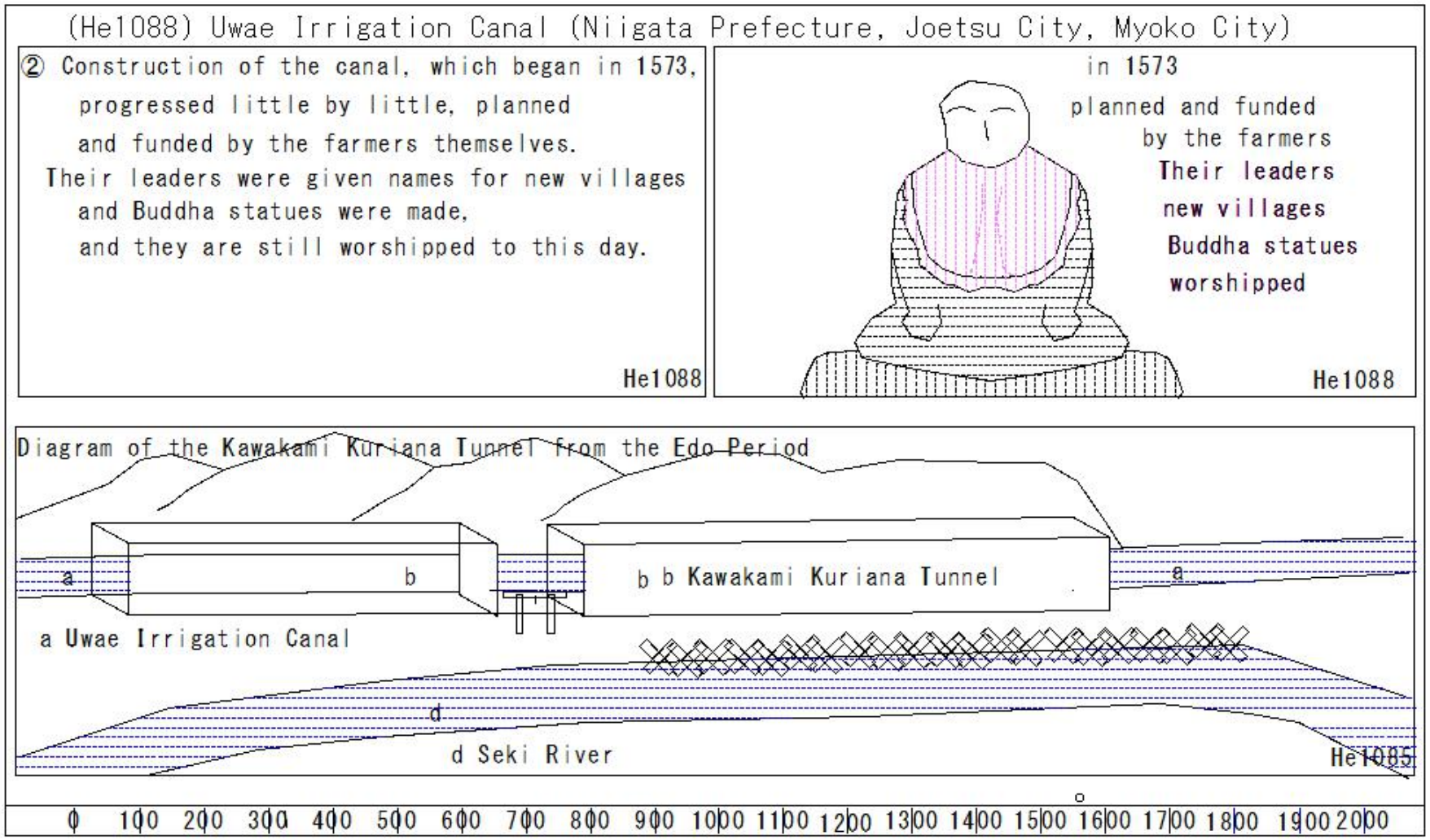
securing water for harvest season was difficult.

He1087

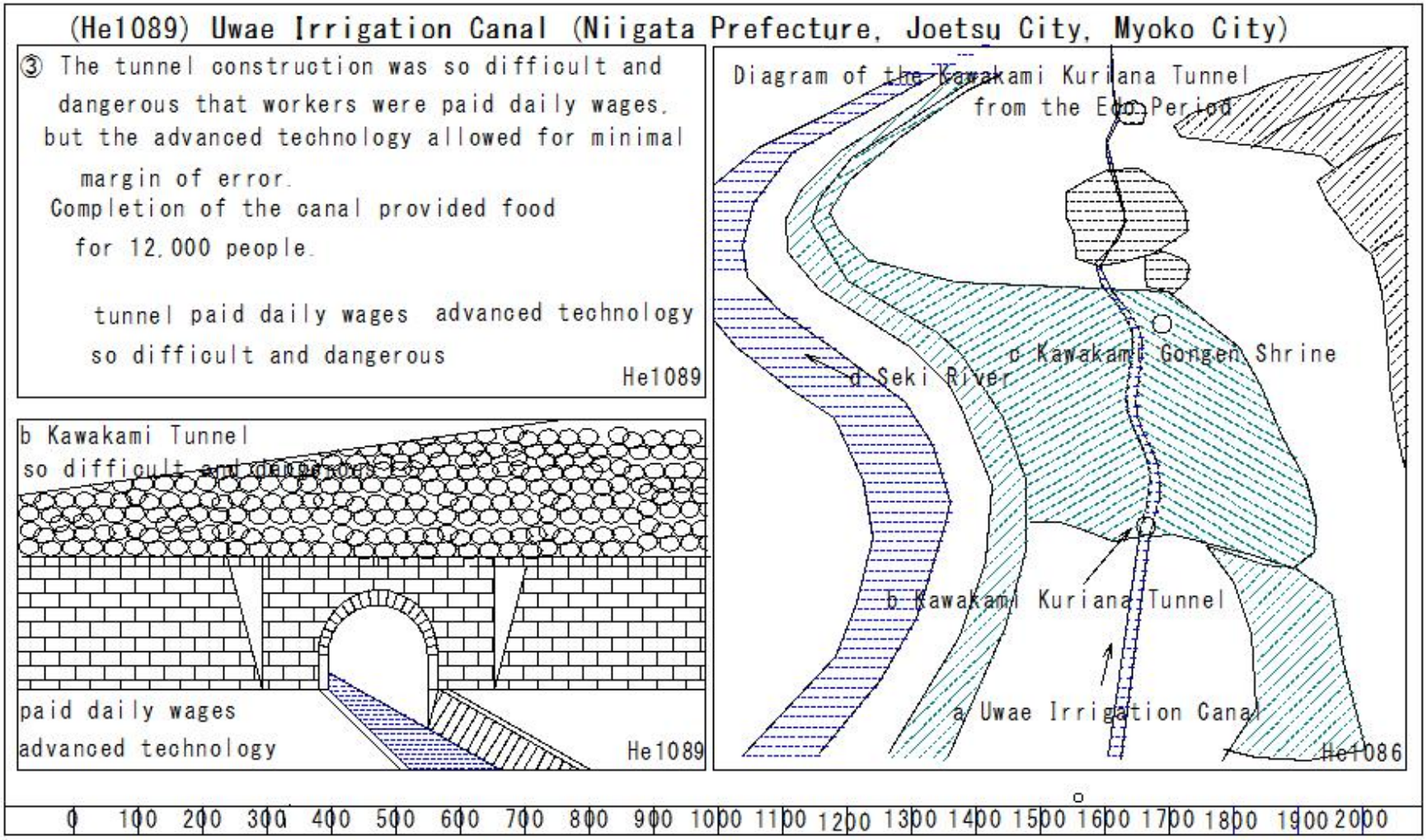


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

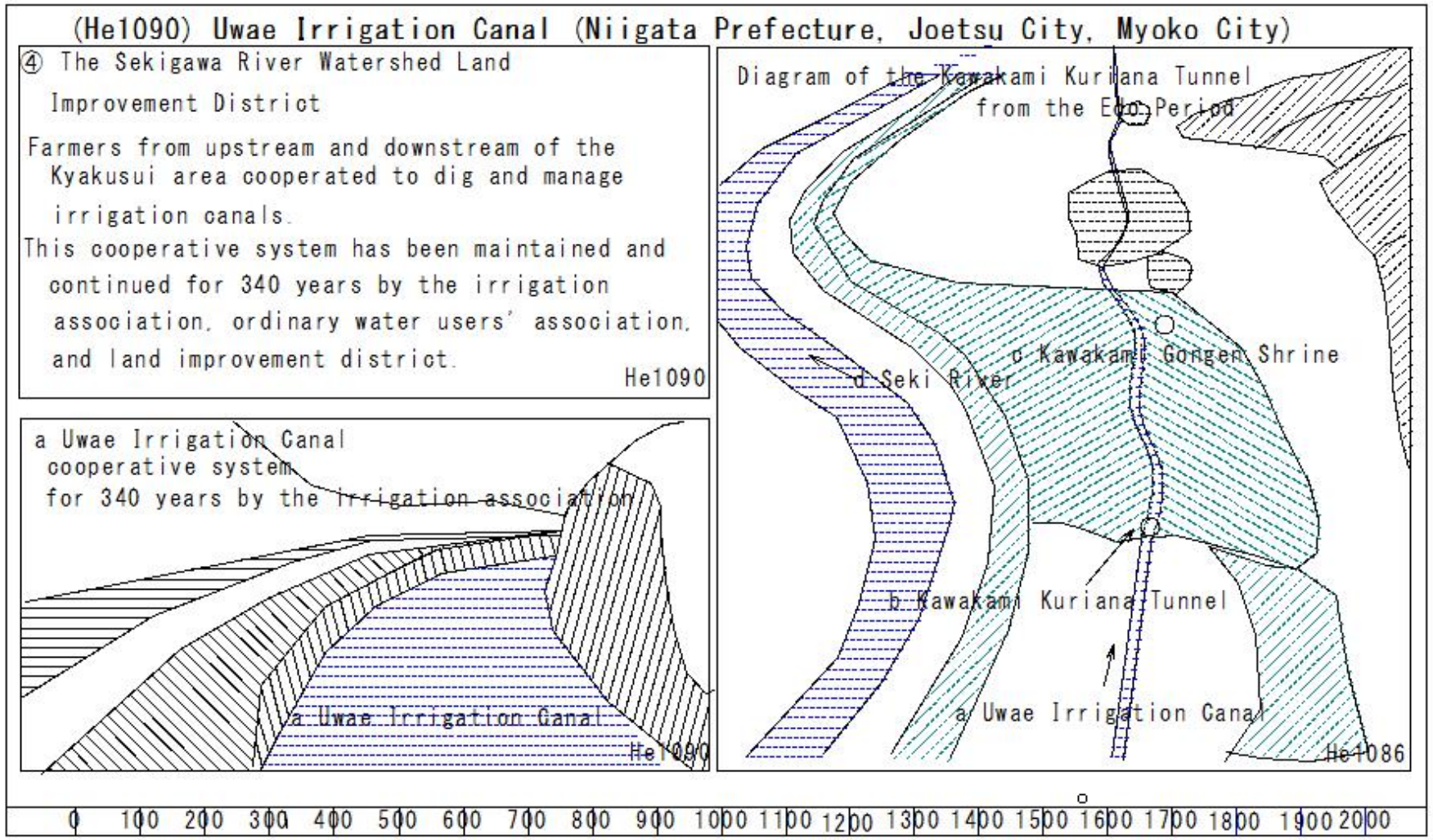
(He1088) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



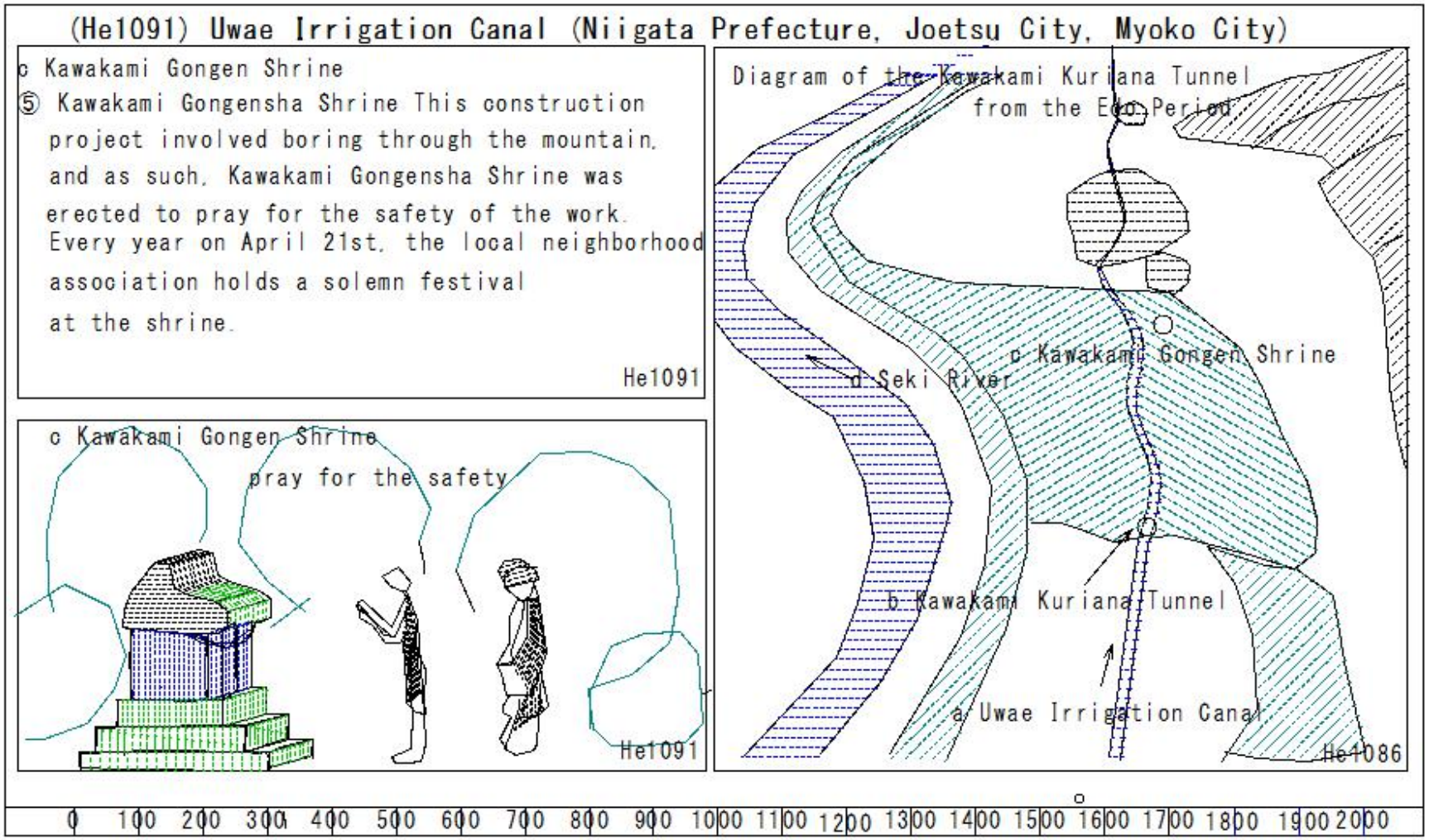
(He1089) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



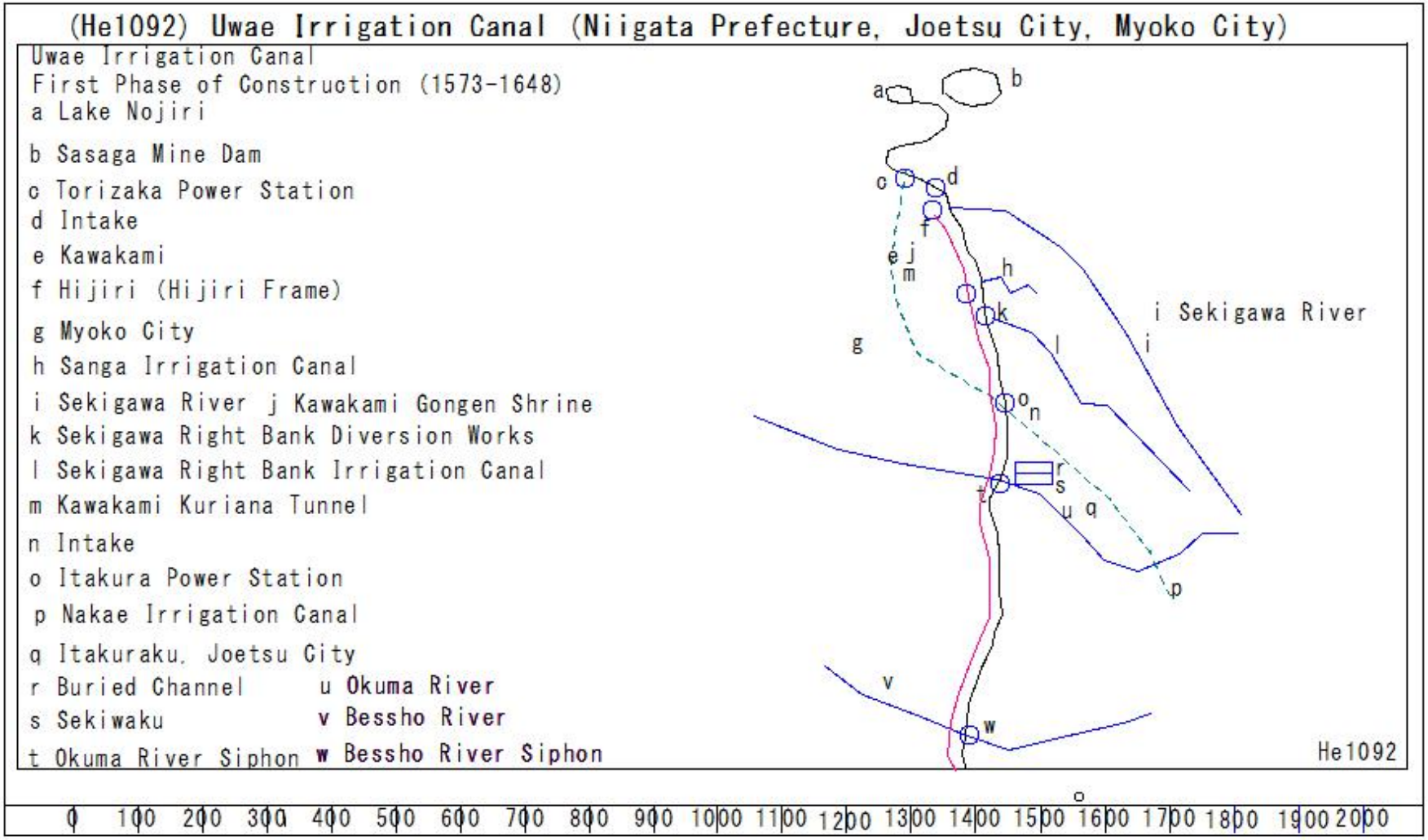
(He1090) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



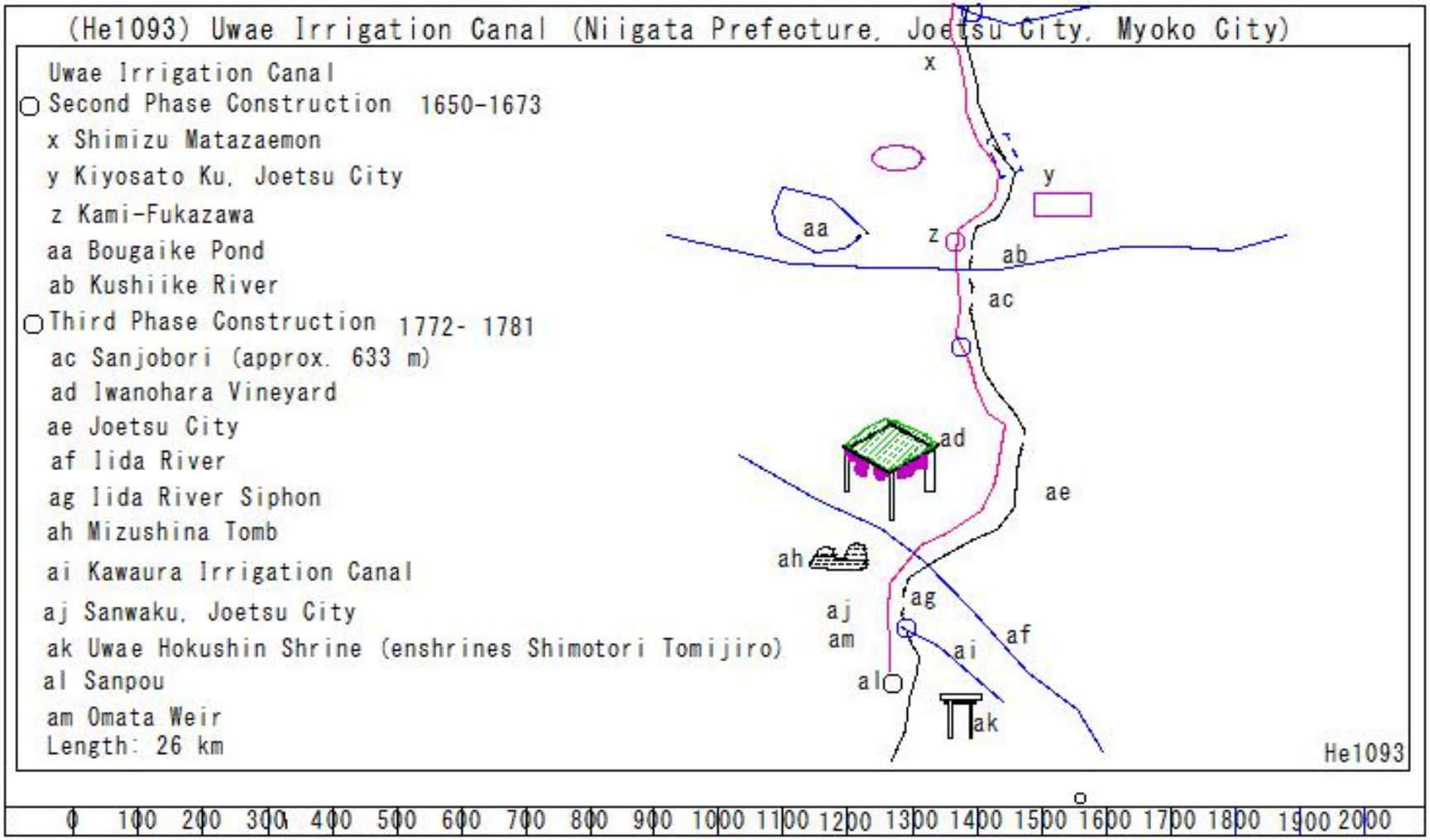
(He1091) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



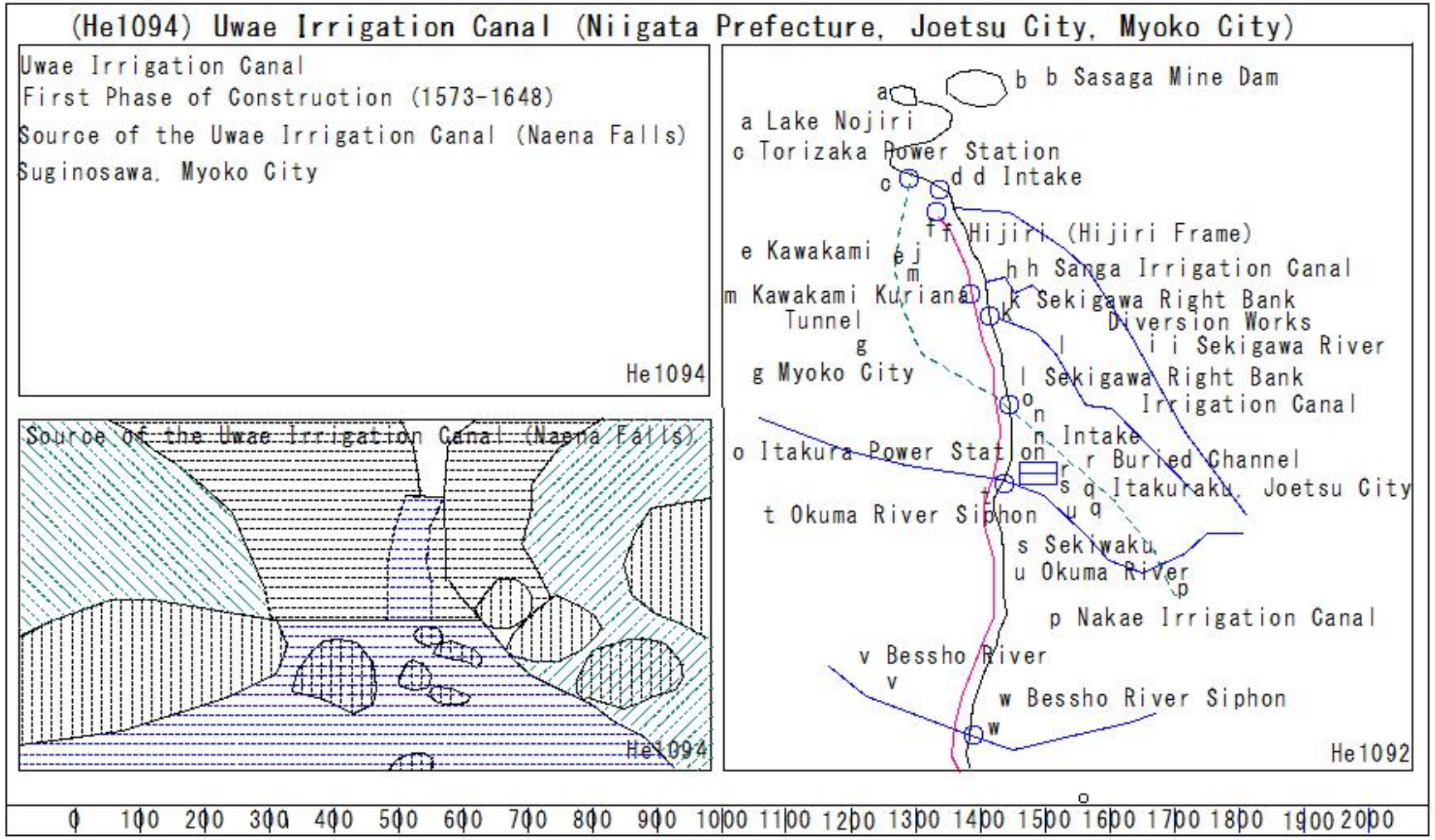
(He1092) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



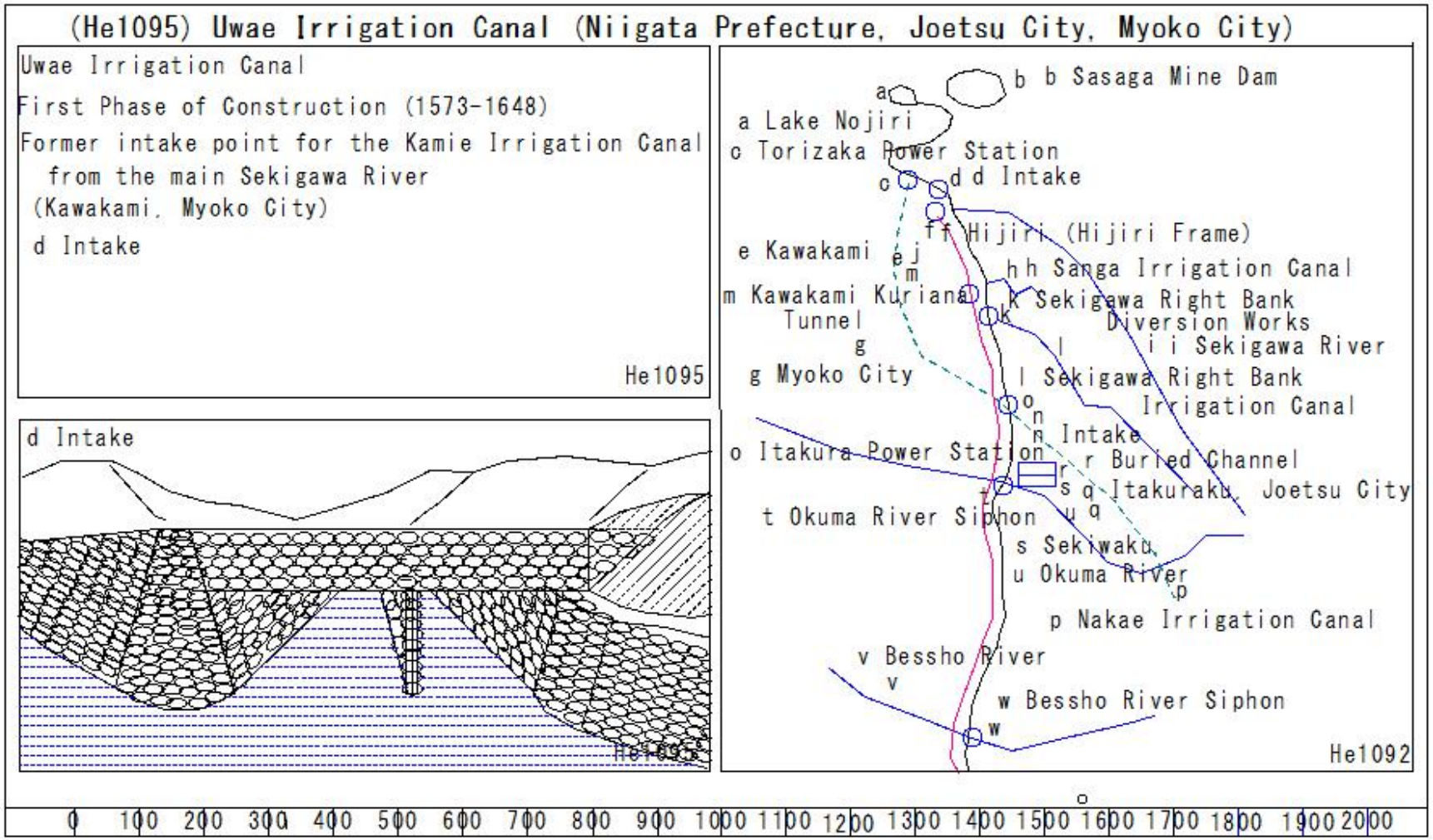
(He1093) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



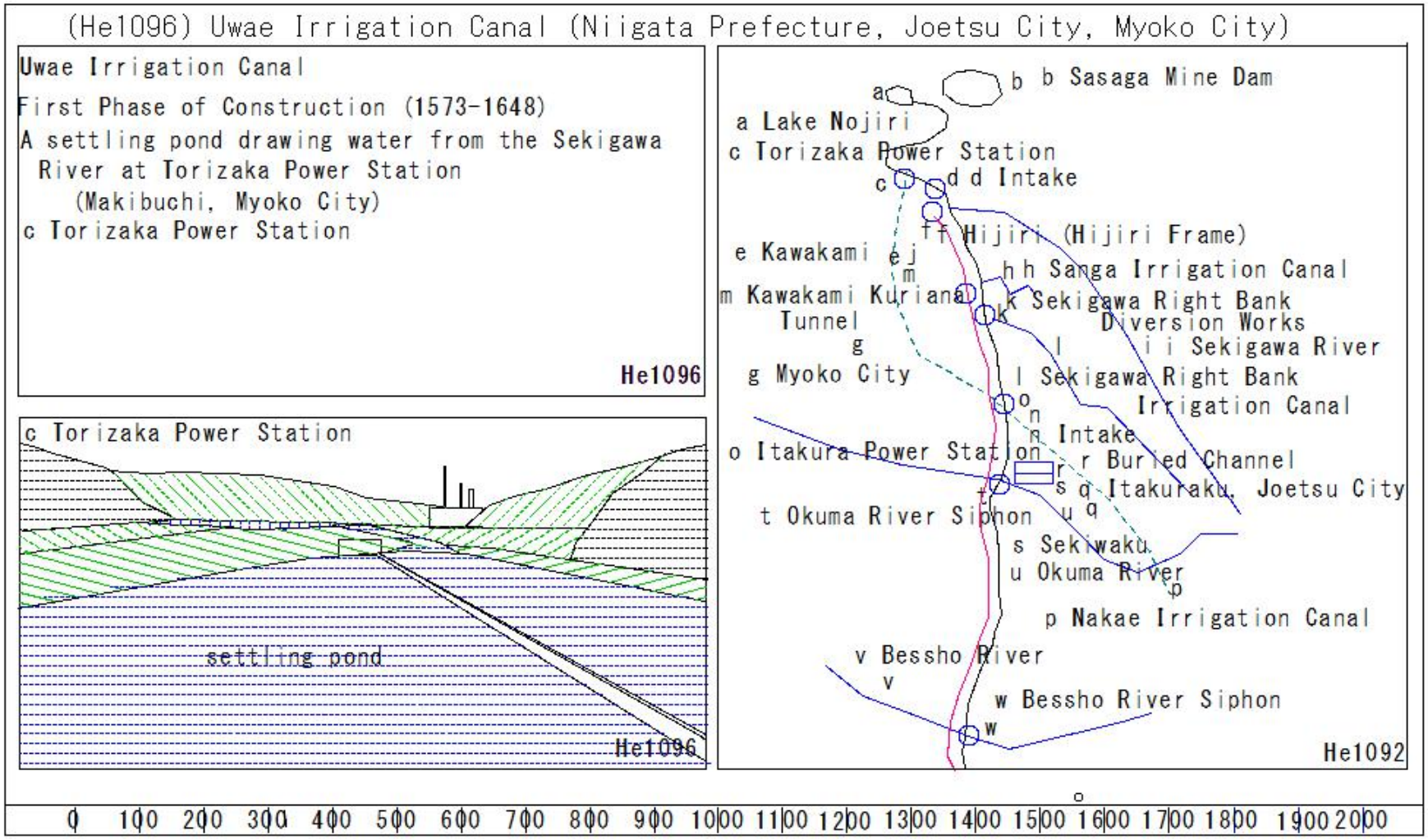
(He1094) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



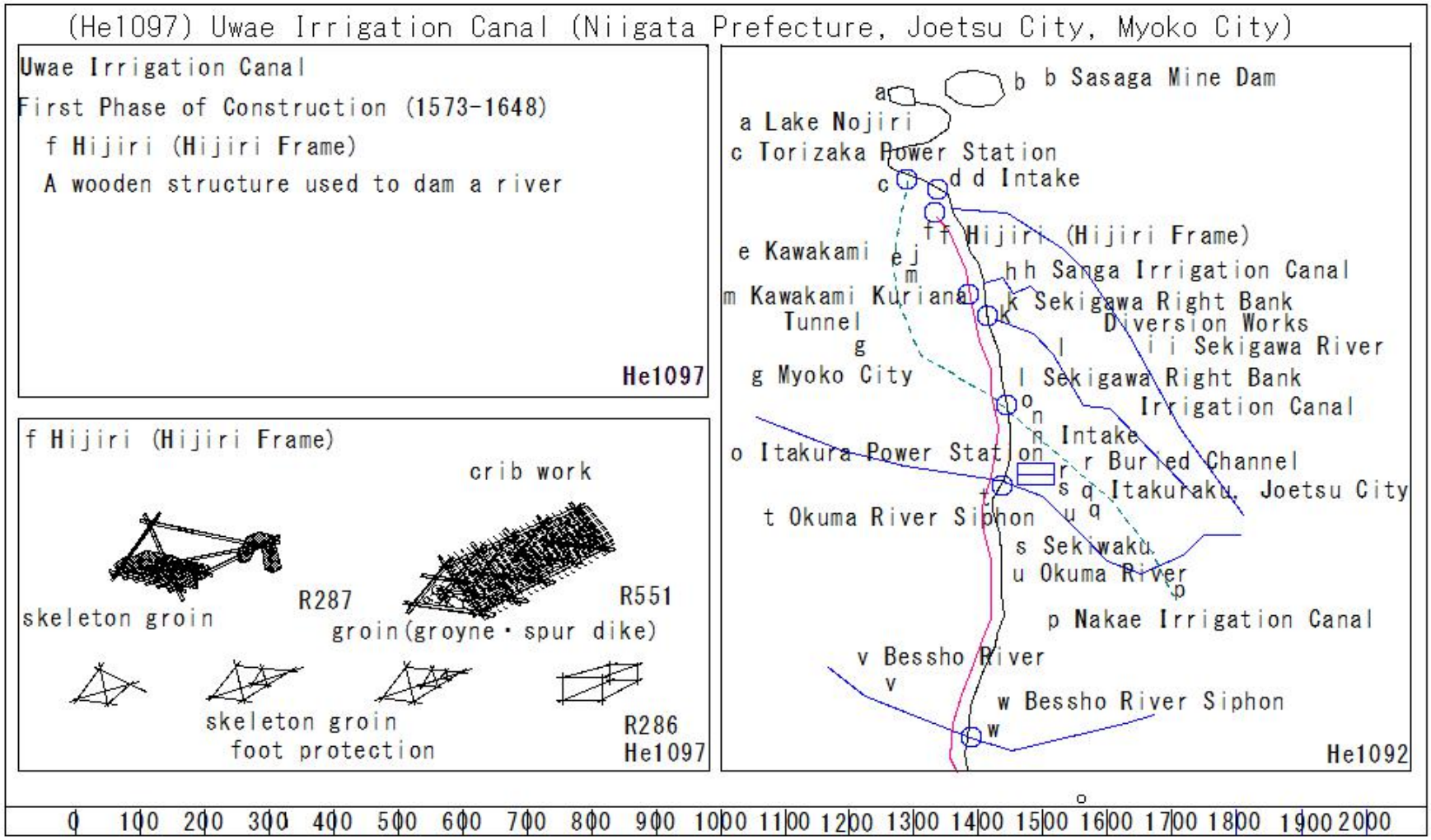
(He1095) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



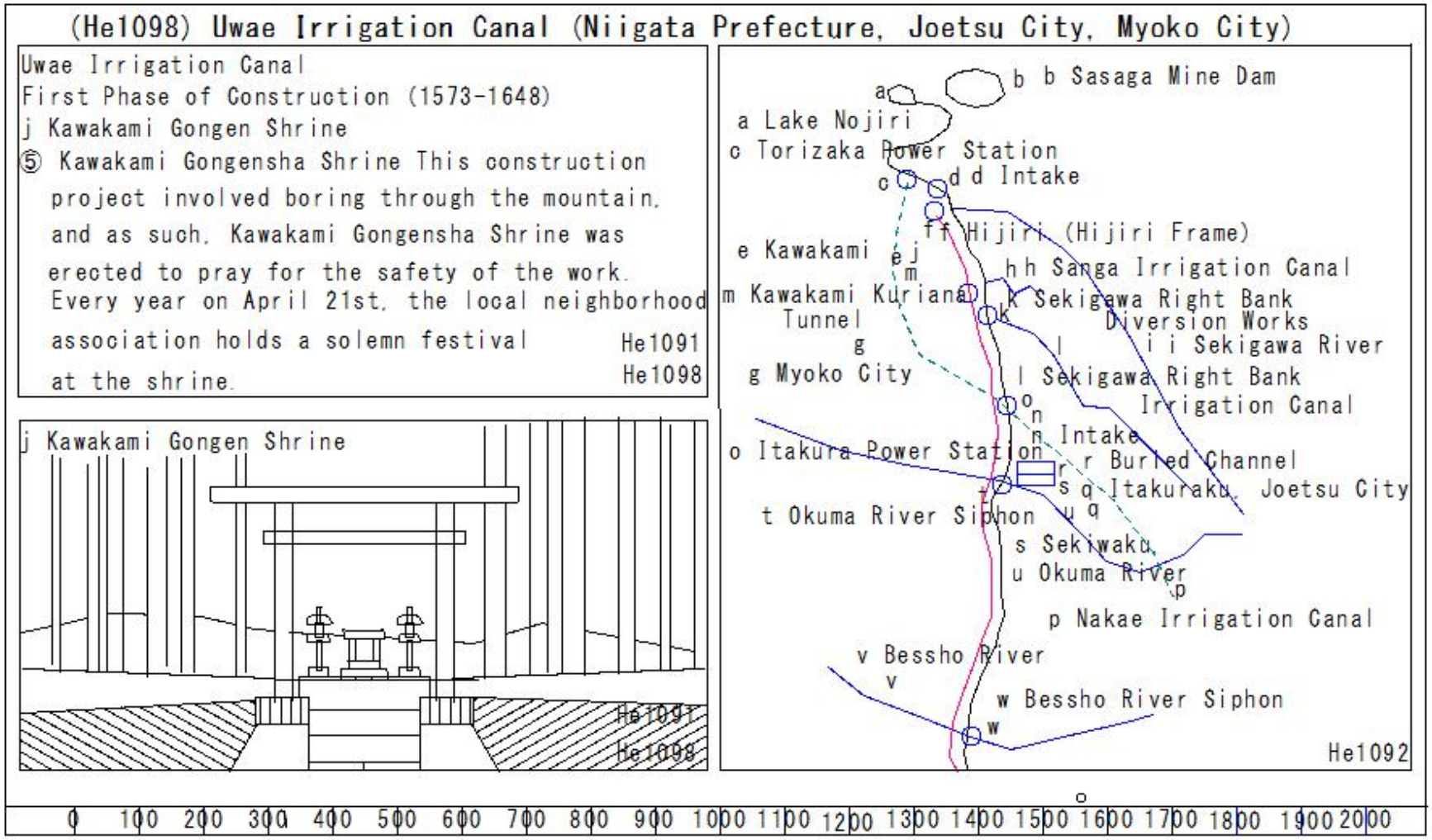
(He1096) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



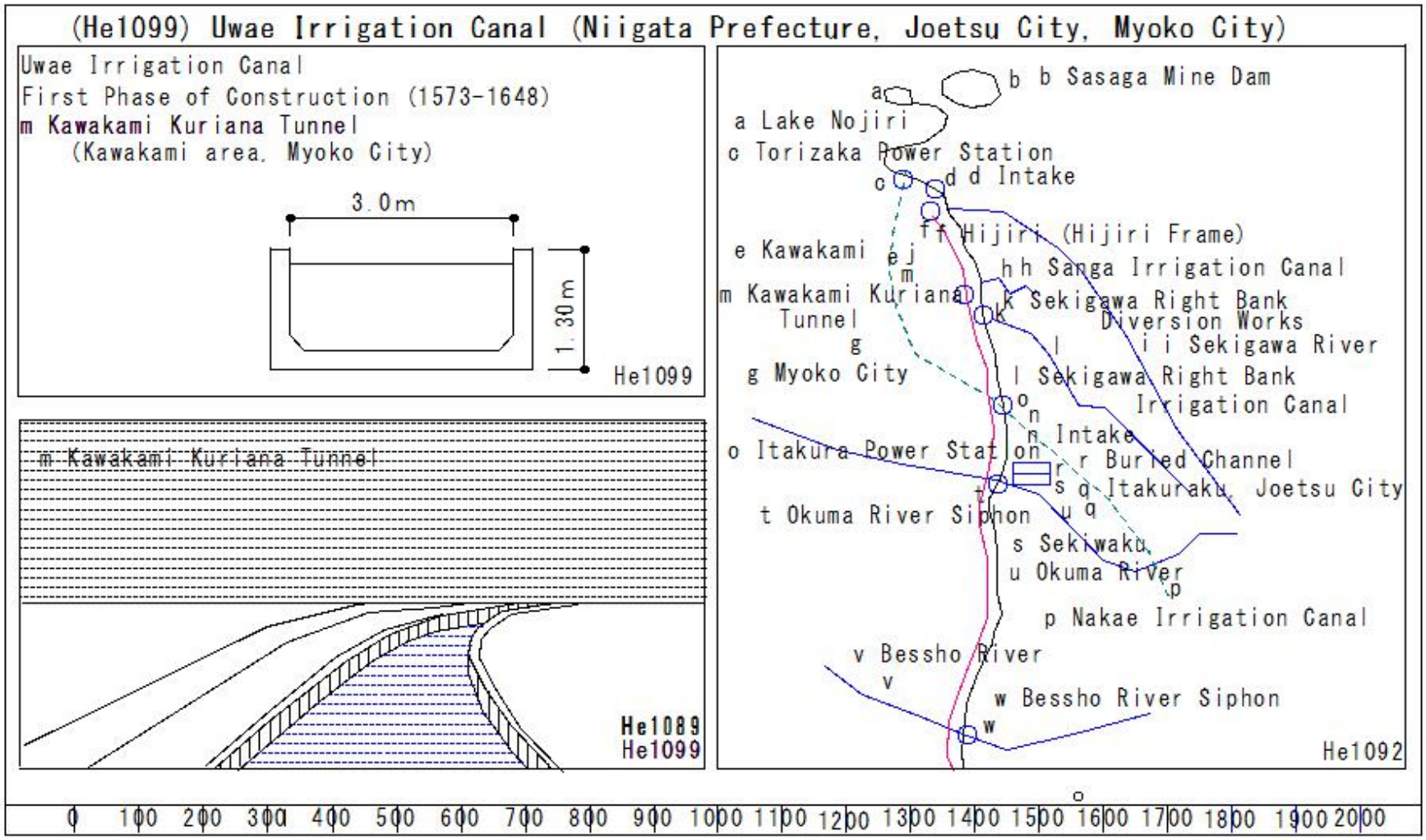
(He1097) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



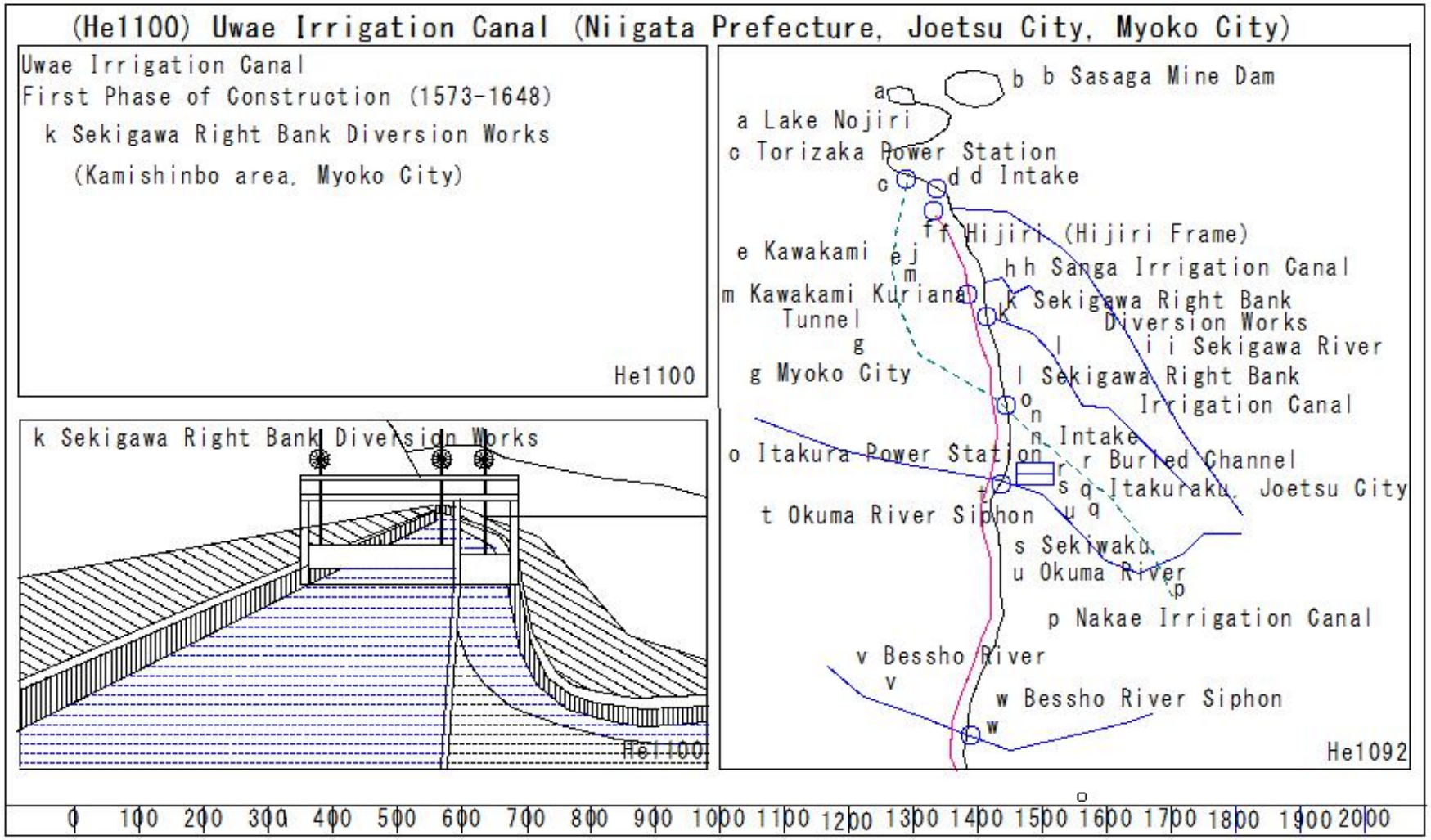
(He1098) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



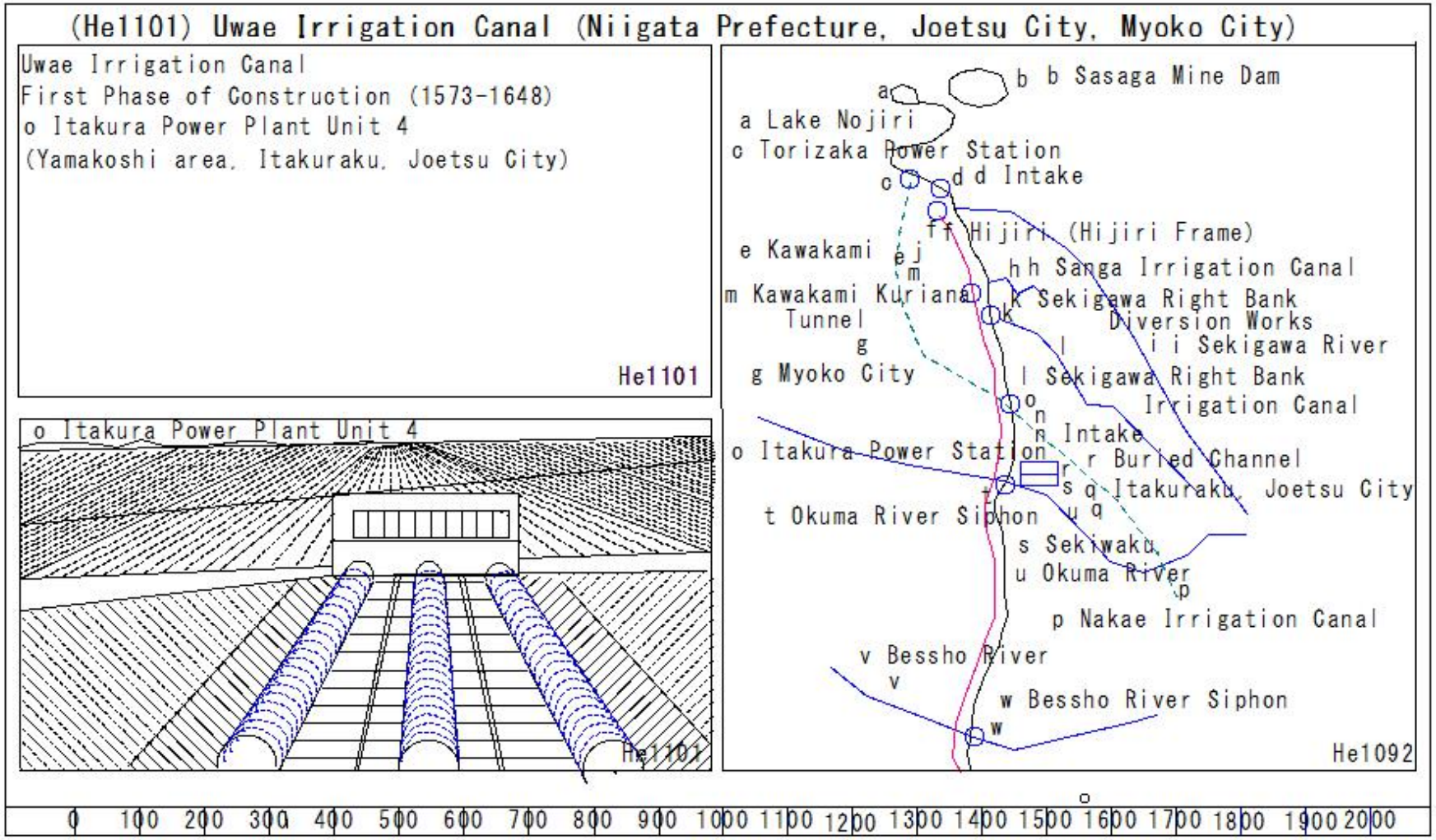
(He1099) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



