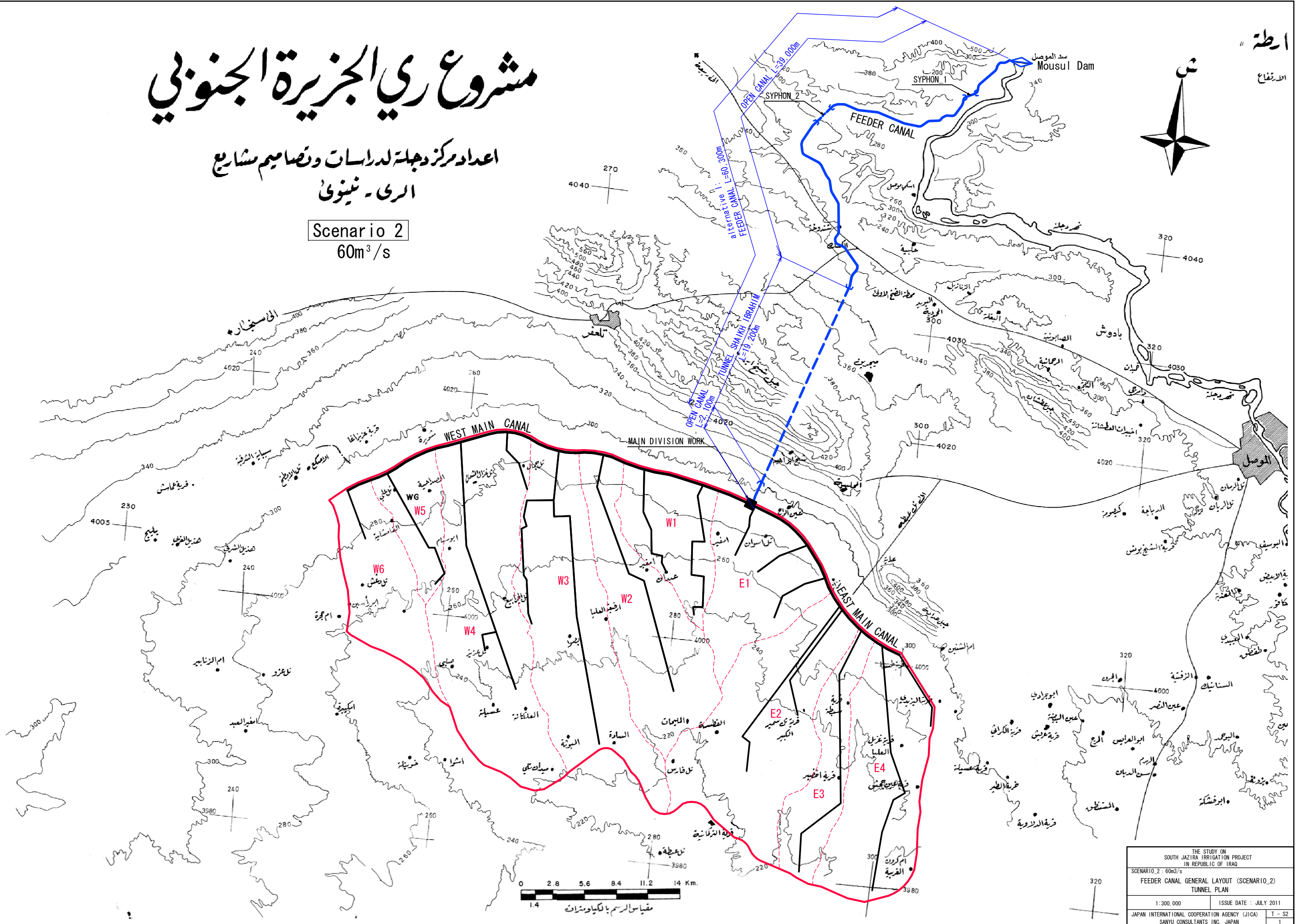
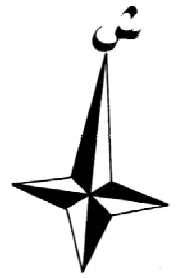


