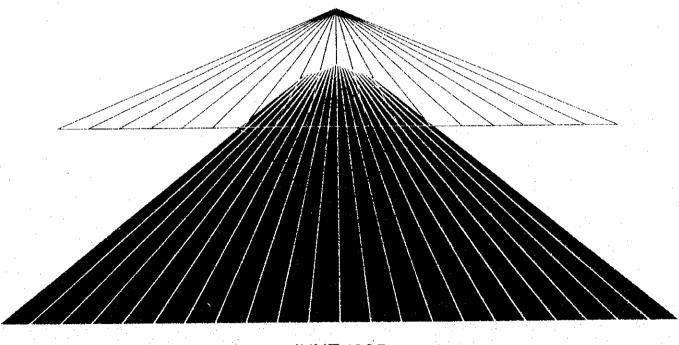




# The Study on Road Disaster Prevention Plan in The Kingdom of Thailand

## FINAL REPORT DRAWINGS

**VOLUME 3** 



JUNE 1995

ORIENTAL CONSULTANTS
KATAHIRA & ENGINEERS INTERNATIONAL

SSF JR

95-091





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KATAHIRA & ENGINEERS INTERNATIONAL

The following foreign exchange rate is applied in the study:

US\$1.00 = J ¥ 100

1BART = J + 4.03

(as of November 1994)

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I. Location Map of Project Road