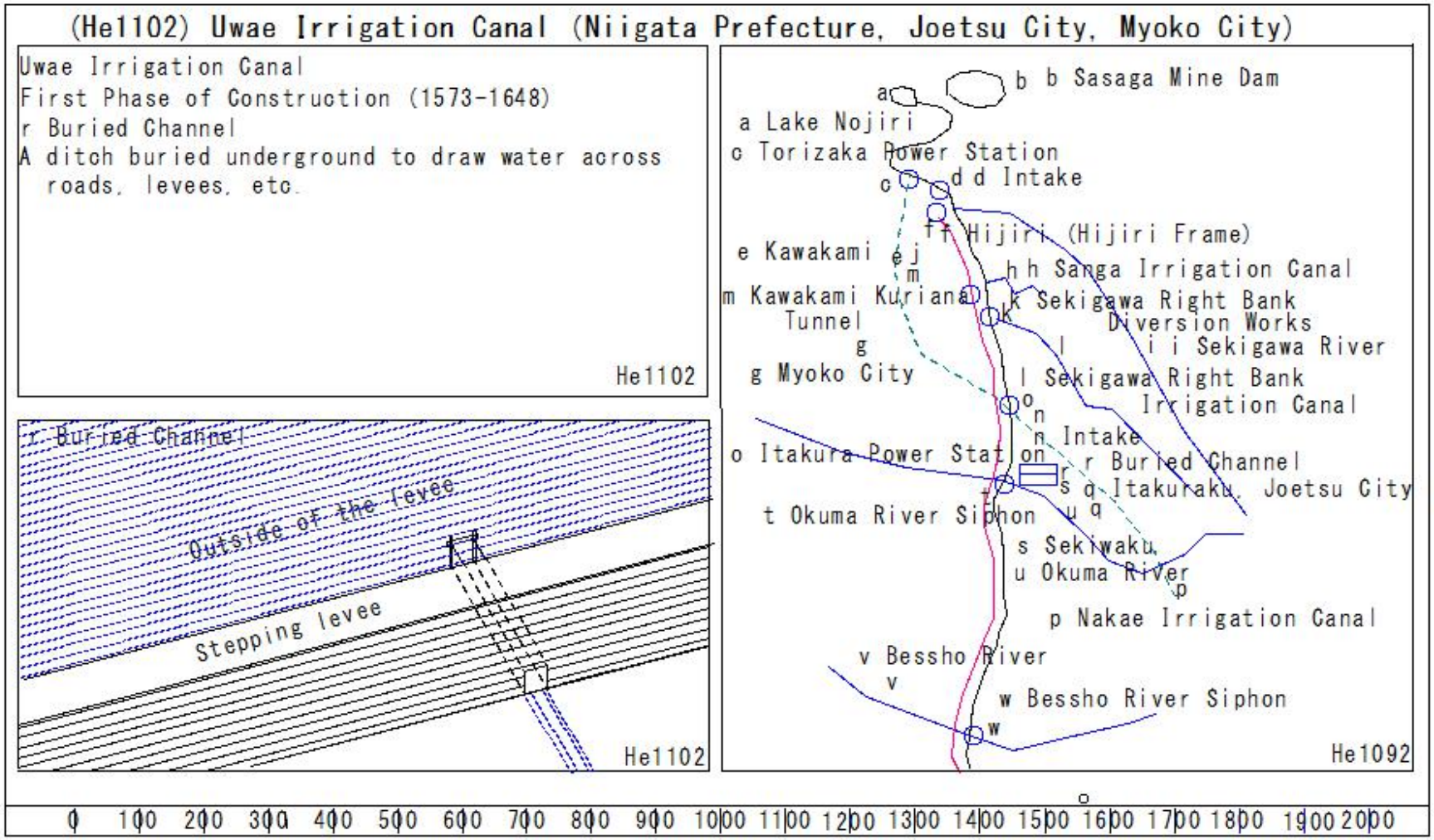
(He1100) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



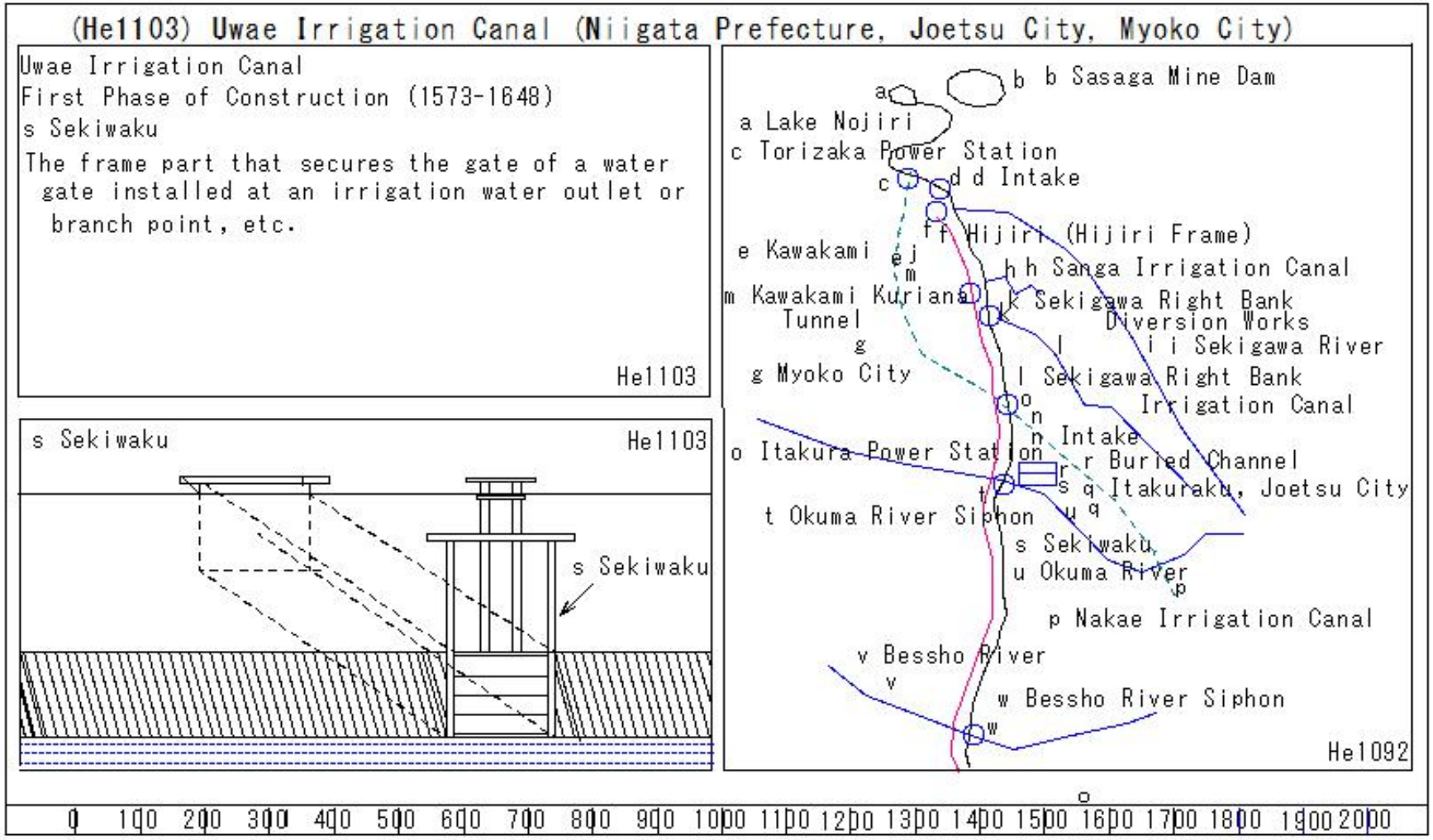
(He1101) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



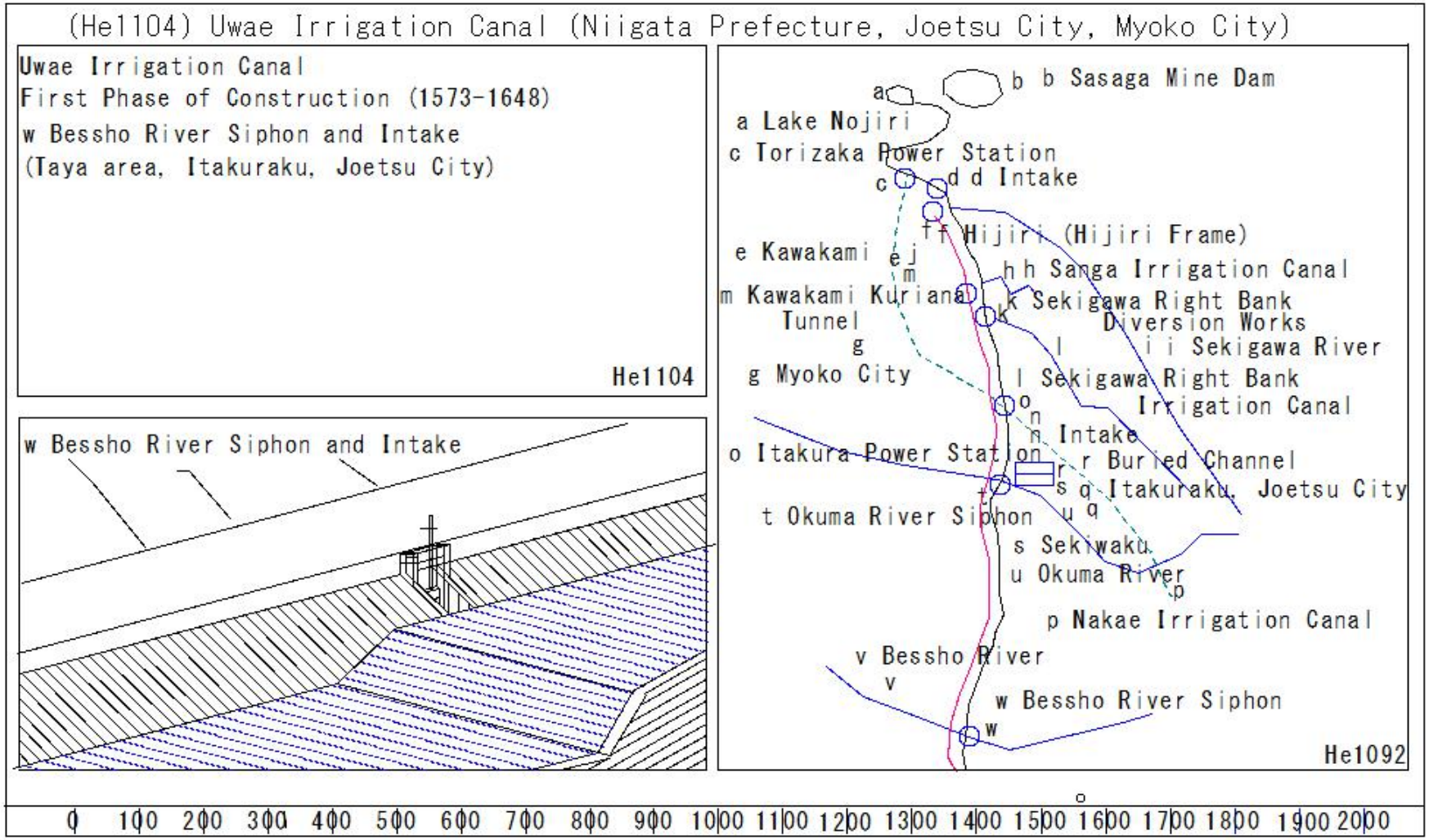
(He1102) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



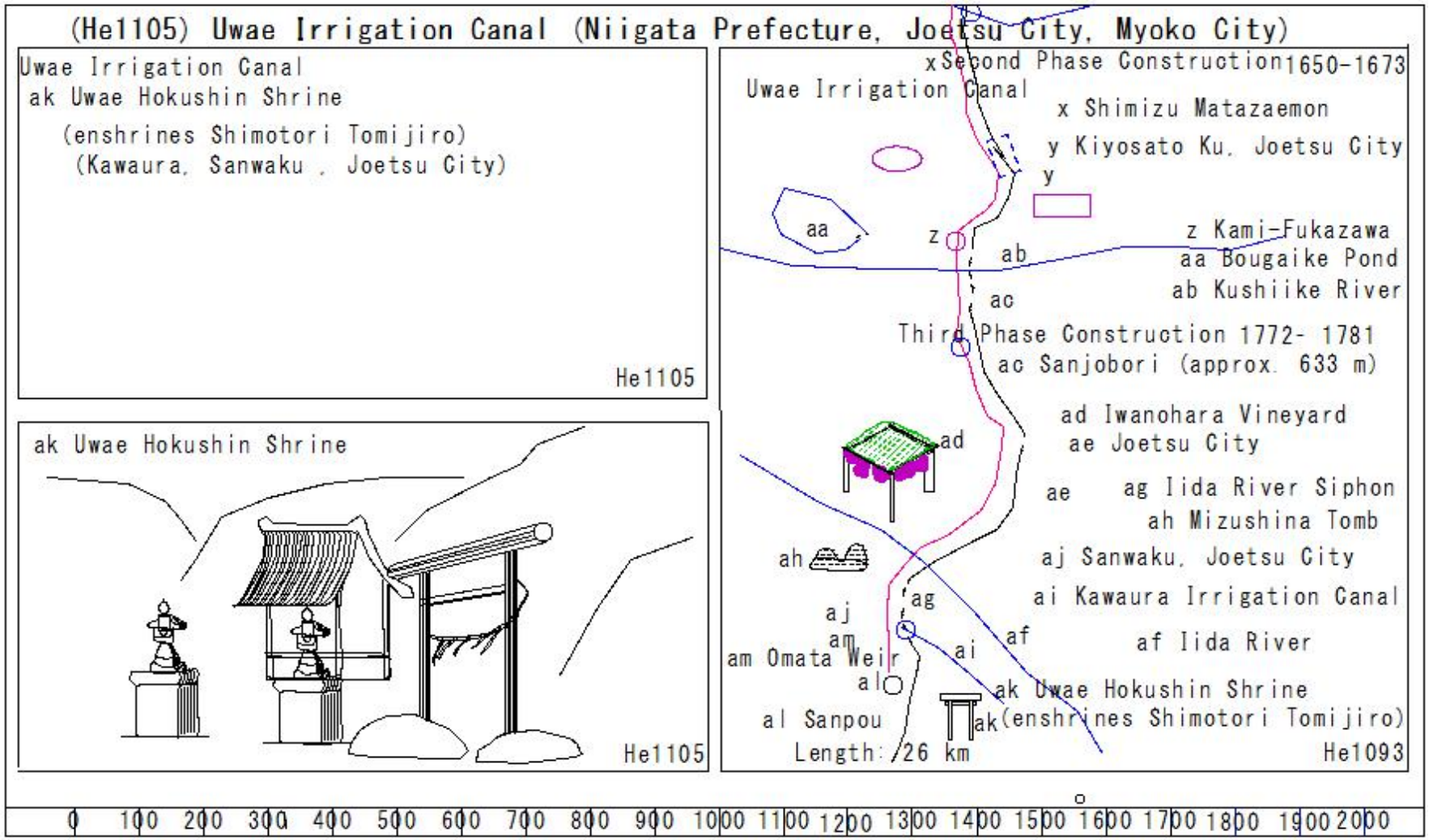
(He1103) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



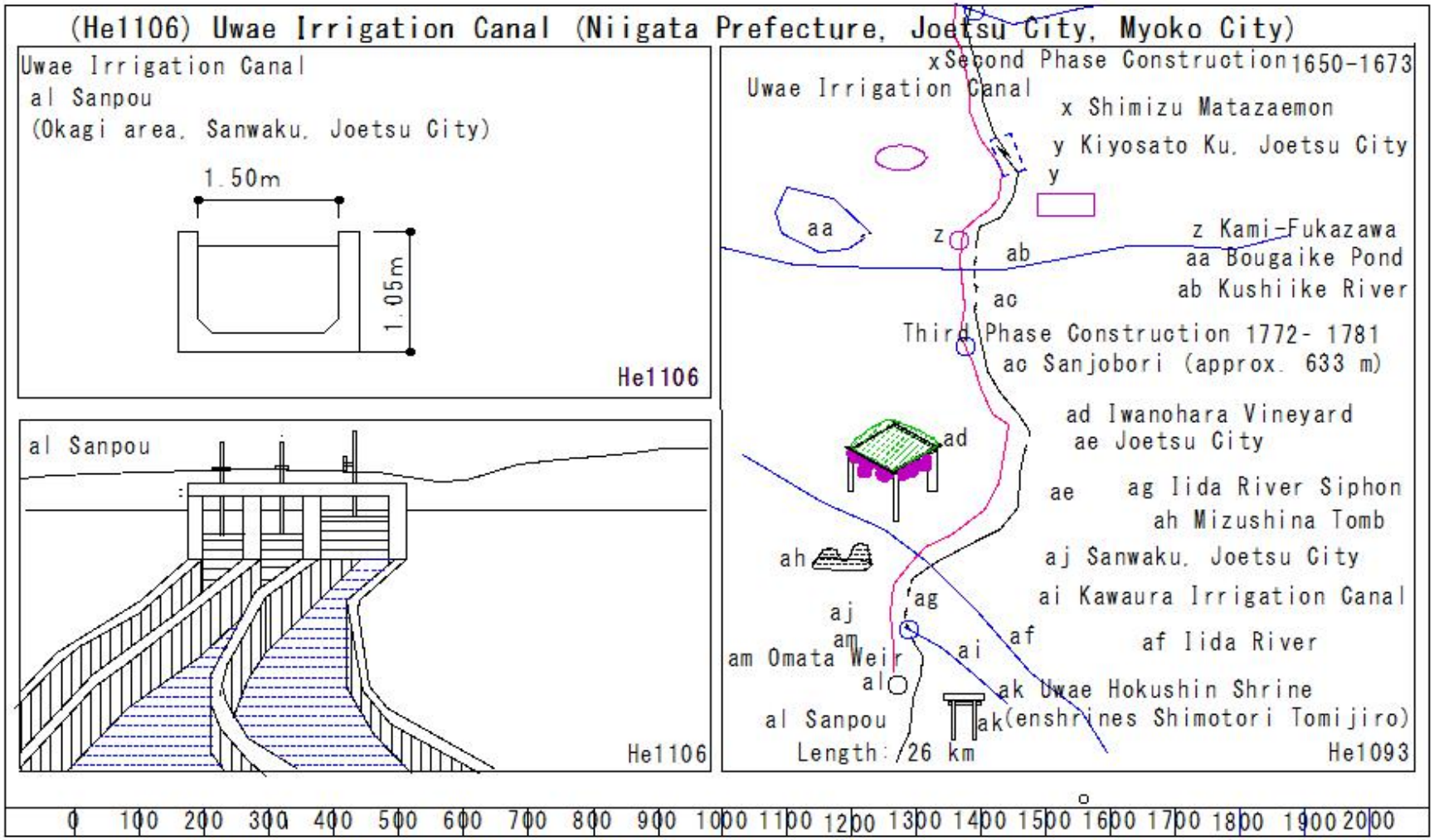
(He1104) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



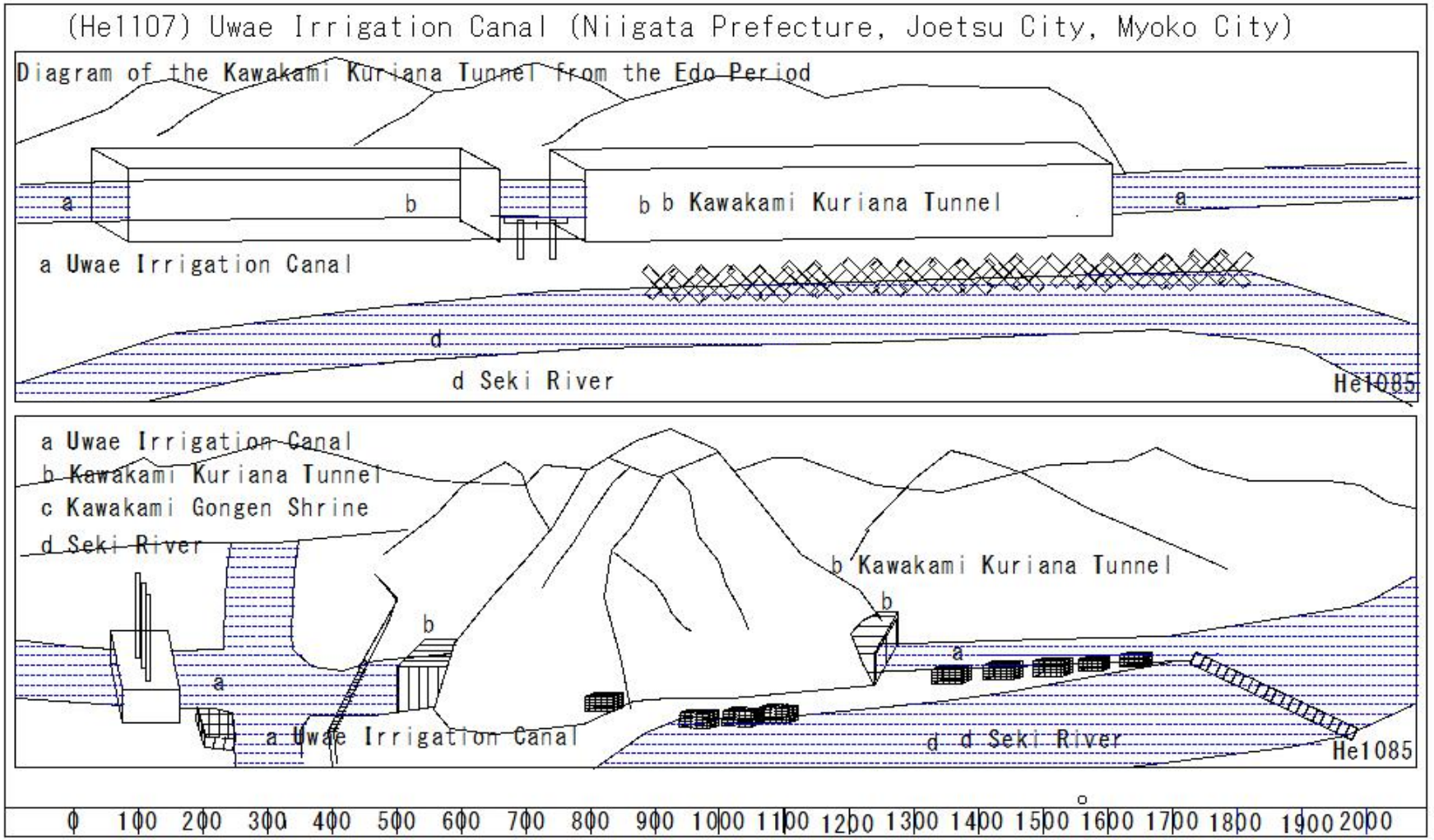
(He1105) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



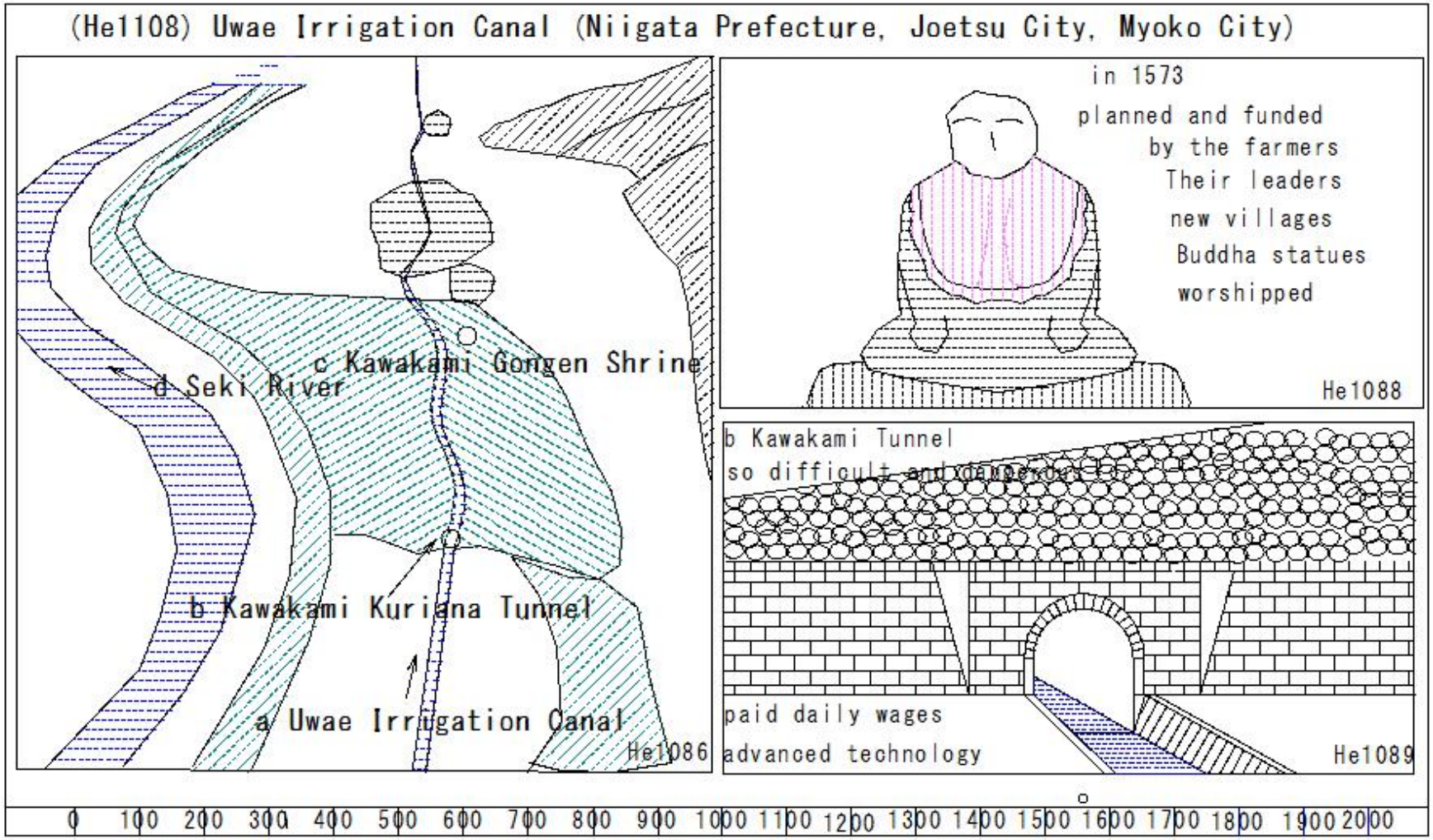
(He1106) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



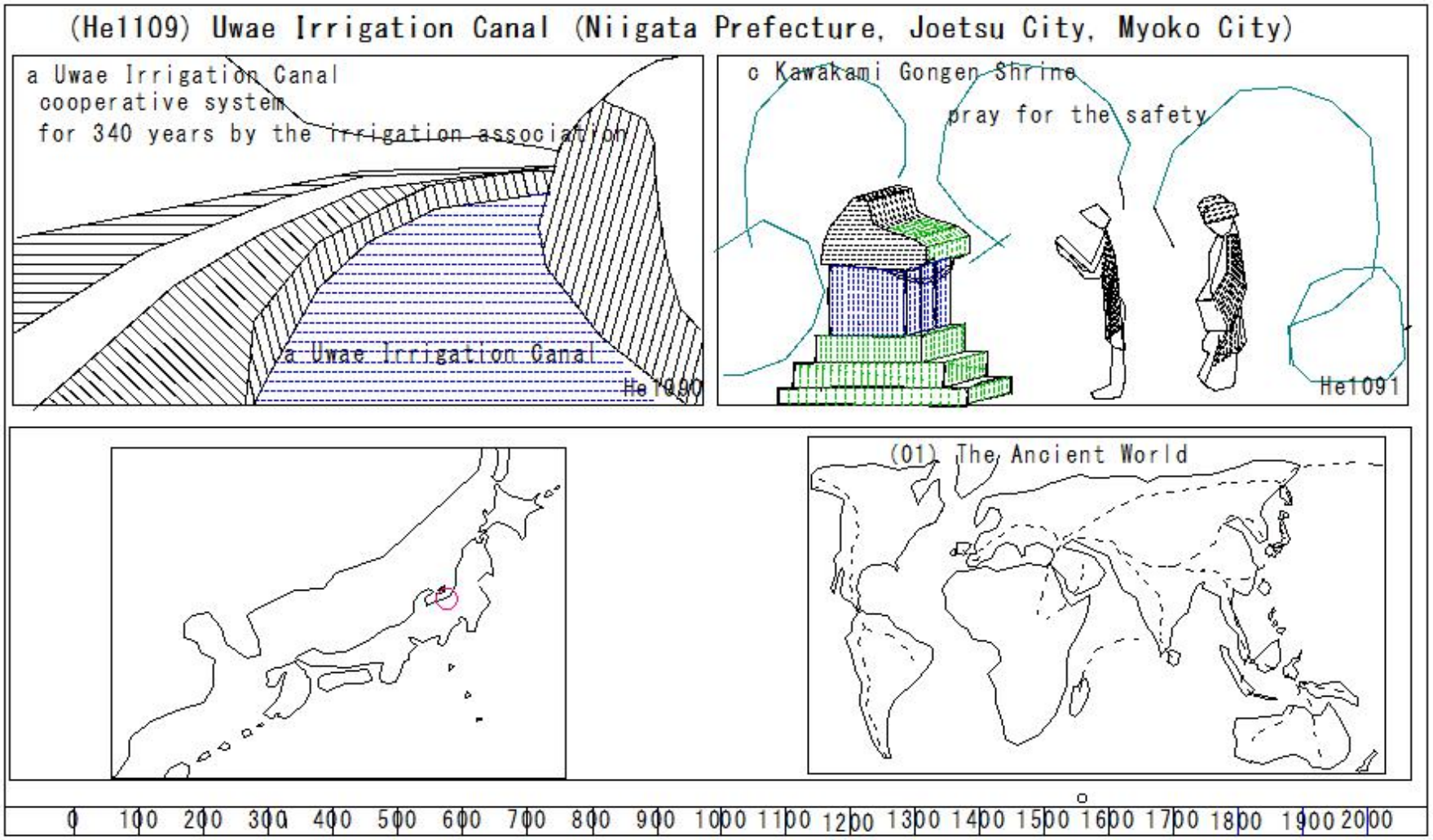
(He1107) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



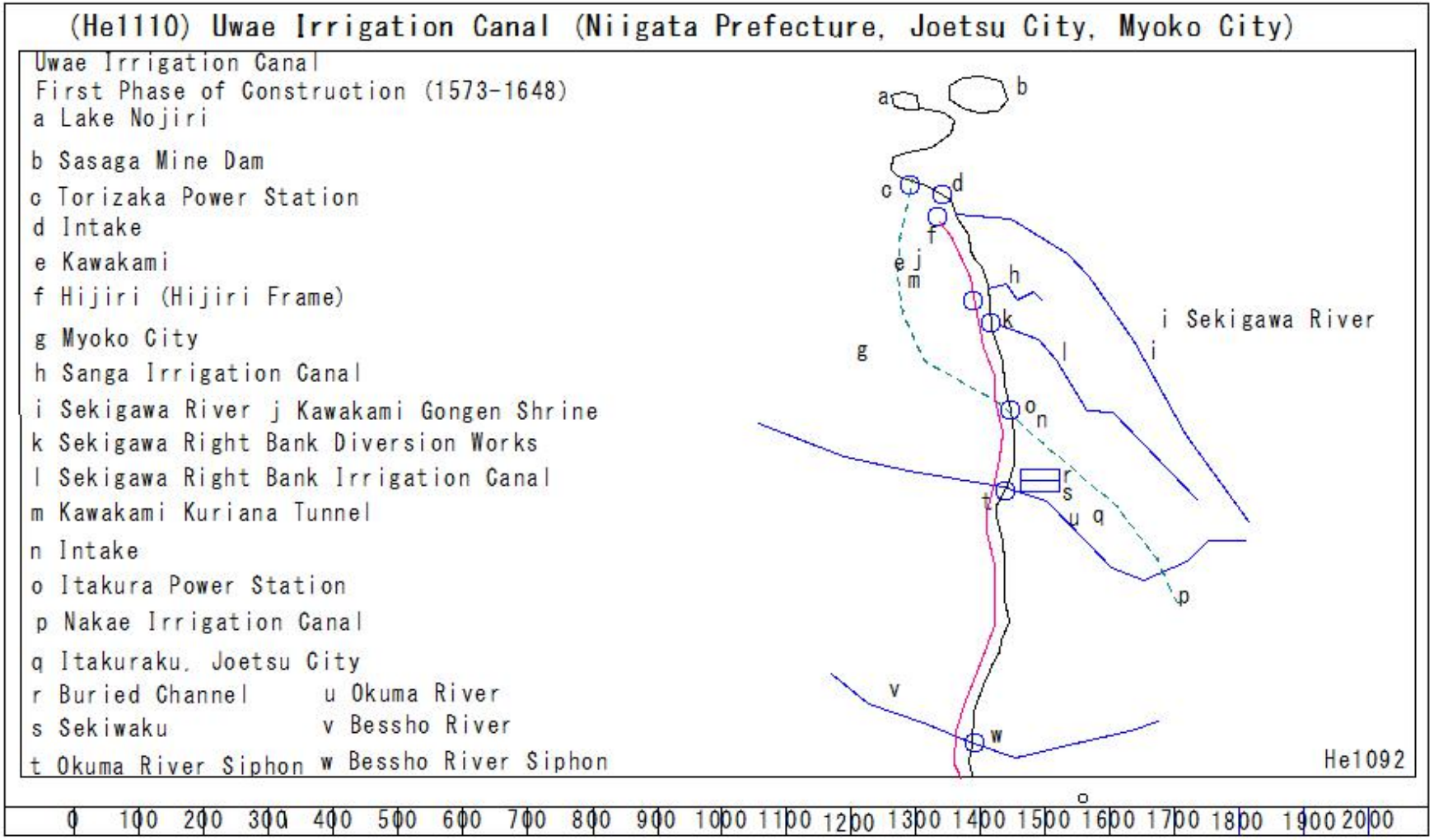
(He1108) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



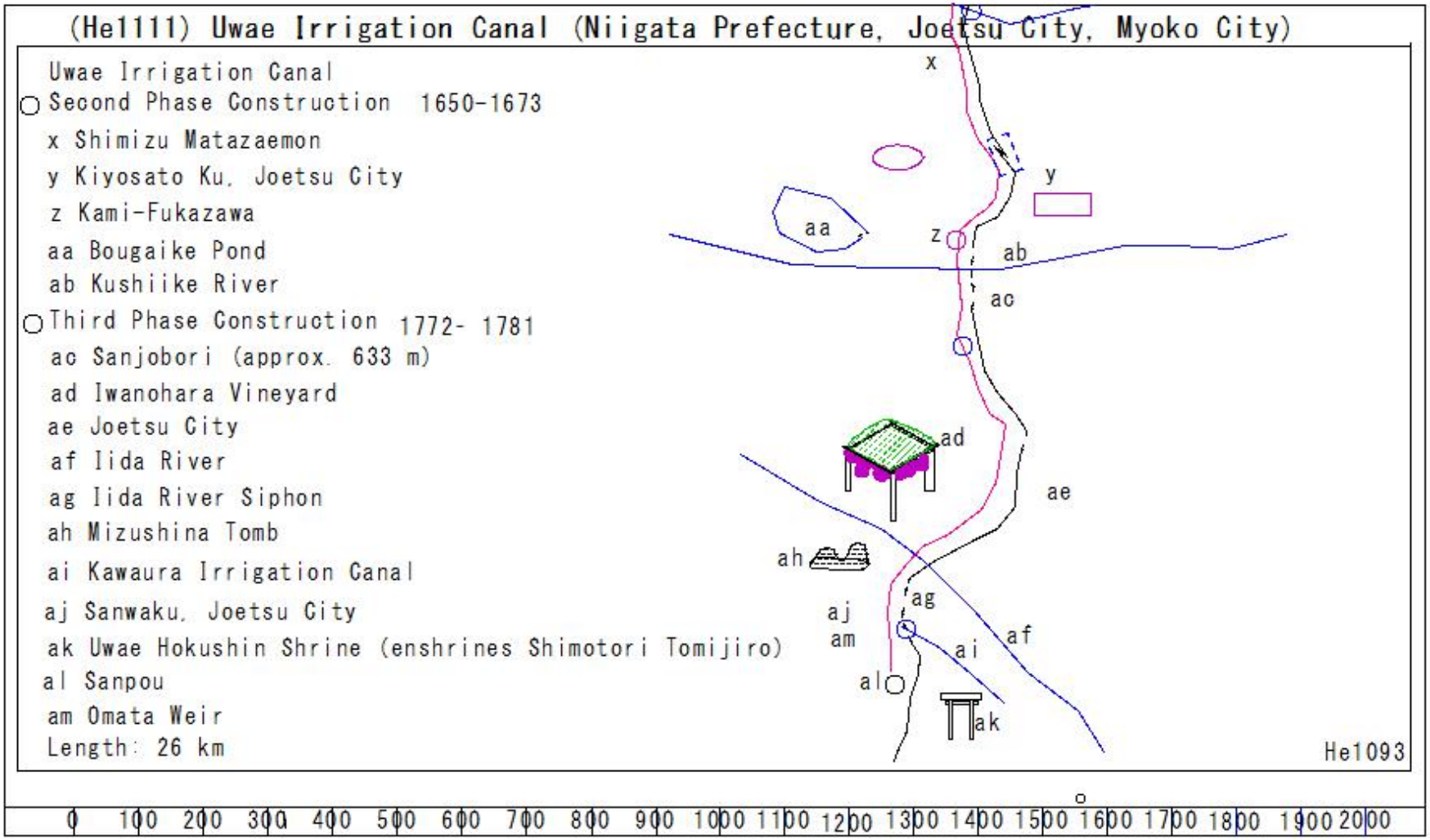
(He1109) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



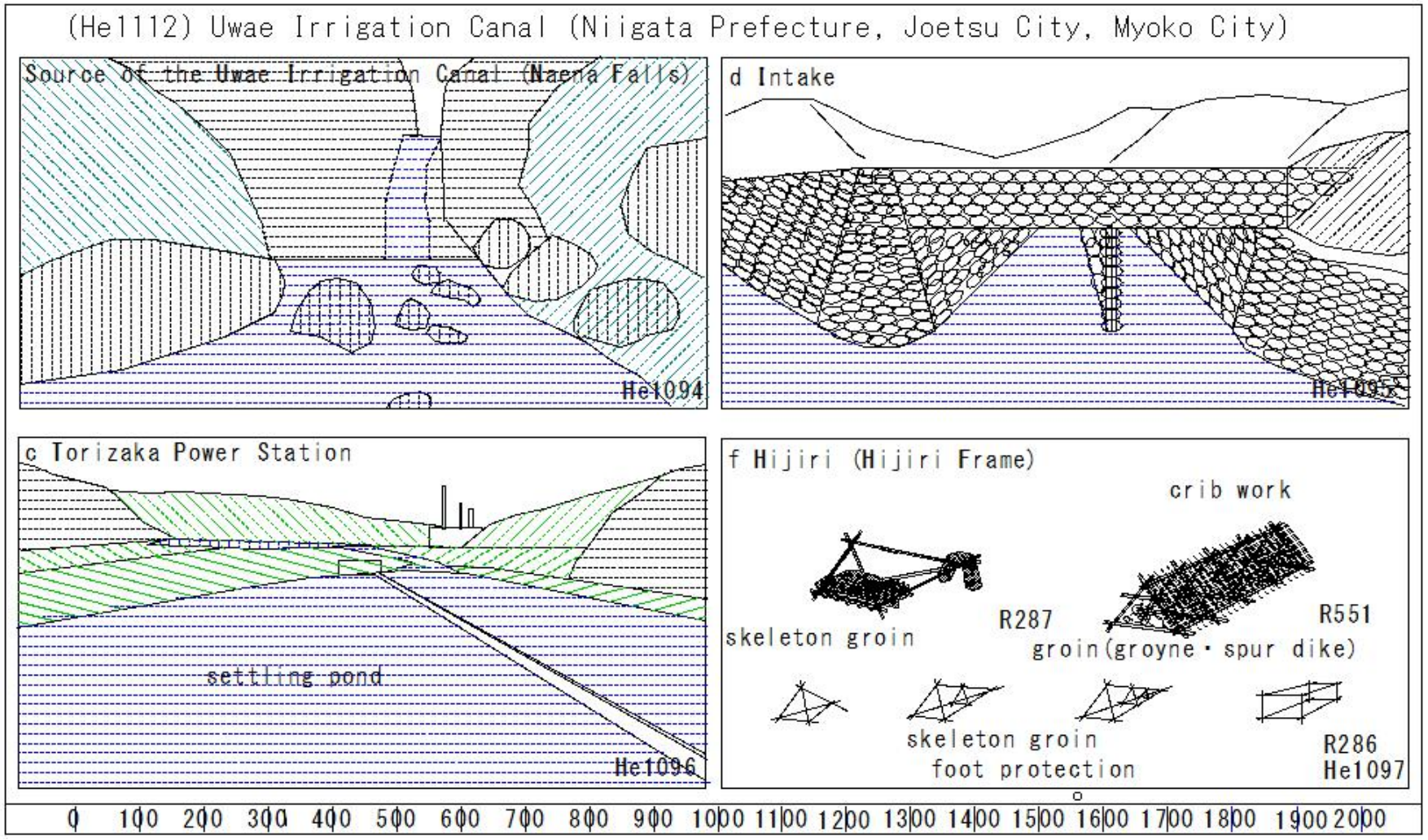
(He1110) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



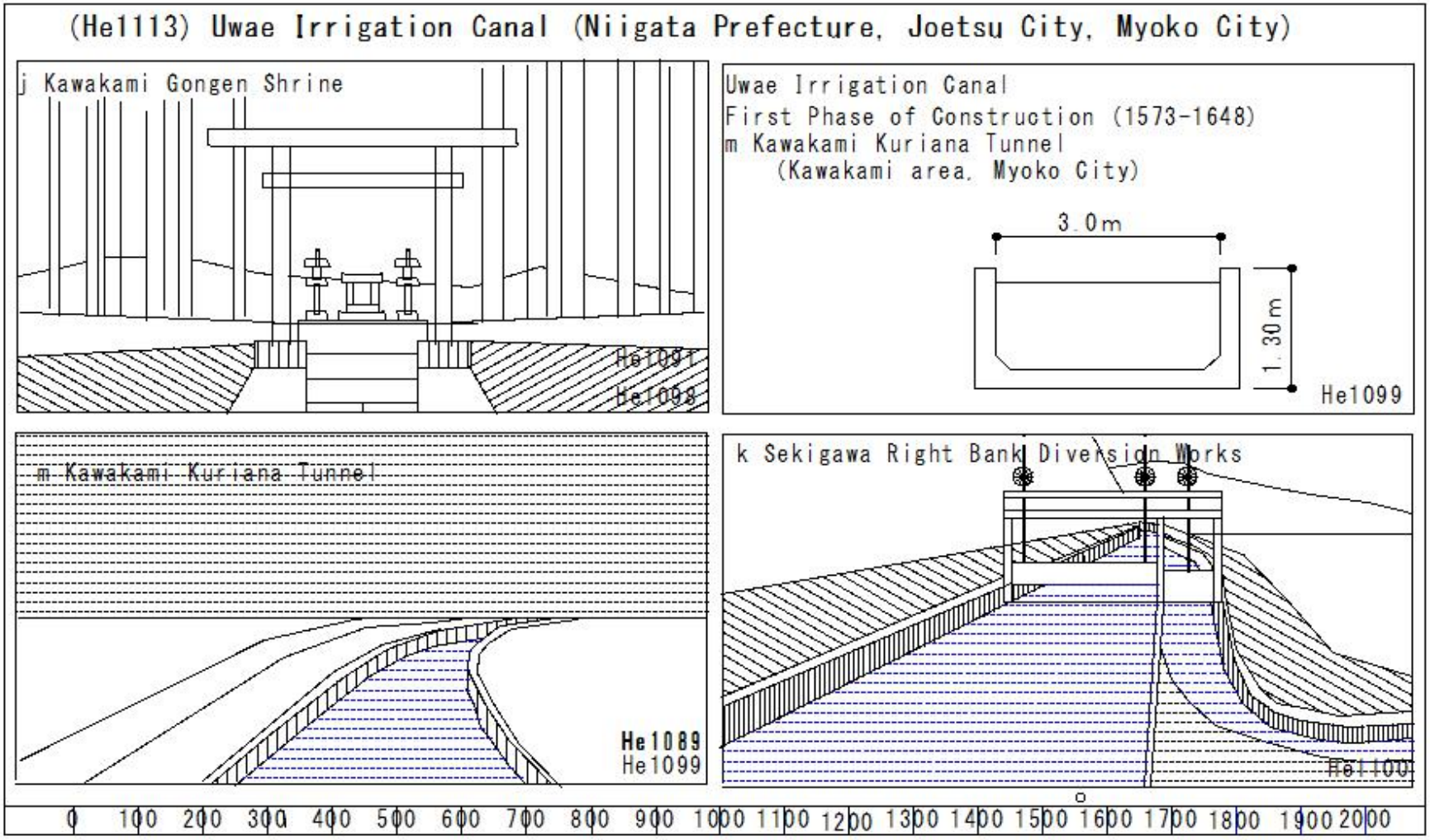
(He1111) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



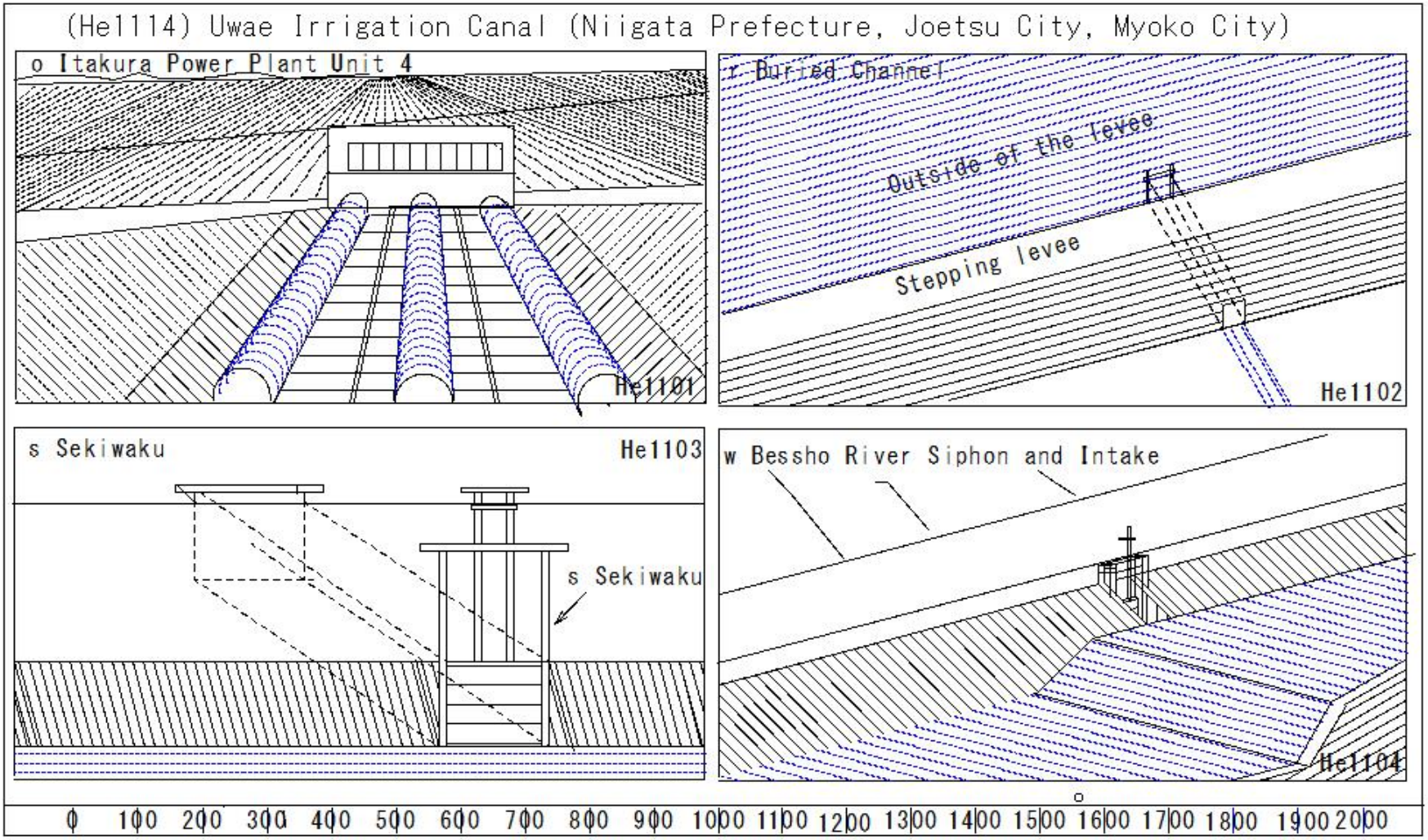
(He1112) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



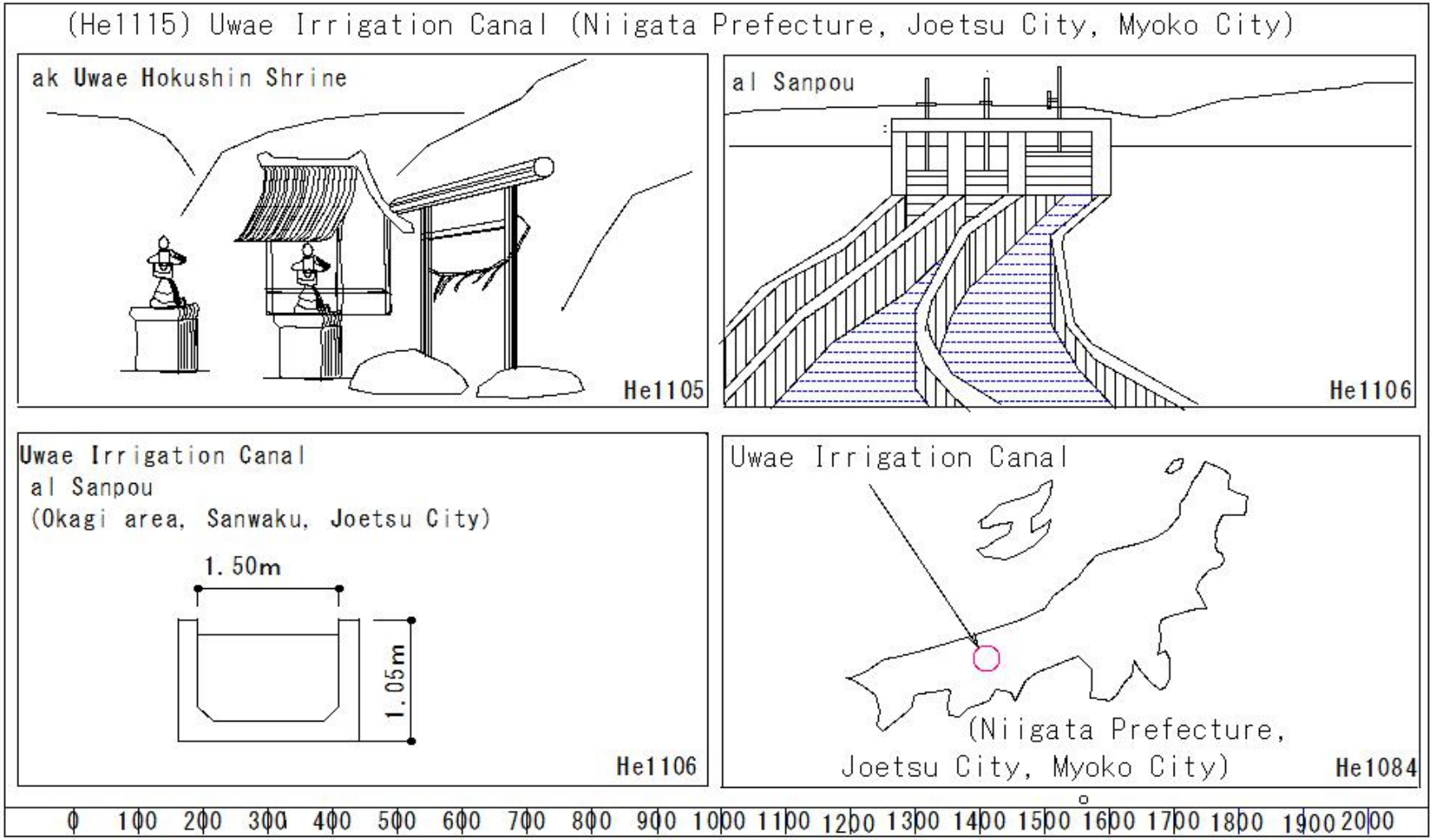
(He1113) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