مشروع الري الجزيرة الجنوبي

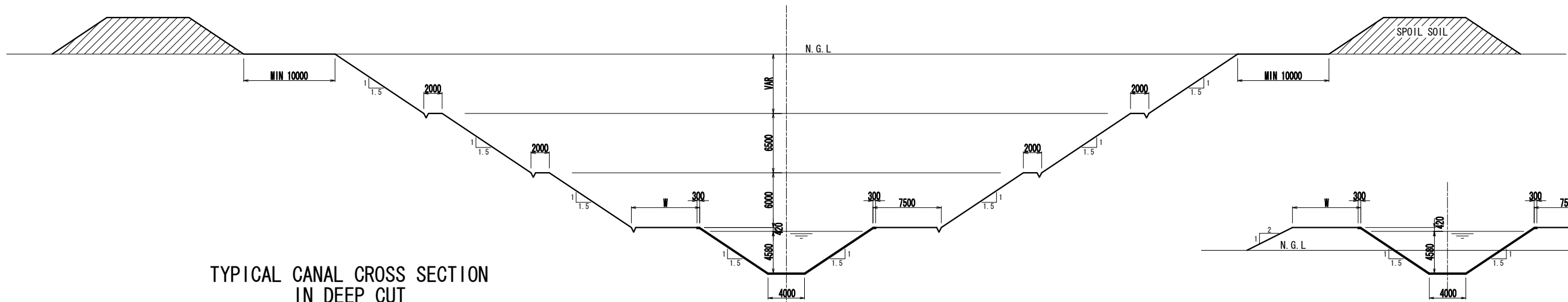
اعداد مركز دجلة لدراسات وتصاميم مشاريع
الري - نينوى

Scenario 2
60m³/s

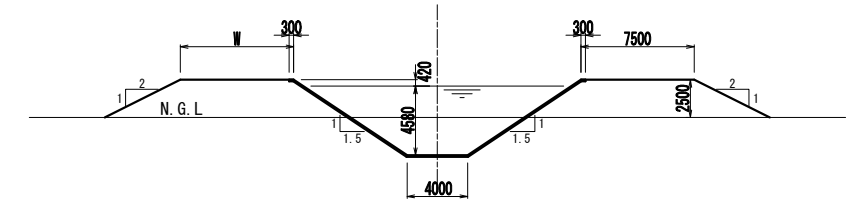
ارطة
الارتفاع



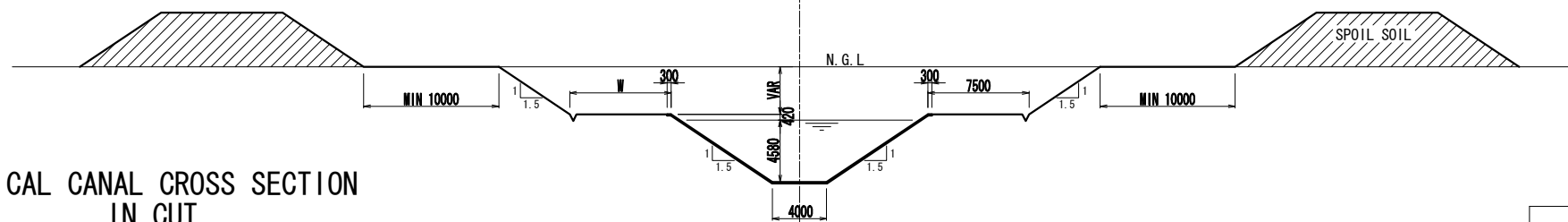
THE STUDY ON SOUTH JAZIRA IRRIGATION PROJECT IN REPUBLIC OF IRAQ	
SCENARIO 2 : 60m ³ /s	
FEEDER CANAL GENERAL LAYOUT (SCENARIO 2) TUNNEL PLAN	
1:300,000	ISSUE DATE : JULY 2011
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	T - S2
SANYU CONSULTANTS INC. JAPAN	1



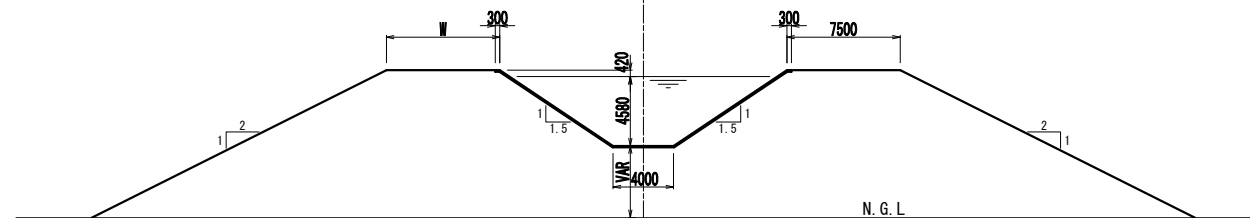
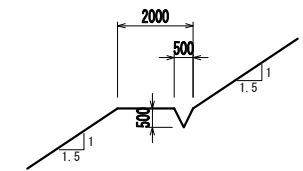
TYPICAL CANAL CROSS SECTION
IN DEEP CUT