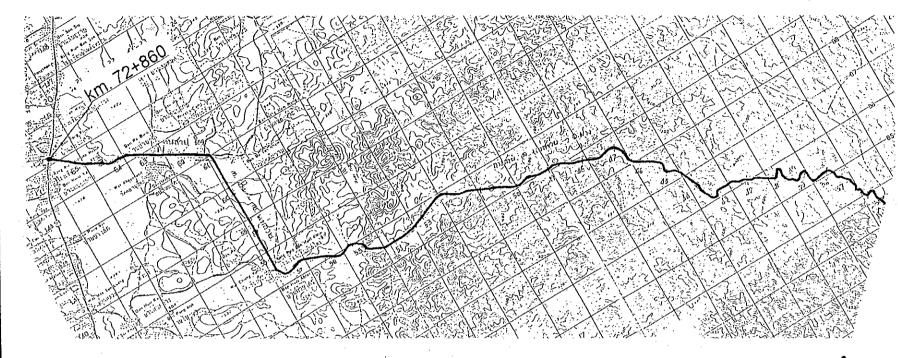
# LOCATION MAP OF PROJECT ROAD

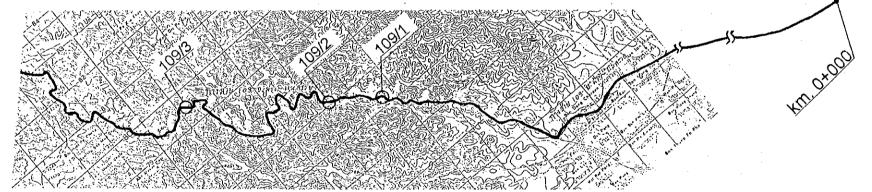
II. Preliminary Design for Route 109

1. Location of Disaster Spots

## LOCATION OF DISASTER SPOTS

## **ALIGNMENT OF ROUTE 109**





## **DISASTER SPOTS**

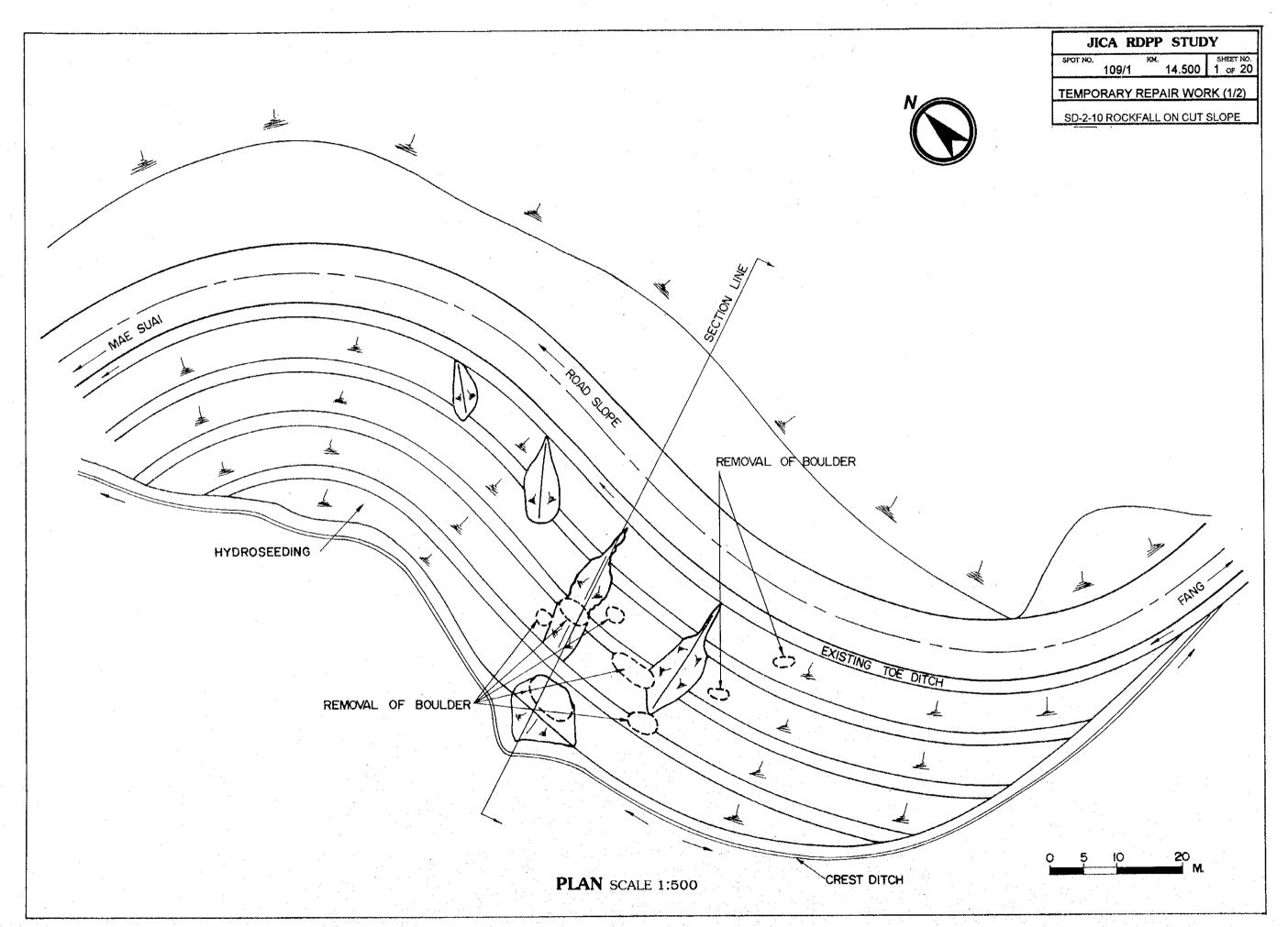
SPOT NO.	CONTROI NO.	L CHAINAGE NO.	DAMAGE TYPE
109/1	0100	14.500	SD-2-10
109/2	0100	16.500	SD-2-3
109/C1	0100	19.100	SD-2-10
109/C2	0100	21.950	SD-3-3
109/3	0100	24.650	SD-2-6
109/C3	0100	25.200	SD-2-6
109/C4	0100	26.600	SD-3-3
109/C5	0100	30.640	SD-2-10
109/C6	0100	31.620	SD-1-3
109 <sup>°</sup> /C7	0100	33.420	SD-2-10
109/C8	0200	35.100	SD-3-3
109/C9	0200	35.900	SD-3-3
*109/C10	0200	15.500 - 43.60	00 SD-2-3

- Note for SPOT NO.

   Route No./1,2 ....: Spot for Preliminary Design and Cost Estimate.

   Route No./Cl,C2...: Spot for Cost Estimate
- \*About eighty percent of the section from 15.5 km to 43.6 km is damaged by gully erosions on cut slopes. All of these damages are expressed as 109/C10.