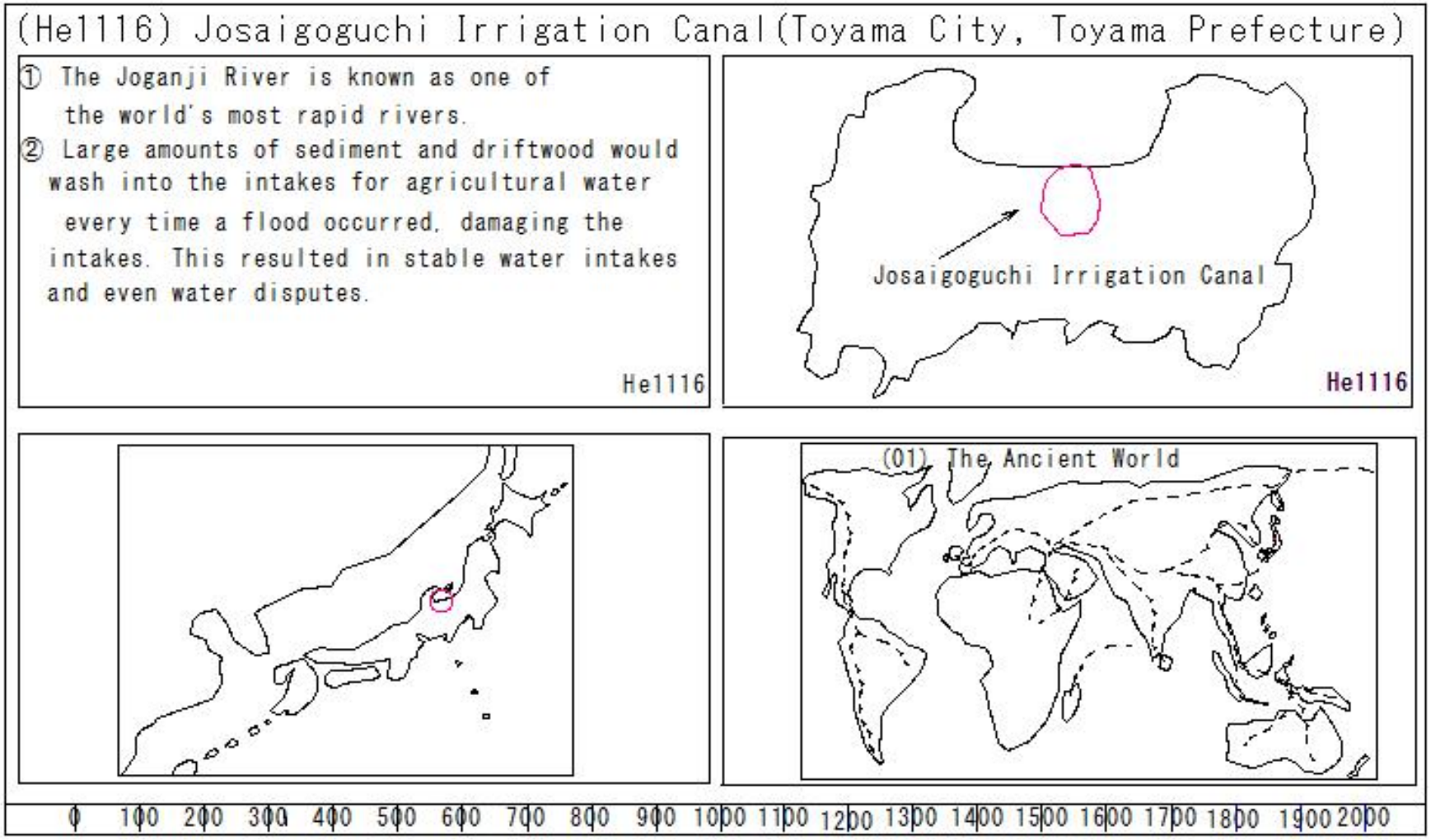
(He1114) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



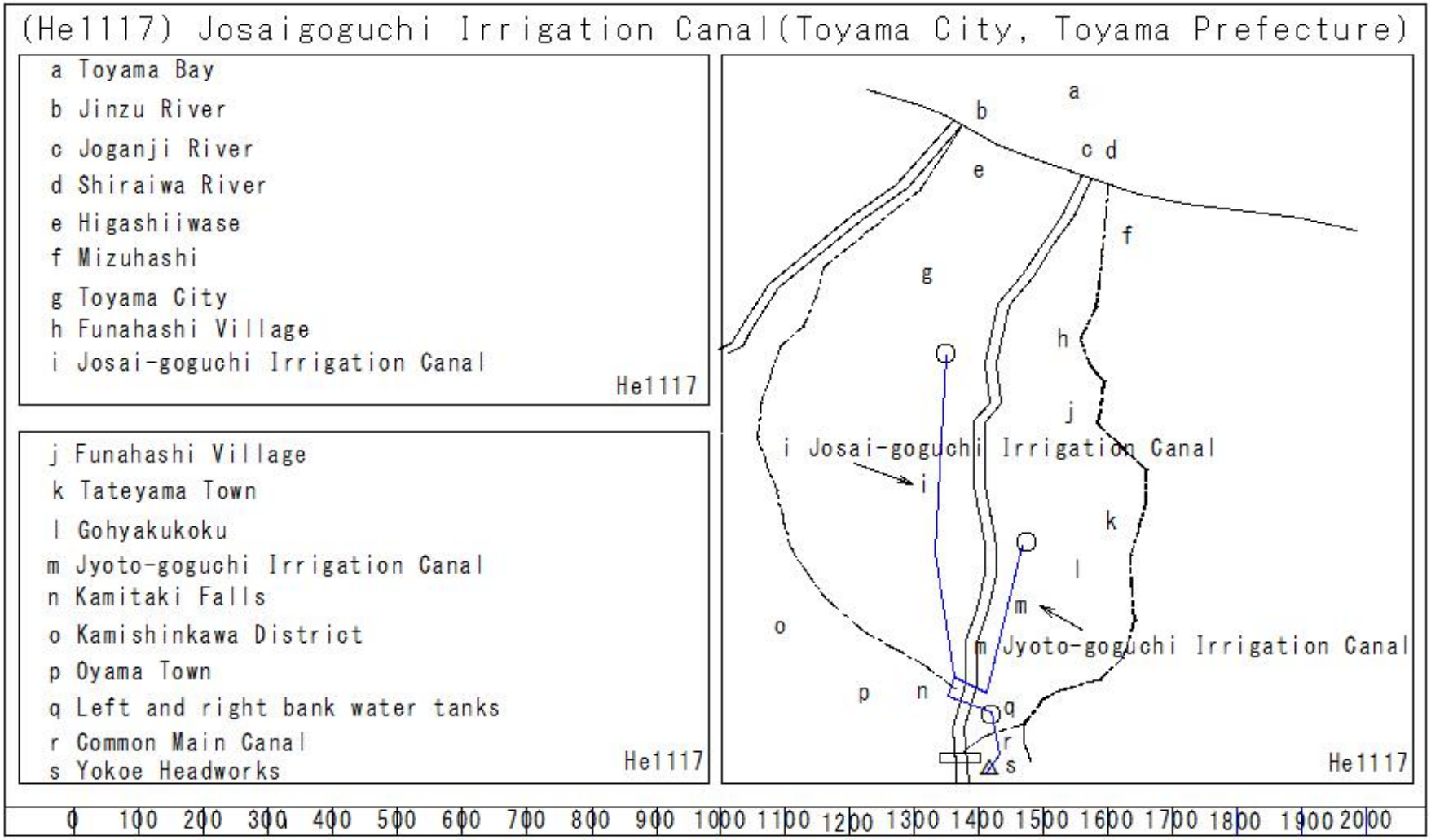
(He1115) Uwae Irrigation Canal (Niigata Prefecture, Joetsu City, Myoko City)



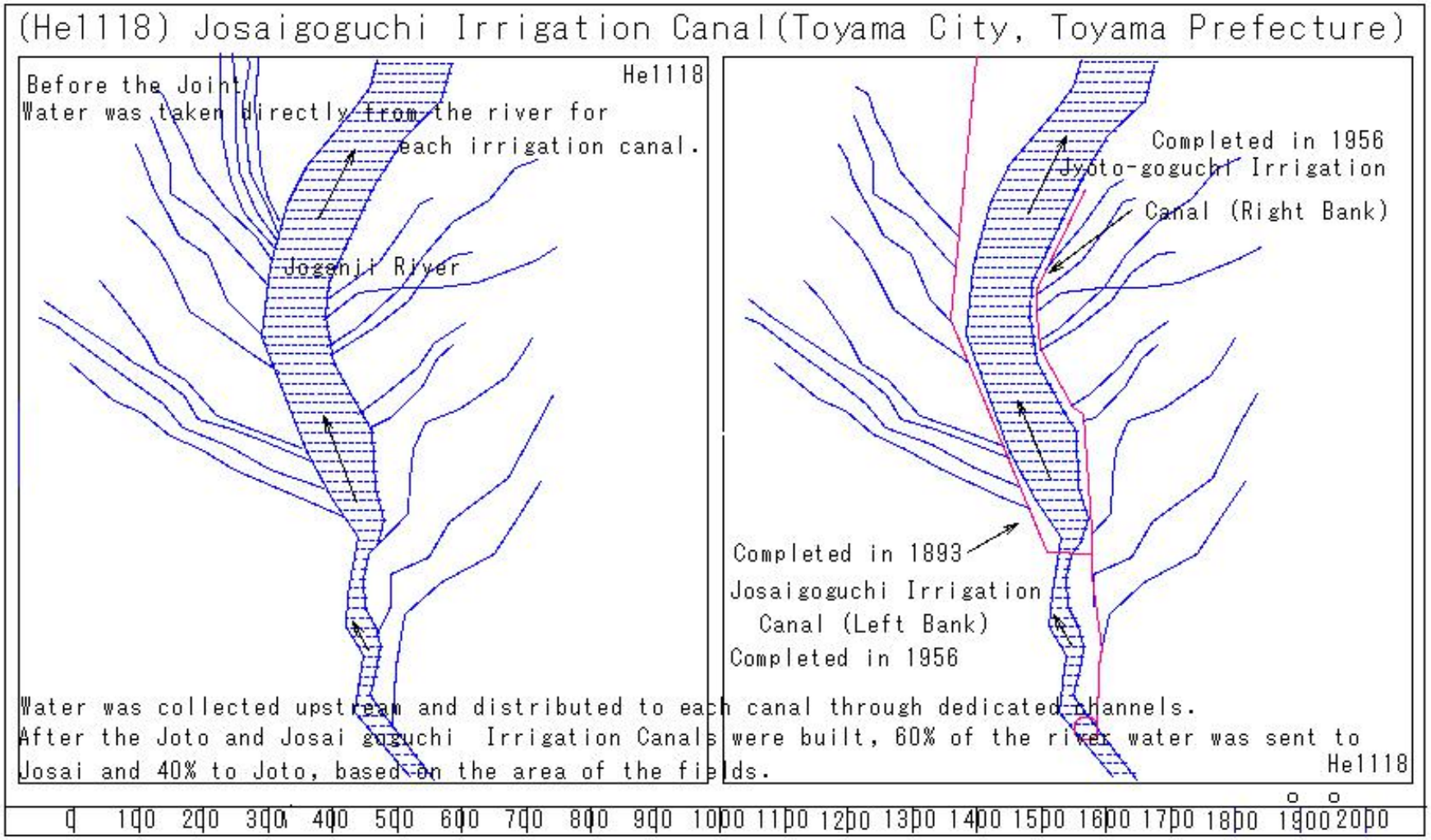
(He1116) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



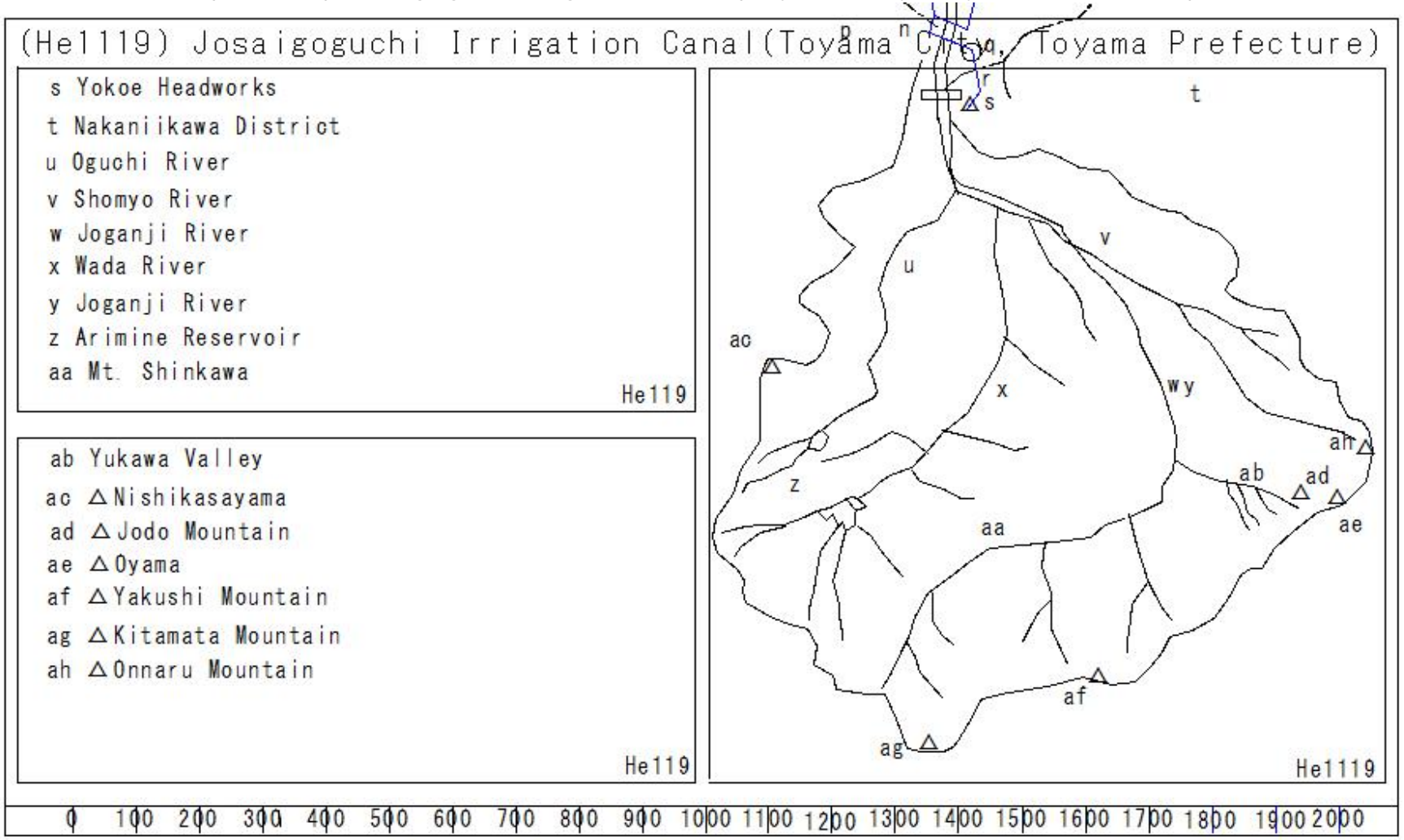
(He1117) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



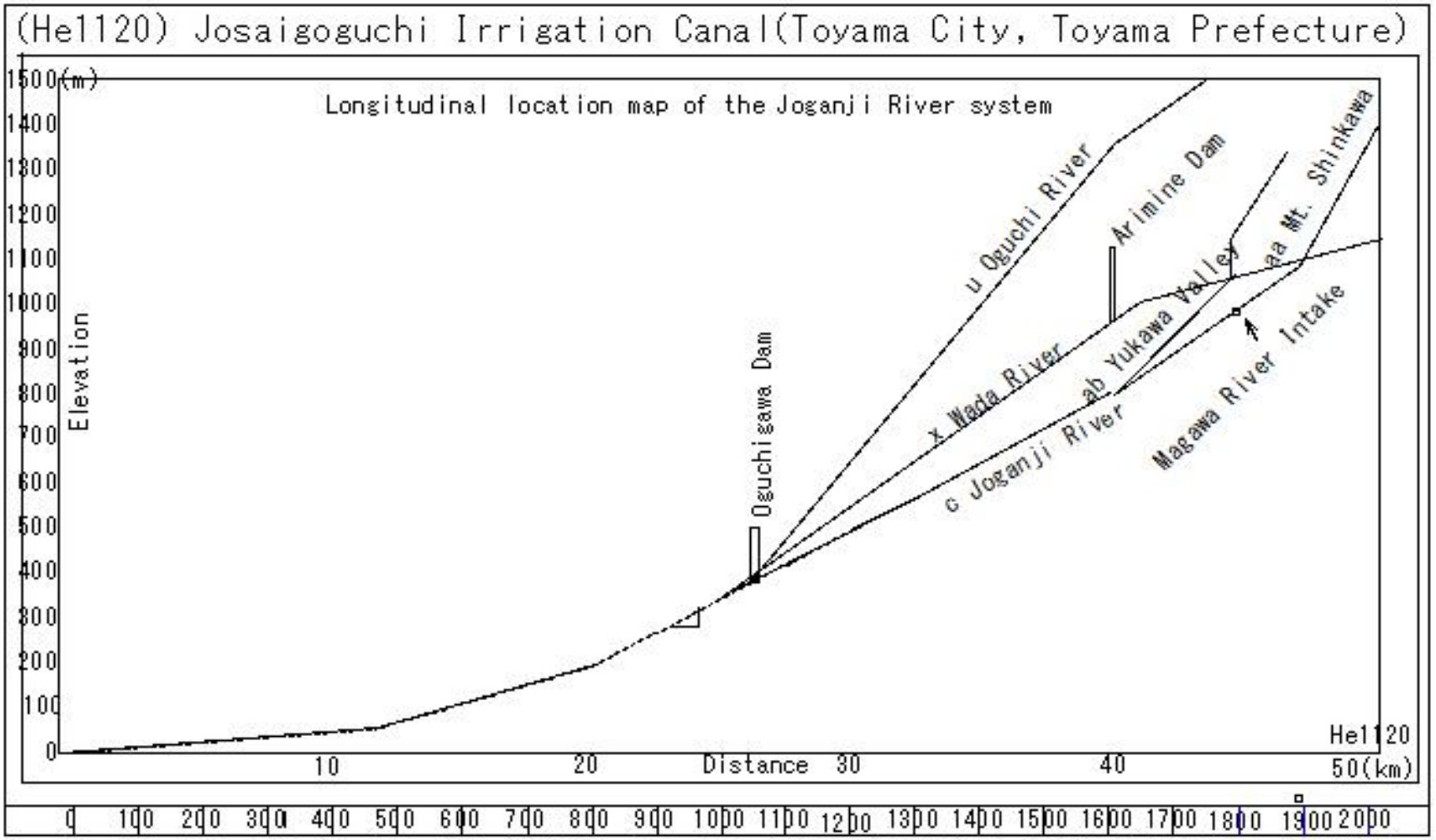
(He1118) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



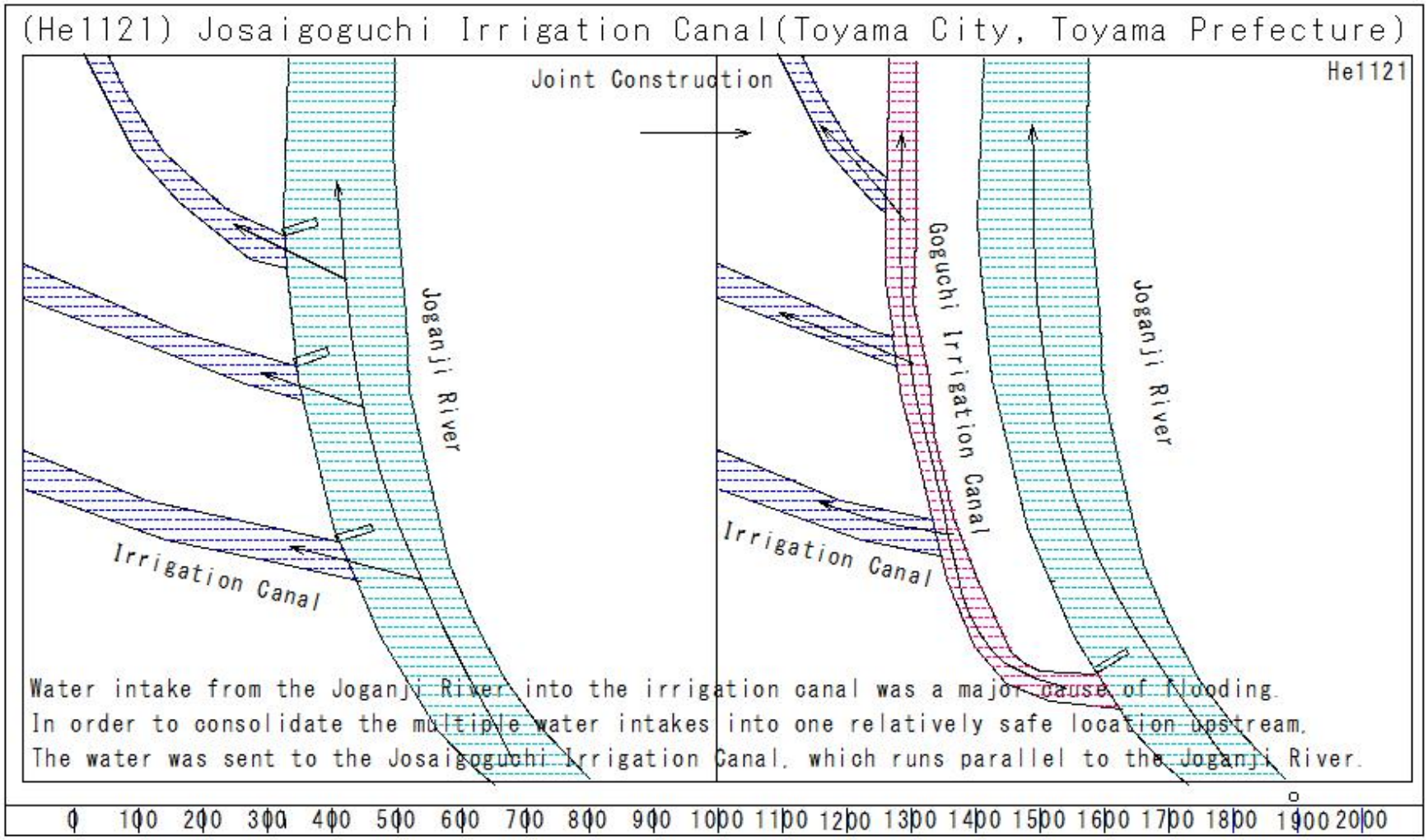
(He1119) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



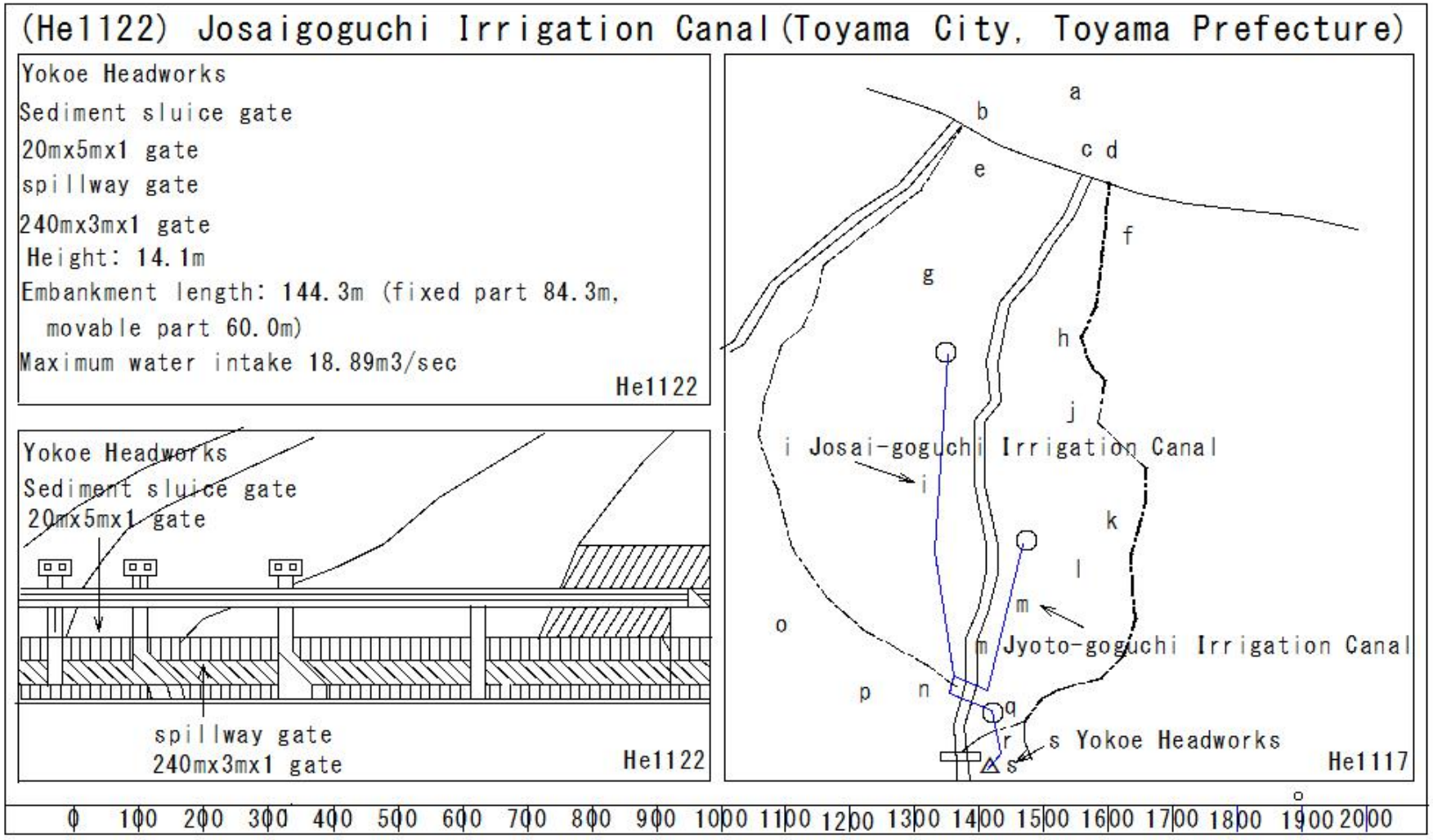
(He1120) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



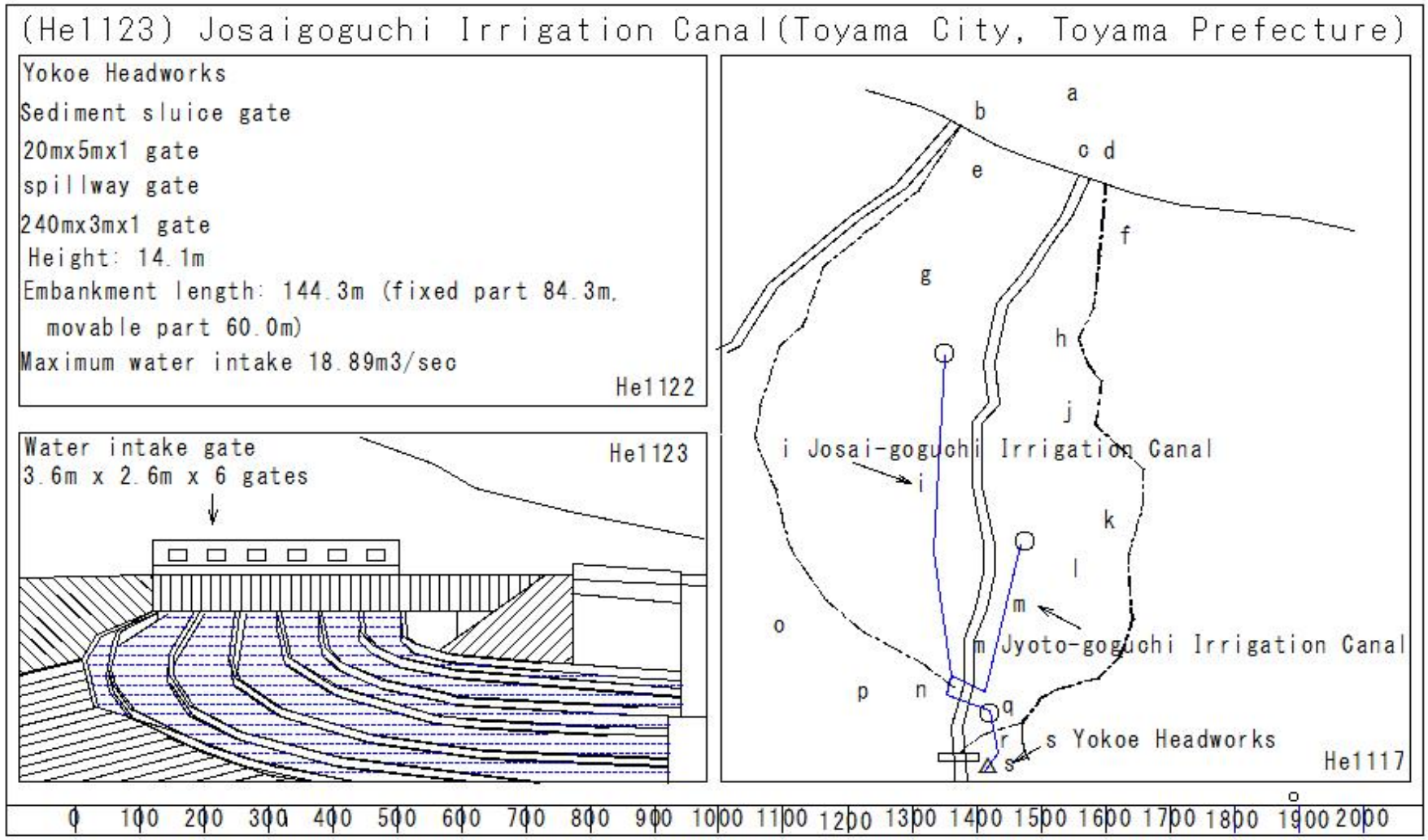
(He1121) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



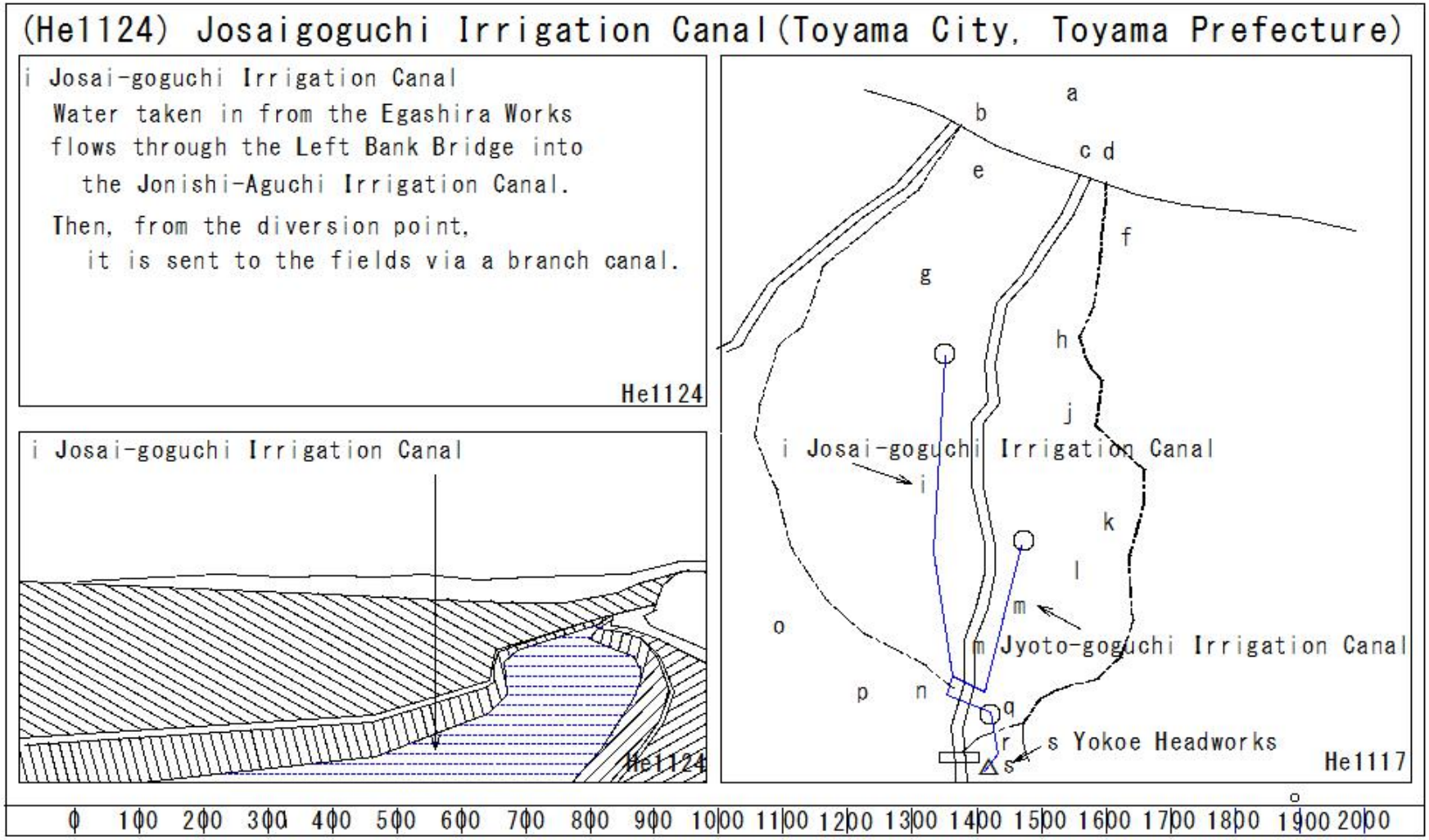
(He1122) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



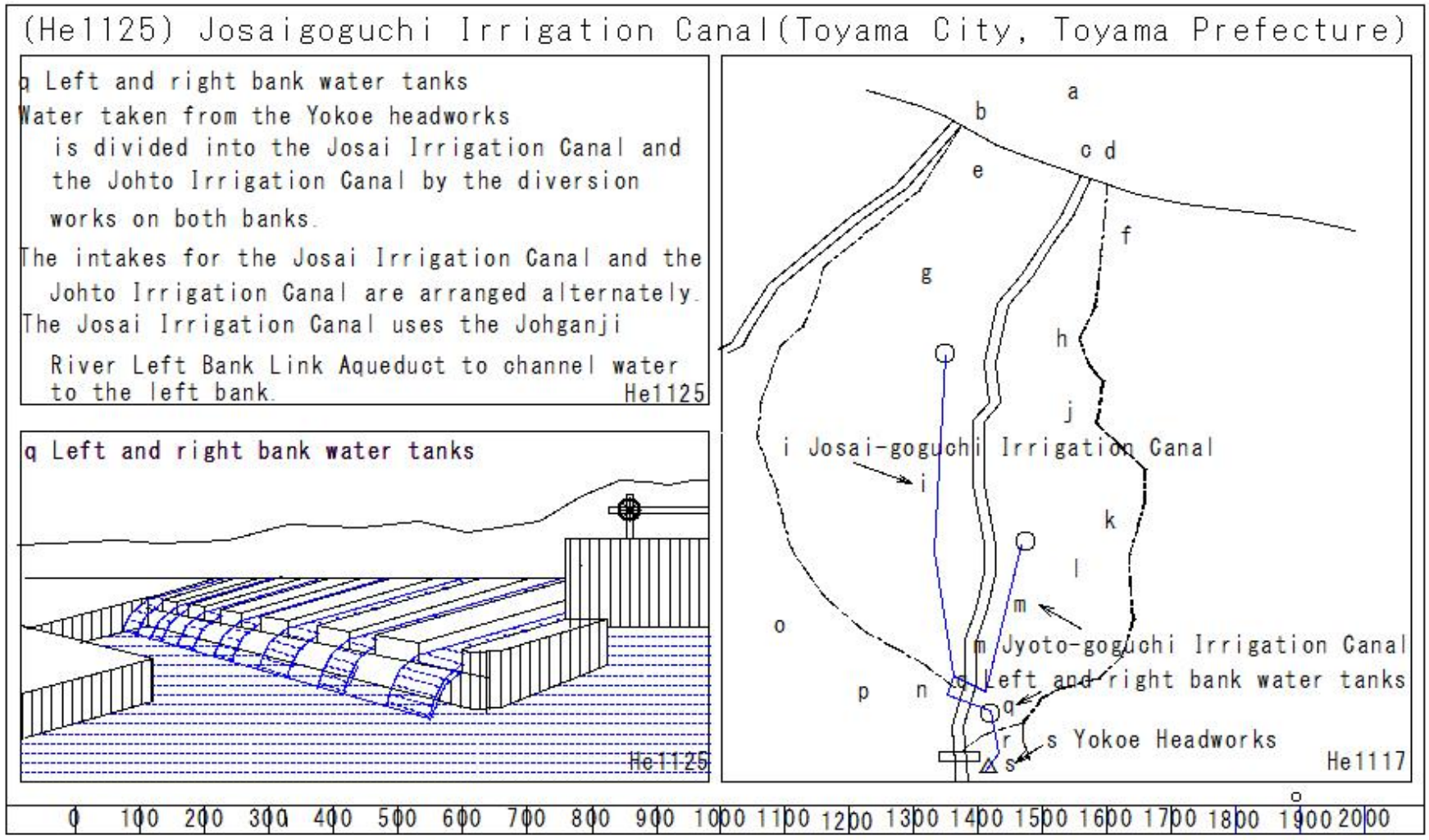
(He1123) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



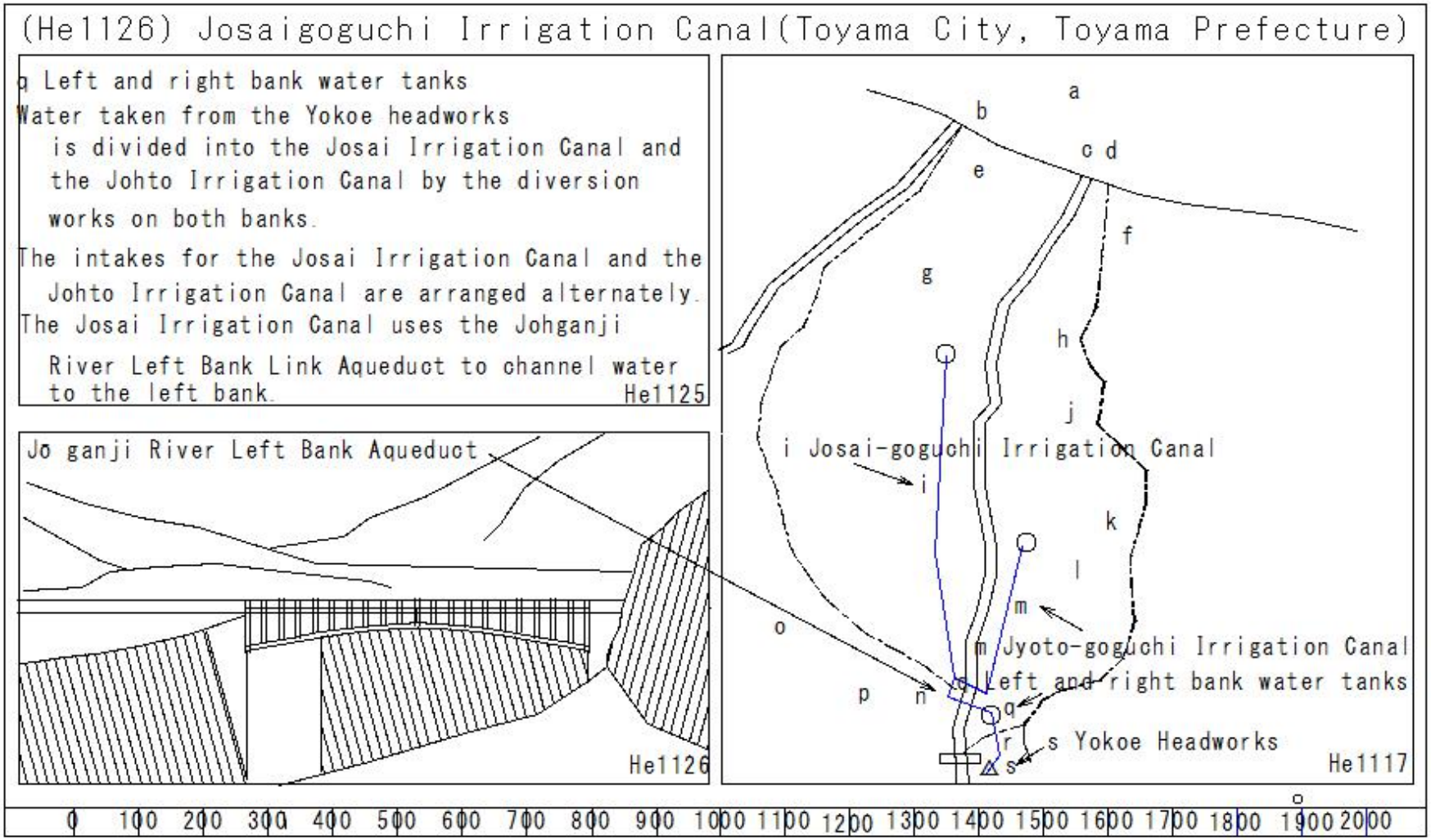
(He1124) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



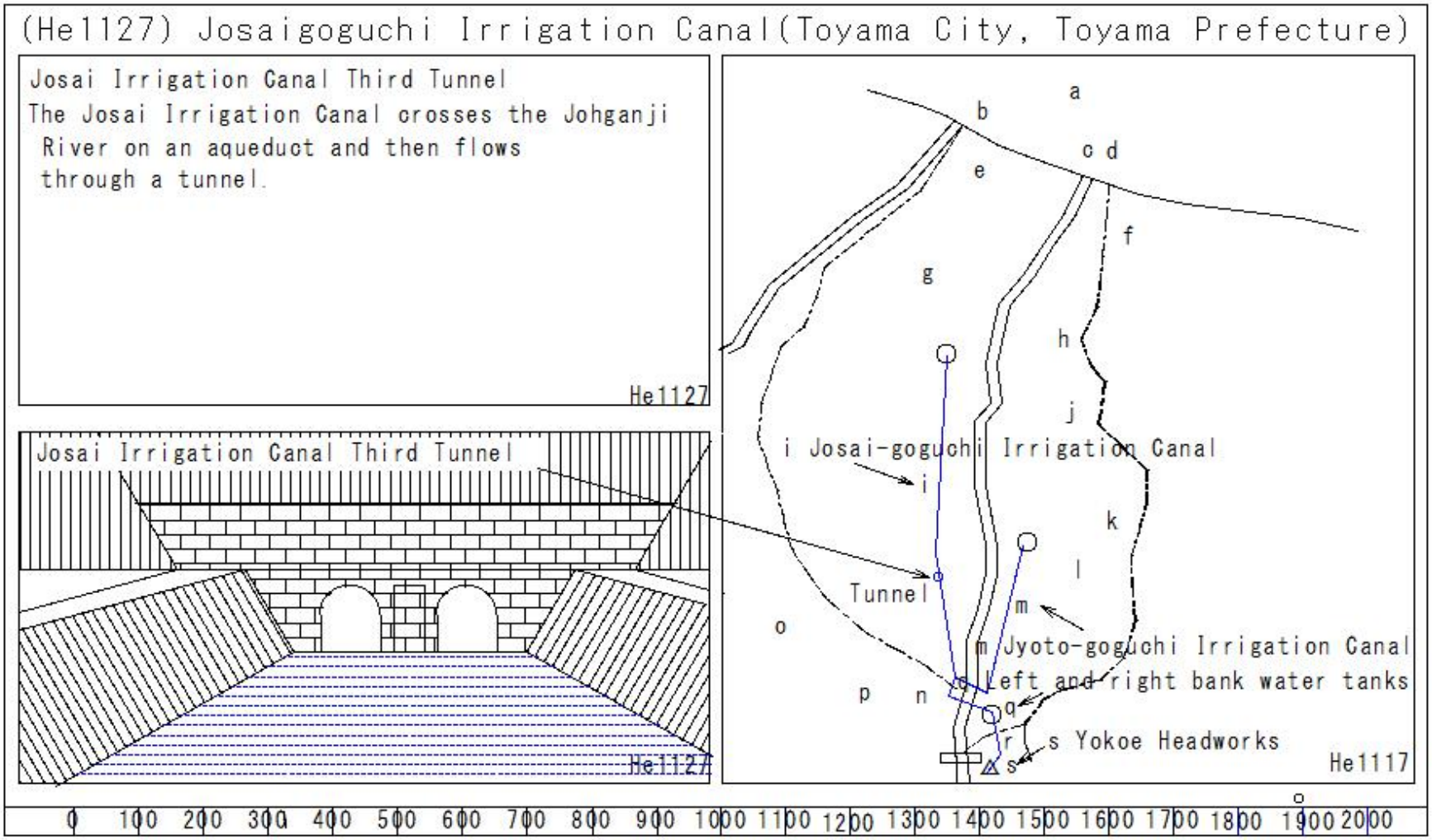
(He1125) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



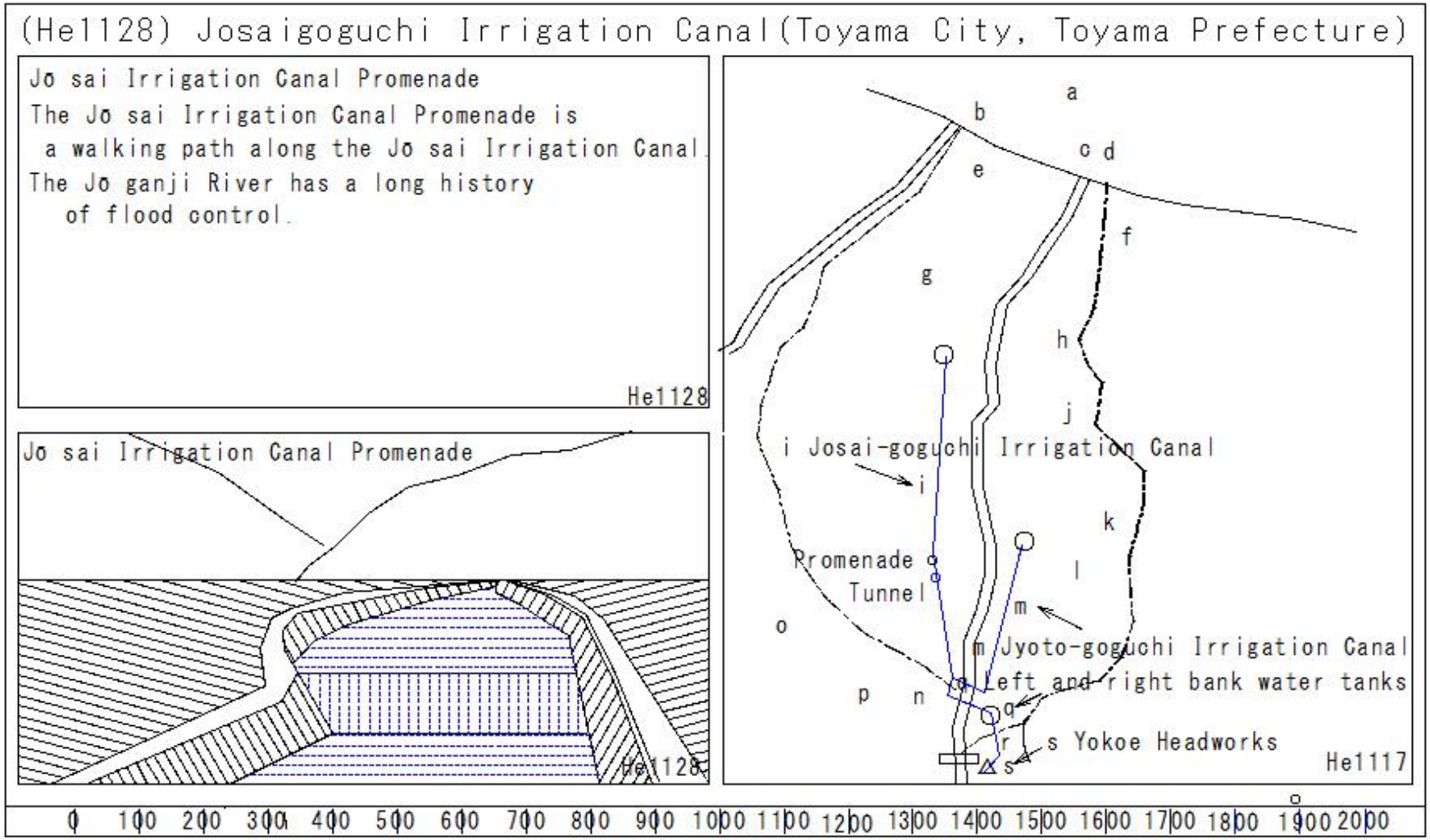
(He1126) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



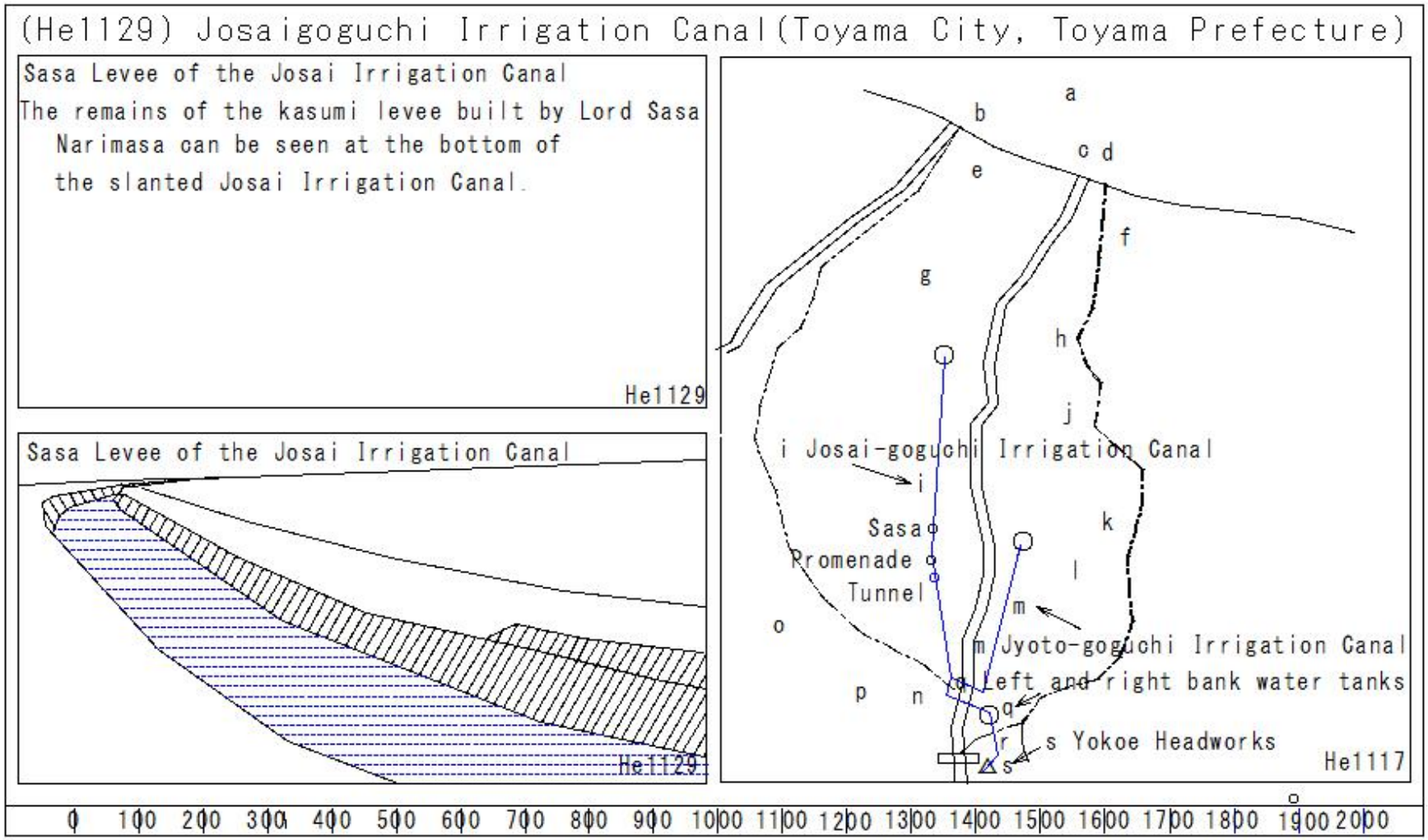
(He1127) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