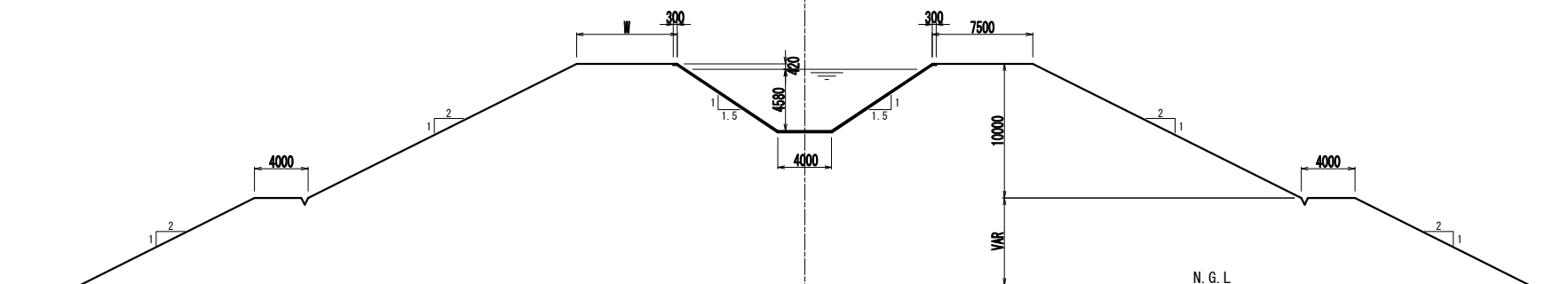
TYPICAL CANAL CROSS SECTION
IN CUT & FILL



TYPICAL CANAL CROSS SECTION
IN CUT



TYPICAL CANAL CROSS SECTION
IN FILL



TYPICAL CANAL CROSS SECTION
IN HIGH FILL

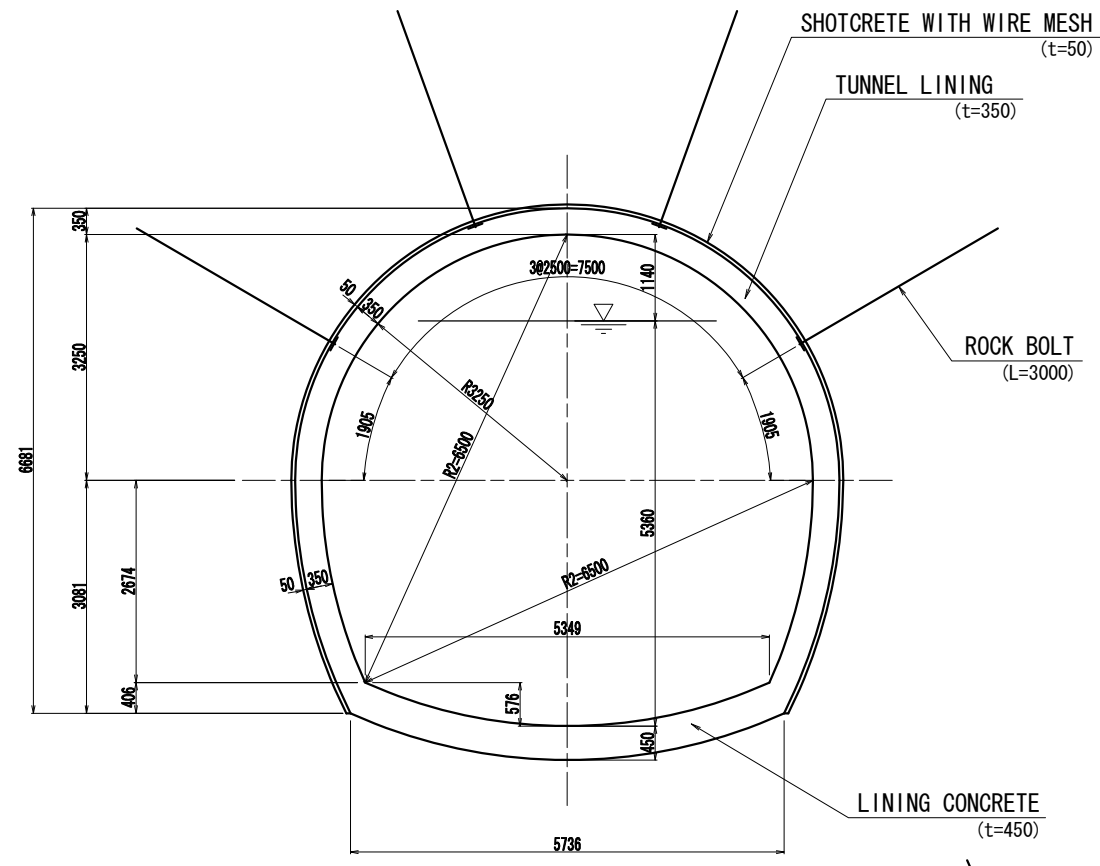
TYPE	HYDRAULIC DATA					GEOMETRICAL DATA		
	Q m ³ /sec	S m/m	n	V m/sec	F	B m	h m	C.LINED FREE BOARD
SCENARIO 2	60	0.0001	0.015	1.204	0.18	4.00	4.58	0.42