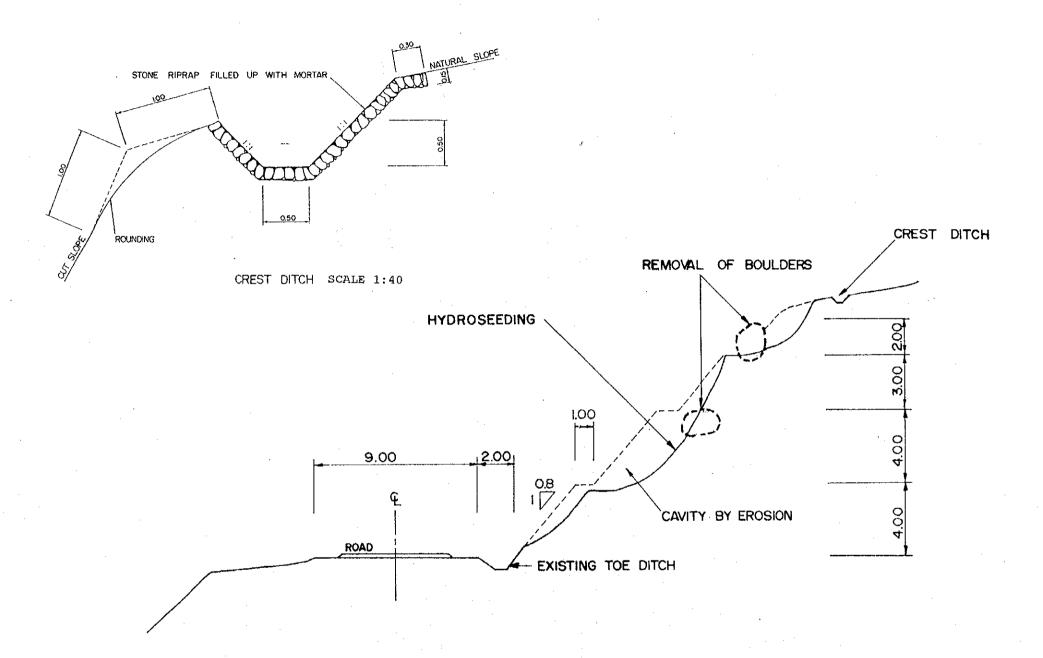
2. Drawings



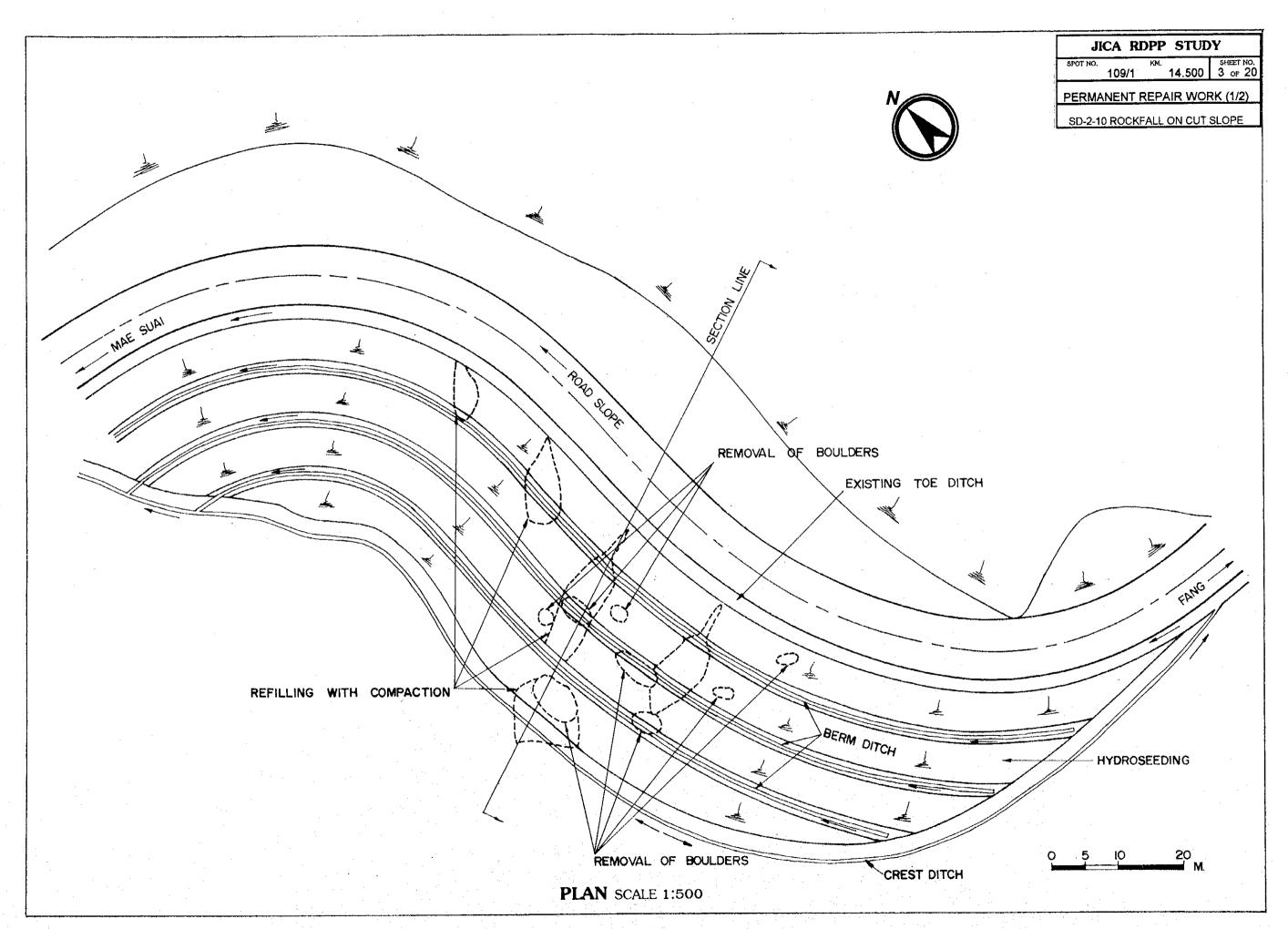