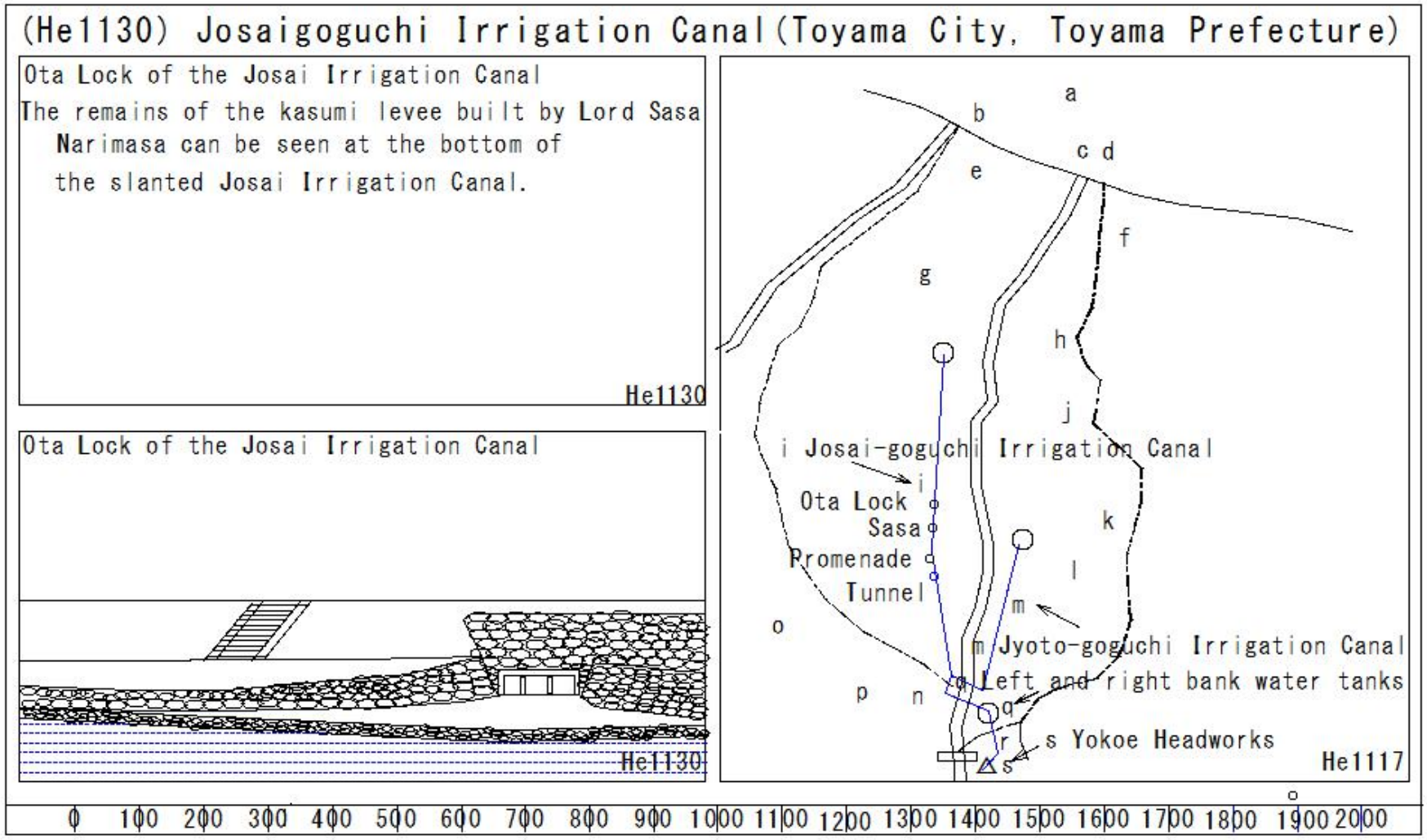
(He1128) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



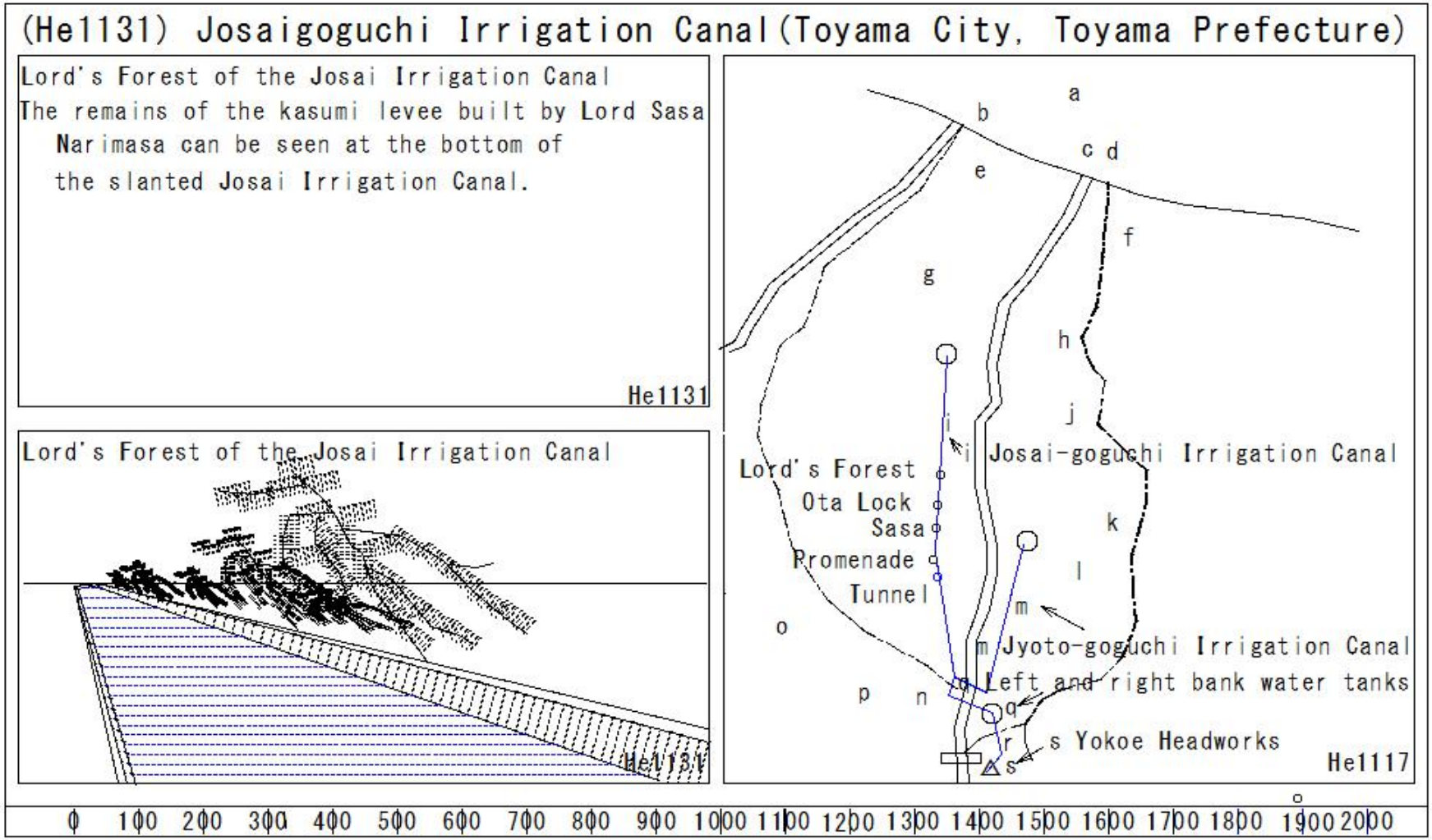
(He1129) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



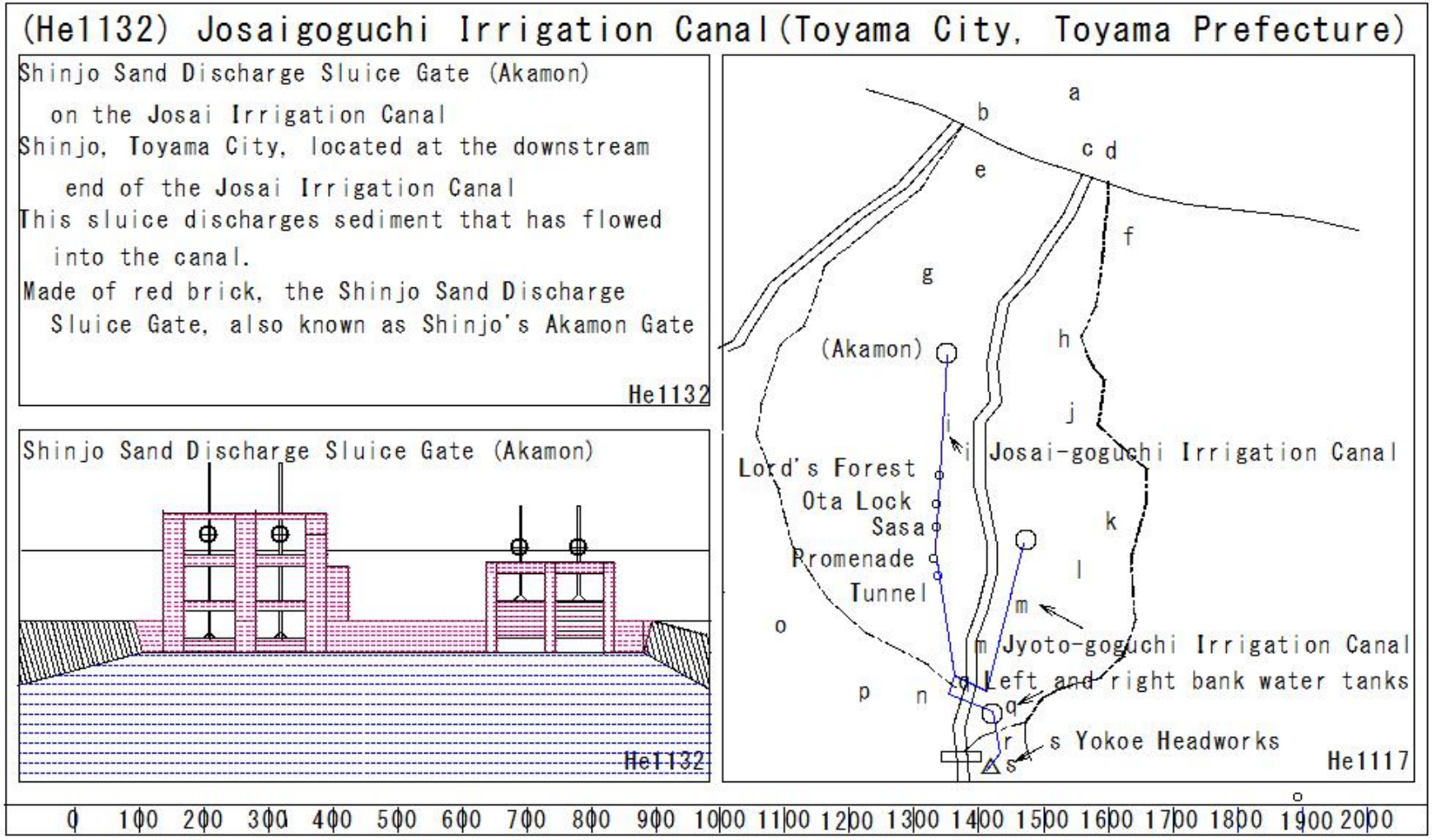
(He1130) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



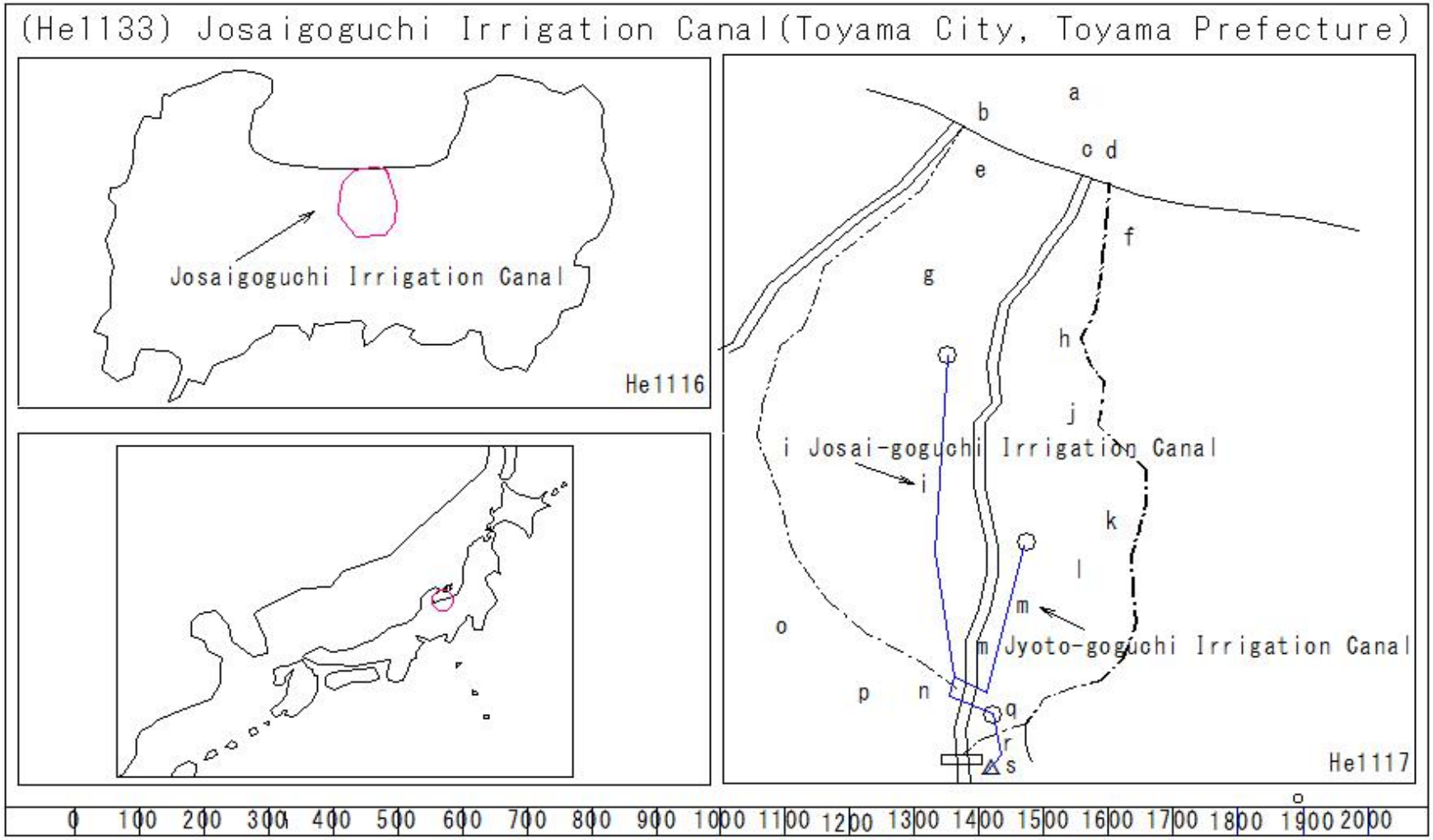
(He1131) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



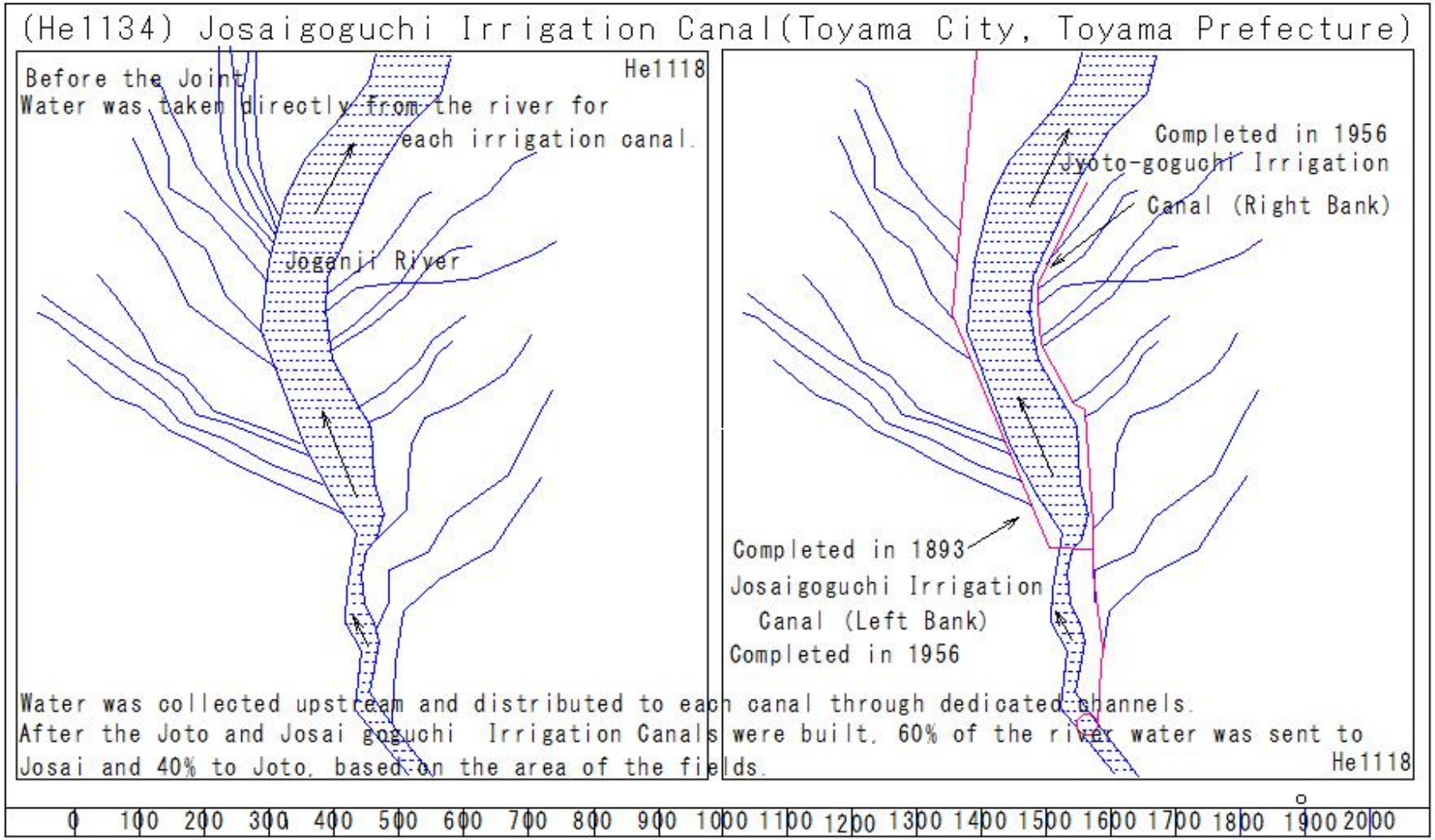
(He1132) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



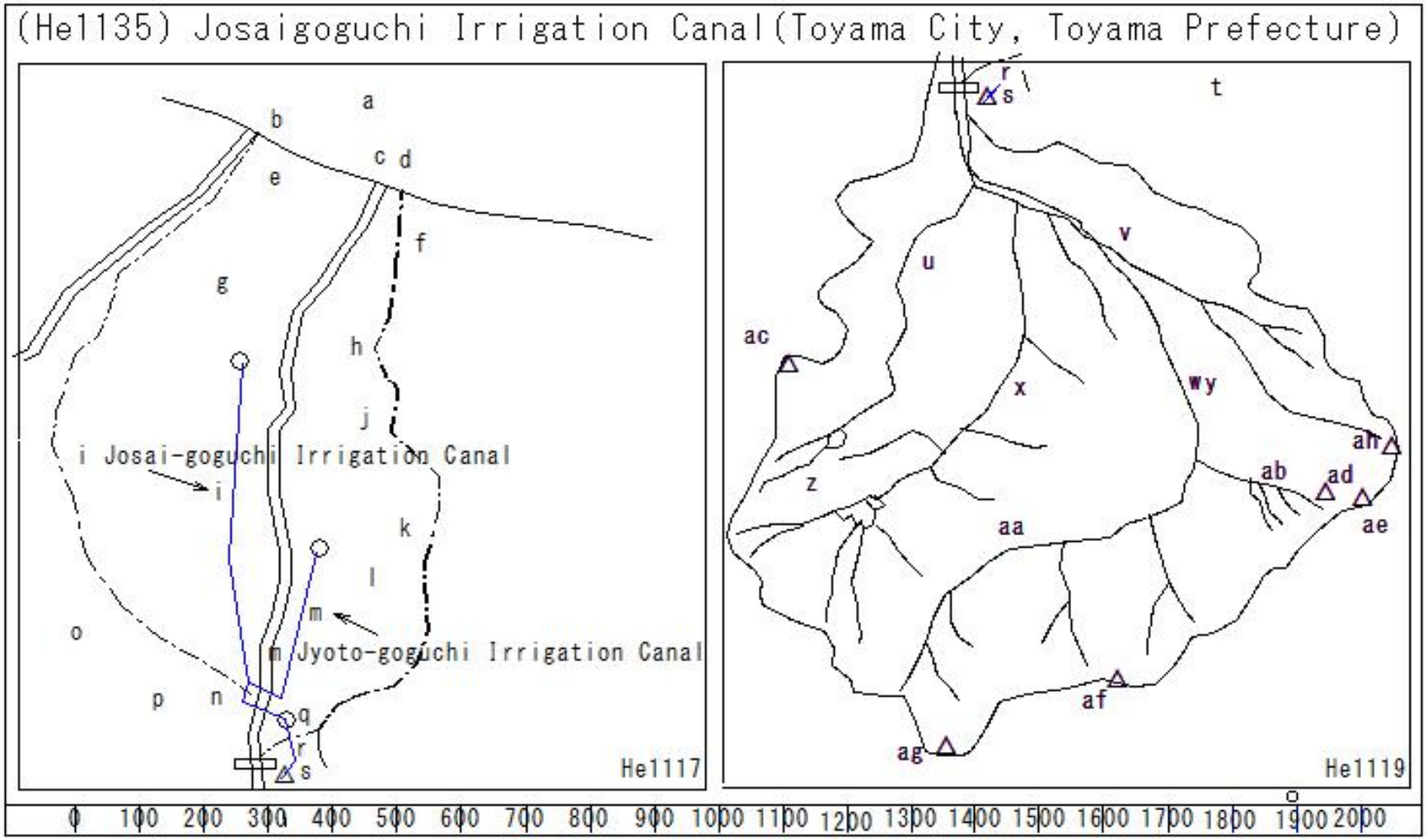
(He1133) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



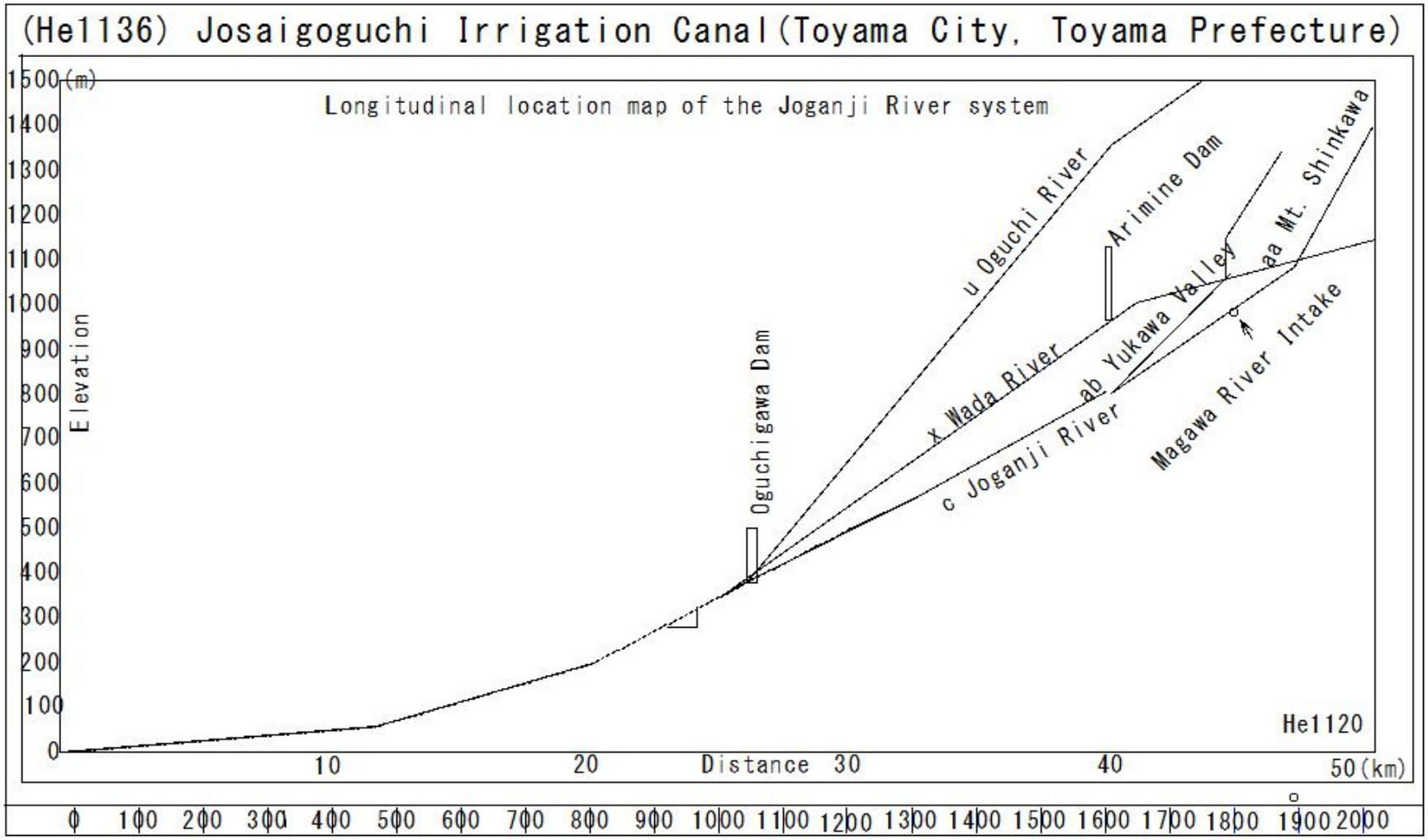
(He1134) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



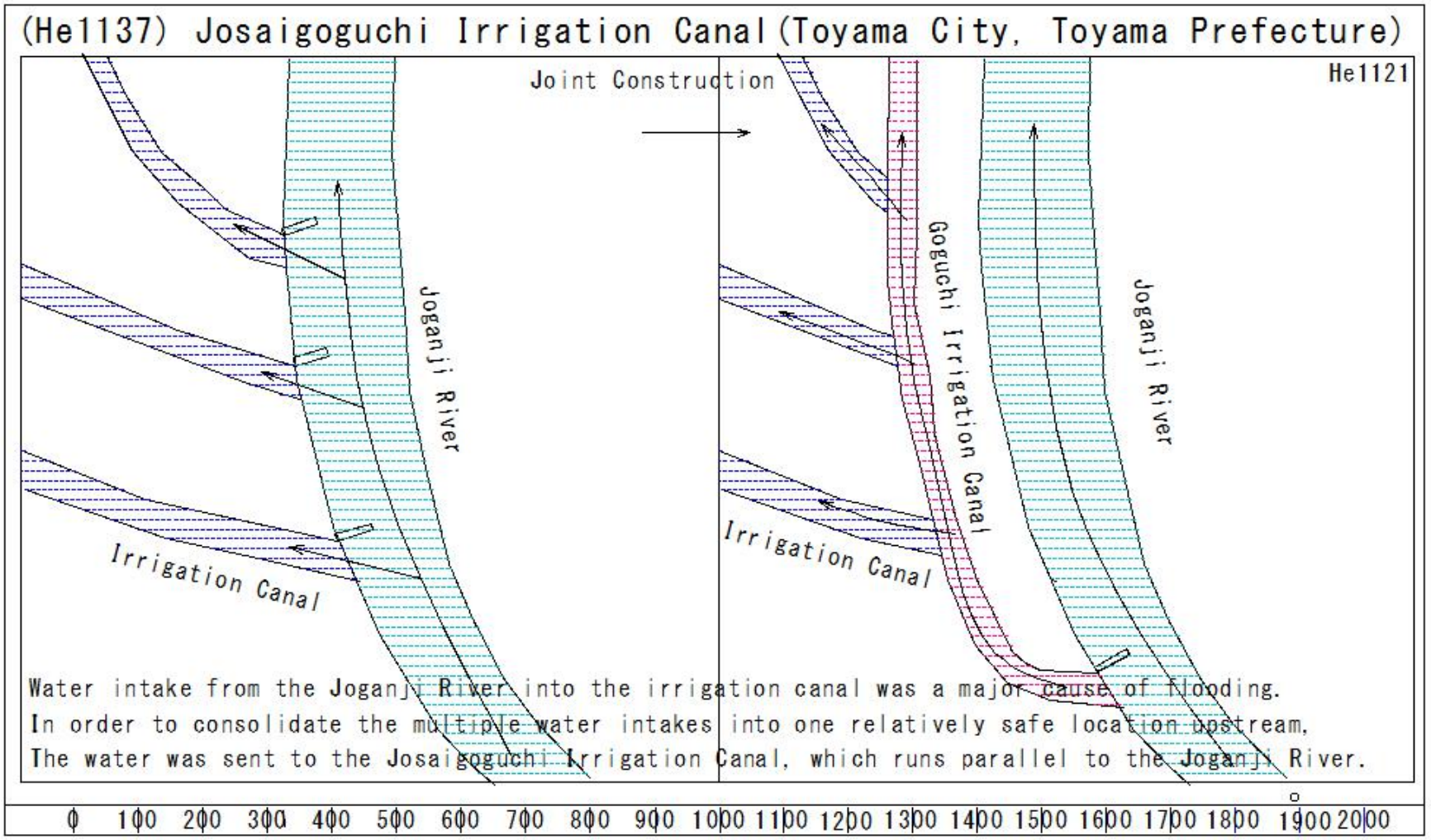
(He1135) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



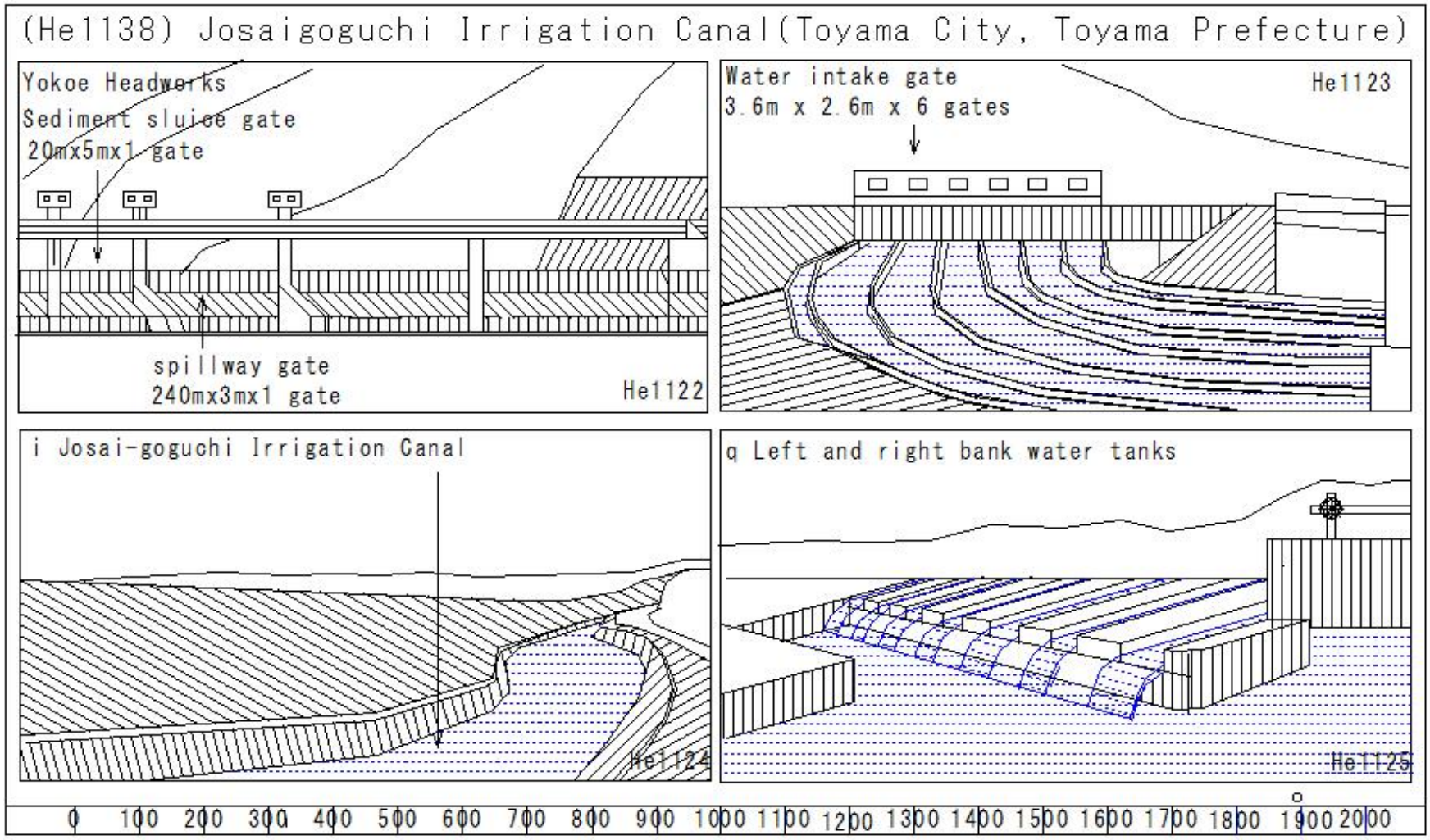
(He1136) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



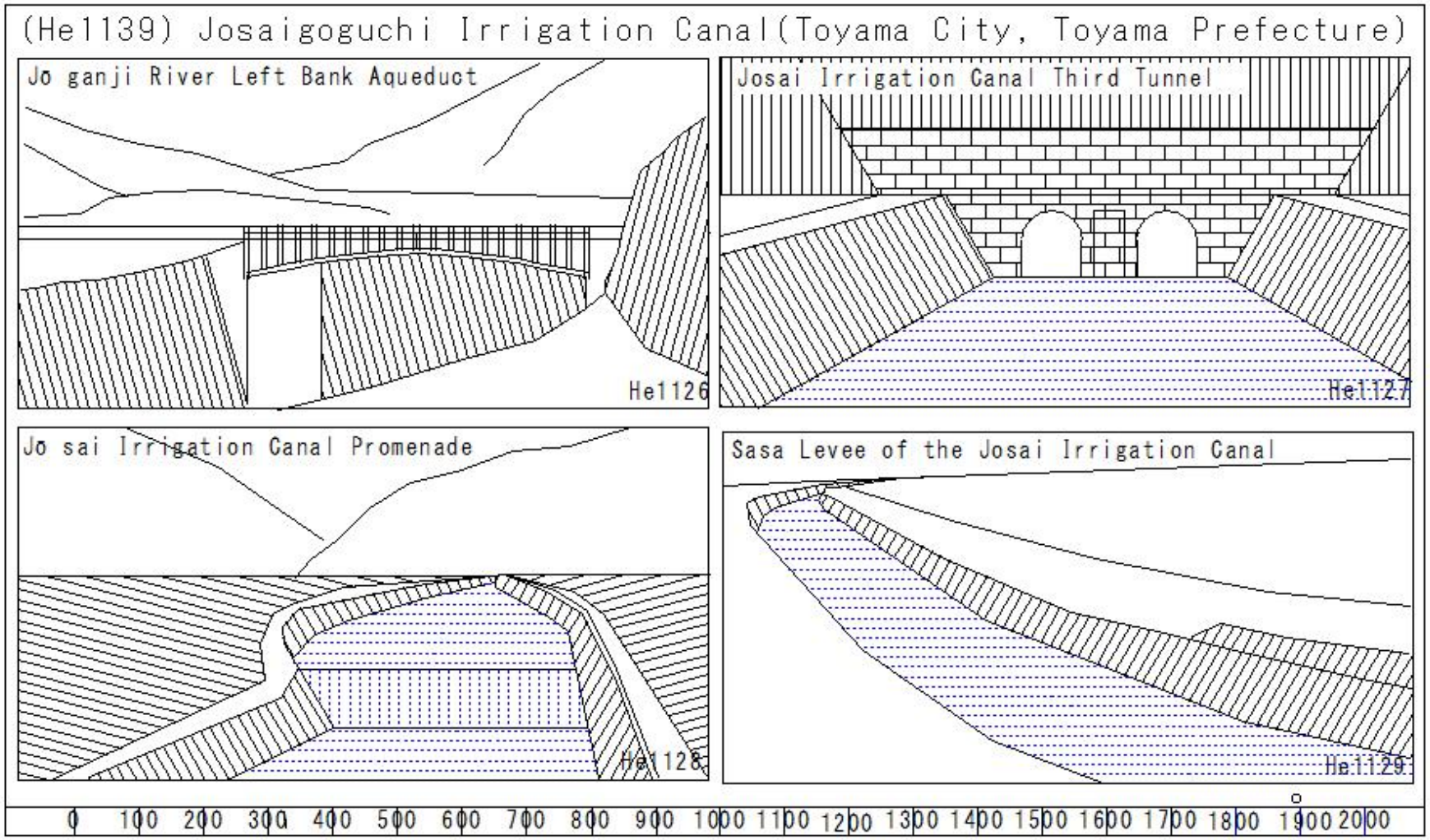
(He1137) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



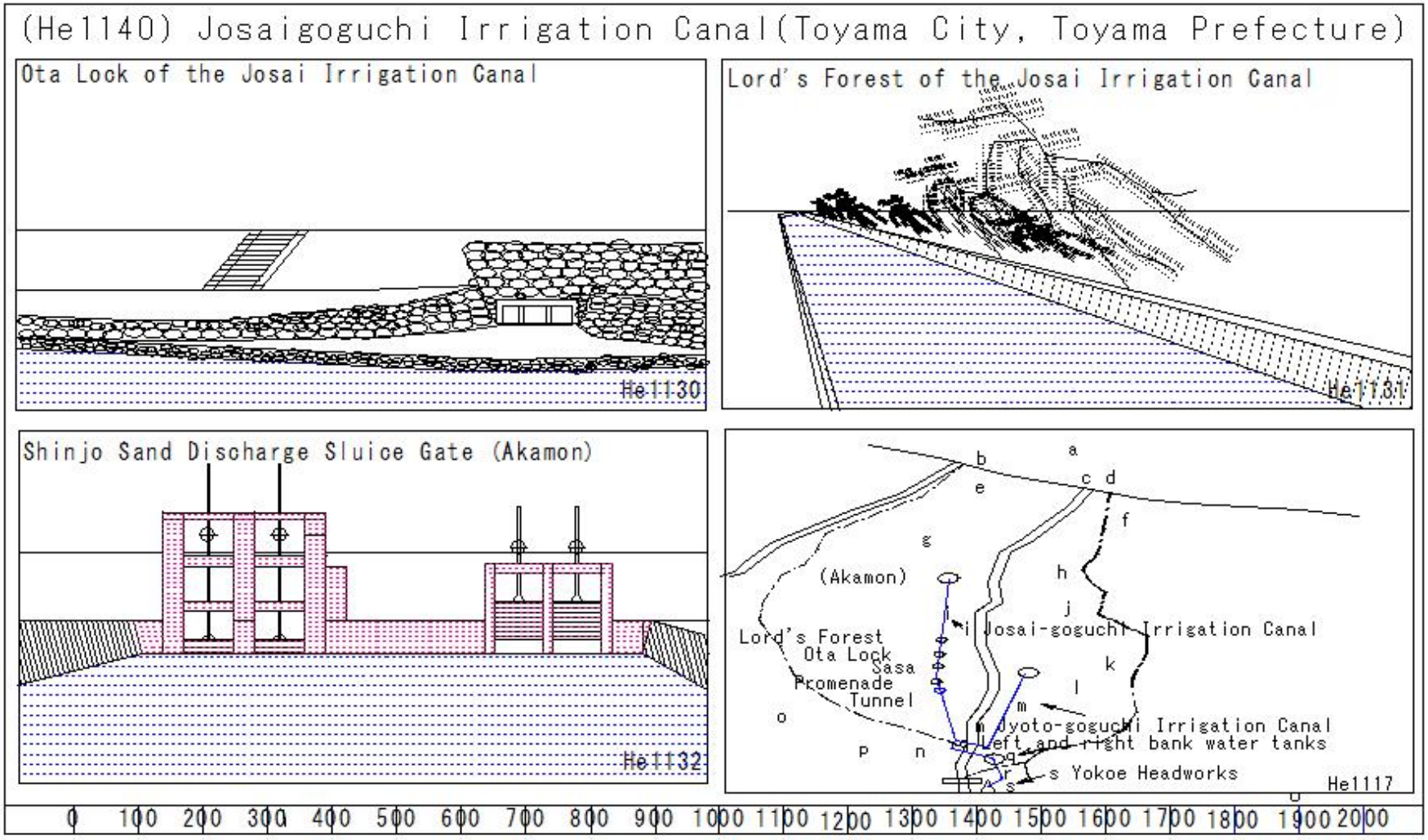
(He1138) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



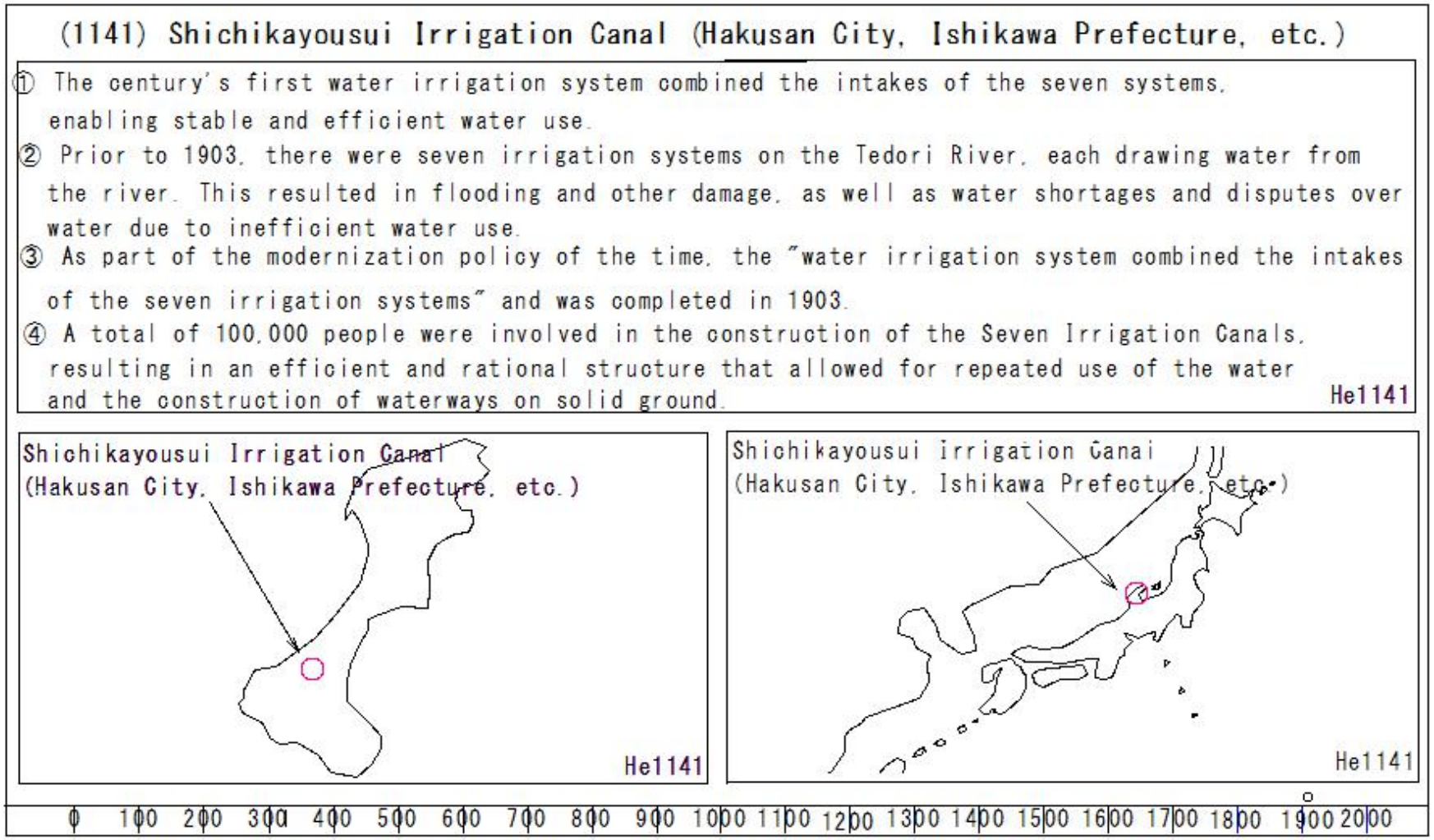
(He1139) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



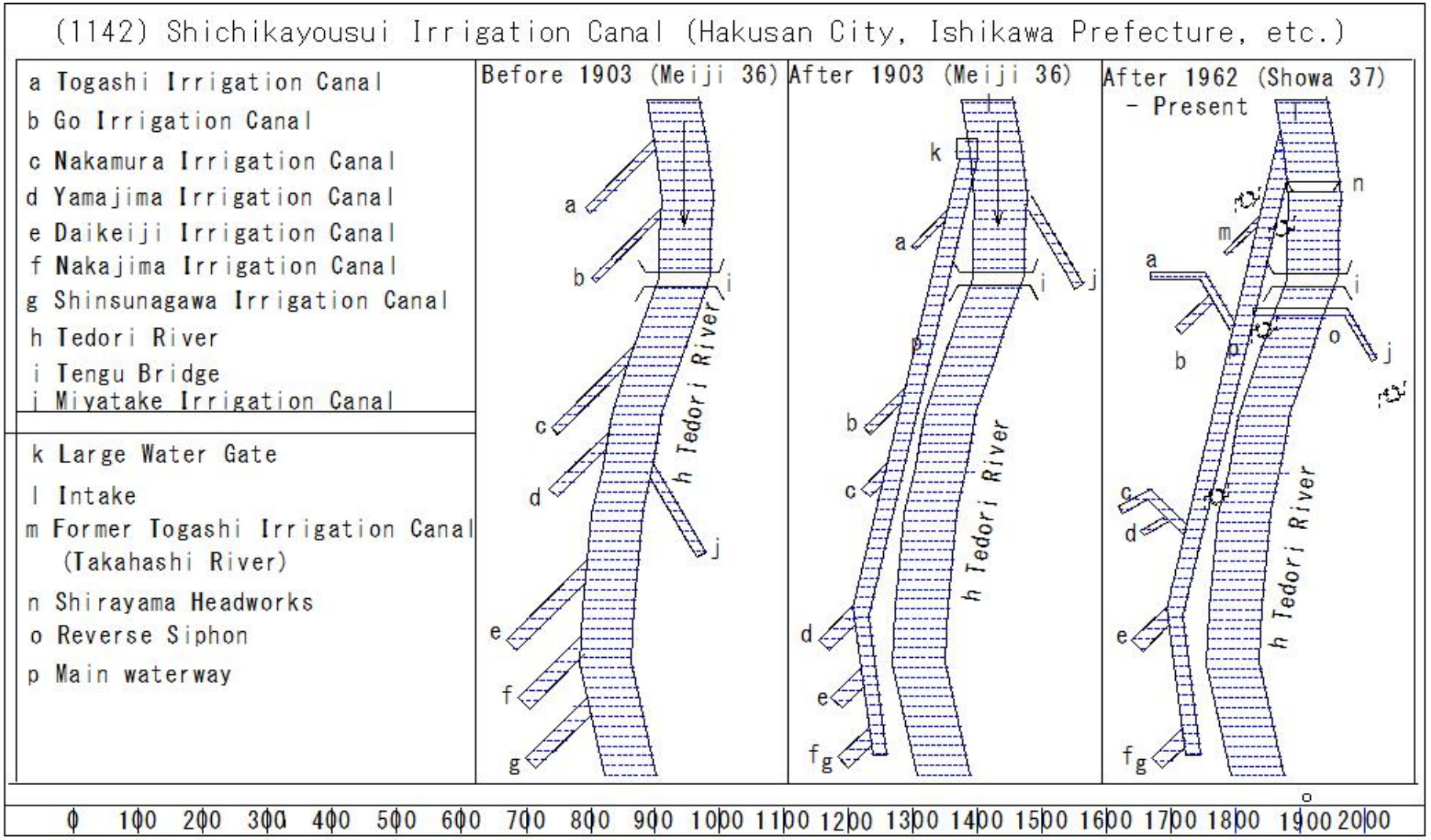
(He1140) Josaigoguchi Irrigation Canal(Toyama City, Toyama Prefecture)



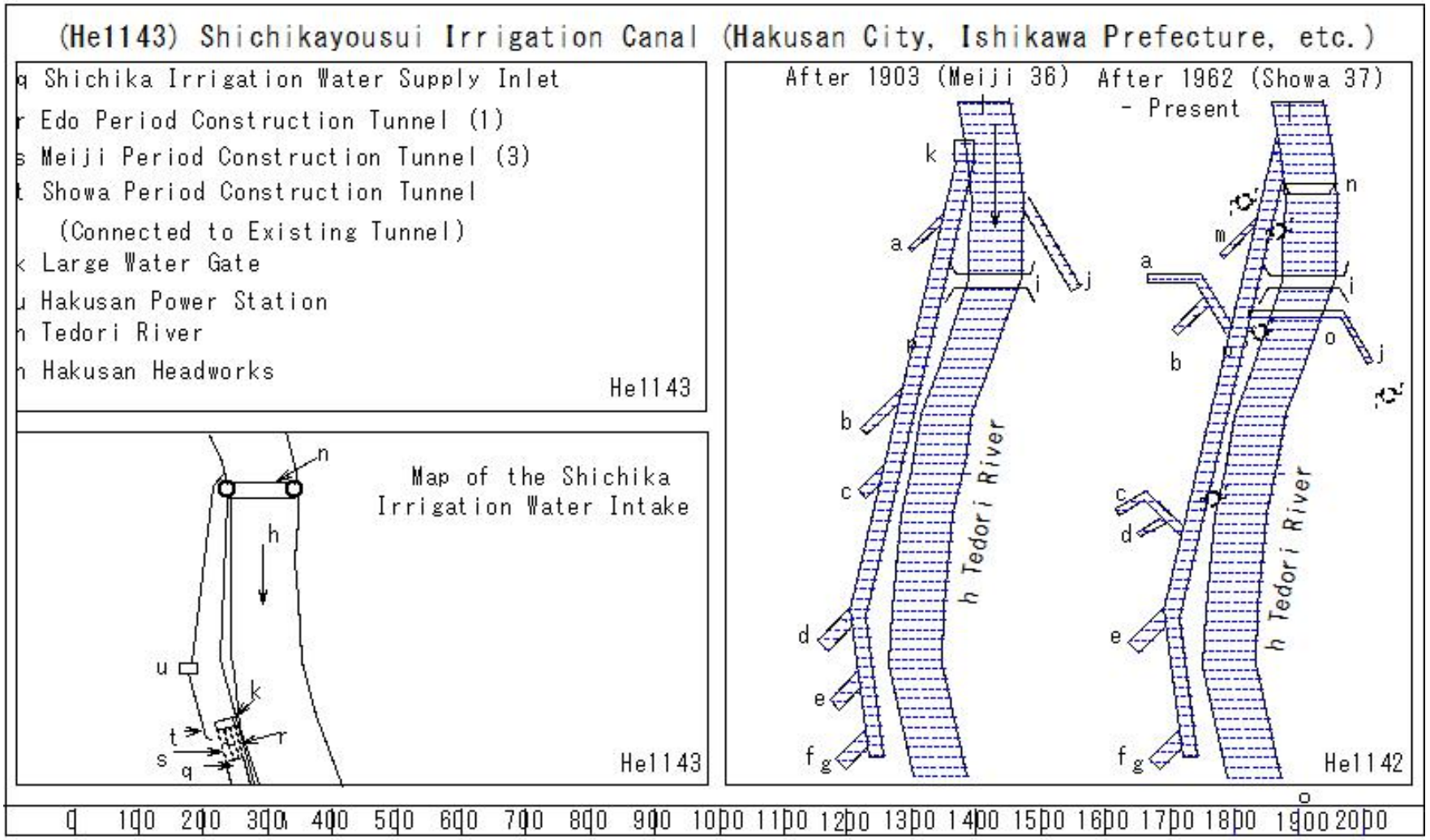
(1141) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