S: SLOPE OF BOTTOM OF CANALS
n: MANNING COEFFICIENT
F: FROUDE NUMBER

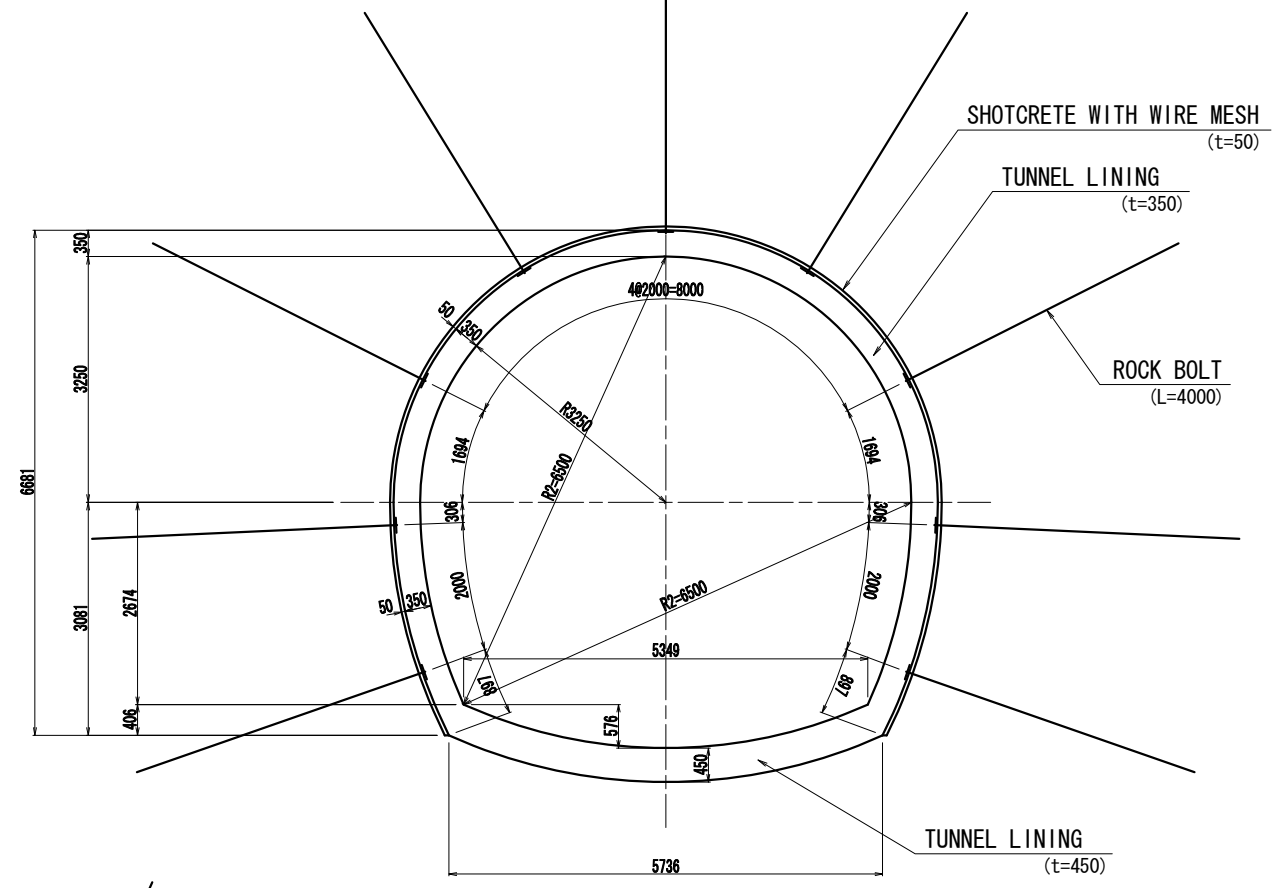
V: DESIGN VELOCITY
Q: DESIGN DISCHARGE
W: WIDTH OF ROAD

TYPICAL TUNNEL

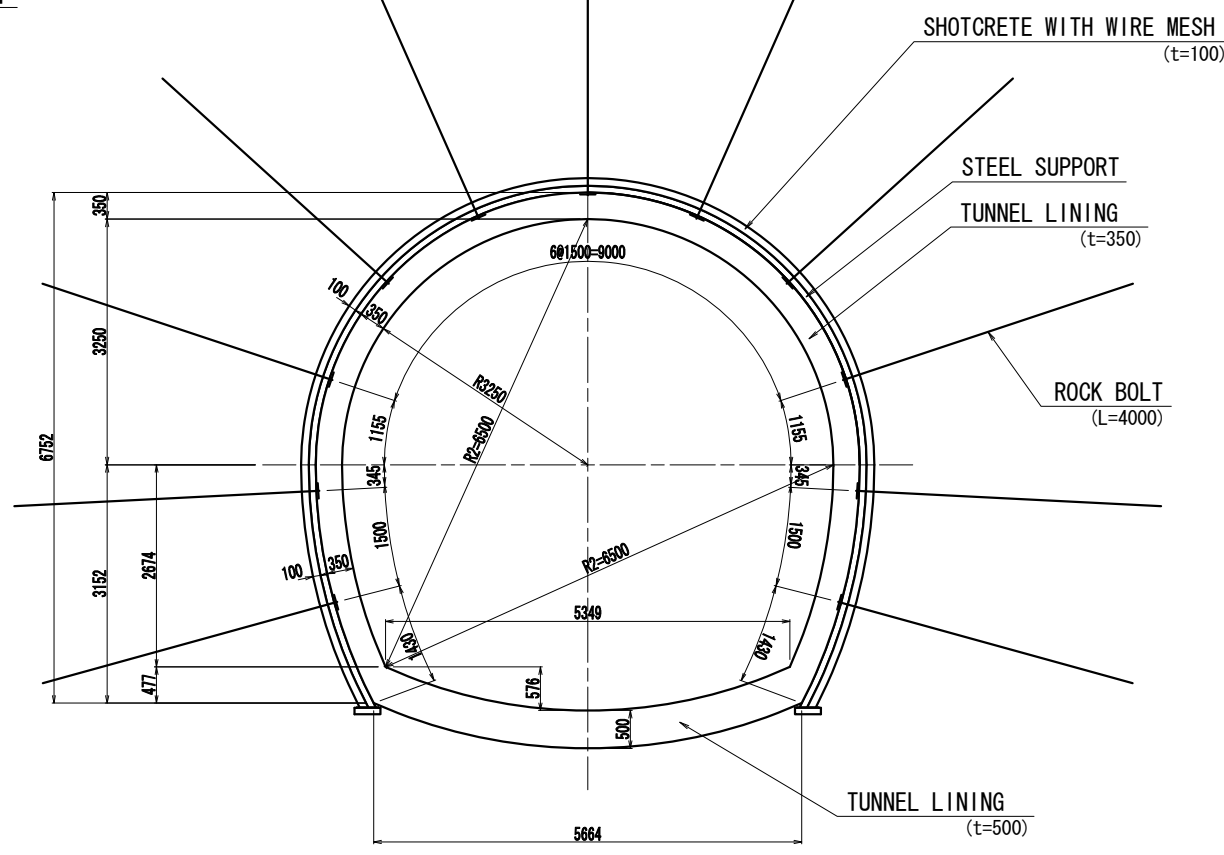
SCALE 1:50



TYPE 1

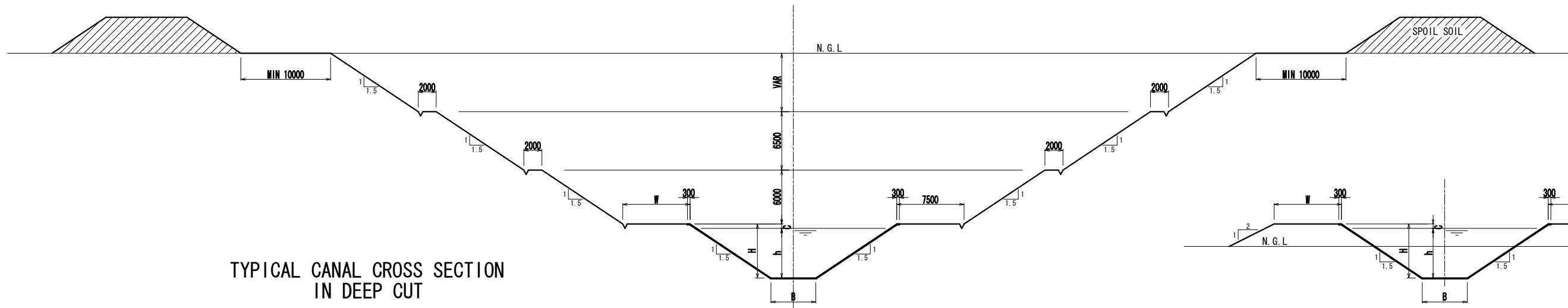


TYPE 2

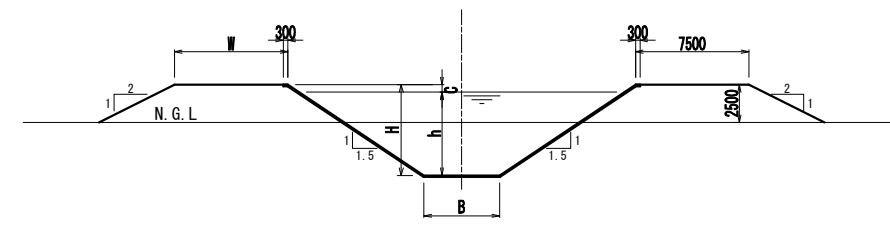


TYPE 3

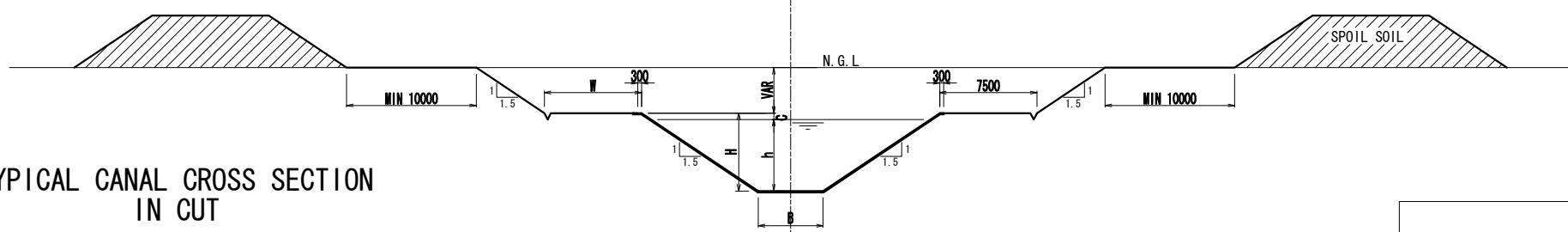
THE STUDY ON SOUTH JAZIRA IRRIGATION PROJECT IN REPUBLIC OF IRAQ	
SCENARIO 2 : 60m ³ /s FEEDER CANAL TYPICAL CROSS SECTIONS (TUNNEL)	