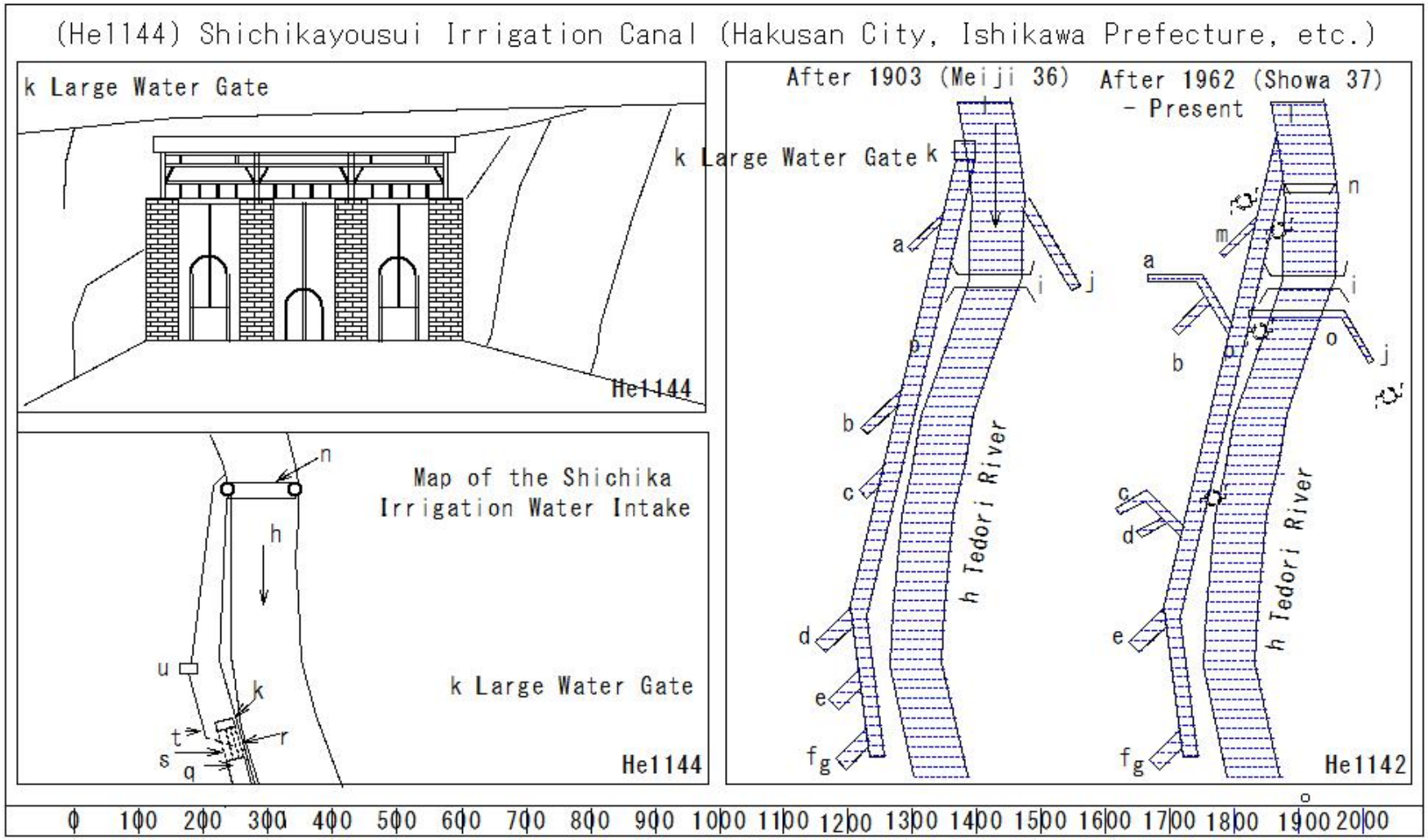
(1142) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



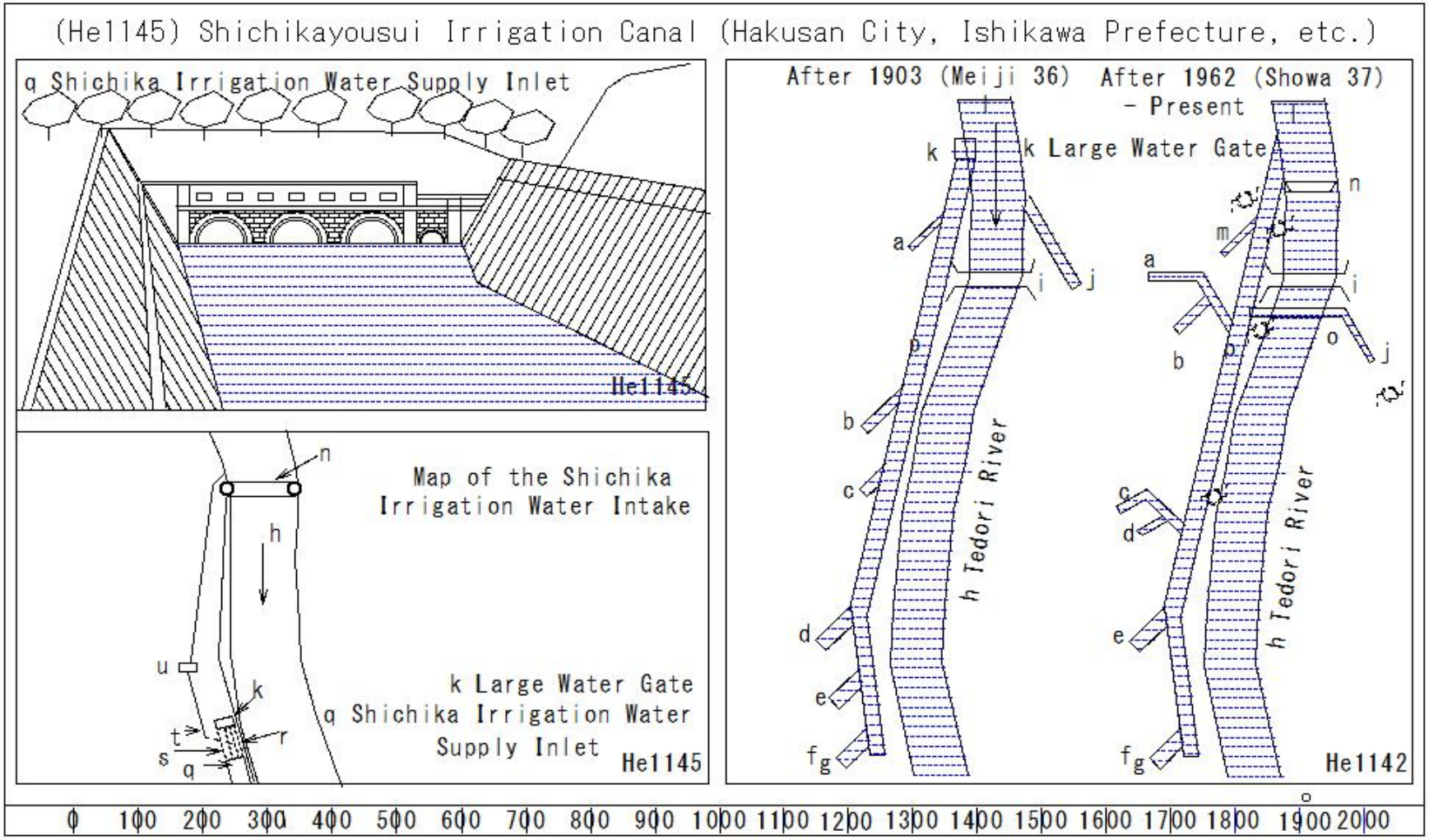
(1143) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



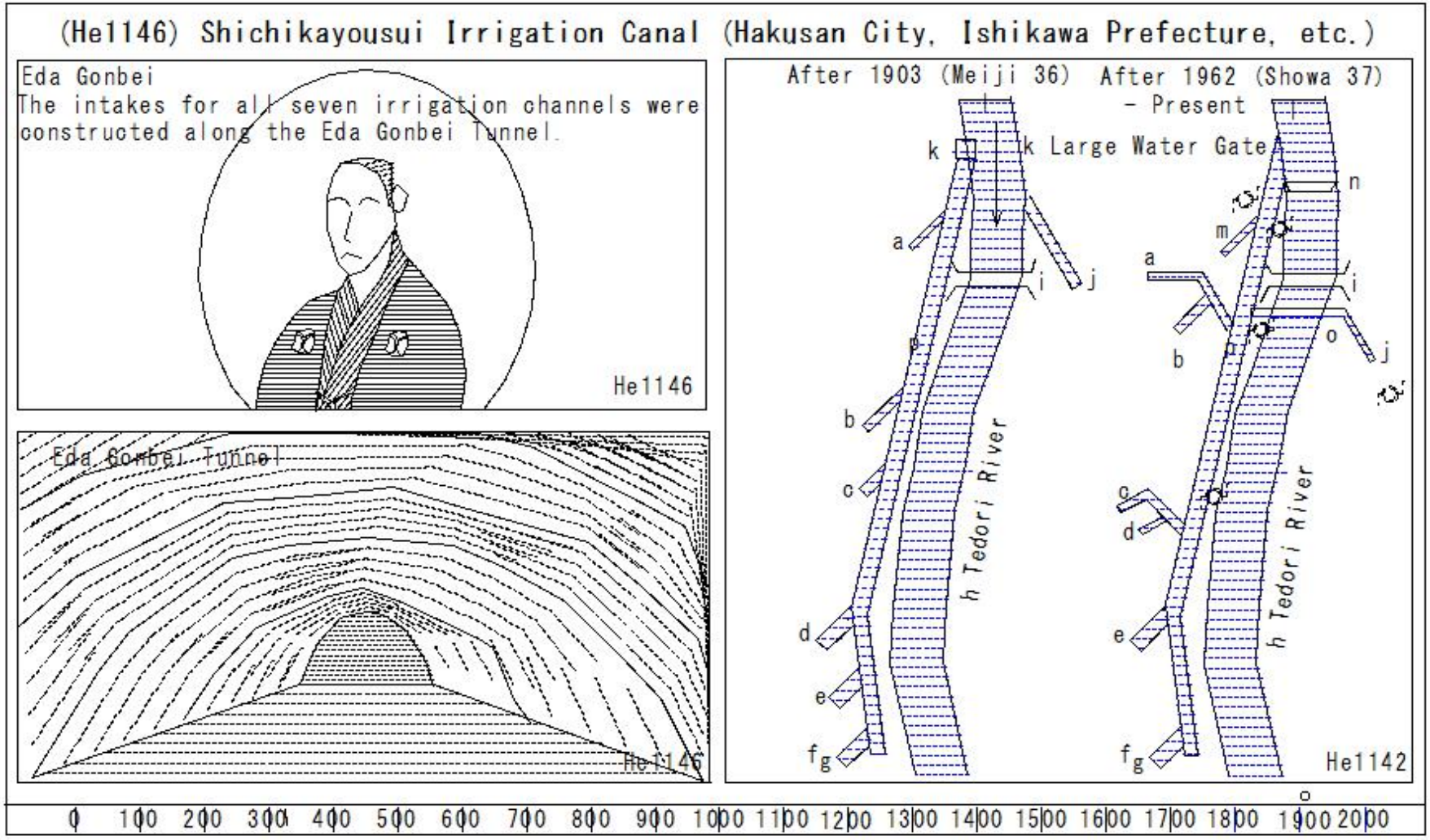
(1144) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



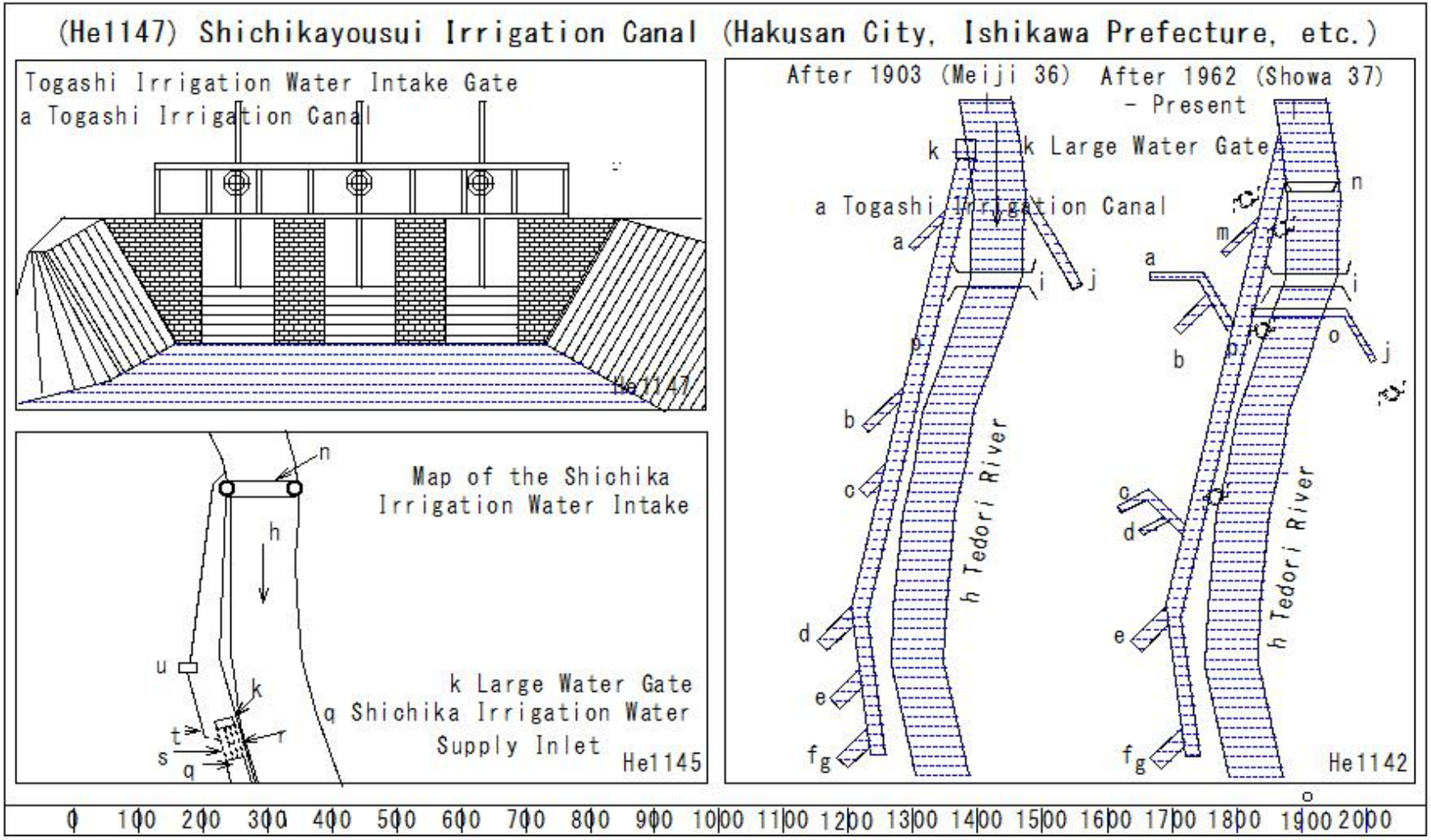
(1145) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



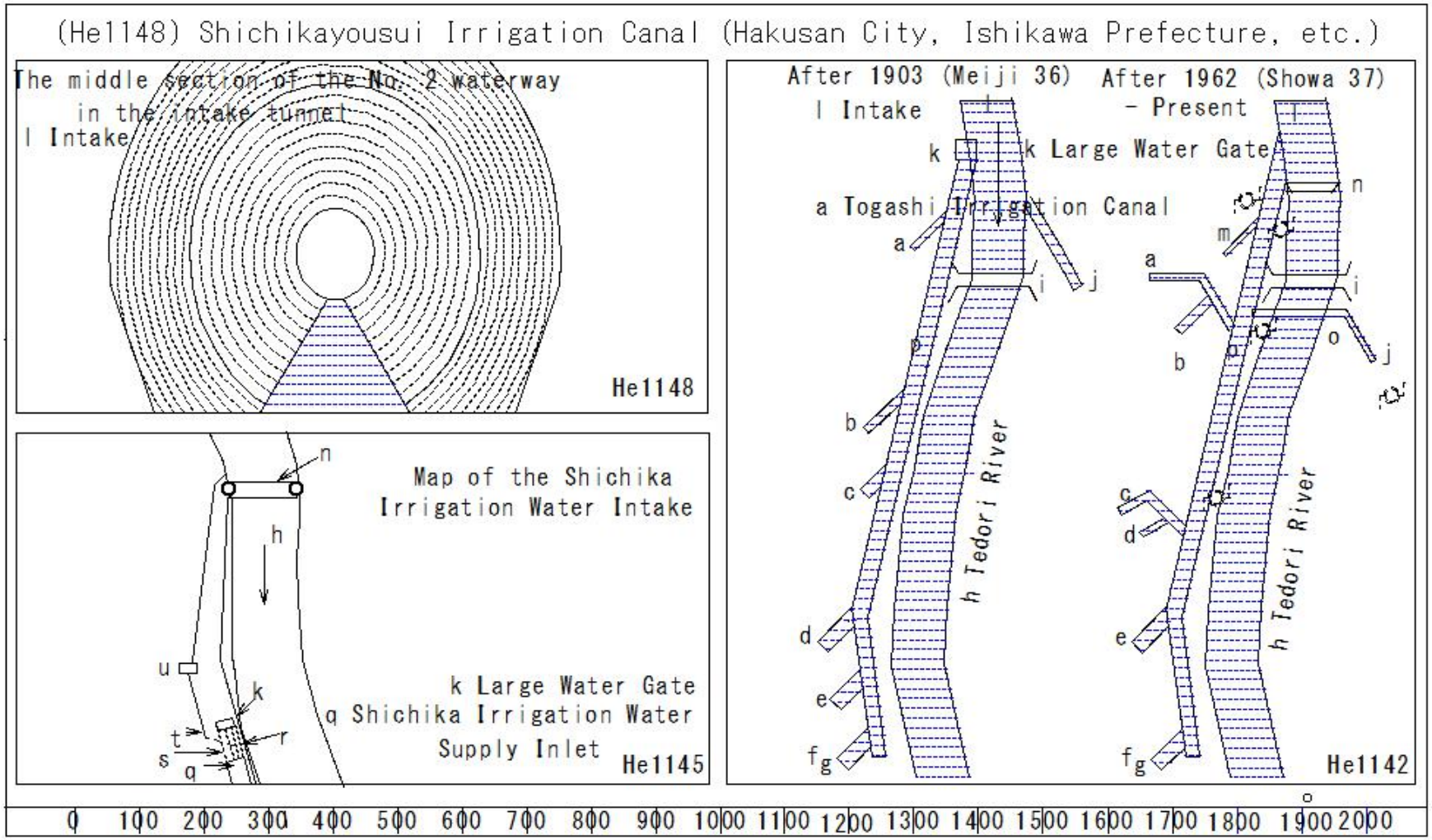
(1146) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



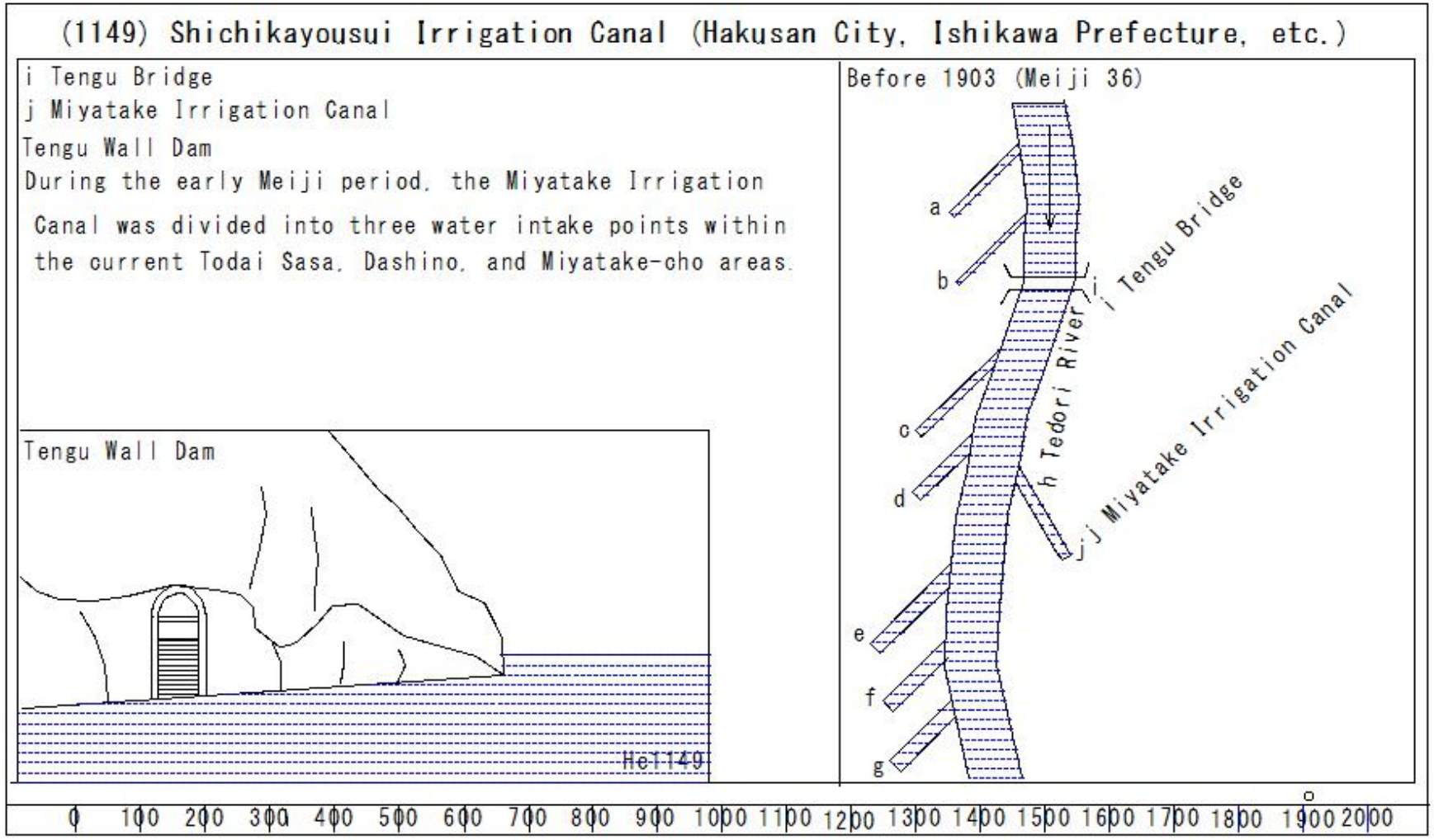
(1147) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



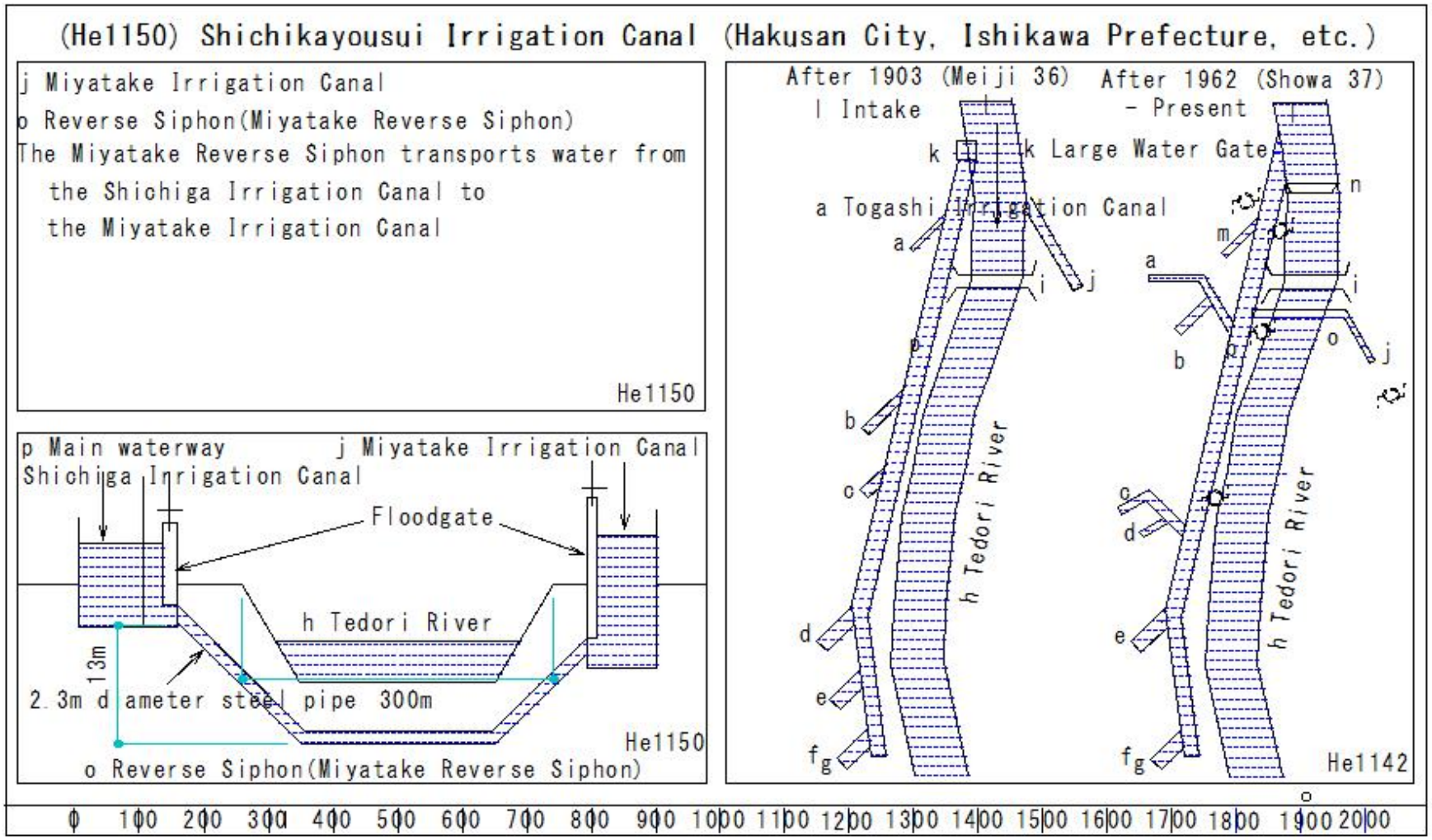
(1148) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



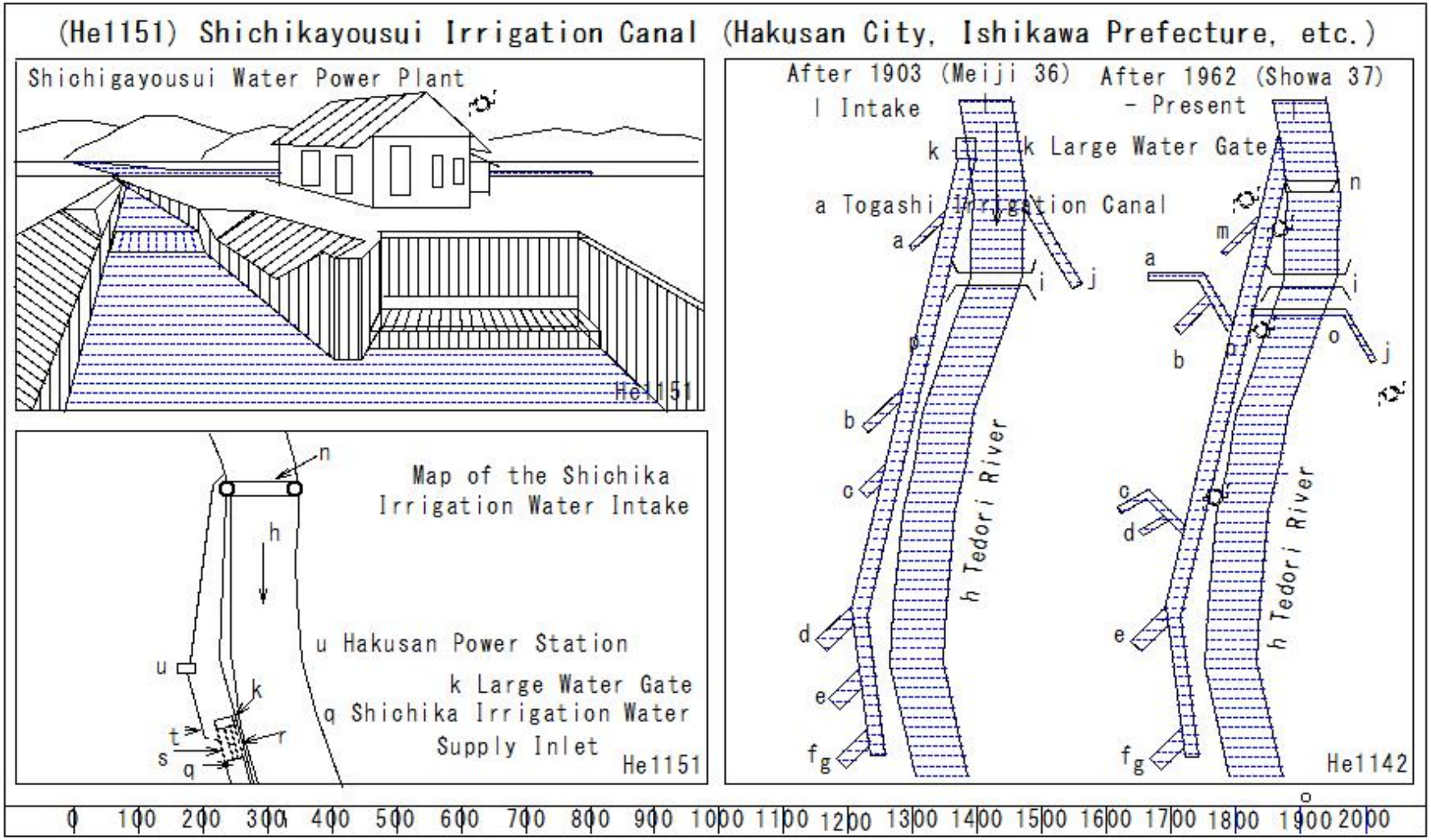
(1149) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



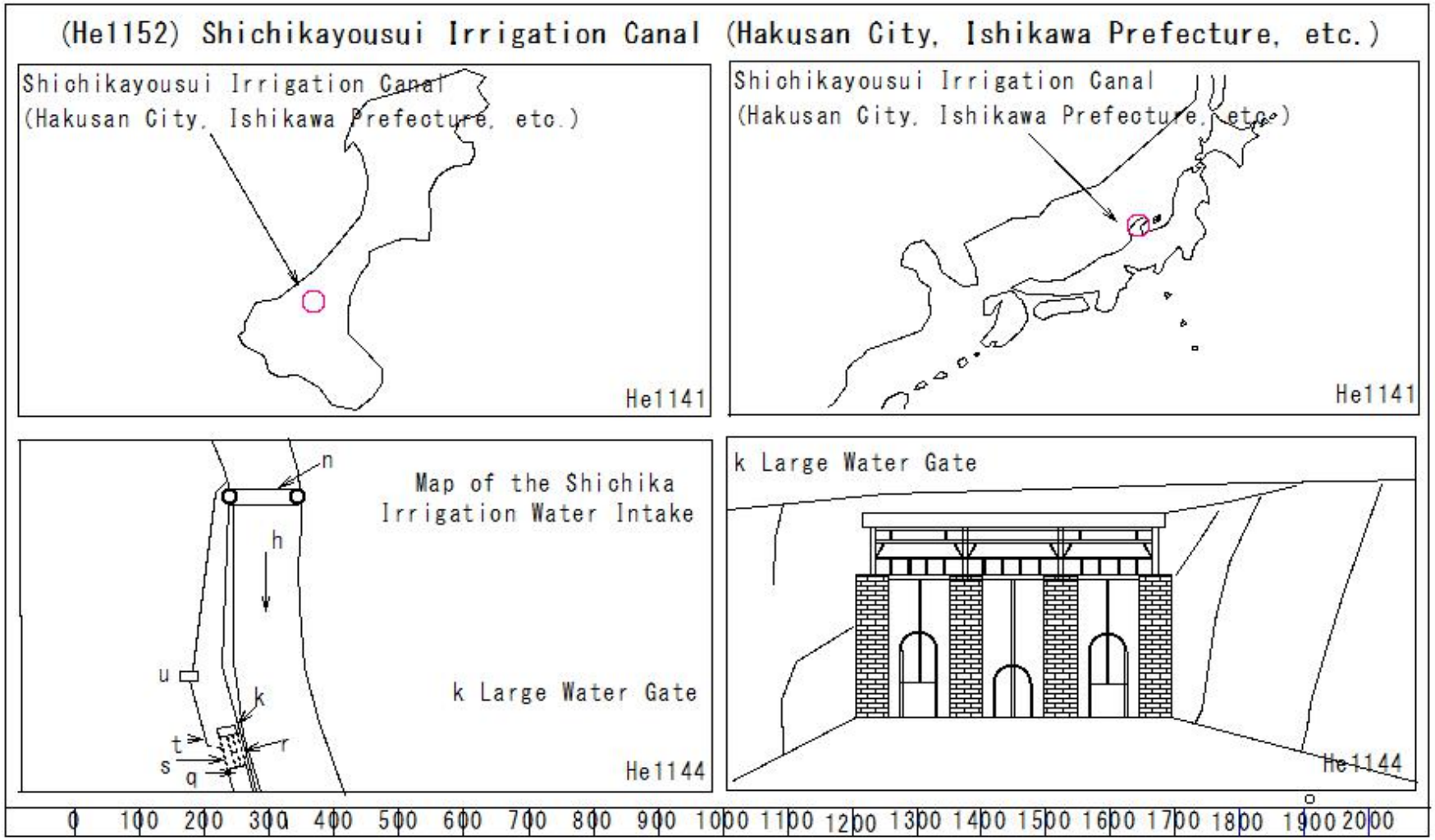
(1150) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



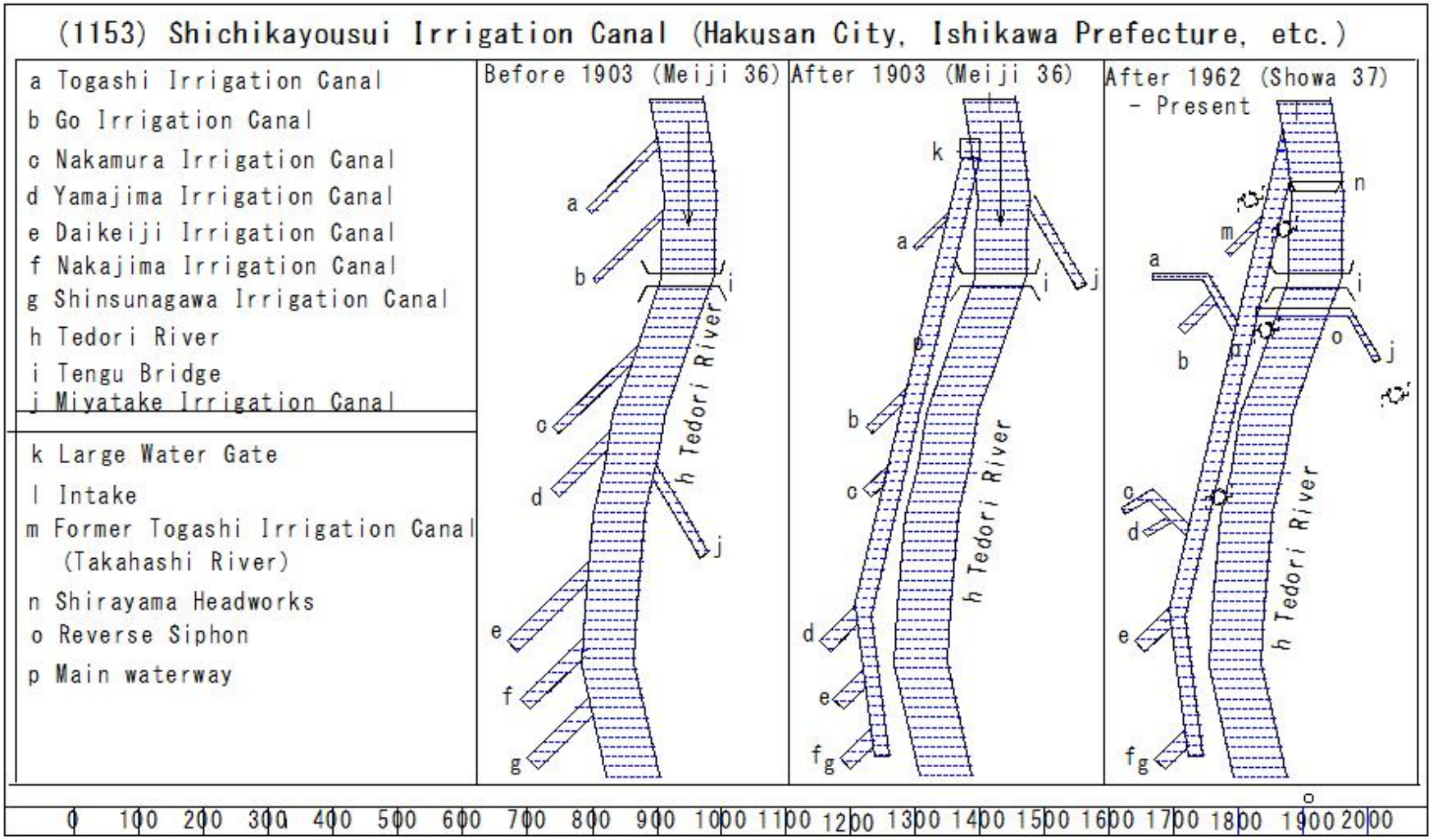
(1151) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



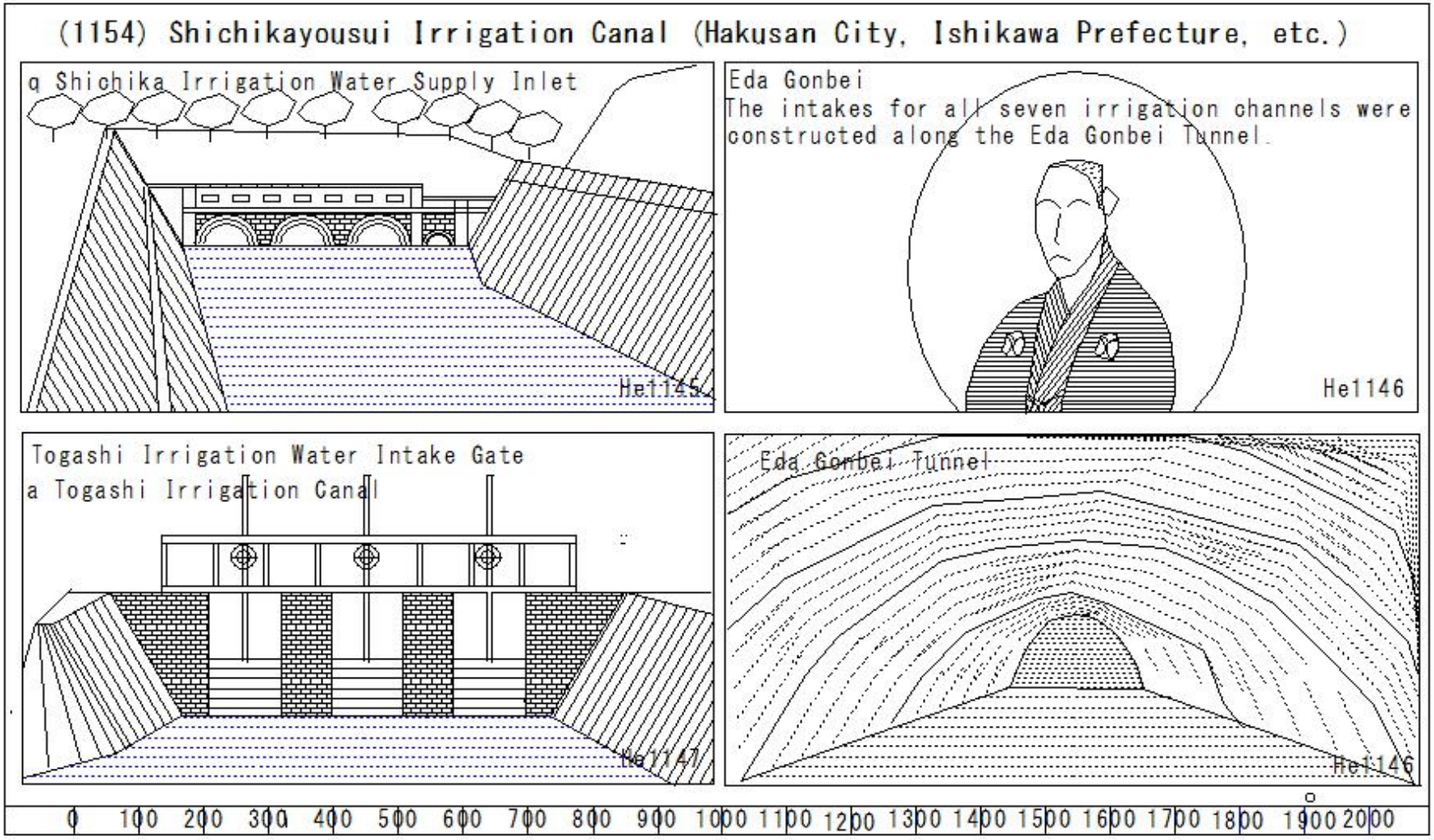
(1152) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



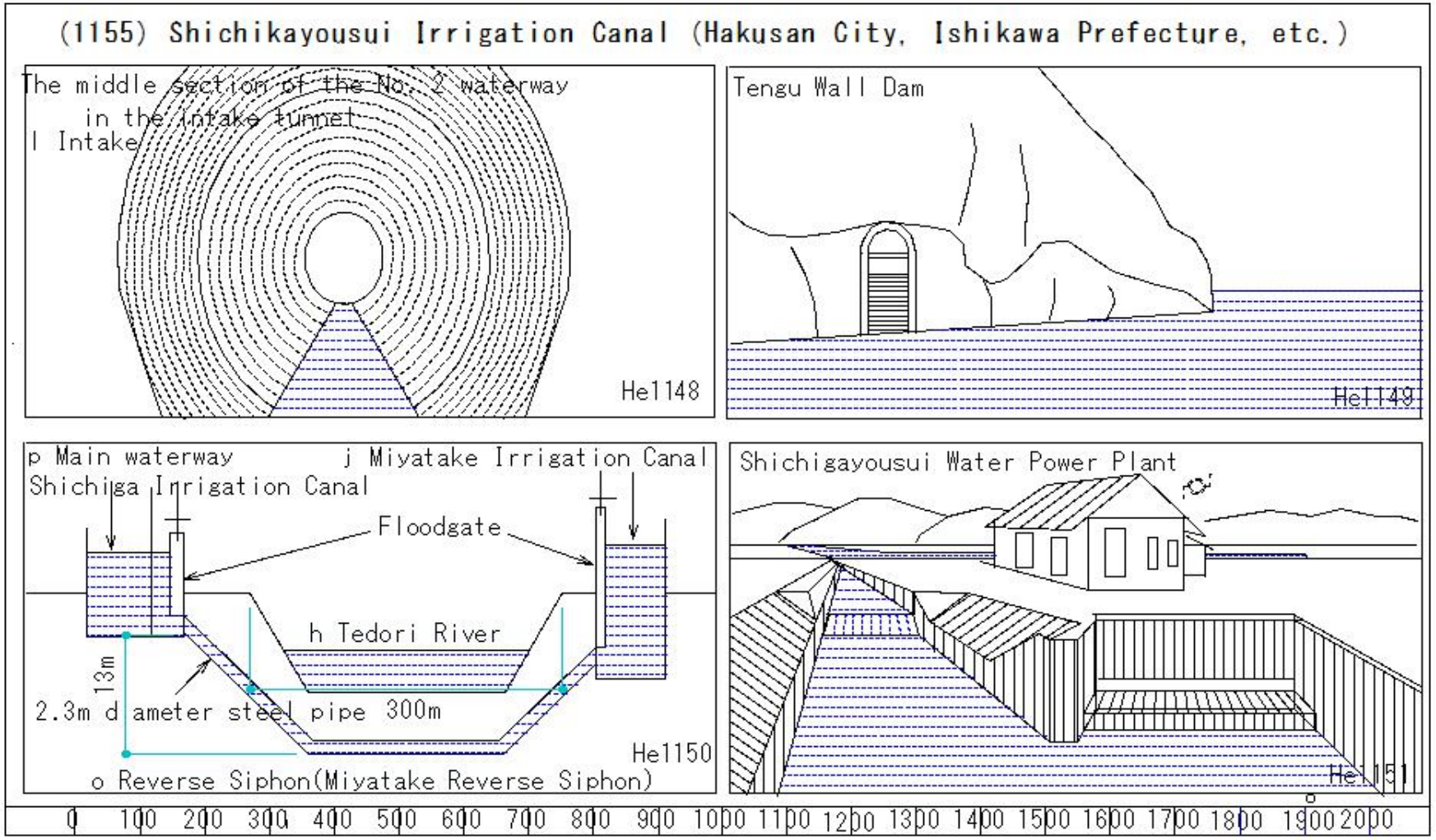
(1153) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



(1154) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



(1155) Shichikayousui Irrigation Canal (Hakusan City, Ishikawa Prefecture, etc.)



(He1156)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

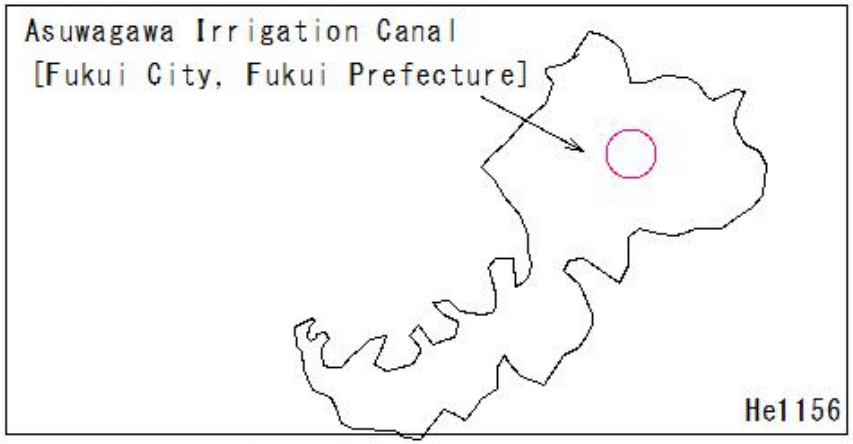
(He1156)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

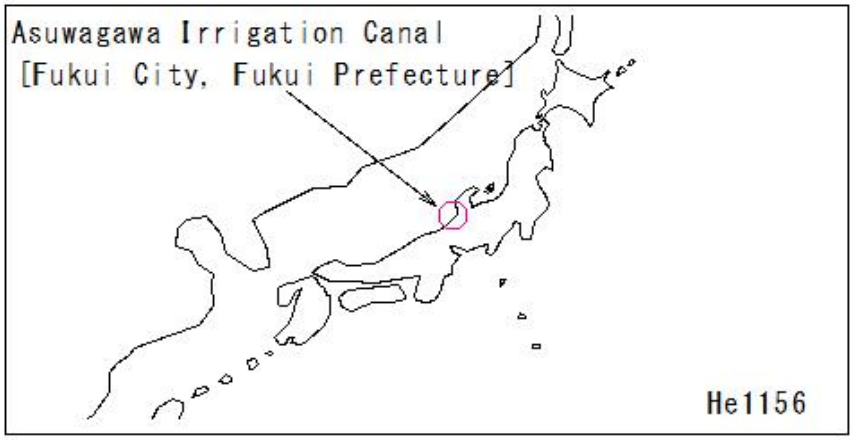
Advanced Edo-period technology continues to enrich vast farmland and the lives of local residents today.

■ The Asuwa River Irrigation Canal is the collective name for the main canals (seven routes, totaling 22 km) that irrigate a vast 1,997 hectares of farmland. It was developed into its current form during the Hoei era of the Edo period (around 1710).

■ Weirs were constructed at the watersheds, which were rare for the time, and fixed stones were laid at the waterway diversion points to alleviate water disputes. Existing documents from the Edo period reveal the high level of surveying technology and design at the time.

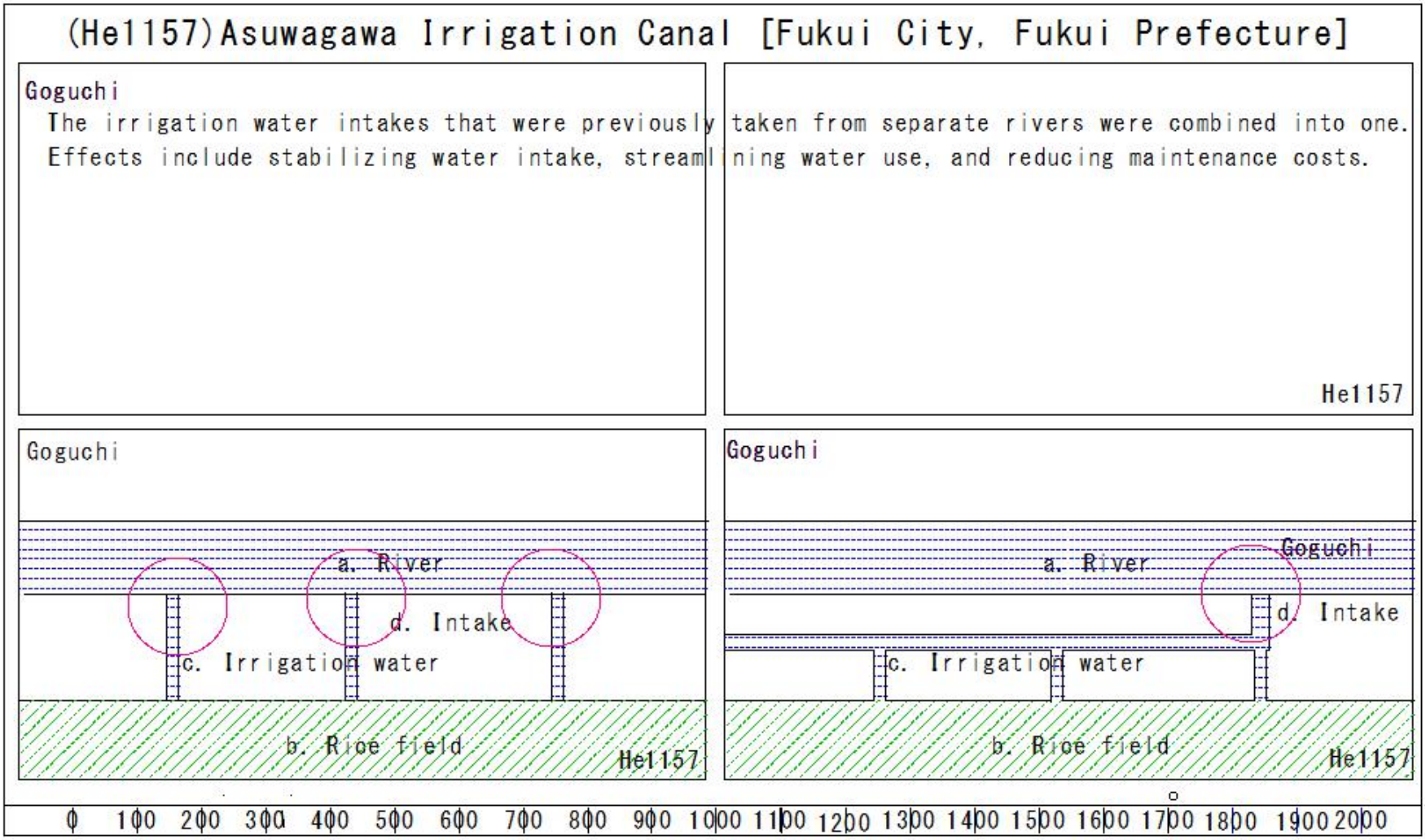
He1156



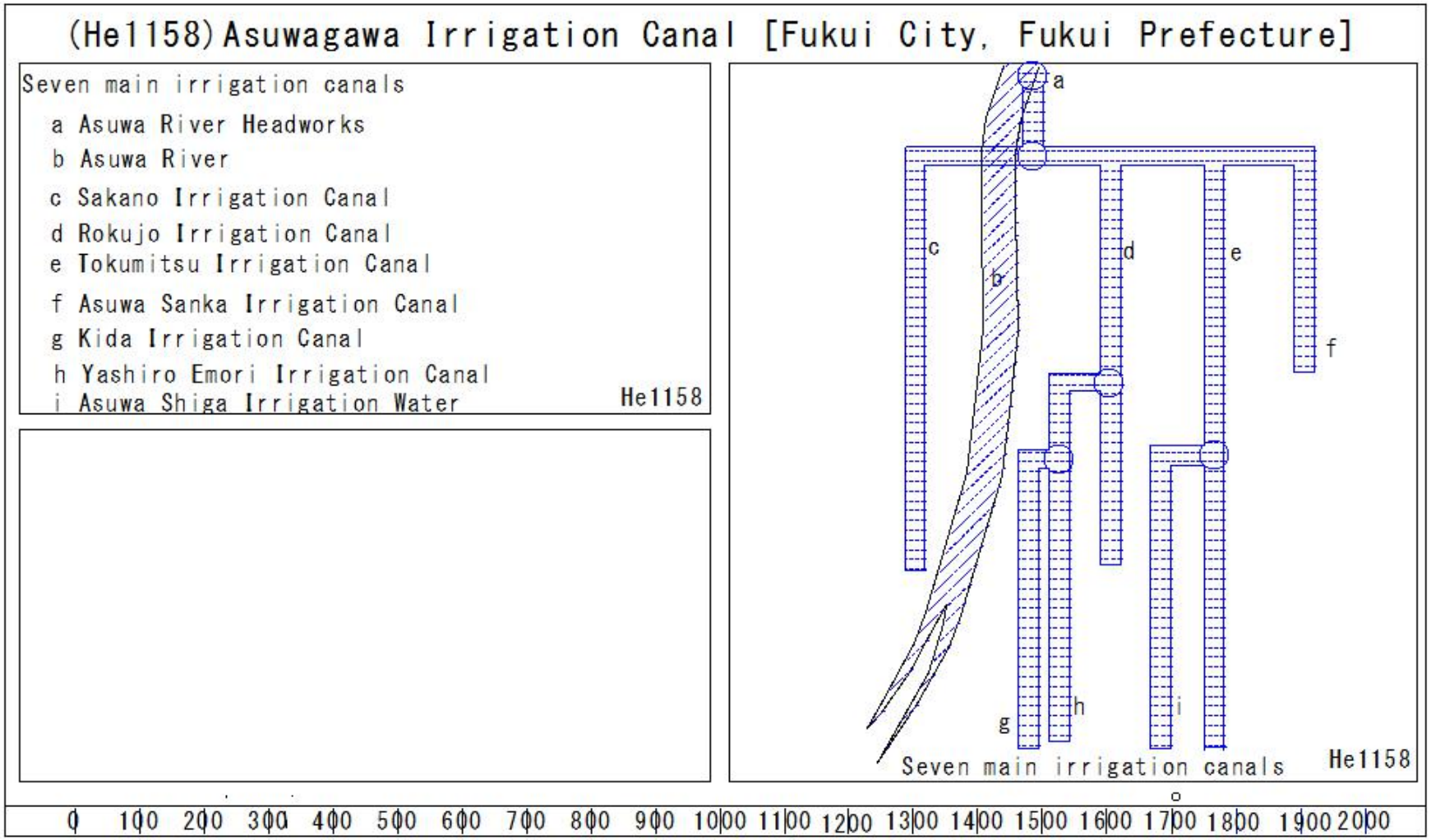


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1157)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)



(He1158)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)



(He1159)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1159)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

1. Overview of the Asuwa River Irrigation Canal

① The Asuwa River Irrigation Canal draws water from the Asuwa River Headworks in the southeastern part of Fukui City. It consists of seven main canals that irrigate

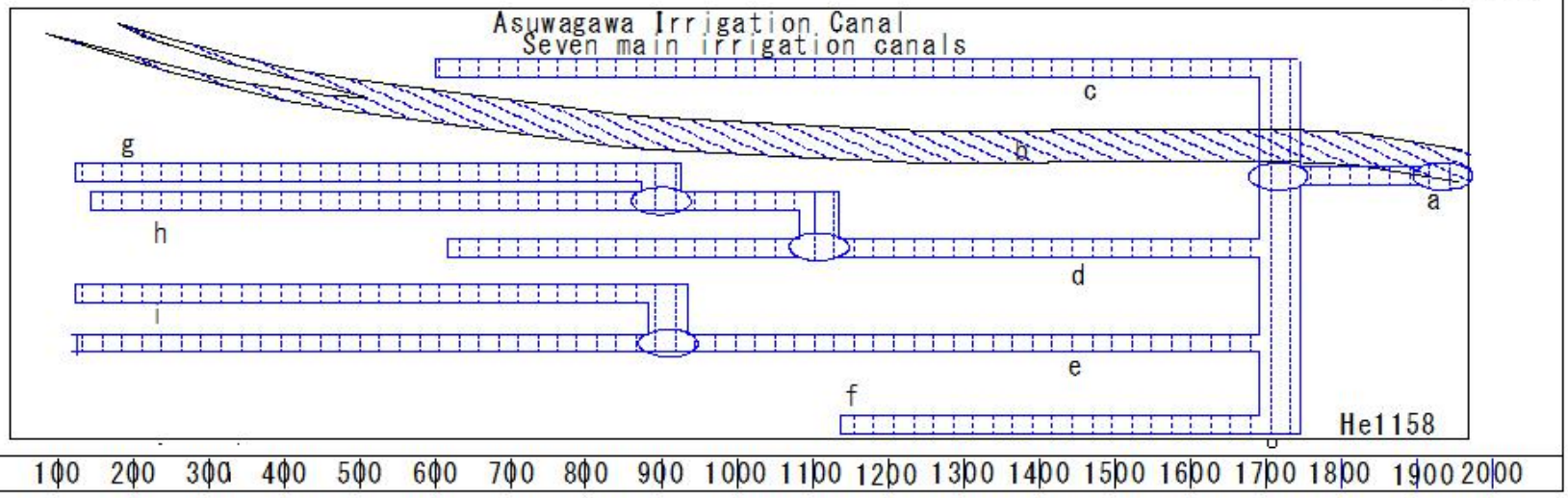
② The total length of the canals is 74 km.