SCALE 1 : 50	ISSUE DATE : JULY 2011
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	T - S2
SANYU CONSULTANTS INC. JAPAN	13



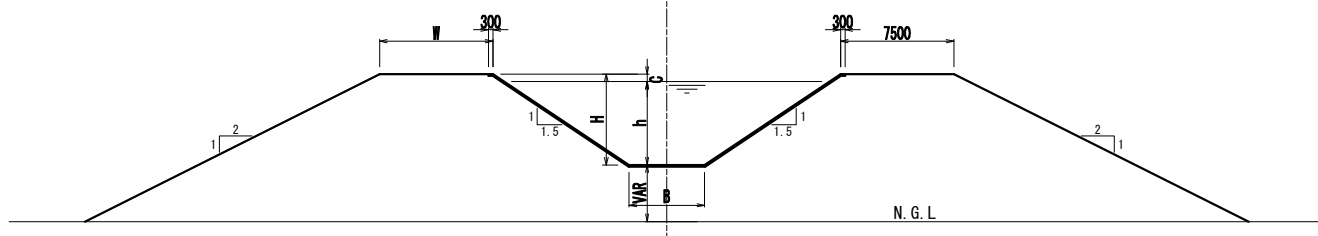
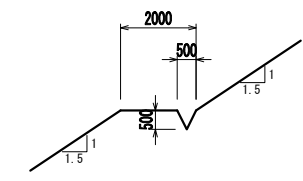
TYPICAL CANAL CROSS SECTION
IN DEEP CUT



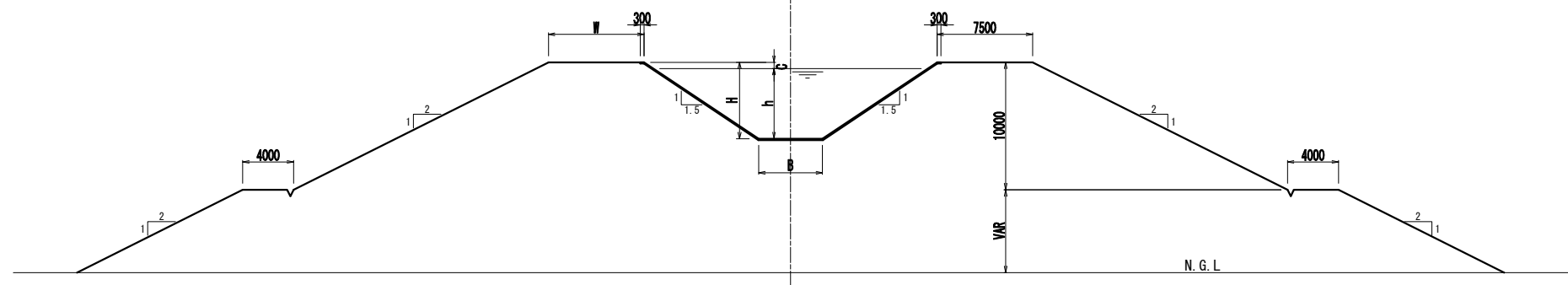
TYPICAL CANAL CROSS SECTION
IN CUT & FILL



TYPICAL CANAL CROSS SECTION
IN CUT



TYPICAL CANAL CROSS SECTION
IN FILL

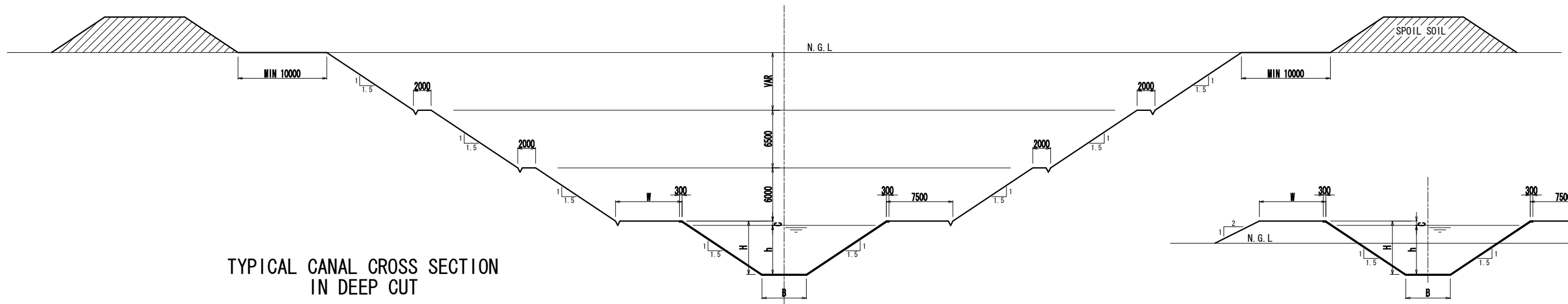


TYPICAL CANAL CROSS SECTION
IN HIGH FILL

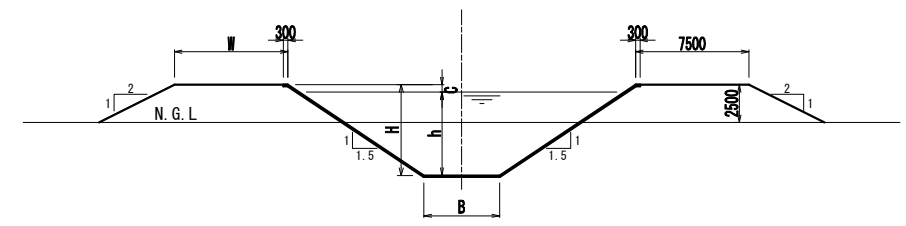
TYPE	HYDRAULIC DATA					GEOMETRICAL DATA				
	Q m ³ /sec	S m/m	n	V m/sec	F	B m	h m	C.LINED FREE BOARD	H m	
EAST MAIN CANAL	EMC_01	23	0.0005	0.015	1.729	0.37	2.50	2.26	0.34	2.60
	EMC_02	19	0.0005	0.015	1.647	0.37	2.50	2.06	0.34	2.40
	EMC_03	11	0.0005	0.015	1.431	0.36	2.40	1.60	0.30	1.90
	EMC_04	8	0.0005	0.015	1.328	0.34	1.70	1.52	0.28	1.80