③ The canals originated as primitive waterways within manors established during the Nara period (around the 7th century).

④ Each canal drew water directly from the Asuwa River.

⑤ However, water distribution was not equal, leading to fierce water disputes between upstream and downstream canals.

He1159



(He1160)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1160)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

1. Overview of the Asuwa River Irrigation Canal

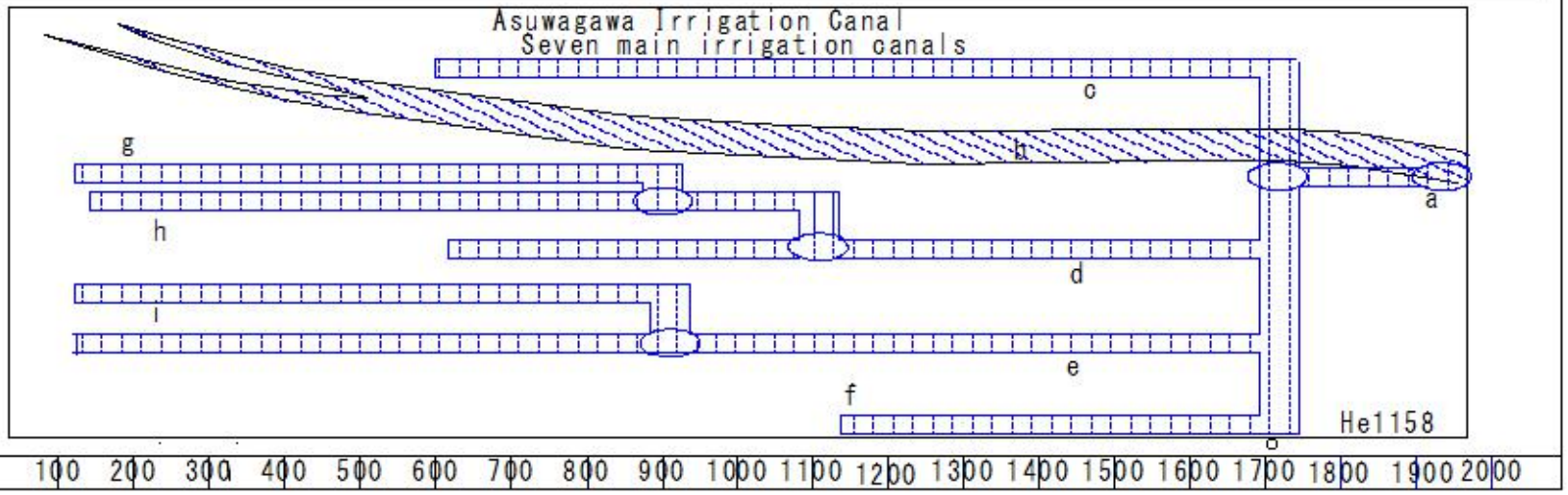
⑥ During the Edo period, multiple canal systems were integrated.

⑦ Wooden dams with matting were constructed for the "goguchi" (goguchi) joints, which were rare at the time.

⑧ To prevent excessive water withdrawals due to excavation of the canal bottom, "joseki" (fixed stones) were placed at the water division points to clearly define the water distribution.

⑨ It is said that these disputes have been alleviated.

He1160



(He1161)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

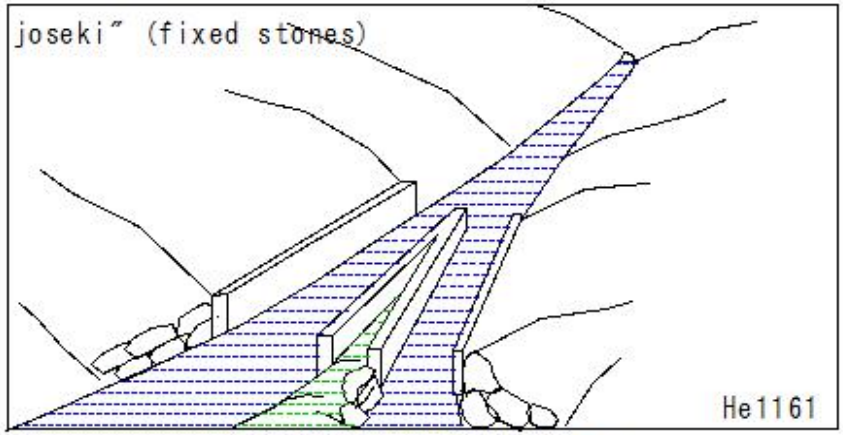
(He1161)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

1. Overview of the Asuwa River Irrigation Canal

joseki" (fixed stones)

⑧ To prevent excessive water withdrawals due to excavation of the canal bottom, "joseki" (fixed stones) were placed at the water division points to clearly define the water distribution.

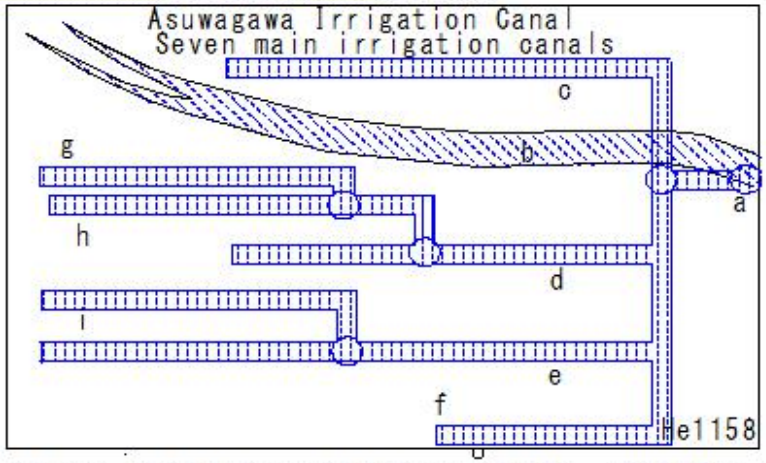
He1161



Seven main irrigation canals

a Asuwa River Headworks
b Asuwa River
c Sakano Irrigation Canal
d Rokujo Irrigation Canal
e Tokumitsu Irrigation Canal
f Asuwa Sanka Irrigation Canal
g Kida Irrigation Canal
h Yashiro Emori Irrigation Canal
i Asuwa Shiga Irrigation Water

He1158



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1162)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

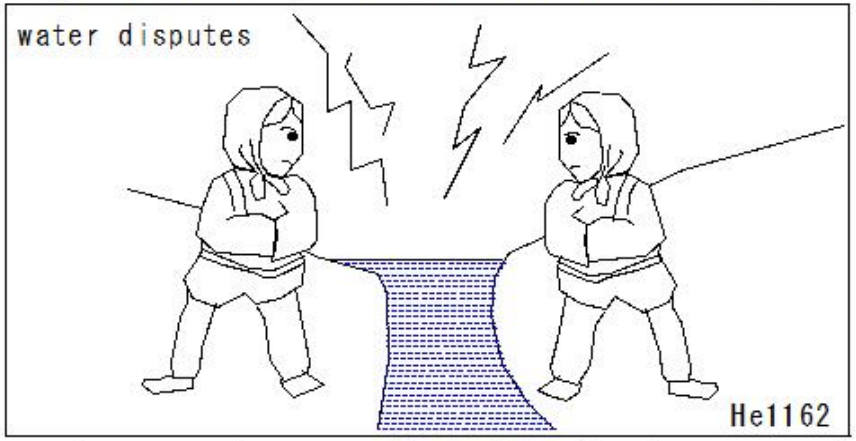
(He1162) Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

1. Overview of the Asuwa River Irrigation Canal water disputes

⑤ However, water distribution was not equal, leading to fierce water disputes between upstream and downstream canals.

⑨ It is said that these disputes have been alleviated.

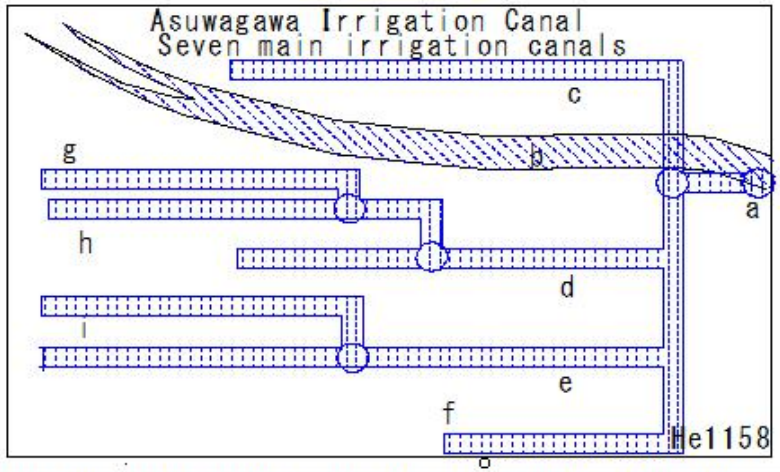
He1162



Seven main irrigation canals

a Asuwa River Headworks
b Asuwa River
c Sakano Irrigation Canal
d Rokujo Irrigation Canal
e Tokumitsu Irrigation Canal
f Asuwa Sanka Irrigation Canal
g Kida Irrigation Canal
h Yashiro Emori Irrigation Canal
i Asuwa Shiga Irrigation Water

He1158



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1163)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1163)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

1. Overview of the Asuwa River Irrigation Canal

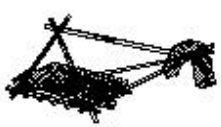
Goguchi (goguchi) joints.

④ Each canal drew water directly from the Asuwa River.

⑦ Wooden dams with matting were constructed for the "goguchi" (goguchi) joints, which were rare at the time.

He1163

Goguchi (goguchi) joints.



skeleton groin

R287

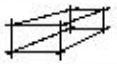
crib work

R551

groin(groyne・spur dike)

skeleton groin

foot protection



R286

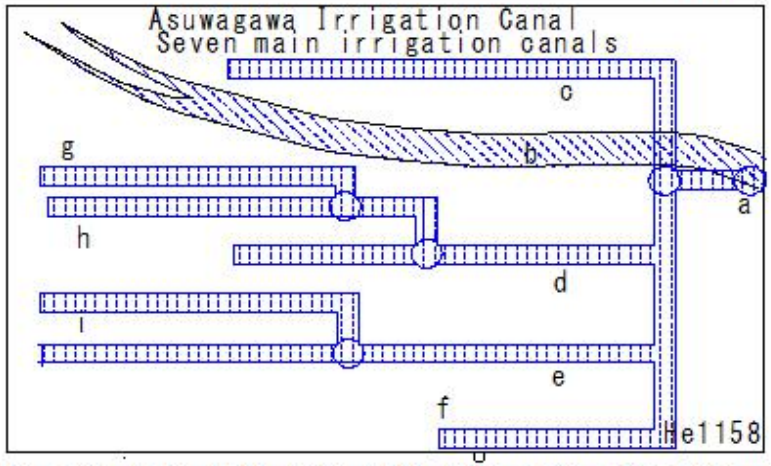
He1097

He1163

Seven main irrigation canals

a Asuwa River Headworks
b Asuwa River
c Sakano Irrigation Canal
d Rokujo Irrigation Canal
e Tokumitsu Irrigation Canal
f Asuwa Sanka Irrigation Canal
g Kida Irrigation Canal
h Yashiro Emori Irrigation Canal
i Asuwa Shiga Irrigation Water

He1158



0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1164)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1164)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

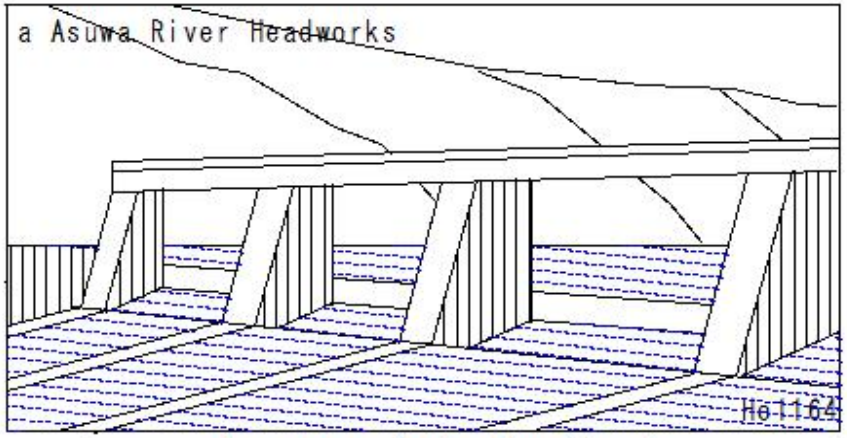
1. Overview of the Asuwa River Irrigation Canal

a Asuwa River Headworks

① The Asuwa River Irrigation Canal draws water from the Asuwa River Headworks in the southeastern part of Fukui City. It consists of seven main canals that irrigate

② The total length of the canals is 74 km.

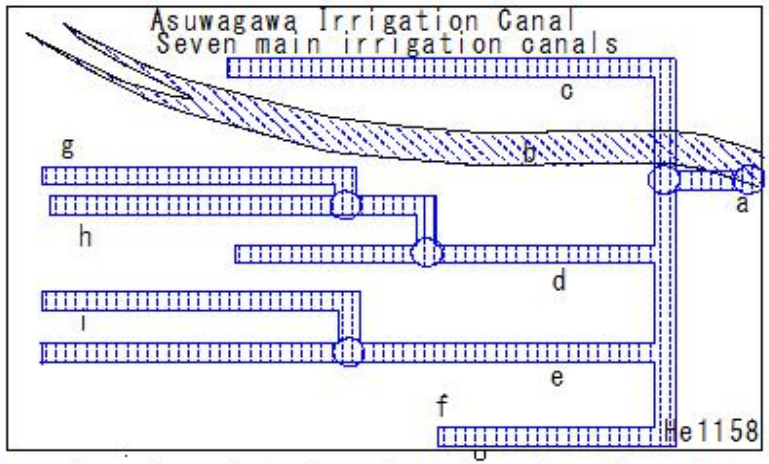
He1164



Seven main irrigation canals

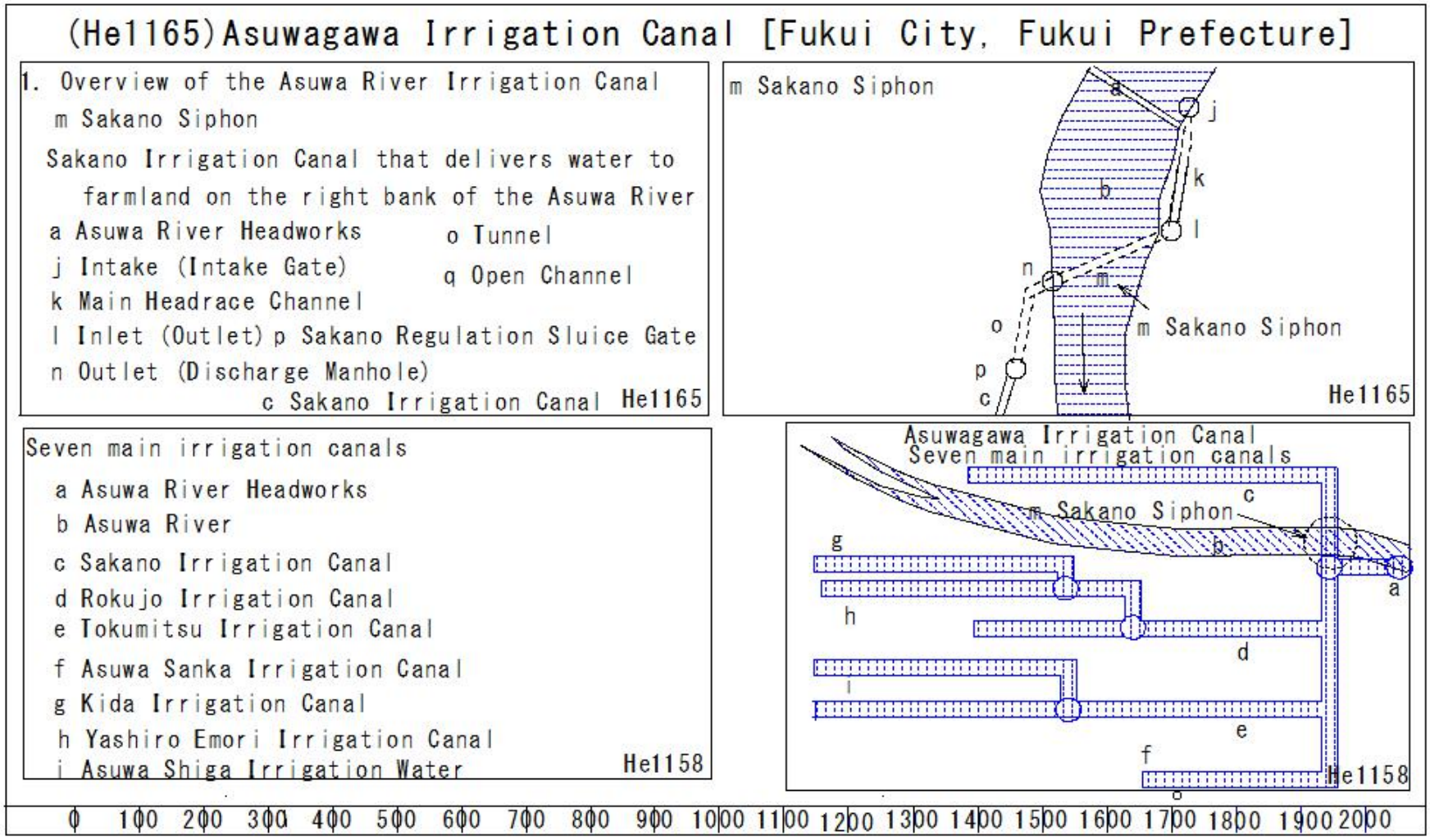
a Asuwa River Headworks
b Asuwa River
c Sakano Irrigation Canal
d Rokujo Irrigation Canal
e Tokumitsu Irrigation Canal
f Asuwa Sanka Irrigation Canal
g Kida Irrigation Canal
h Yashiro Emori Irrigation Canal
i Asuwa Shiga Irrigation Water

He1158

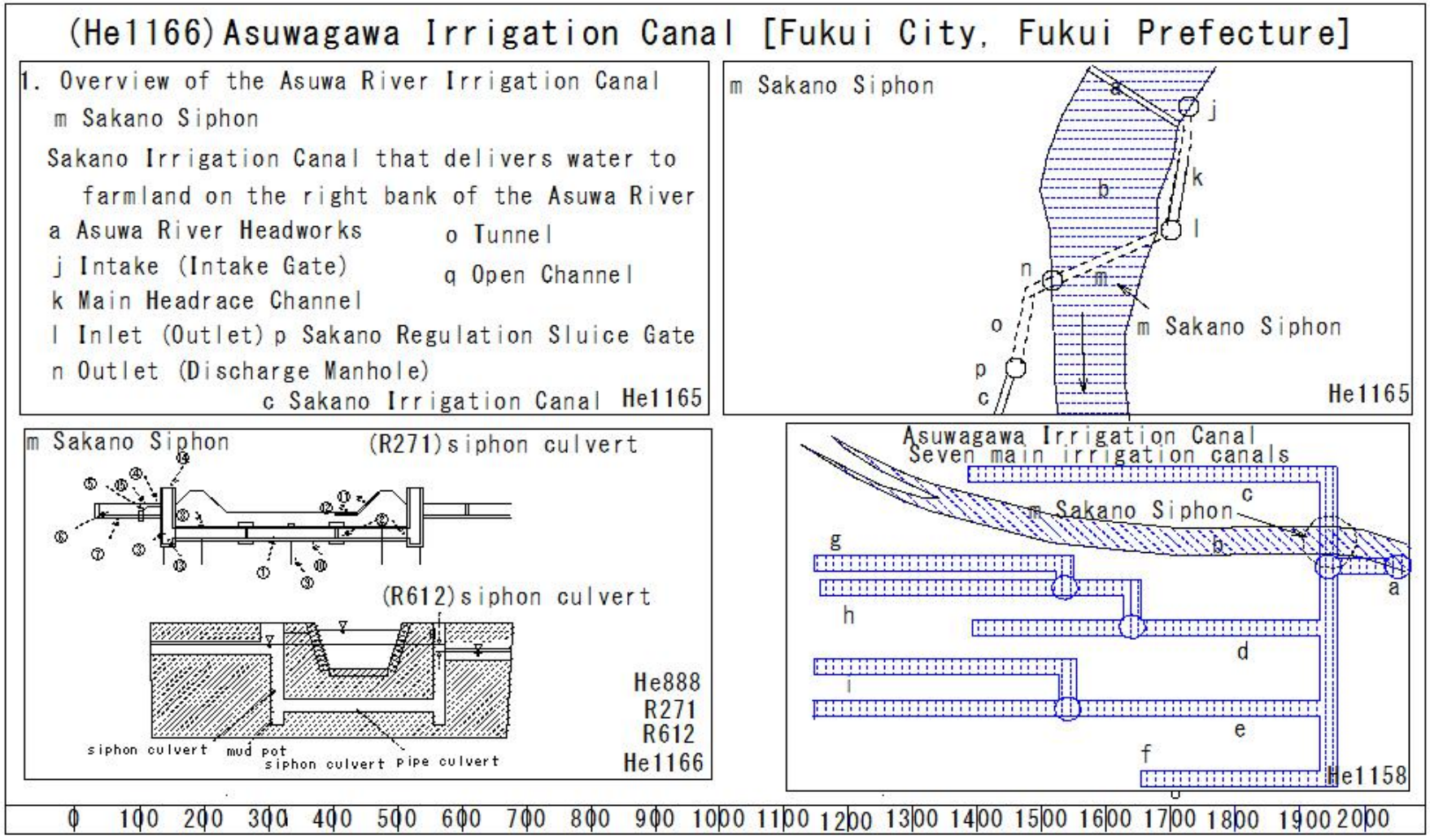


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1165)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)



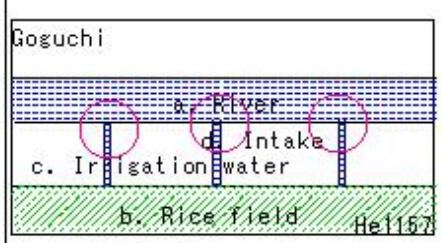
(He1166)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

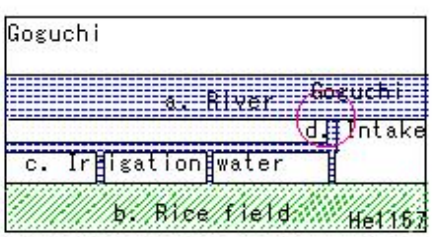


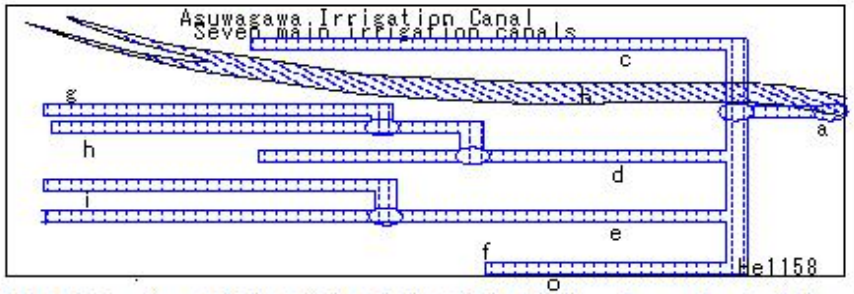
(He1167)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1167)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

Regarding water intake from the river	Water Supply to Rice Paddies
① There are multiple intakes on the Asuwa River. Taking too much water upstream results in a lack of water downstream. ② Damage to the weir due to floods, etc.	⑤ Water Supply via Earthen Canals When the water volume decreased, disputes arose at the junctions
Countermeasures (around 1710) ③ Intake joints and weir reinforcement * The intakes of the Asuwa Sanka Irrigation Canal and the Tokumitsu Irrigation Canal were combined into the Tokumitsu Weir. * The intakes were constructed as wooden dams.	Countermeasures (circa 1710) ⑥ Water diversion standards were determined based on the width and depth of the irrigation canal * Joseki (standard marks) were installed at the junctions
Present (2020) ④ All intakes are joined to the Asuwa Headworks.	Present (2020) ⑦ Inheriting irrigation canal standards from 300 years ago







(He1168)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1168)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

Regarding water intake from the river

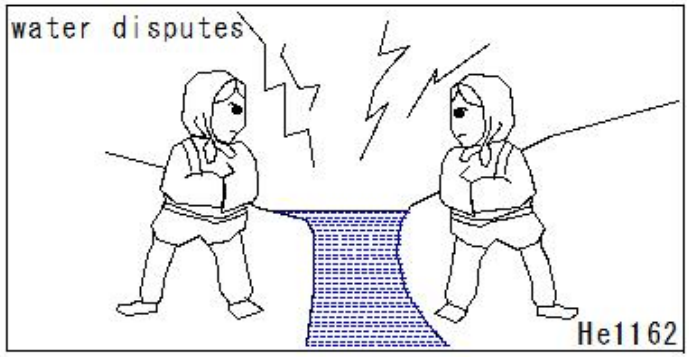
① There are multiple intakes on the Asuwa River. Taking too much water upstream results in a lack of water downstream.

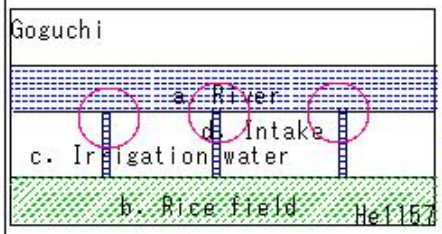
② Damage to the weir due to floods, etc.

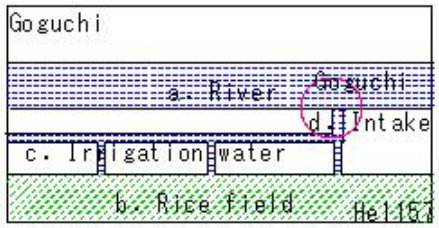
Water Supply to Rice Paddies

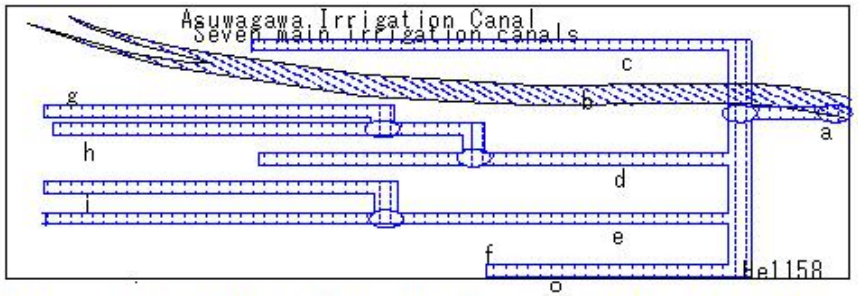
⑤ Water Supply via Earthen Canals

When the water volume decreased, disputes arose at the junctions









0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1169)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)

(He1169)Asuwagawa Irrigation Canal [Fukui City, Fukui Prefecture]

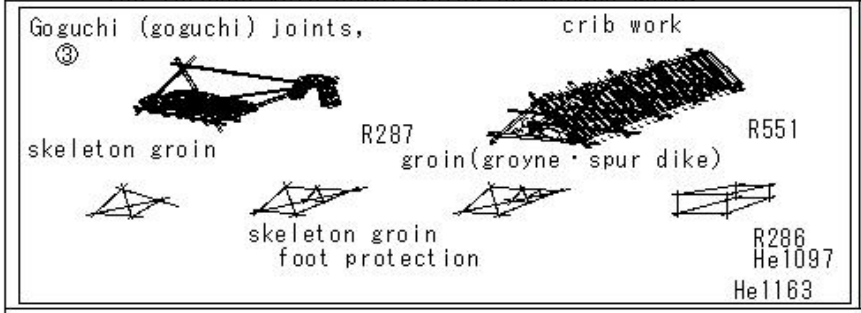
Regarding water intake from the river

Countermeasures (around 1710)

③ Intake joints and weir reinforcement

* The intakes of the Asuwa Sanka Irrigation Canal and the Tokumitsu Irrigation Canal were combined into the Tokumitsu Weir.

* The intakes were constructed as wooden dams.

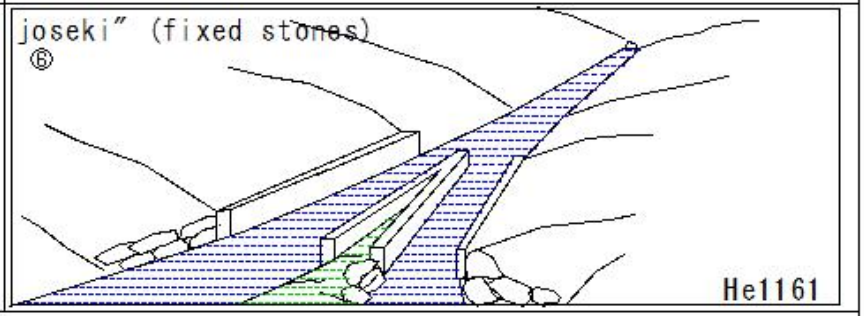


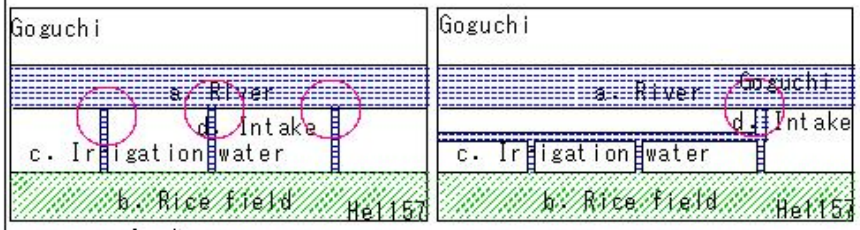
Water Supply to Rice Paddies

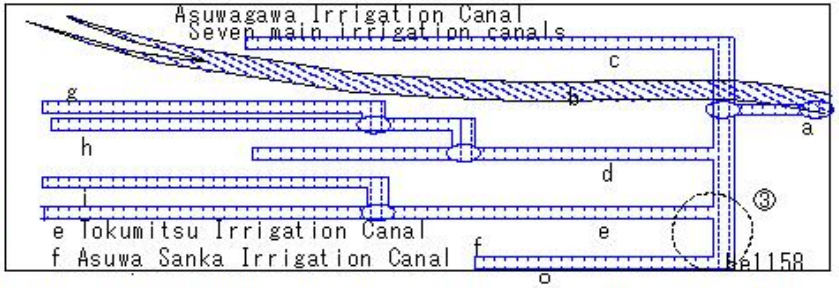
Countermeasures (circa 1710)

⑥ Water diversion standards were determined based on the width and depth of the irrigation canal

* Joseki (standard marks) were installed at the junctions

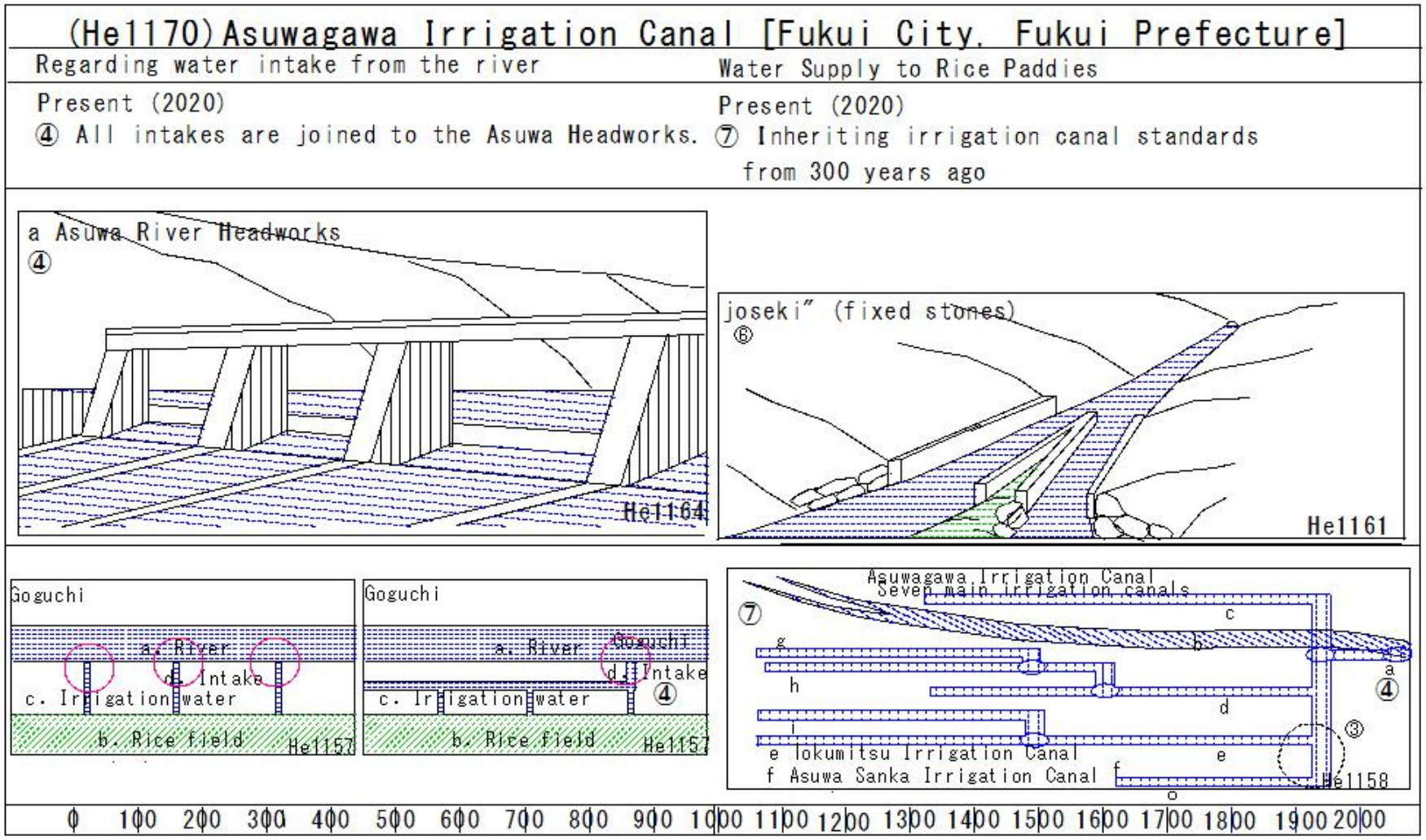






0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1170)Asuwagawa Irrigation Canal (Fukui City, Fukui Prefecture)



(He1171)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)

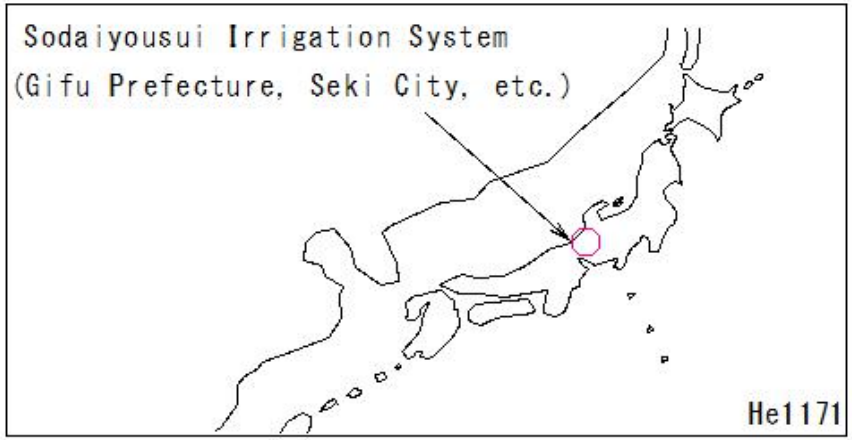
(He1171)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)

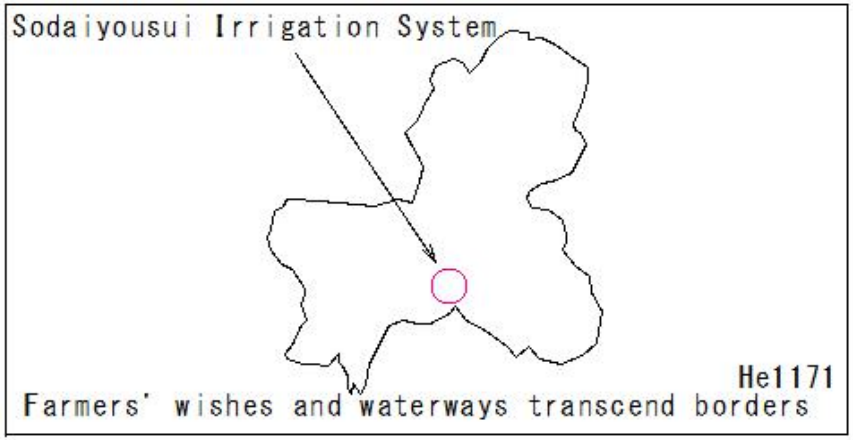
Sodai Irrigation Canal

① This region is prone to drought, and due to the fragmented governance of the feudal domain system, there were no large-scale irrigation facilities.
As a result, local farmers worked together to build a canal.

② The construction was a difficult undertaking, requiring only chisels and chisels to excavate the bedrock. However, it was completed in 1669, transforming the former barren land into beautiful, new rice paddies.

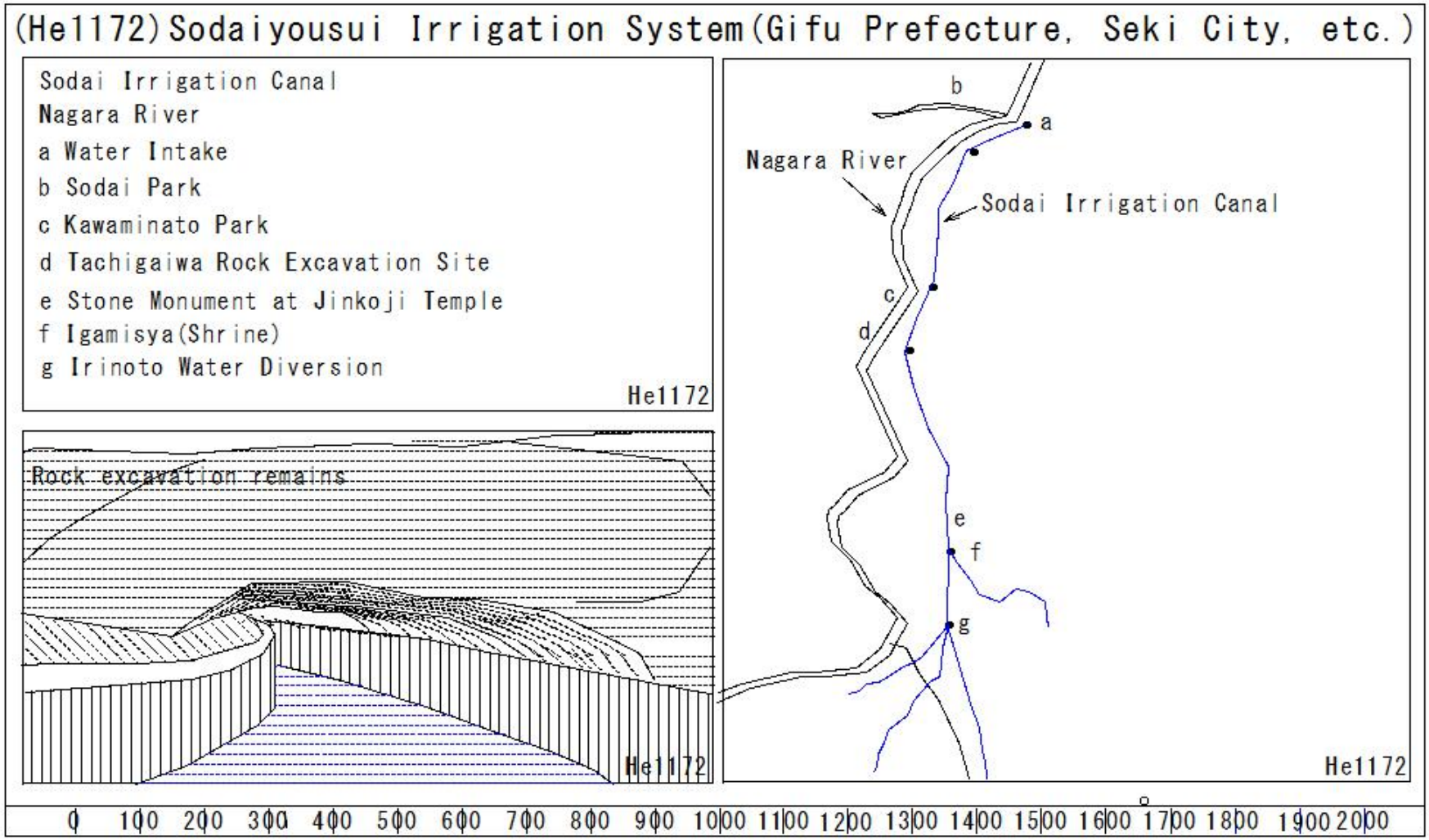
③ Efforts to repair the canal continue to this day, and its history is featured in school supplementary textbooks.





0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

(He1172)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



(He1173)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)

(He1173)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)

④In 1663 (Kanbun 3), the area surrounding present-day Seki City suffered from poor water access and a water shortage.

⑤Kida Kichiemon, a ronin from the Owari domain who had moved to the area, and his brother Hayashi Yukan, were concerned about this situation.

⑥He consulted with Shibayama Ihei, a wealthy local farmer, and planned an irrigation system drawing water from the Nagara River.

⑦At the time, there was no dynamite or machinery, and the excavation required hard bedrock.

⑧The rocks were baked over charcoal and firewood to make them easier to break, and then excavated with chisels and hammers. This was a grueling project that lasted a year.

⑨The construction cost a huge sum, approximately 5,500 ryo, and the three men spent all their personal funds.

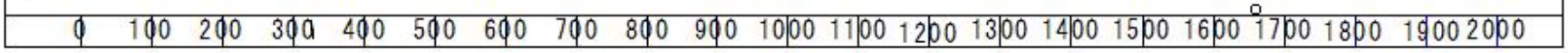
⑩Kida Kichiemon left, and Hayashi Yukan's whereabouts became unknown.

⑪Shibayama Ihei persevered, living in a humble hut.

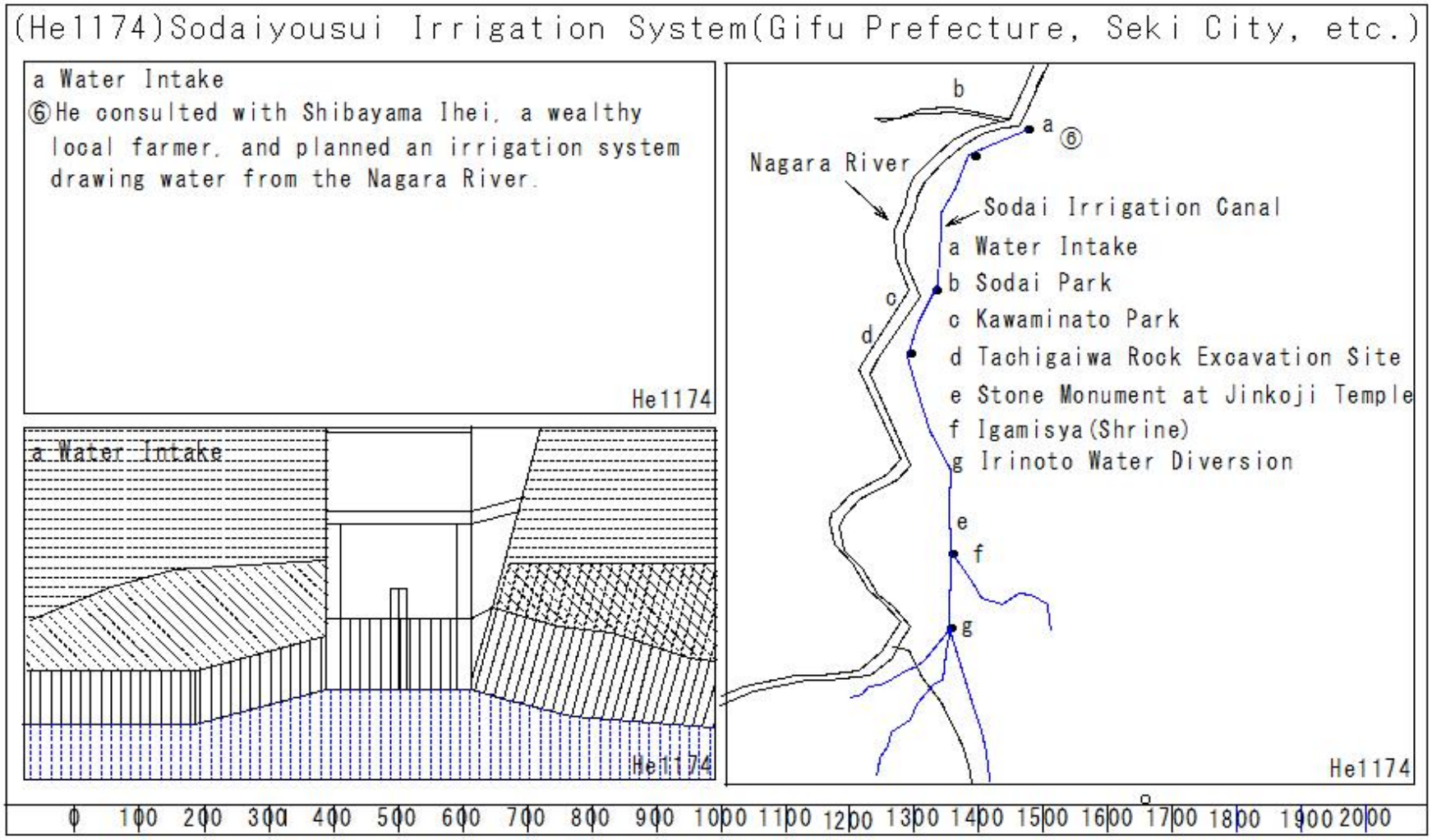
⑫Ten years after construction began, the approximately 17-kilometer irrigation canal was completed, transforming the wasteland into beautiful rice fields.

⑬To honor the achievements of the three men, the farmers built and enshrined Ii Shrine. Even today, an annual festival is held on August 1st to commemorate their virtues.

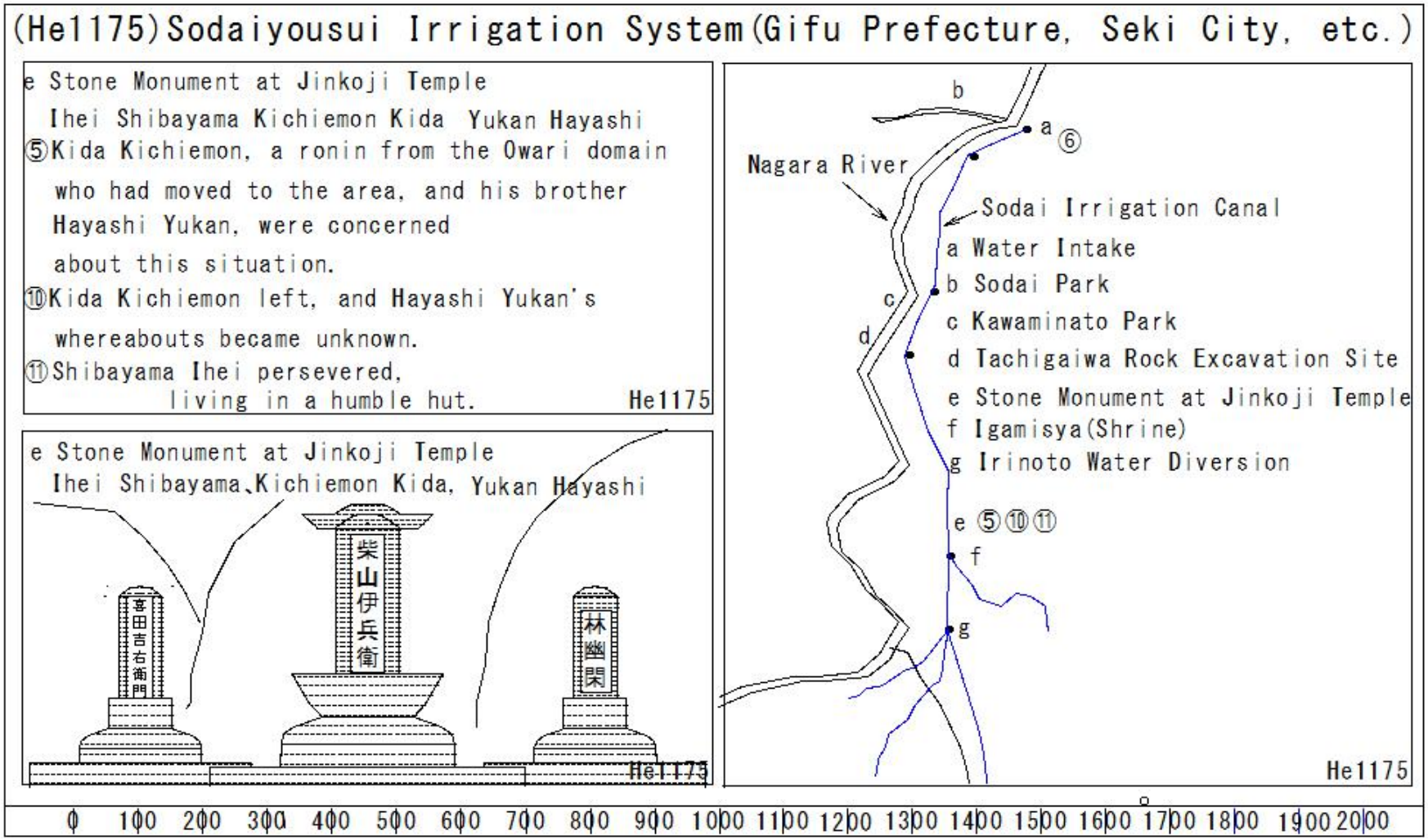
⑭many people, including those involved with the Sodai Irrigation Canal Land Improvement District, offer prayers of gratitude.