S: SLOPE OF BOTTOM OF CANALS
n: MANNING COEFFICIENT
F: FROUDE NUMBER

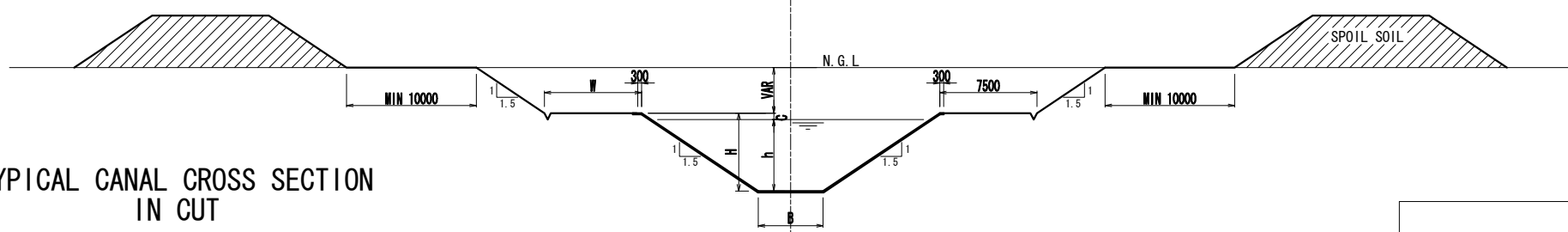
V: DESIGN VELOCITY
Q: DESIGN DISCHARGE
W: WIDTH OF ROAD



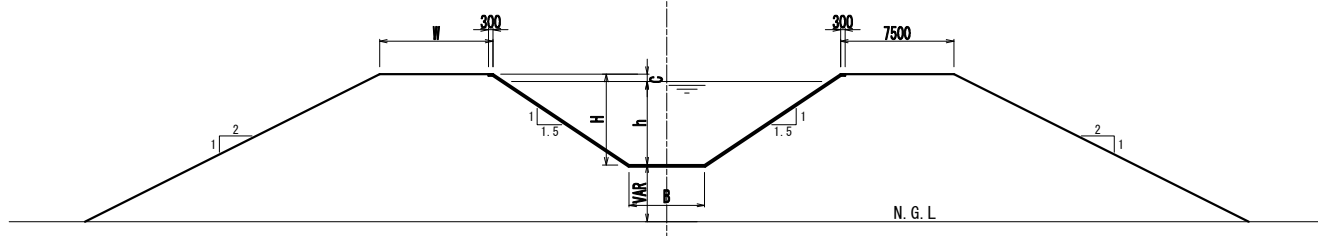
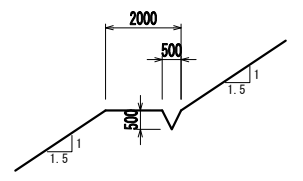
TYPICAL CANAL CROSS SECTION
IN DEEP CUT



TYPICAL CANAL CROSS SECTION
IN CUT & FILL



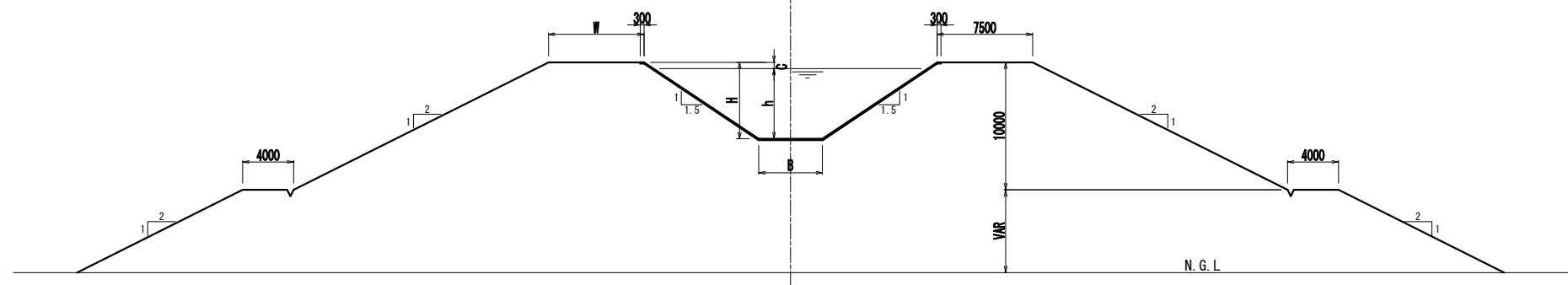
TYPICAL CANAL CROSS SECTION
IN CUT



TYPICAL CANAL CROSS SECTION
IN FILL

TYPE	HYDRAULIC DATA					GEOMETRICAL DATA			
	Q m ³ /sec	S m/m	n	V m/sec	F	B m	h m	C.LINED FREE BOARD	H m
WMC_01	36	0.00005	0.015	0.804	0.14	7.30	3.55	0.35	3.90
WMC_02	32	0.00005	0.015	0.782	0.13	6.70	3.45	0.35	3.80
WMC_03	26	0.00005	0.015	0.742	0.13	6.30	3.17	0.33	3.50
WMC_04	17	0.00005	0.015	0.664	0.13	6.00	2.59	0.31	2.90
WMC_05	7	0.00005	0.015	0.538	0.12	3.40	2.02	0.28	2.30
WMC_06	4	0.00005	0.015	0.470	0.11	2.30	1.74	0.26	2.00

S: SLOPE OF BOTTOM OF CANALS
n: MANNING COEFFICIENT
F: FROUDE NUMBER
V: DESIGN VELOCITY
Q: DESIGN DISCHARGE
W: WIDTH OF ROAD



TYPICAL CANAL CROSS SECTION
IN HIGH FILL