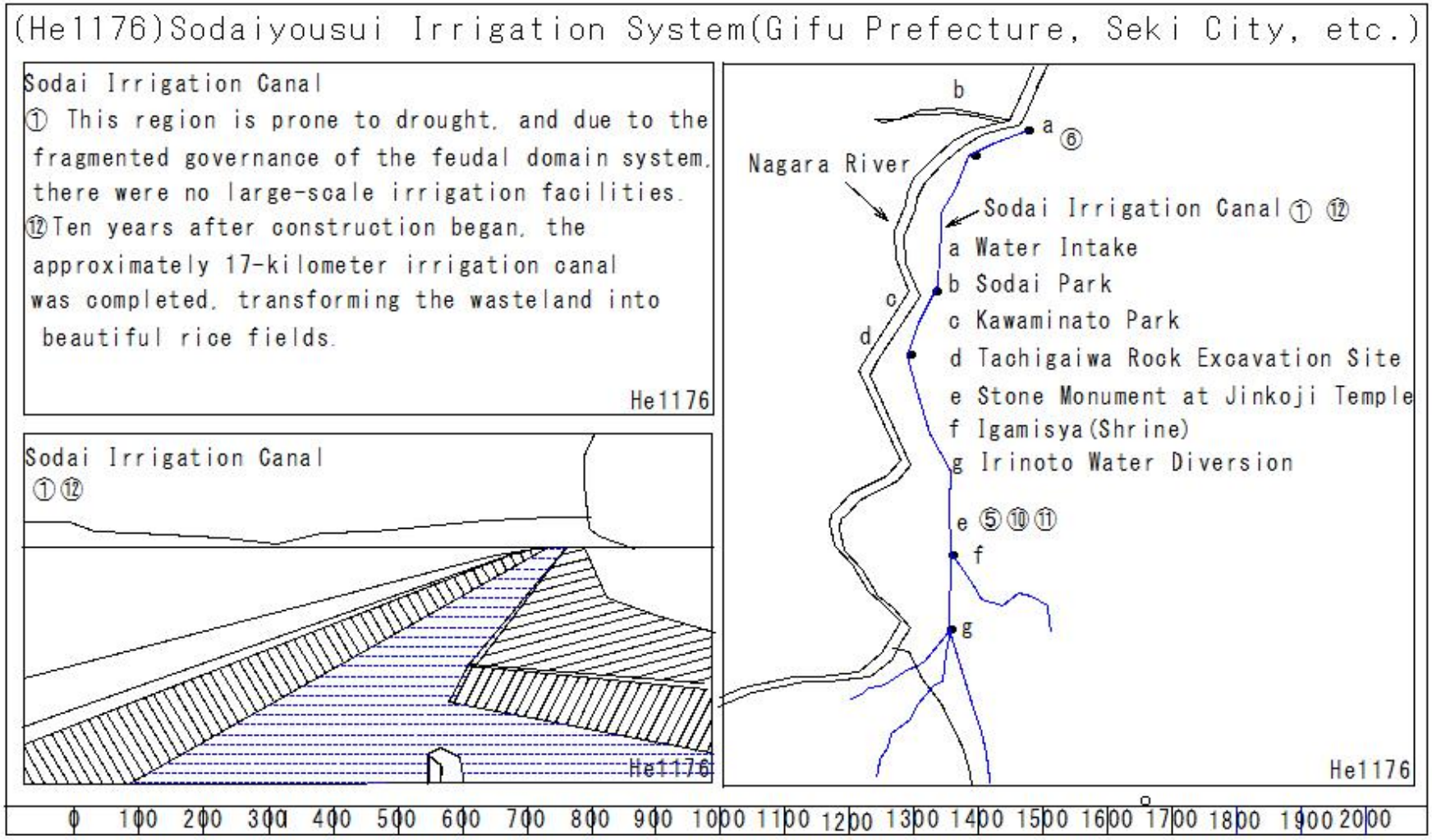
(He1174)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



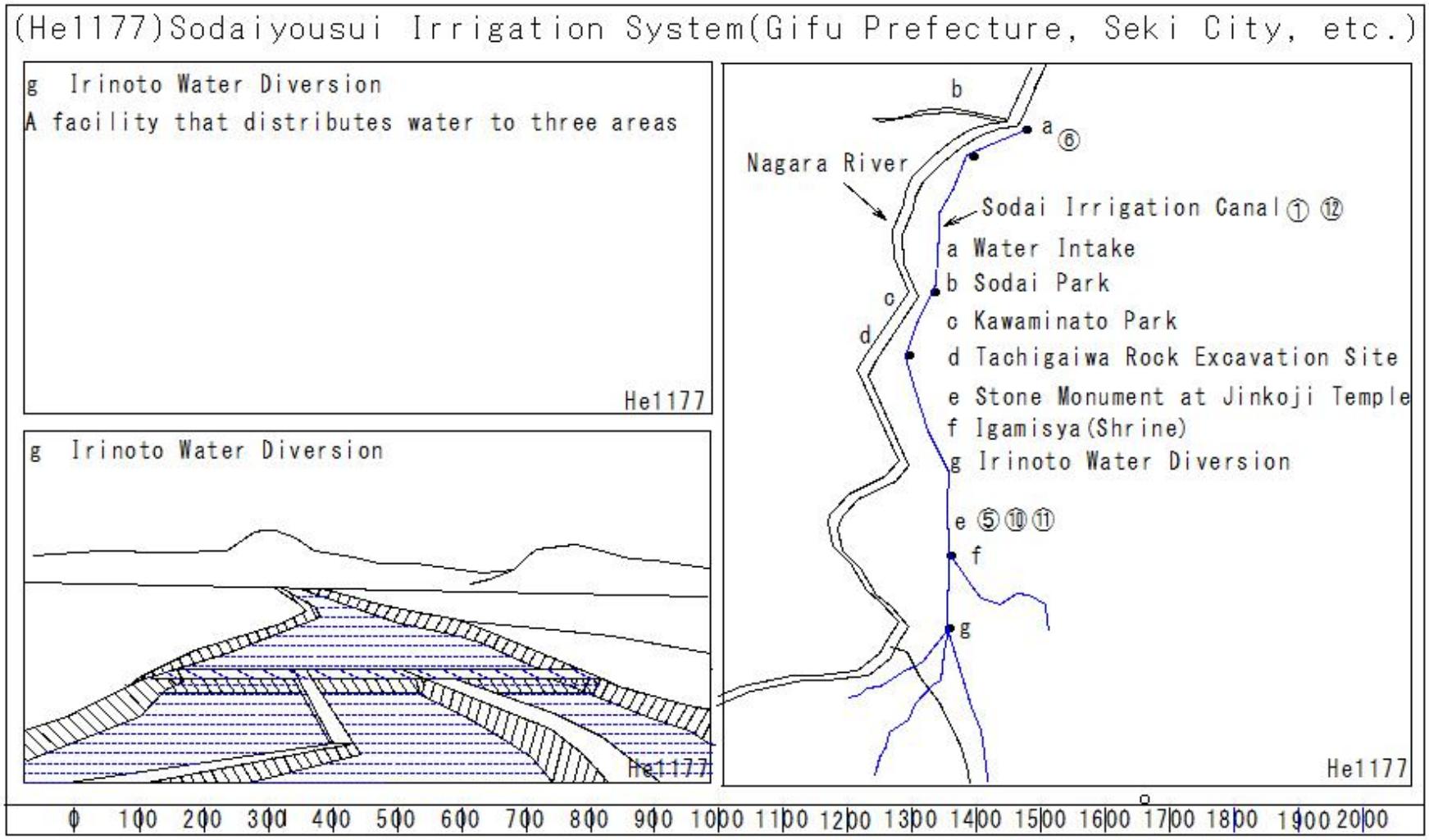
(He1175)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



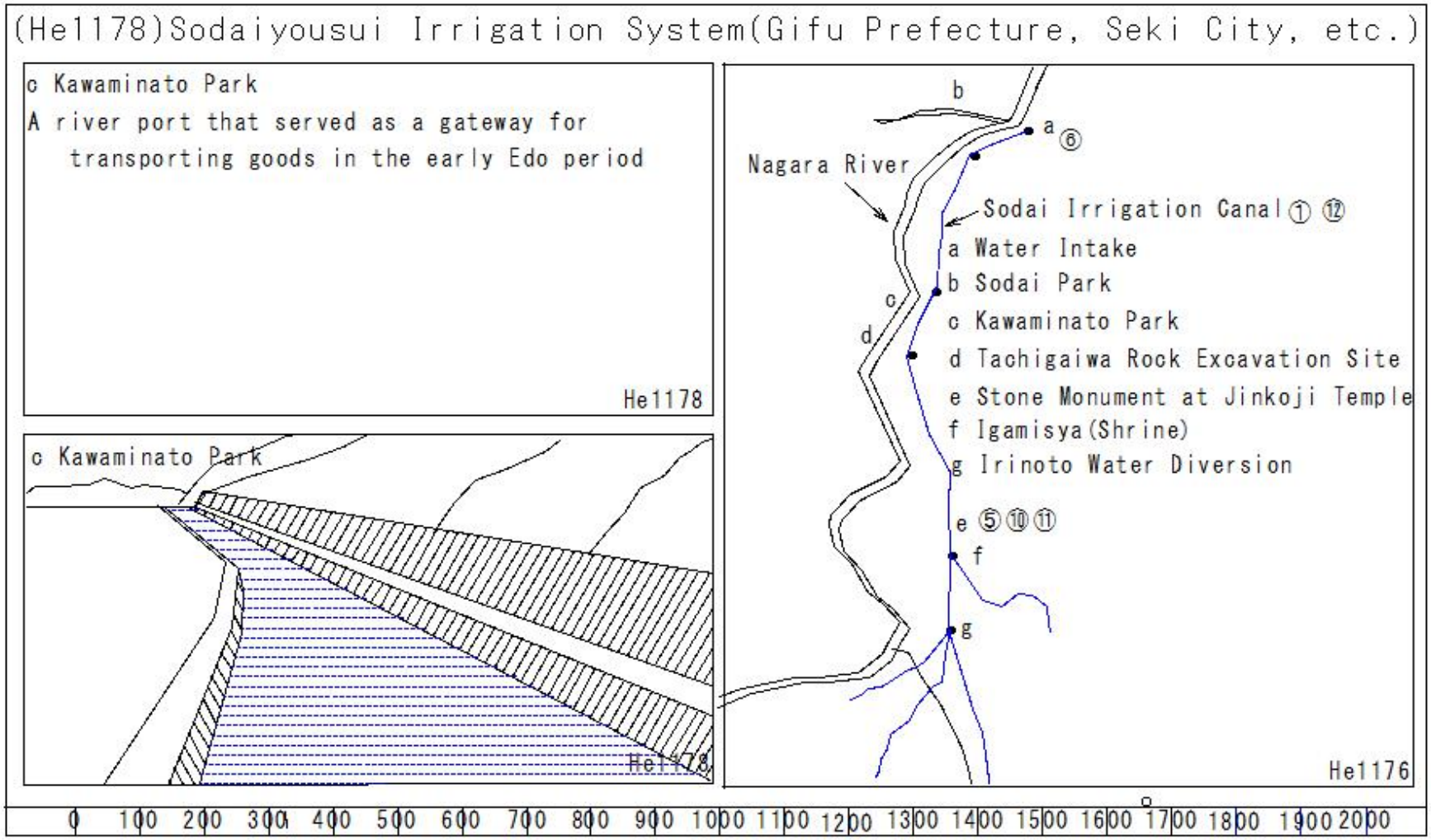
(He1176)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



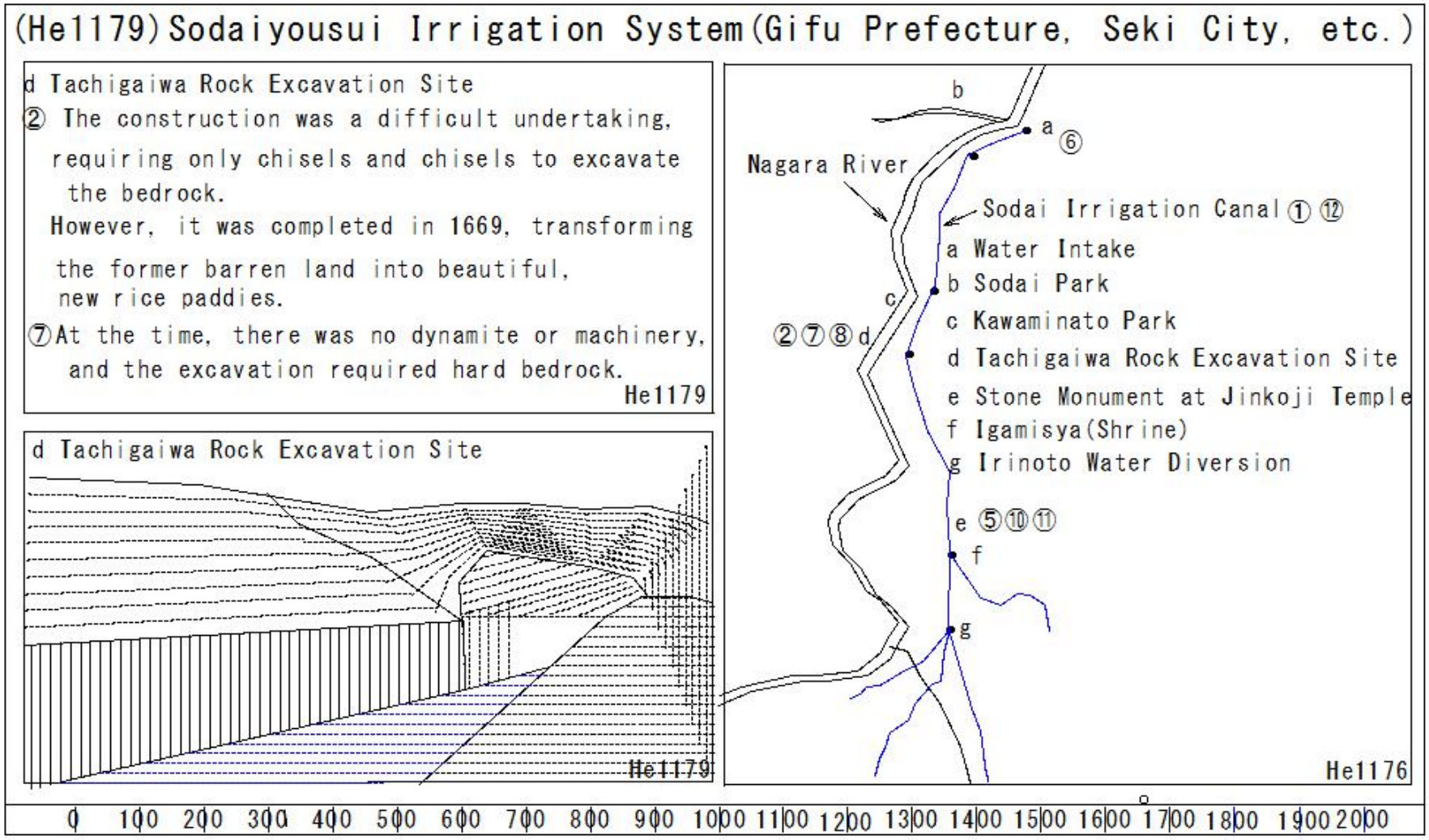
(He1177)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



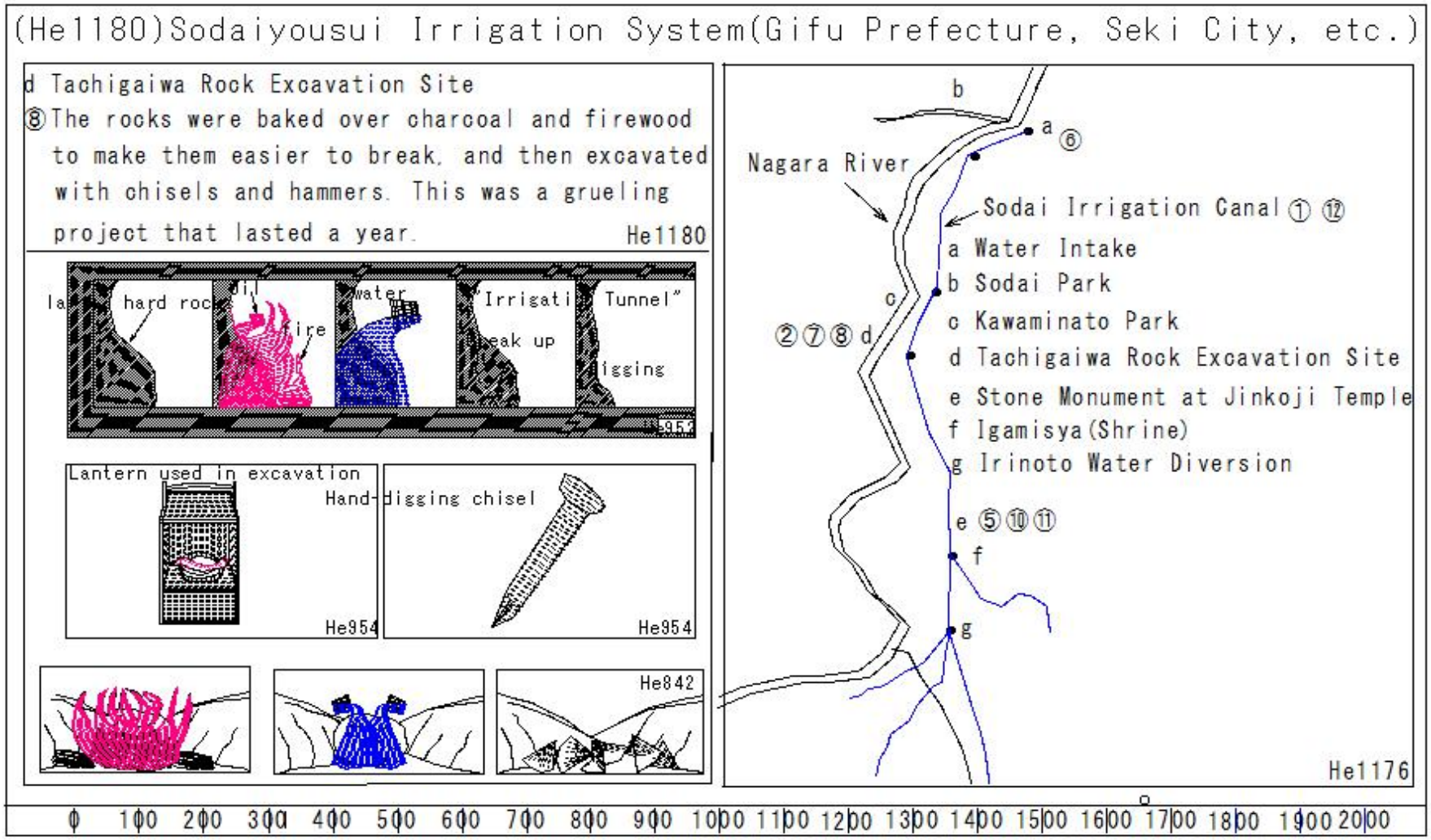
(He1178)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



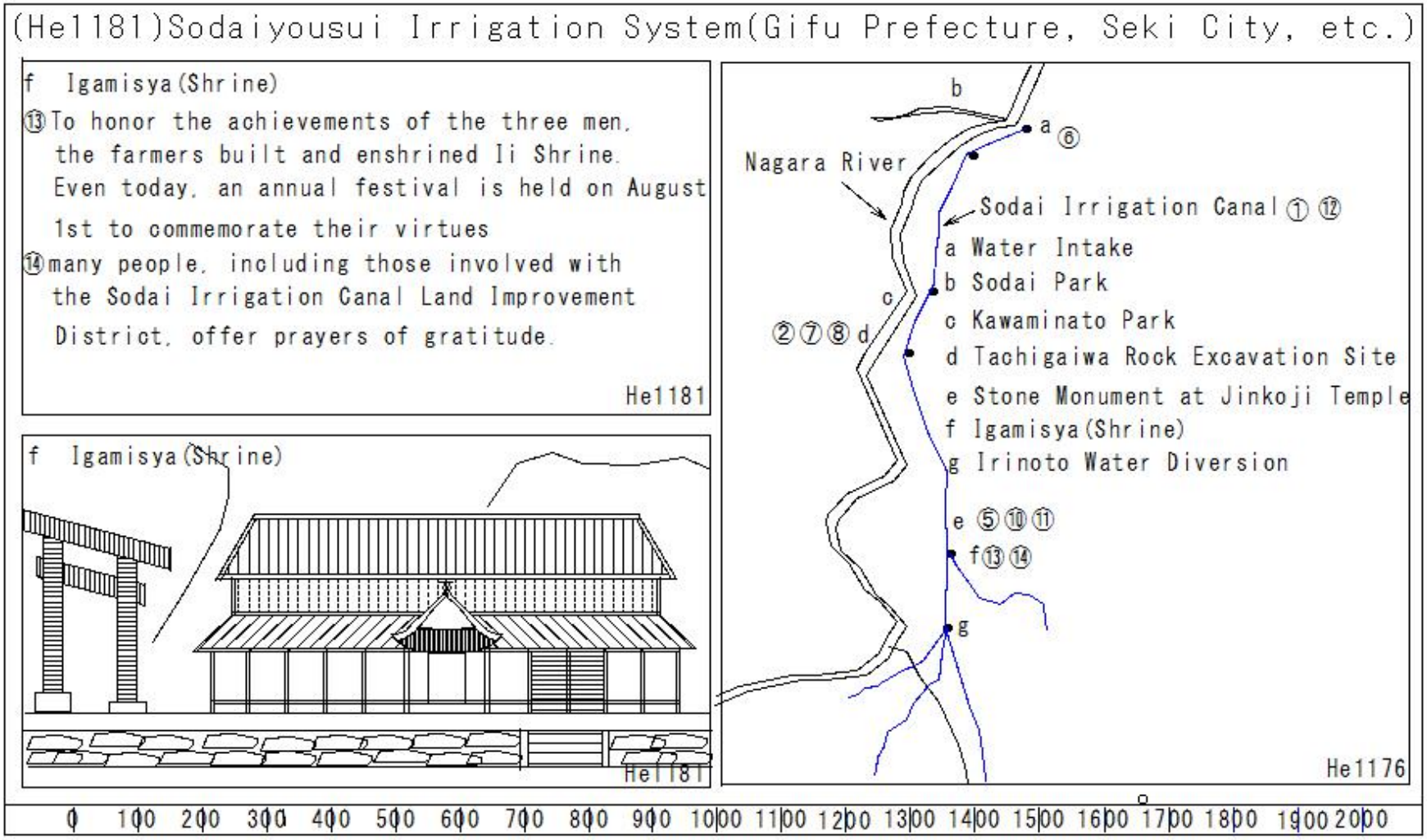
(He1179)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



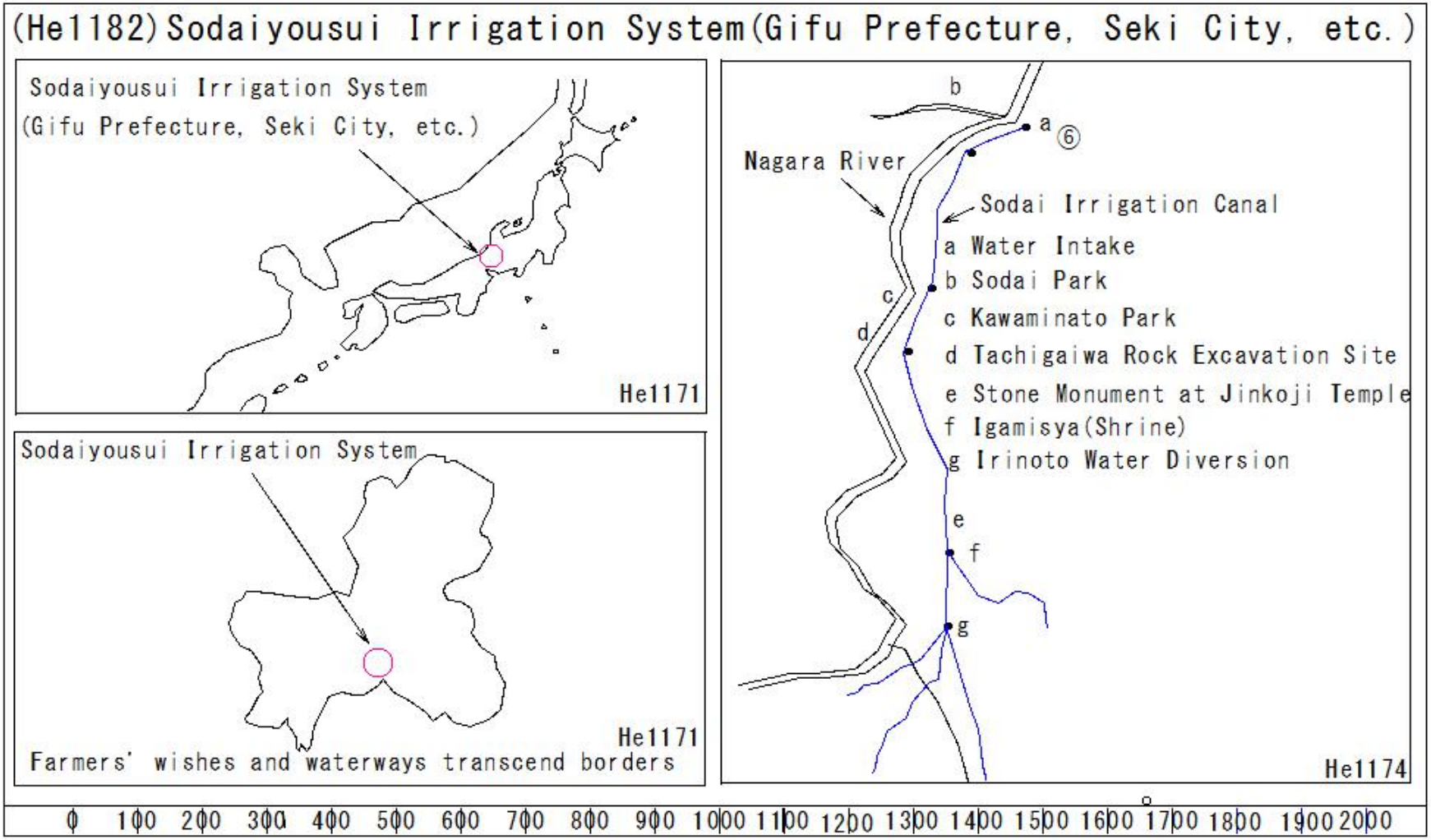
(He1180)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



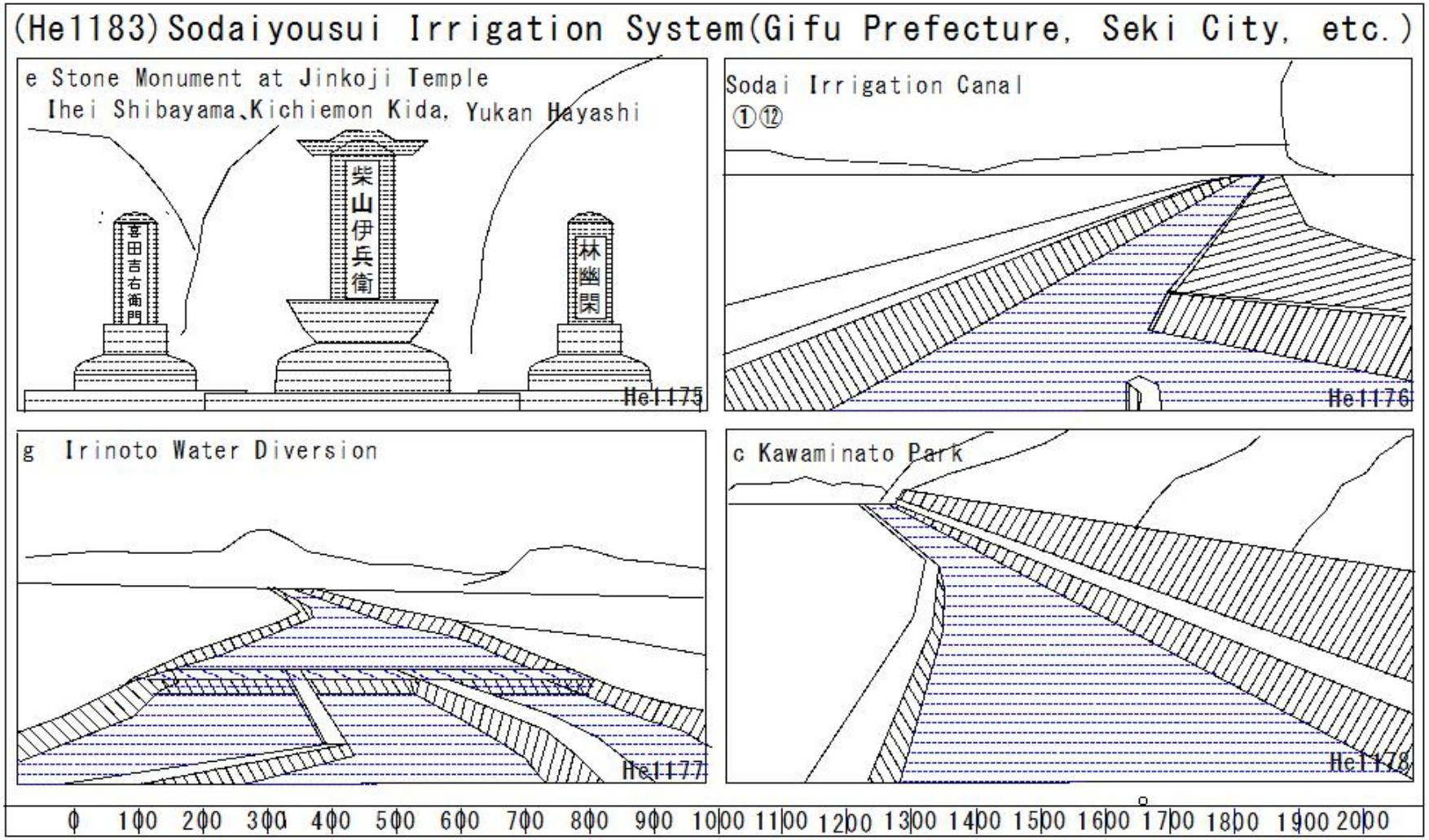
(He1181)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



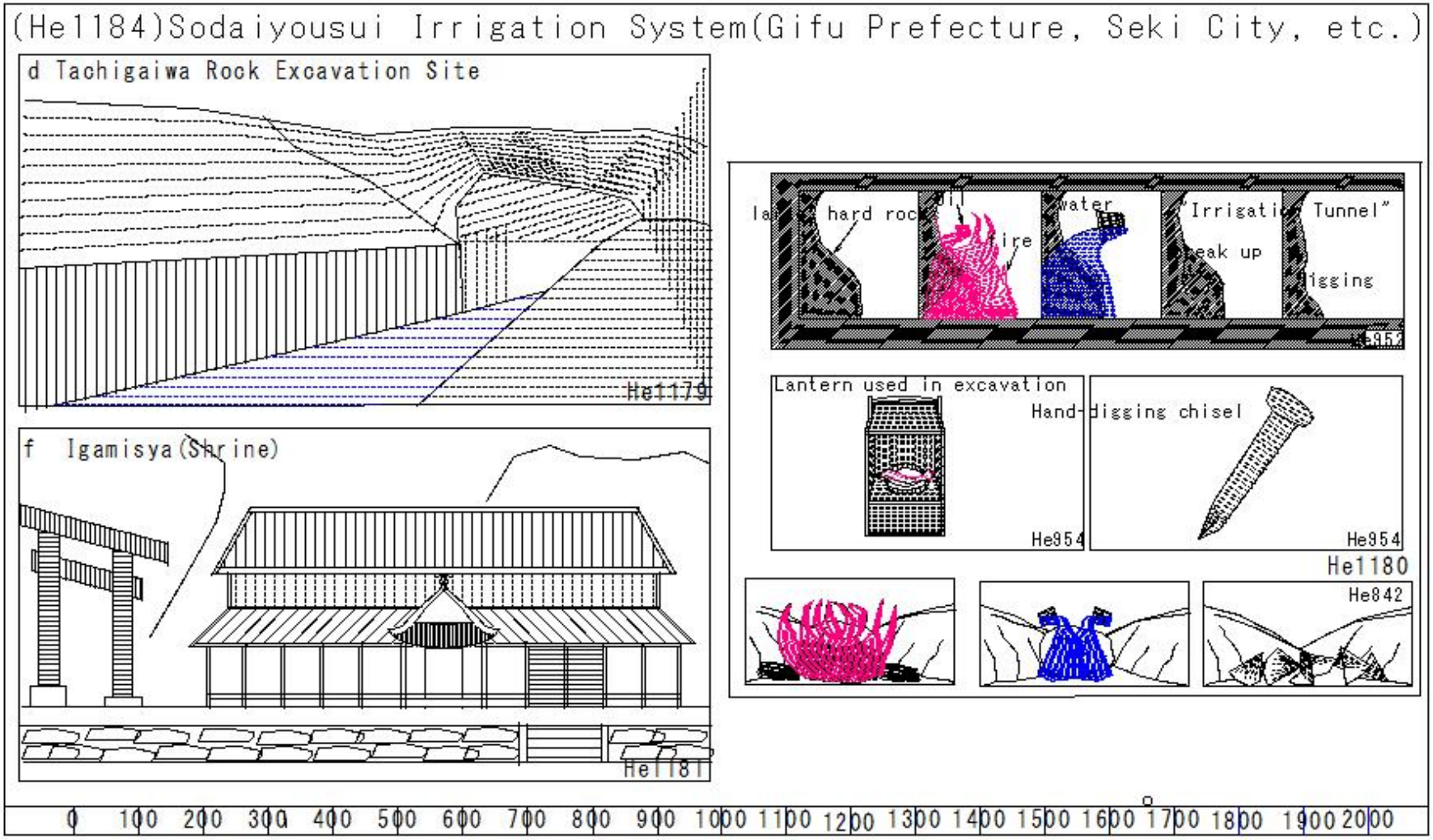
(He1182)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



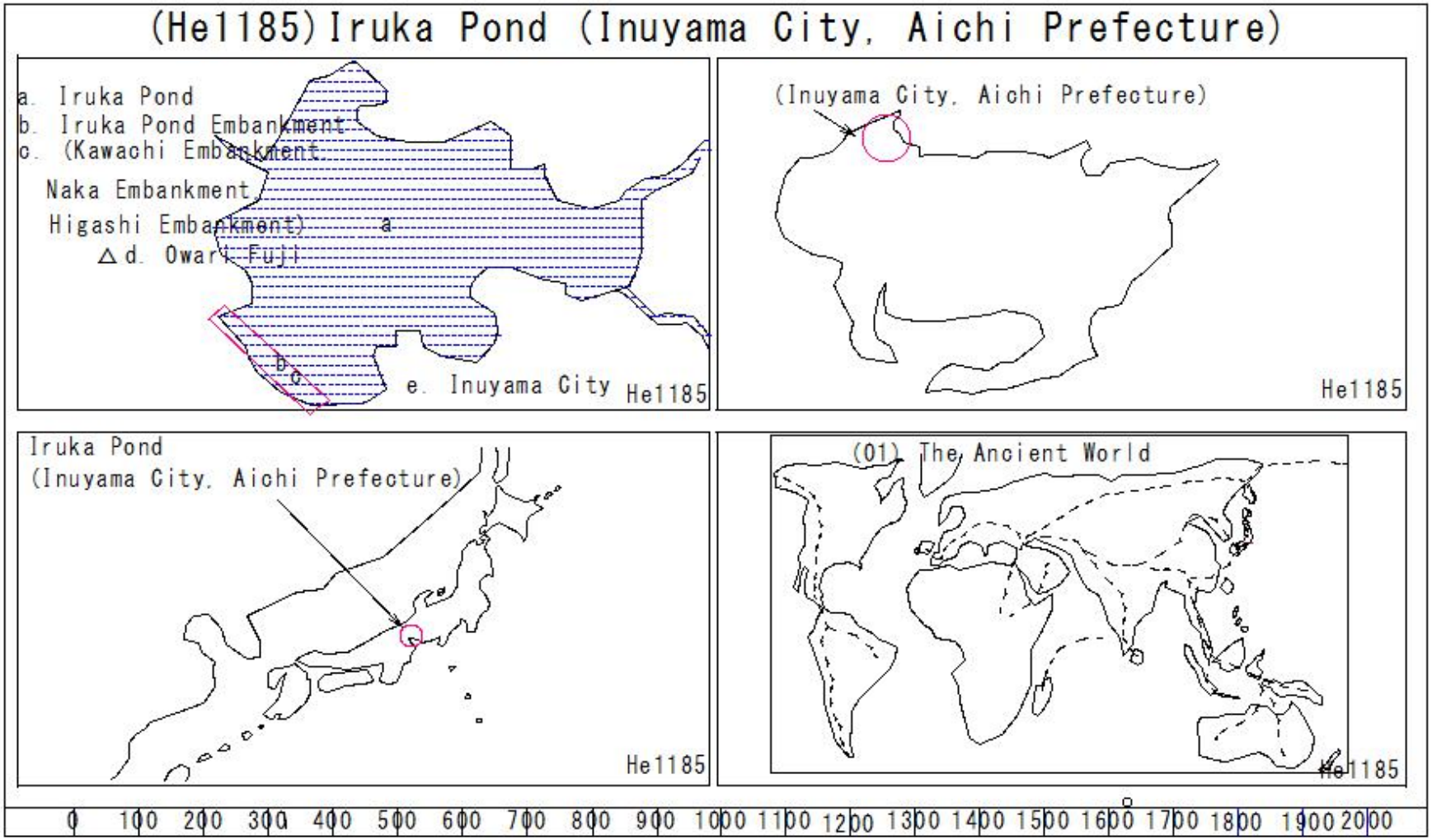
(He1183)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



(He1184)Sodaiyousui Irrigation System(Gifu Prefecture, Seki City, etc.)



(He1185)Iruka Pond (Inuyama City, Aichi Prefecture)



(He1186)Iruka Pond (Inuyama City, Aichi Prefecture)

(He1186) Iruka Pond (Inuyama City, Aichi Prefecture)

①Iruka Pond has a 25.7m high, 724.1m long, and a reservoir capacity of approximately 15 million cubic meters.

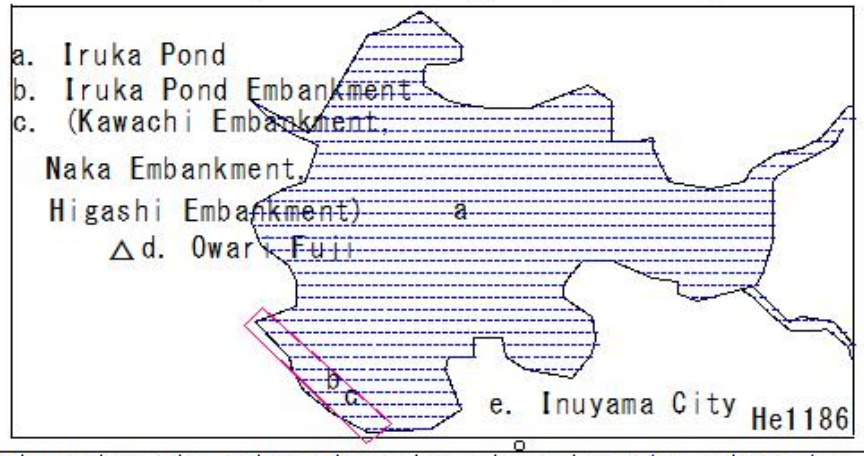
② Along with Kagawa Prefecture's Mannoike Pond, it is one of Japan's two largest agricultural reservoirs, irrigating approximately 1,000 hectares of rice paddies across Inuyama City, Komaki City, Oguchi Town, and Fuso Town.

③368 years ago, in 1633, Ezaki Zenzaemon and the other members of the Iruka Six,

④it was constructed as a project of the Owari Domain at the request of Tokugawa Yoshinao, the ninth son of Tokugawa Ieyasu and lord of the Owari Domain.

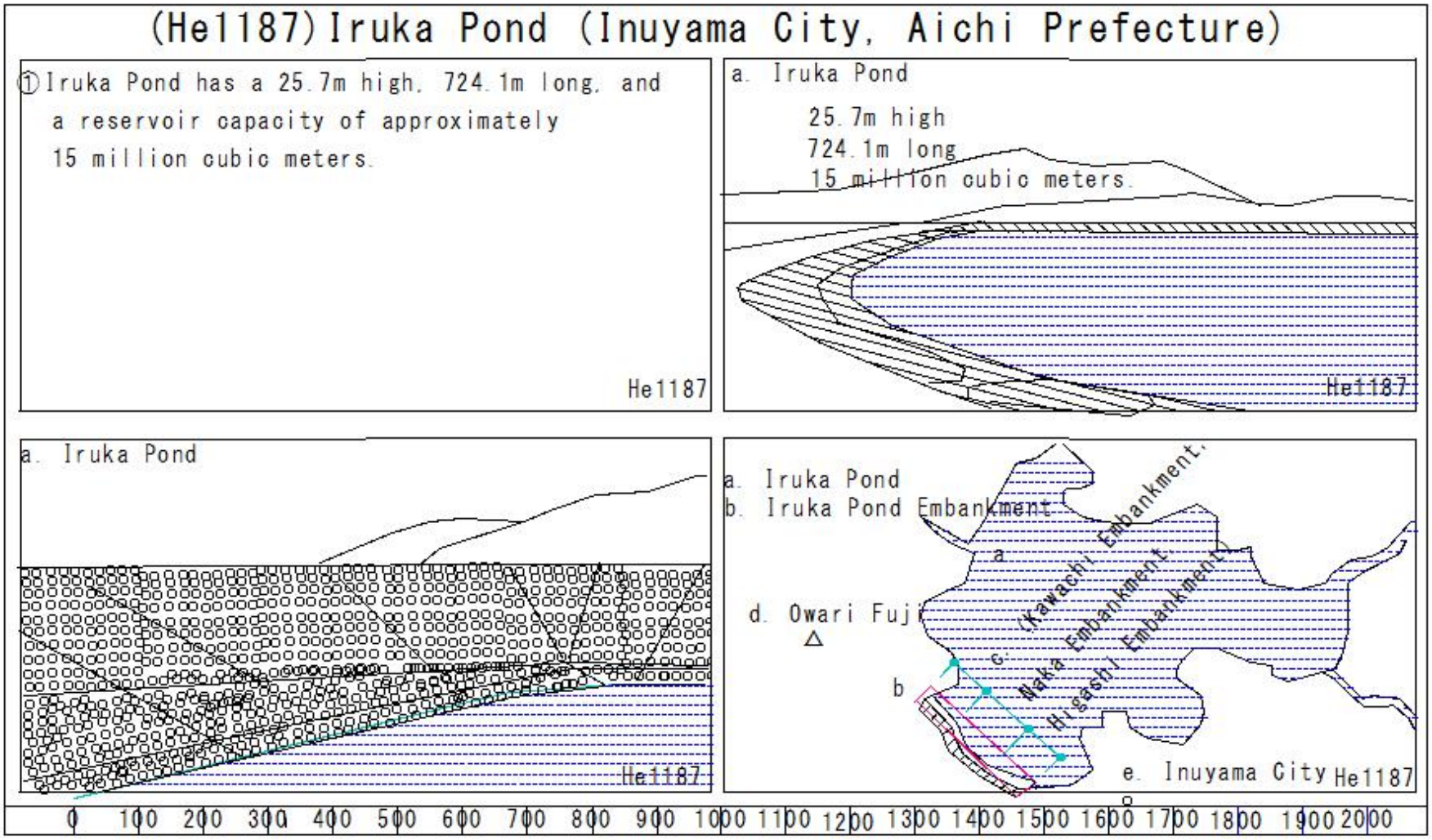
⑤After its construction in 1663, it was hit by numerous heavy rains and earthquakes, including the Iruka Cut, which killed 1,000 people. However, thanks to local efforts, it was restored.

⑥During the Tokai Heavy Rains of 1949, it served as a reservoir, contributing to preventing disasters downstream.

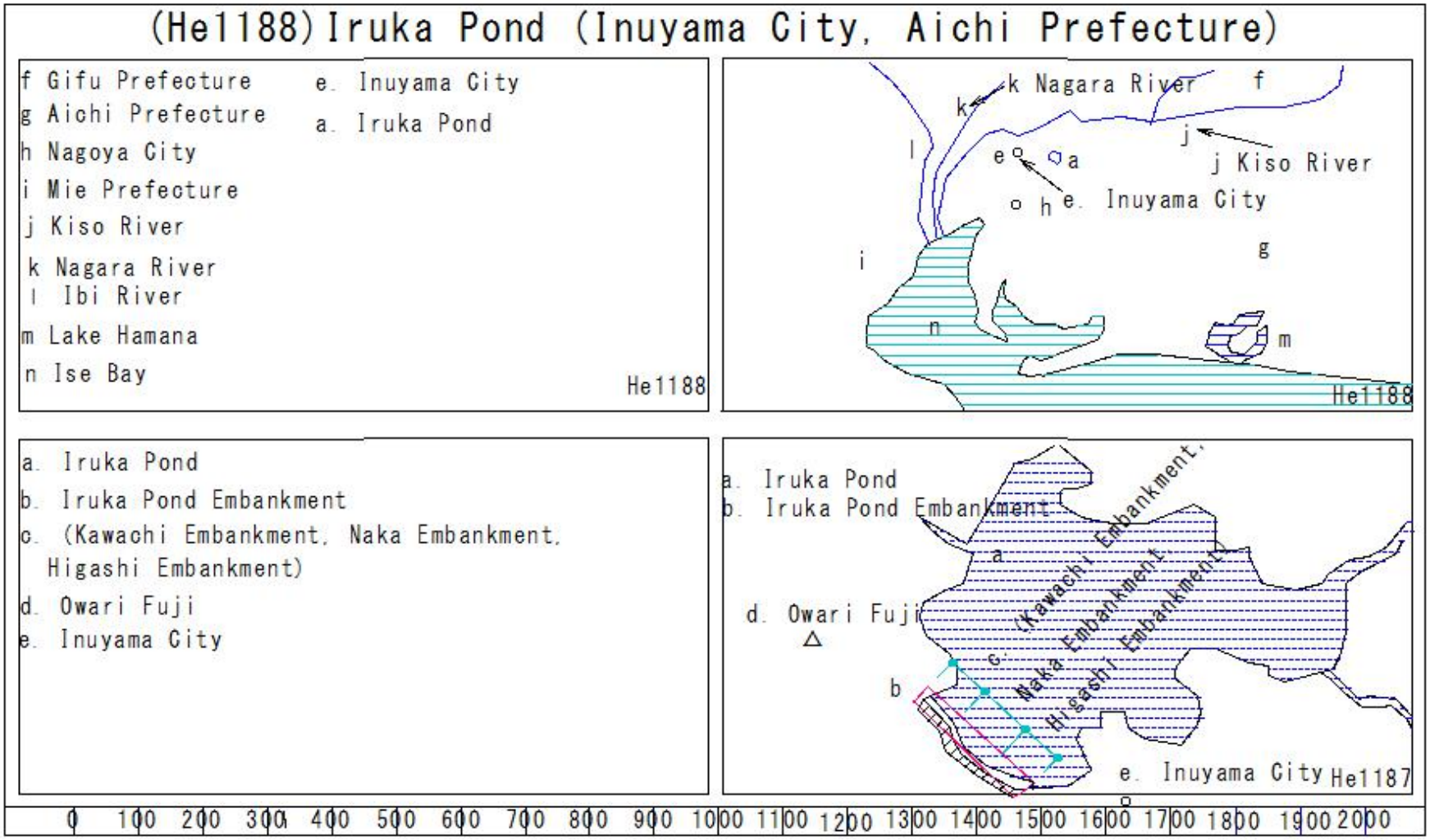


0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000

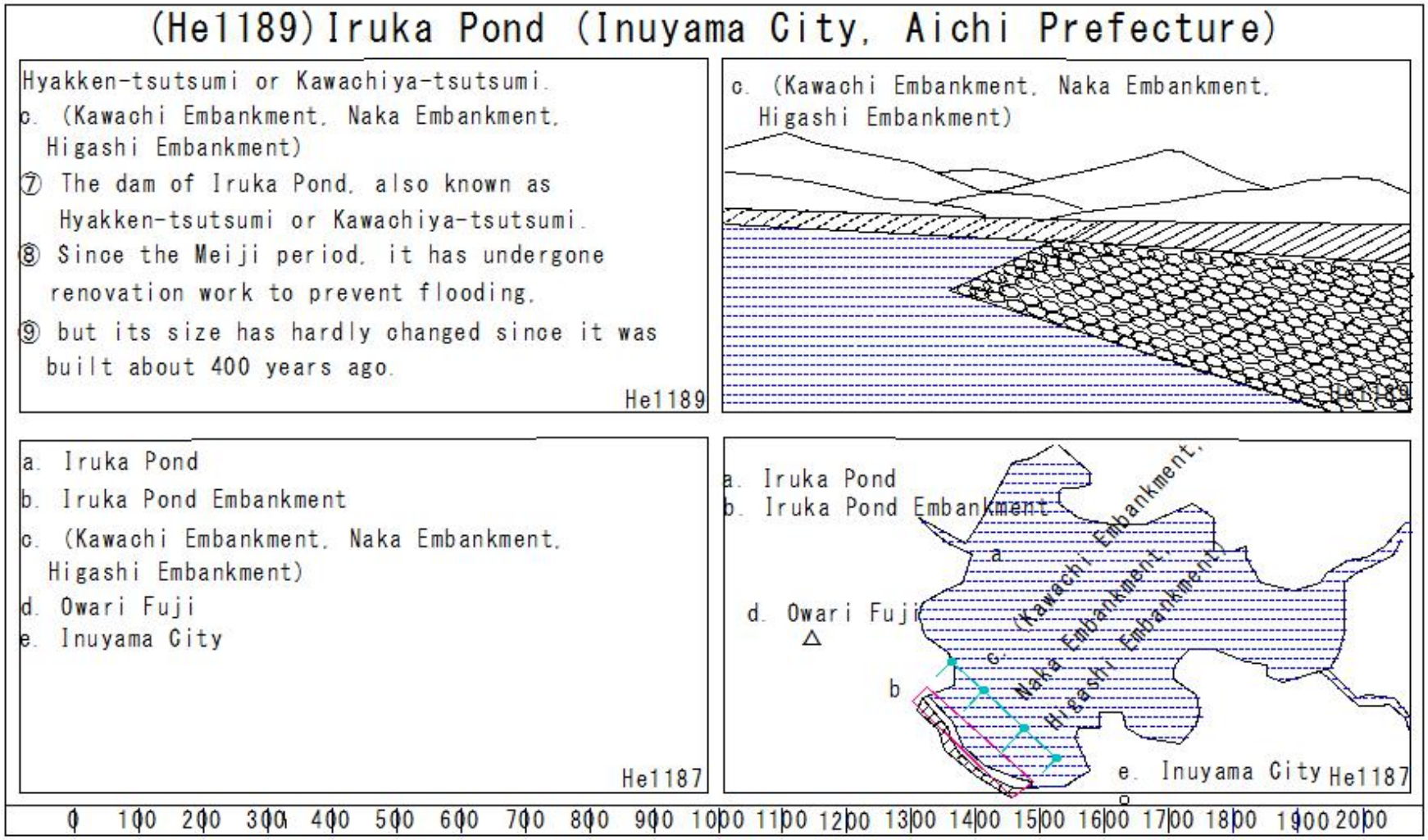
(He1187)Iruka Pond (Inuyama City, Aichi Prefecture)



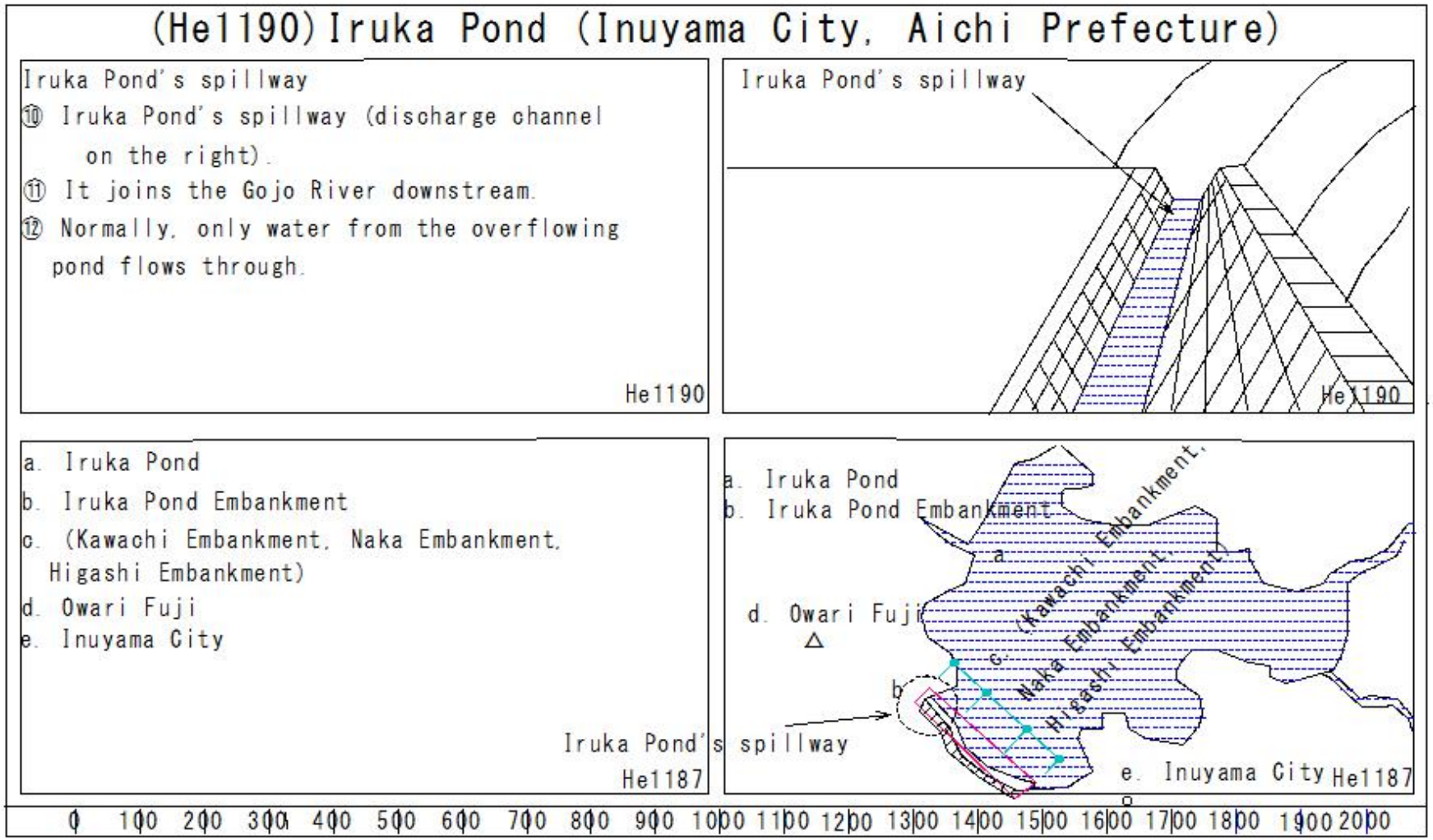
(He1188)Iruka Pond (Inuyama City, Aichi Prefecture)



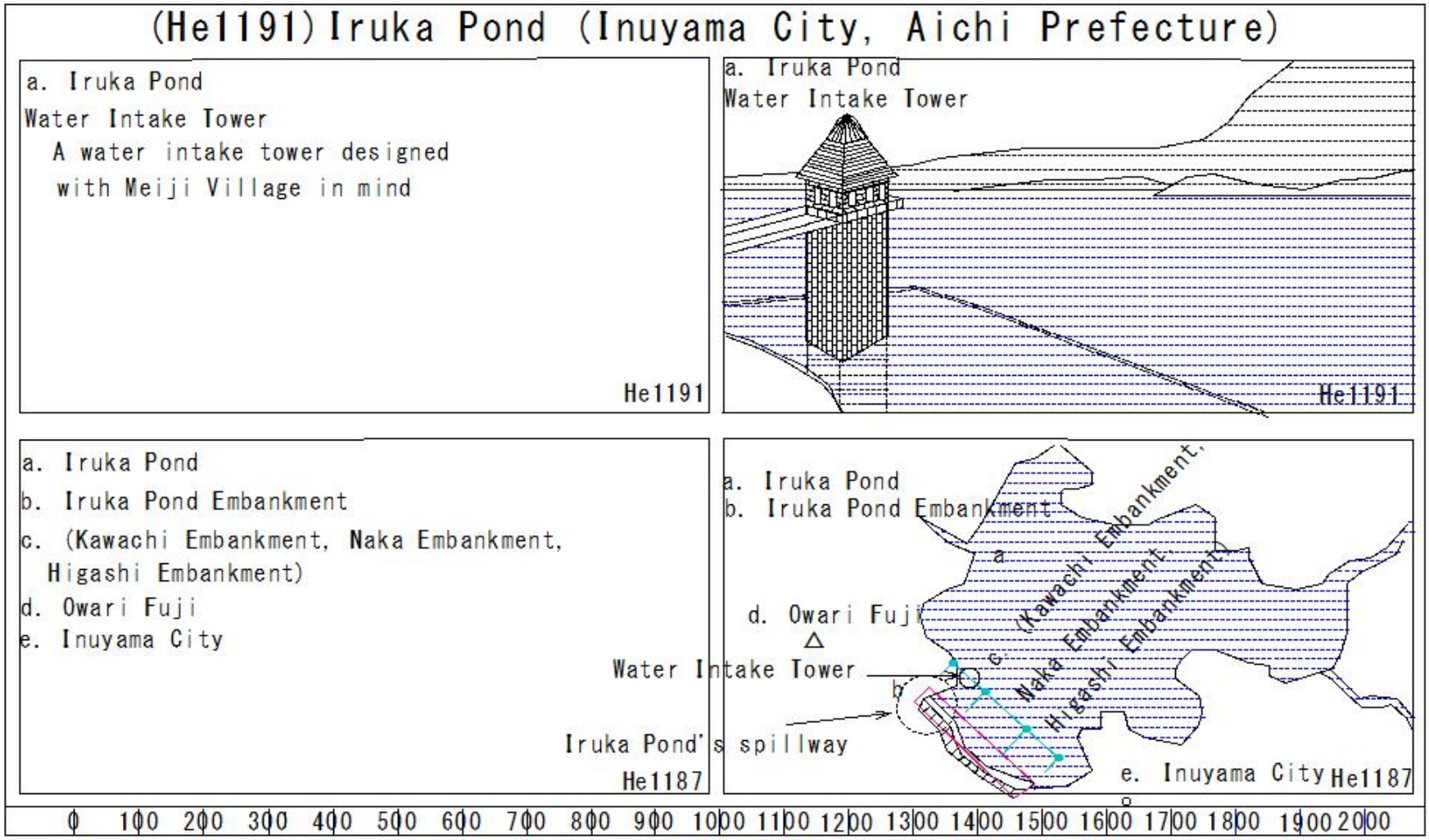
(He1189)Iruka Pond (Inuyama City, Aichi Prefecture)



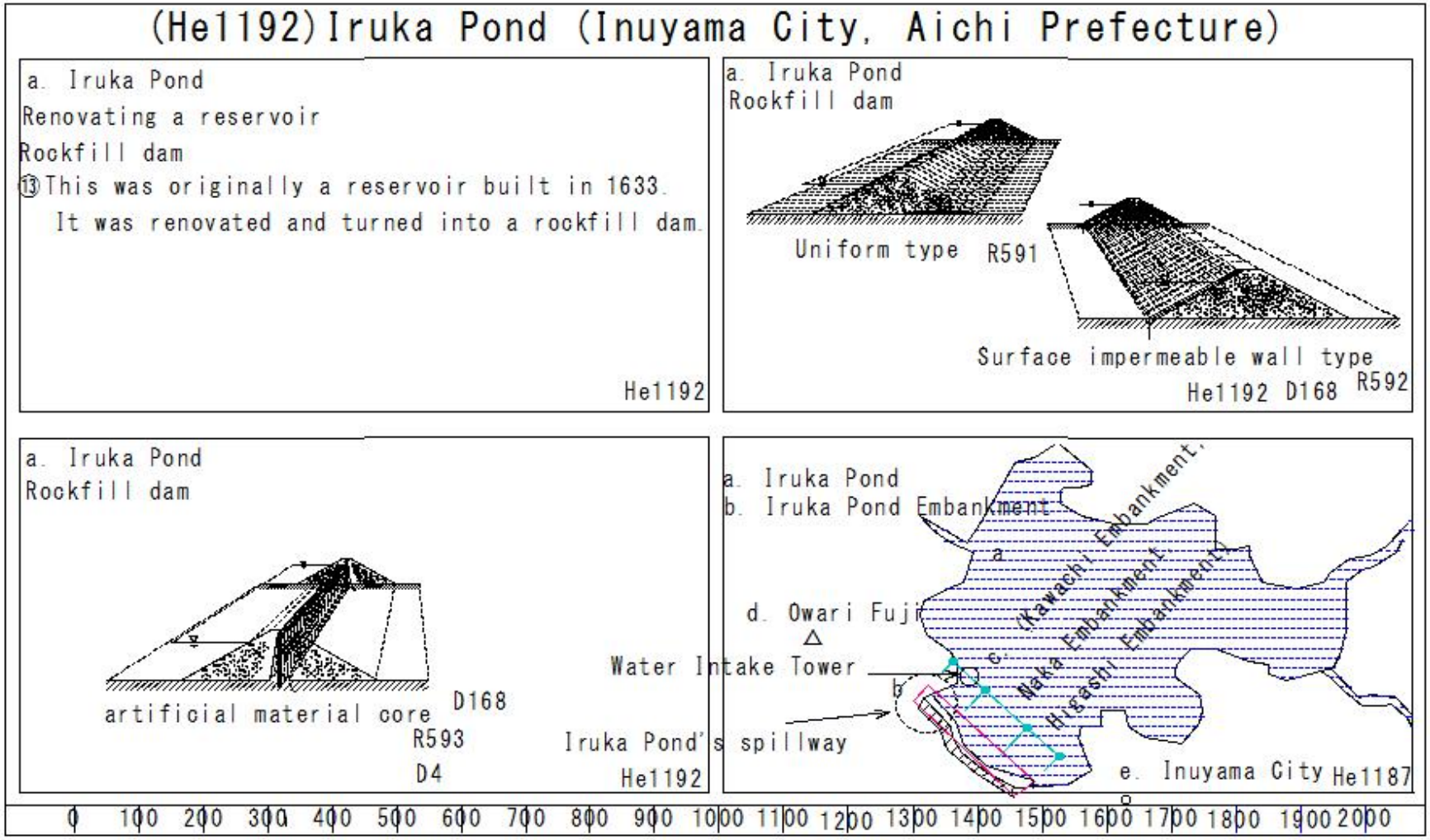
(He1190)Iruka Pond (Inuyama City, Aichi Prefecture)



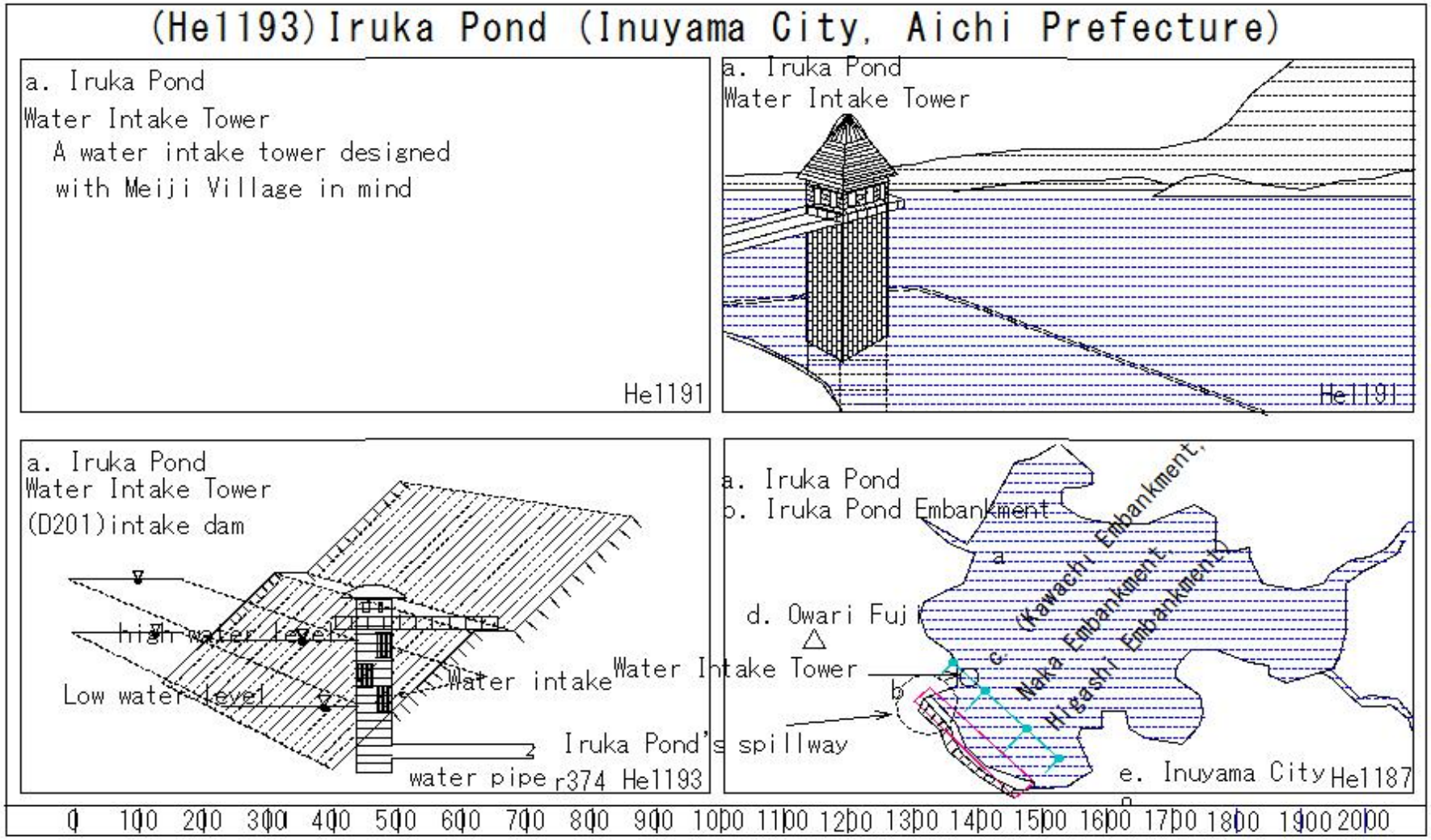
(He1191)Iruka Pond (Inuyama City, Aichi Prefecture)



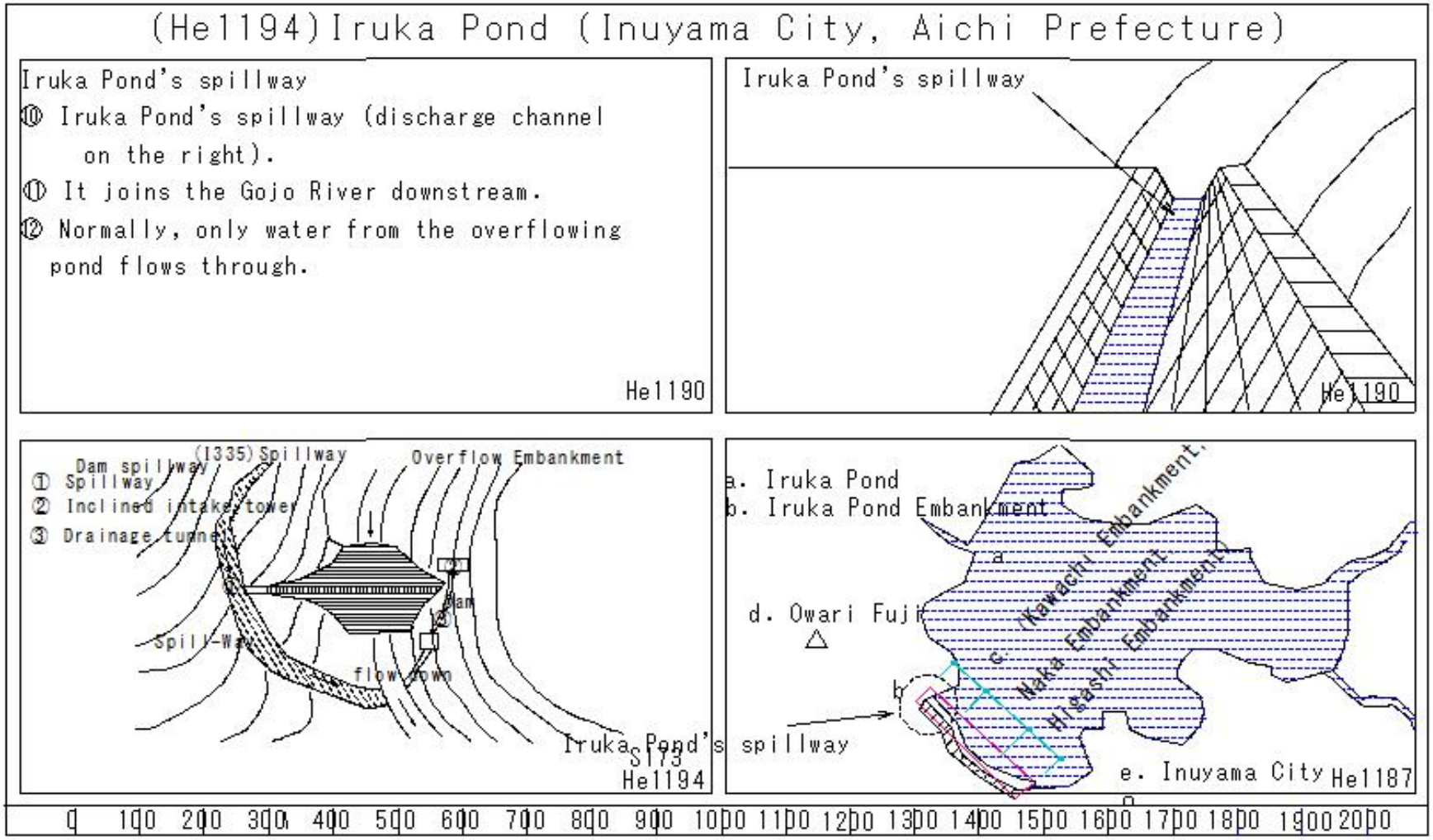
(He1192)Iruka Pond (Inuyama City, Aichi Prefecture)



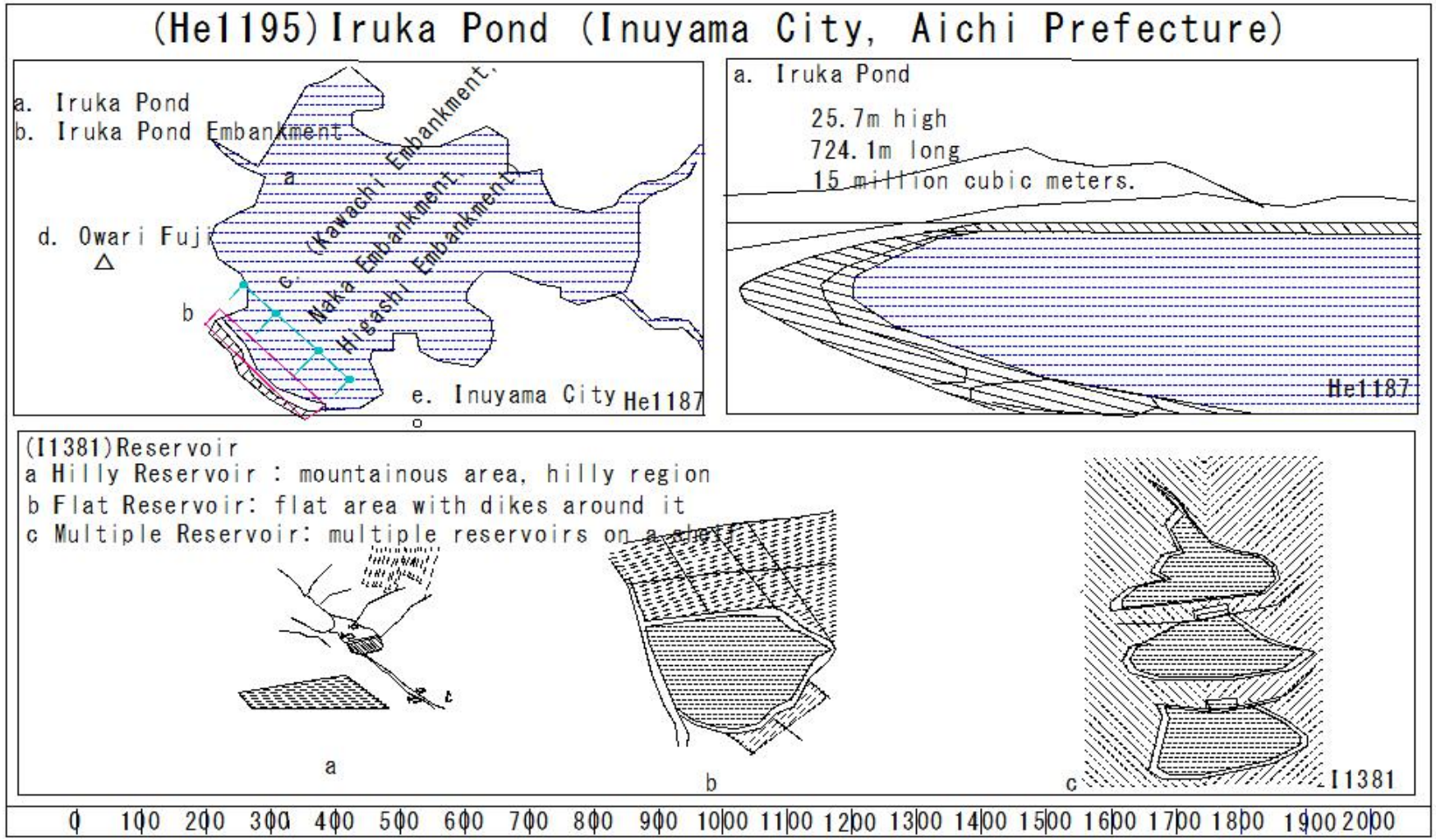
(He1193)Iruka Pond (Inuyama City, Aichi Prefecture)



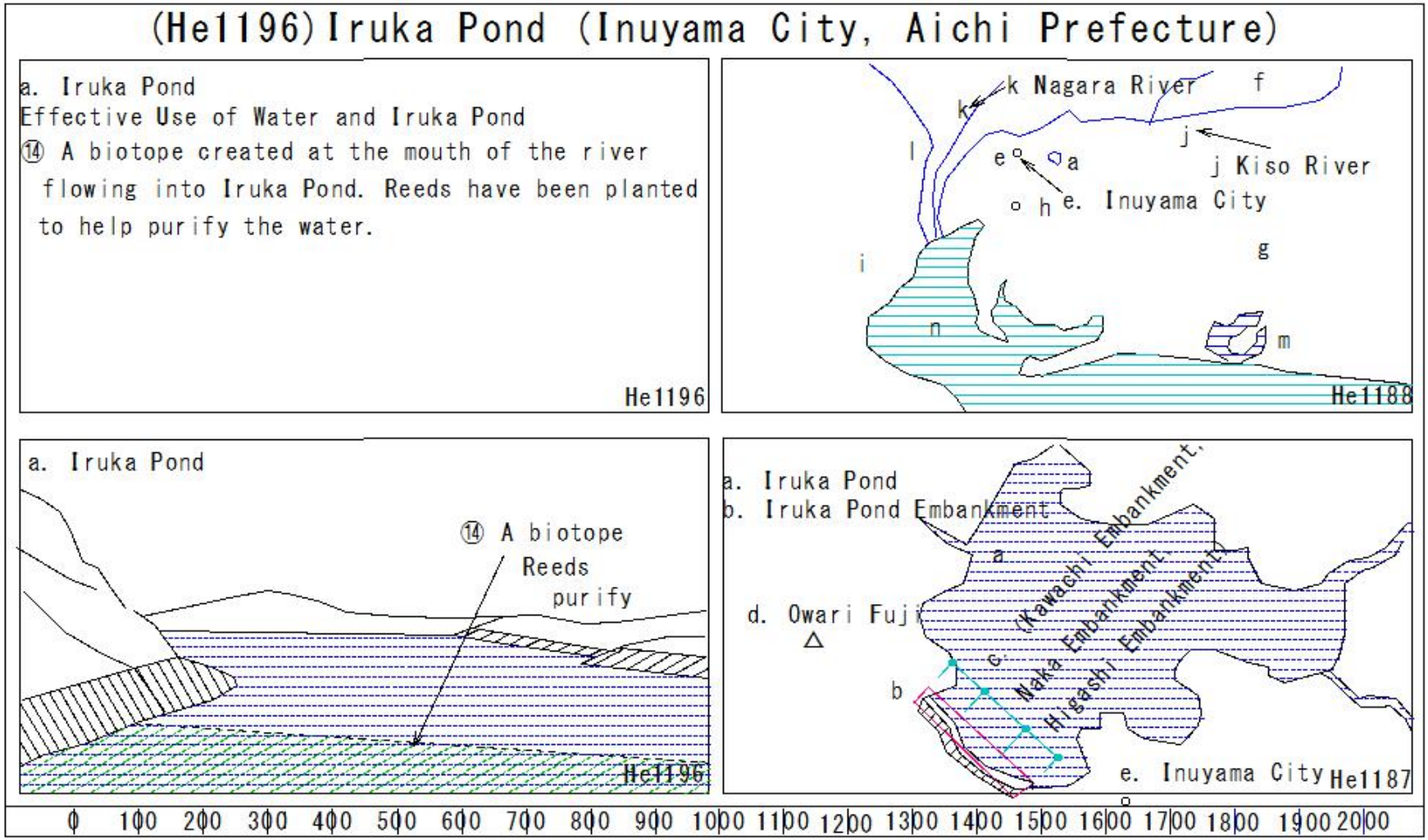
(He1194)Iruka Pond (Inuyama City, Aichi Prefecture)



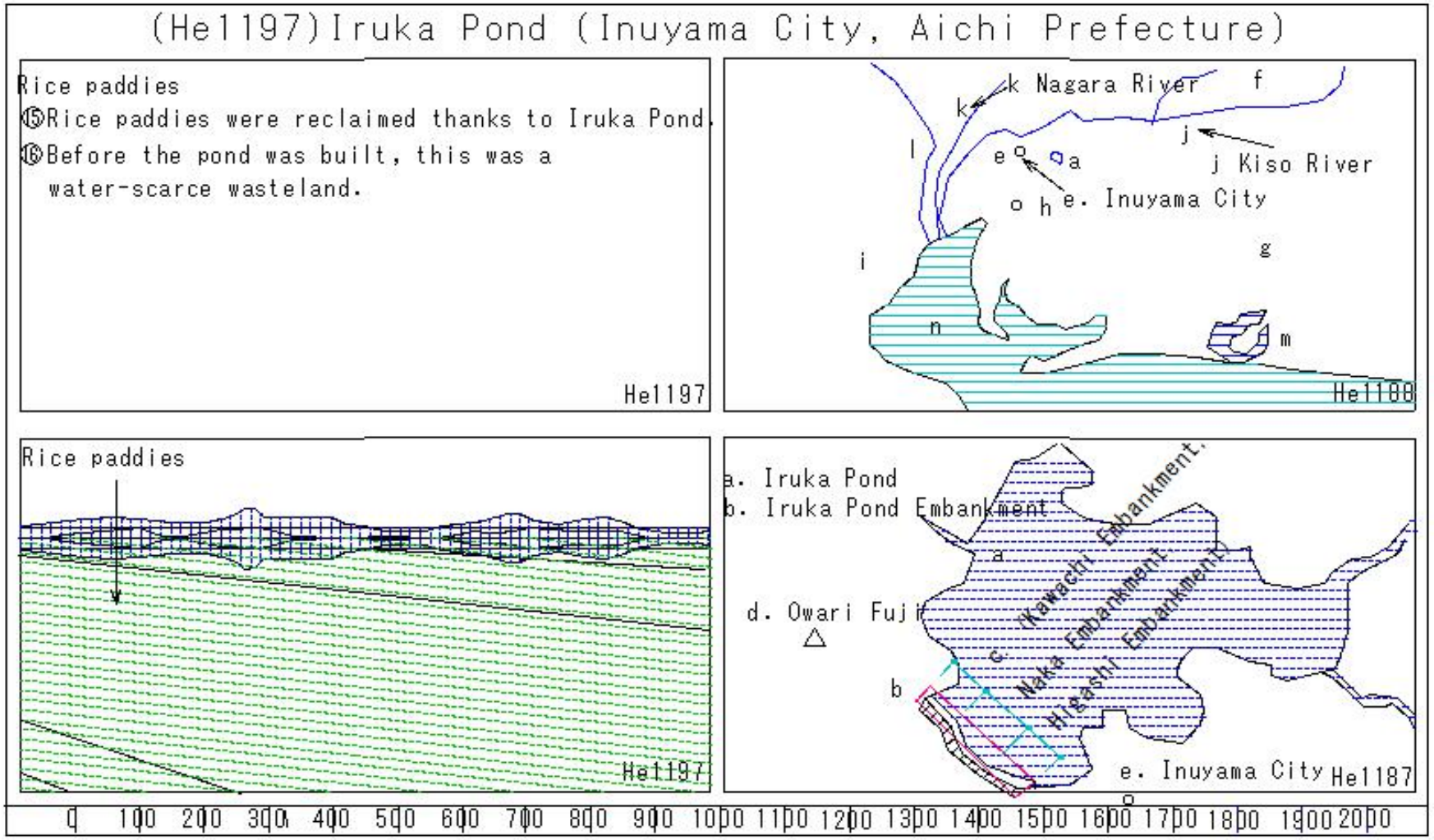
(He1195)Iruka Pond (Inuyama City, Aichi Prefecture)



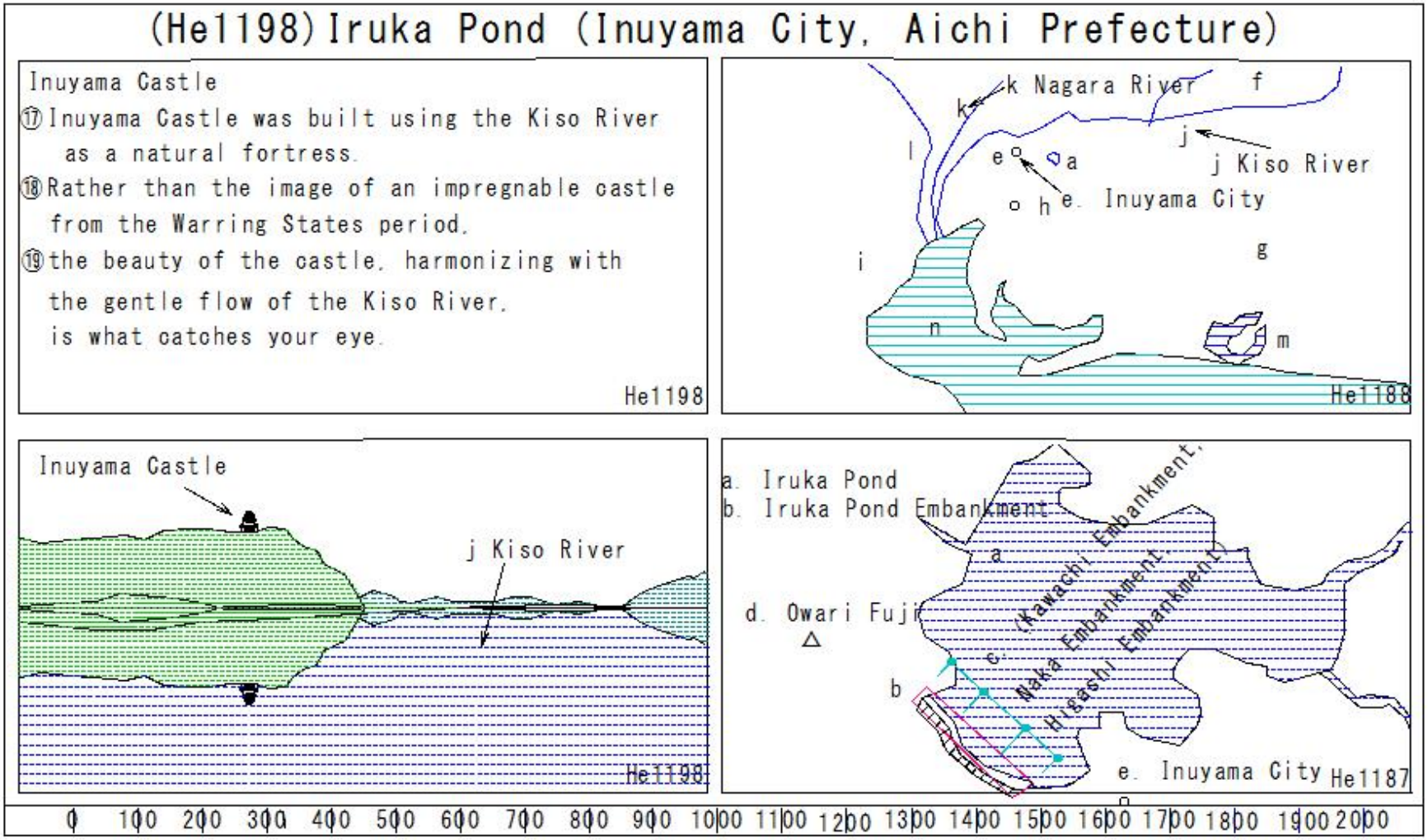
(He1196)Iruka Pond (Inuyama City, Aichi Prefecture)



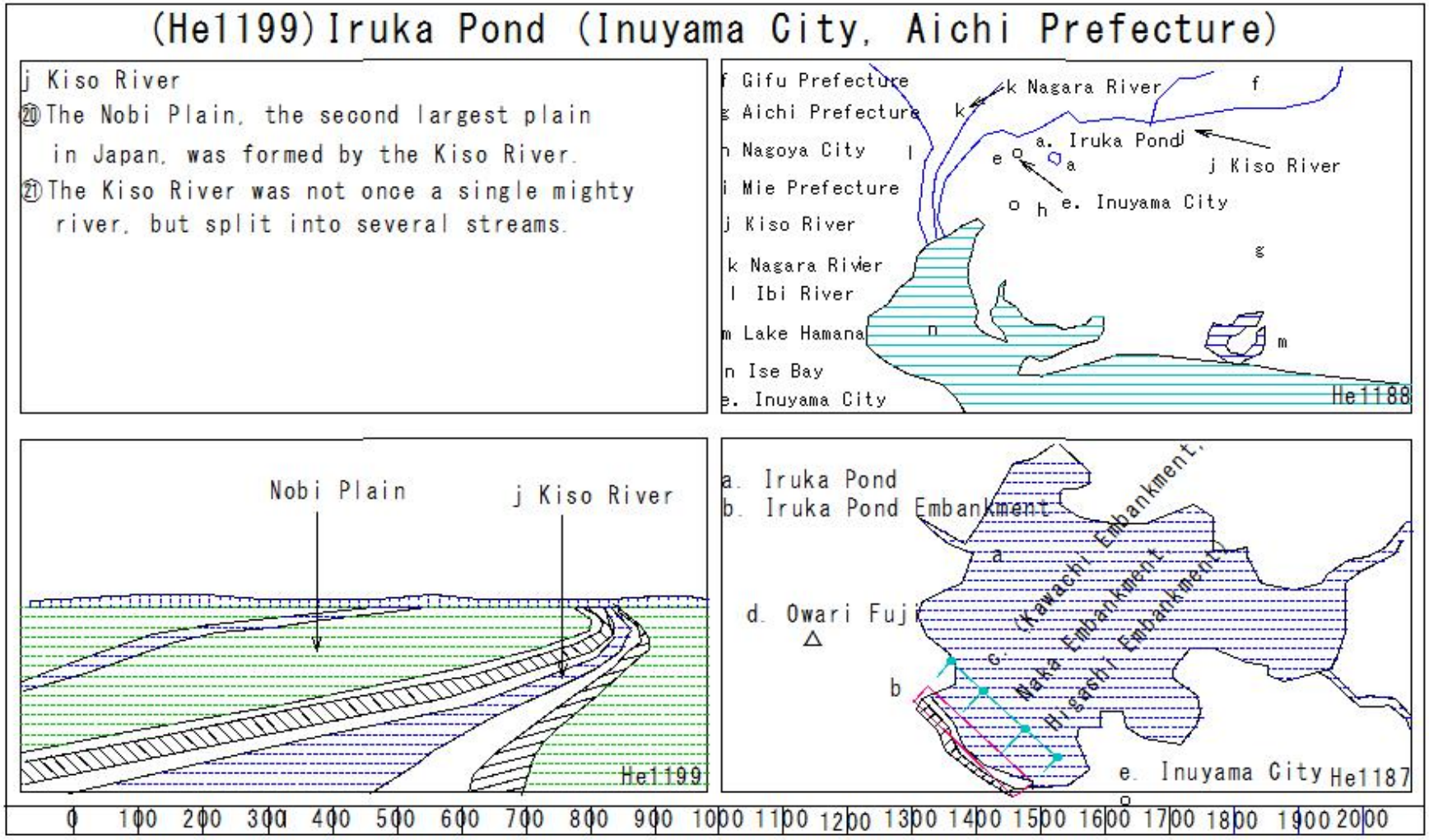
(He1197)Iruka Pond (Inuyama City, Aichi Prefecture)



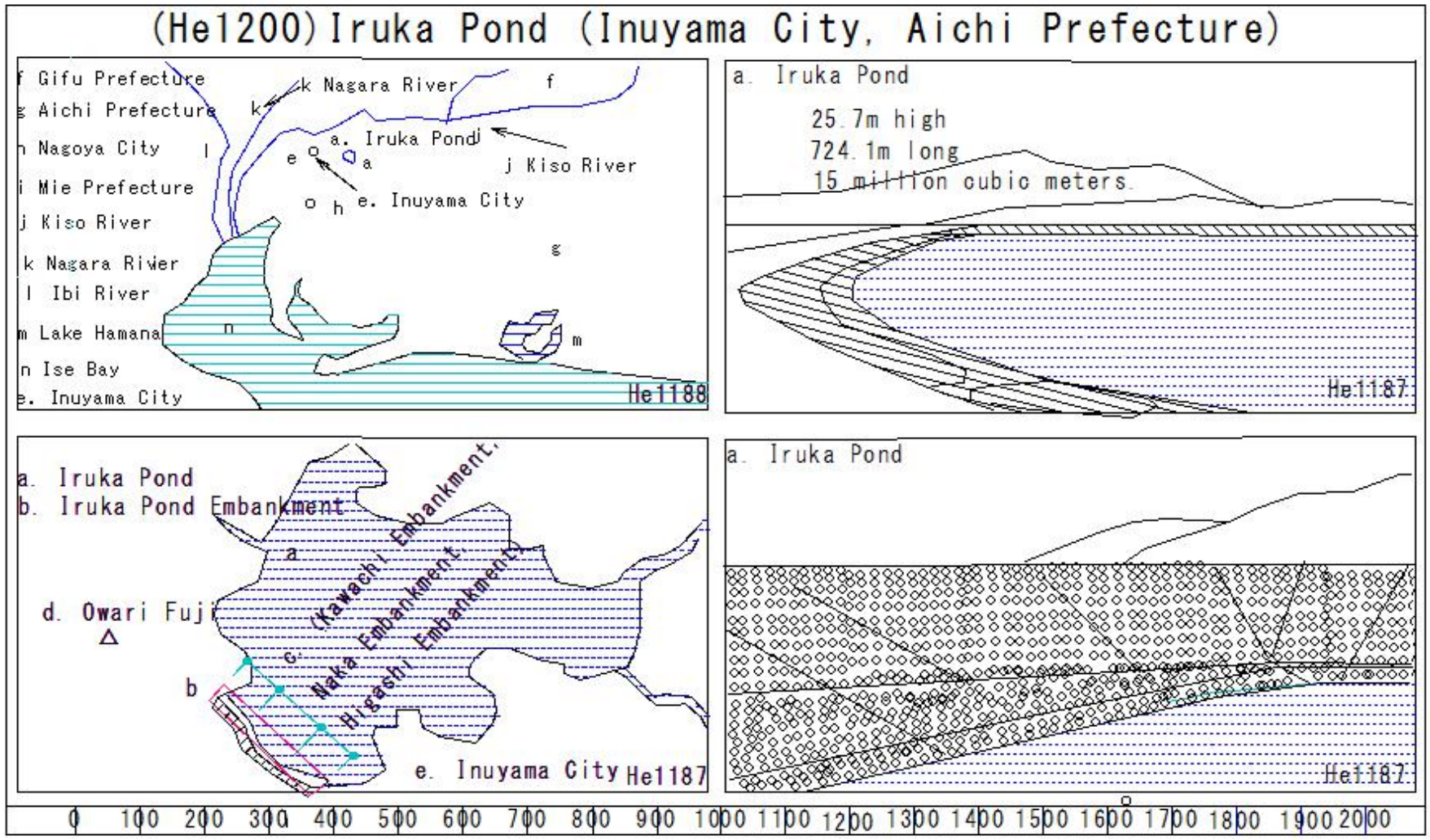
(He1198)Iruka Pond (Inuyama City, Aichi Prefecture)



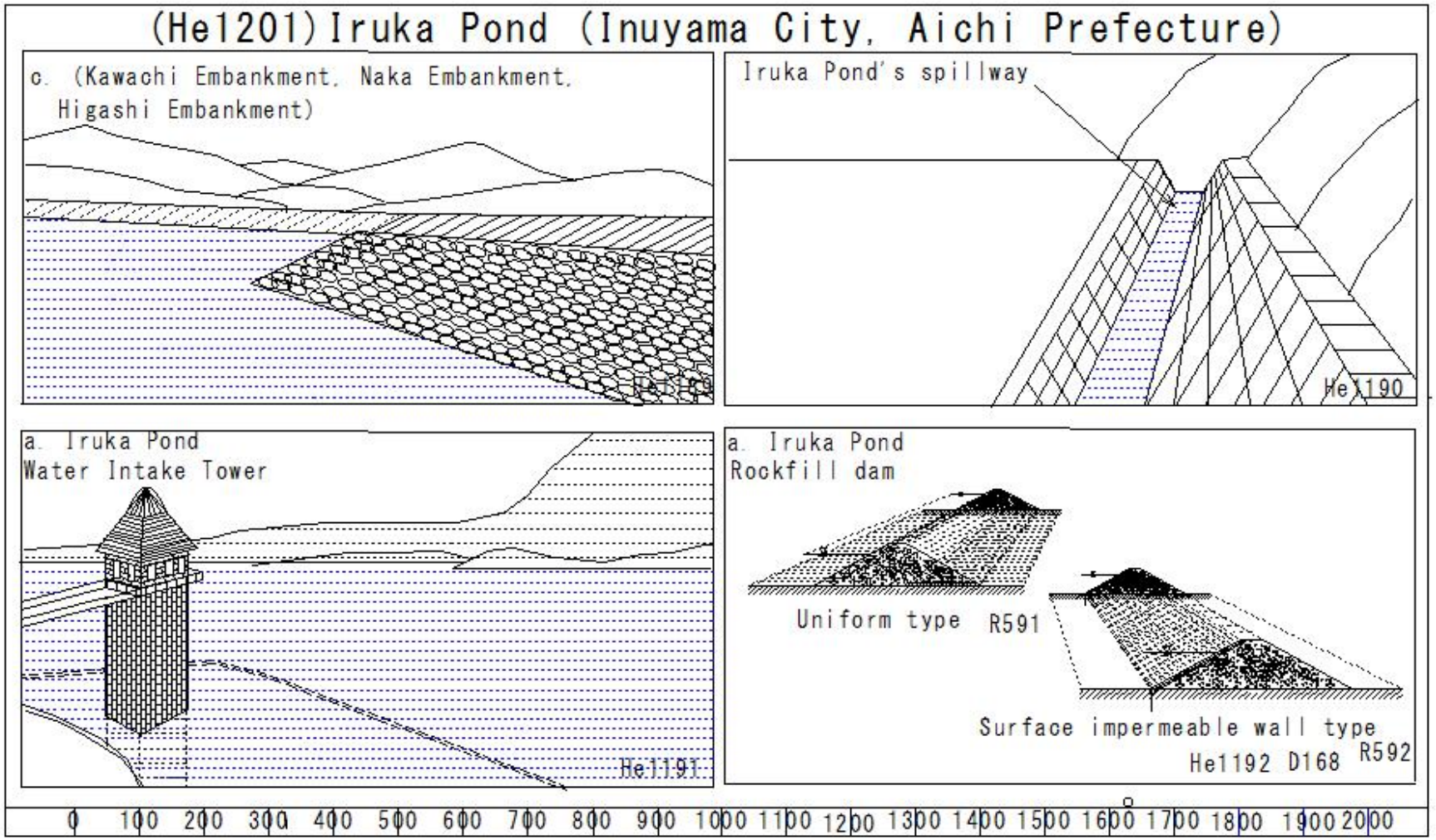
(He1199)Iruka Pond (Inuyama City, Aichi Prefecture)



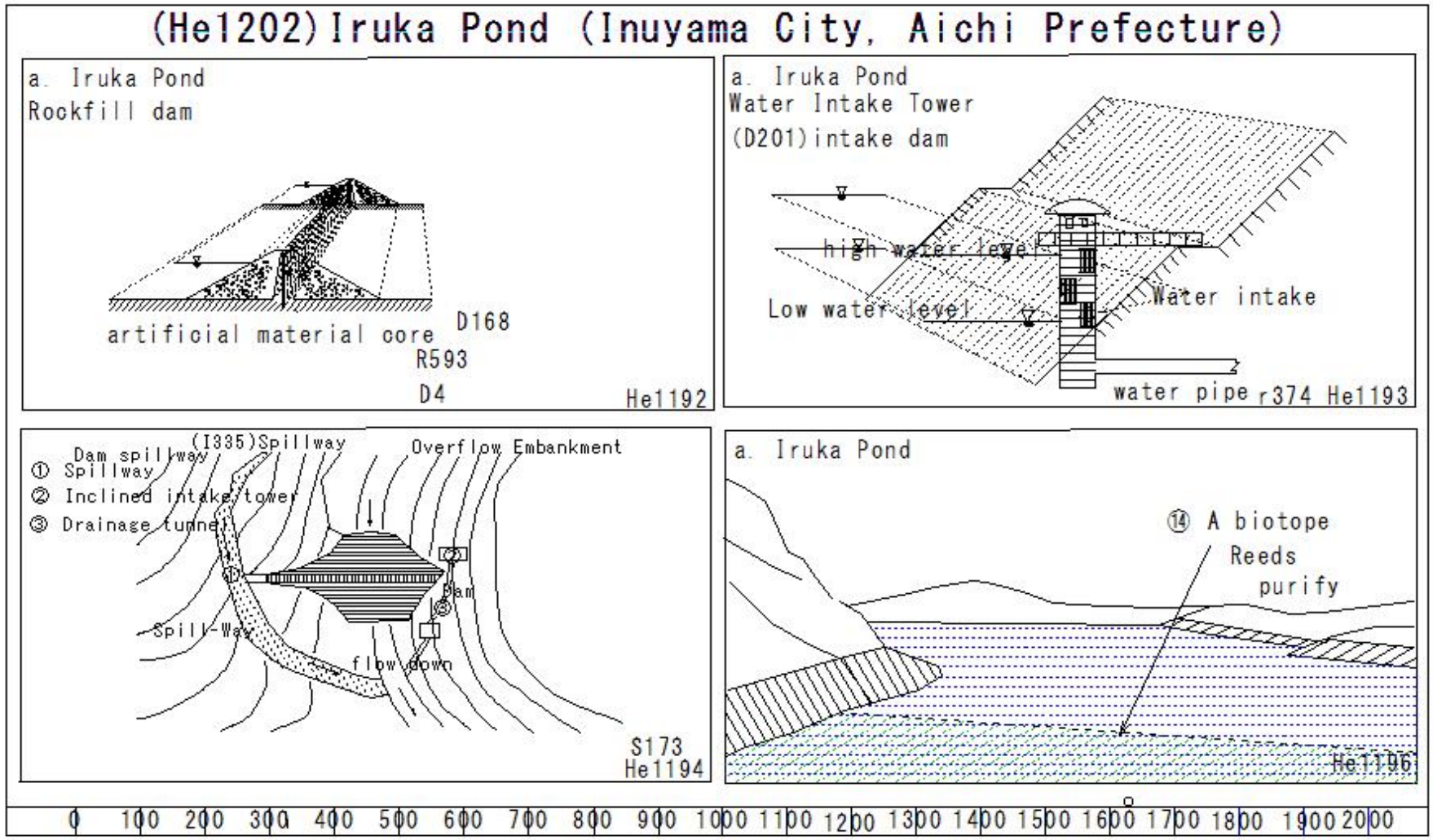
(He1200)Iruka Pond (Inuyama City, Aichi Prefecture)



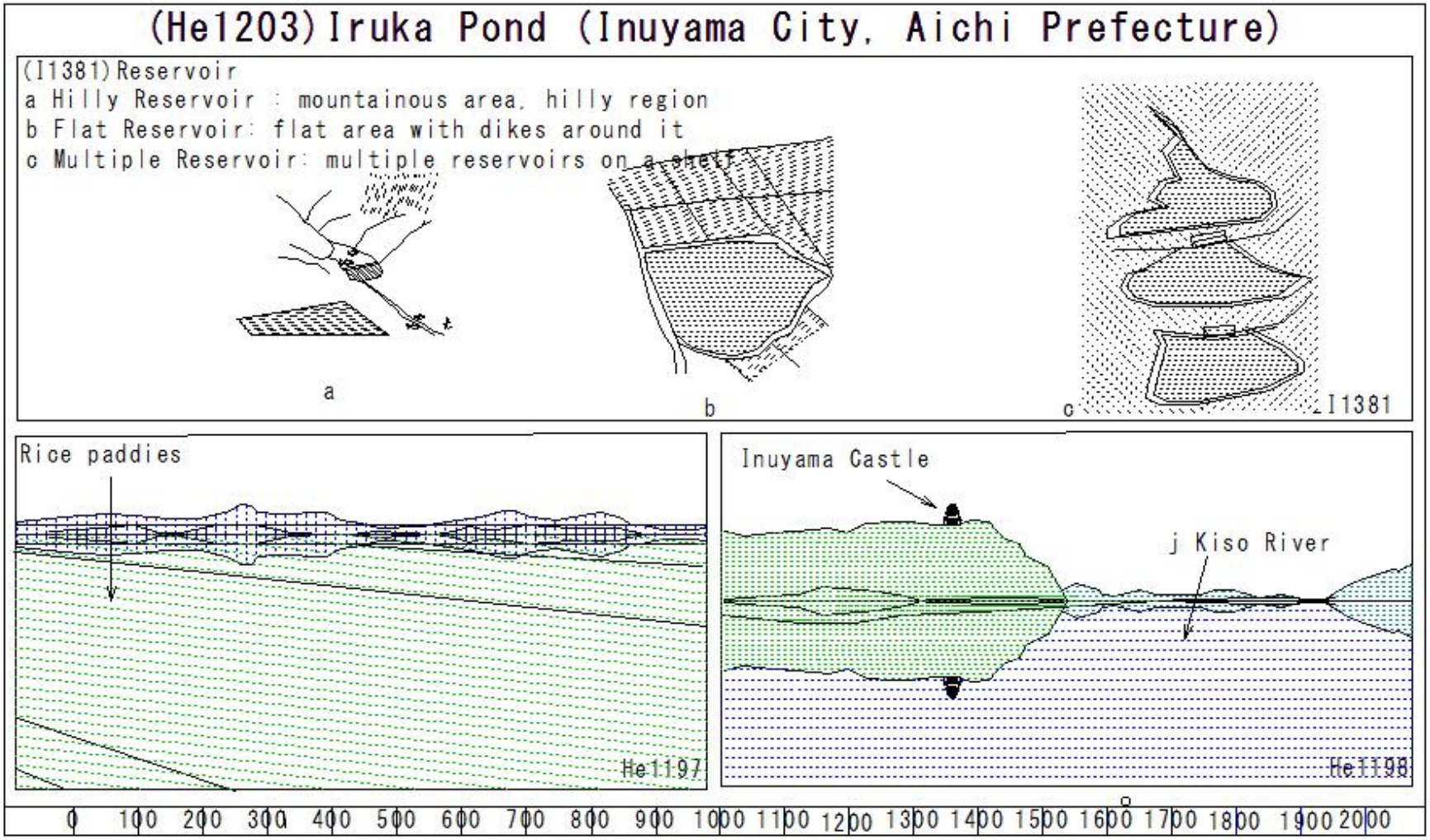
(He1201)Iruka Pond (Inuyama City, Aichi Prefecture)



(He1202)Iruka Pond (Inuyama City, Aichi Prefecture)



(He1203)Iruka Pond (Inuyama City, Aichi Prefecture)



(He1204)Iruka Pond (Inuyama City, Aichi Prefecture)