SPOT NO. 109/1 14.500 SHEET NO. 2 OF 20

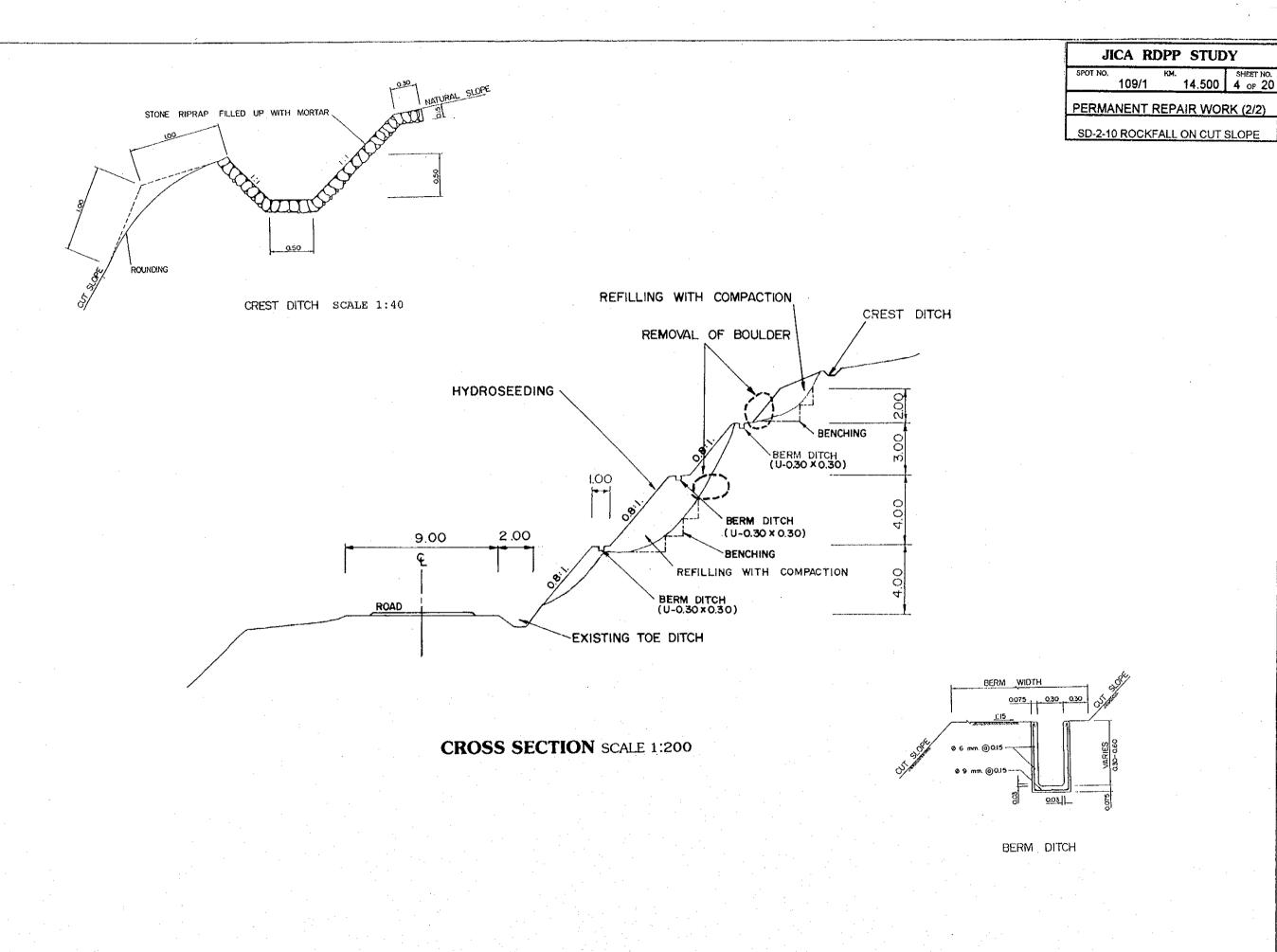
TEMPORARY REPAIR WORK (2/2)

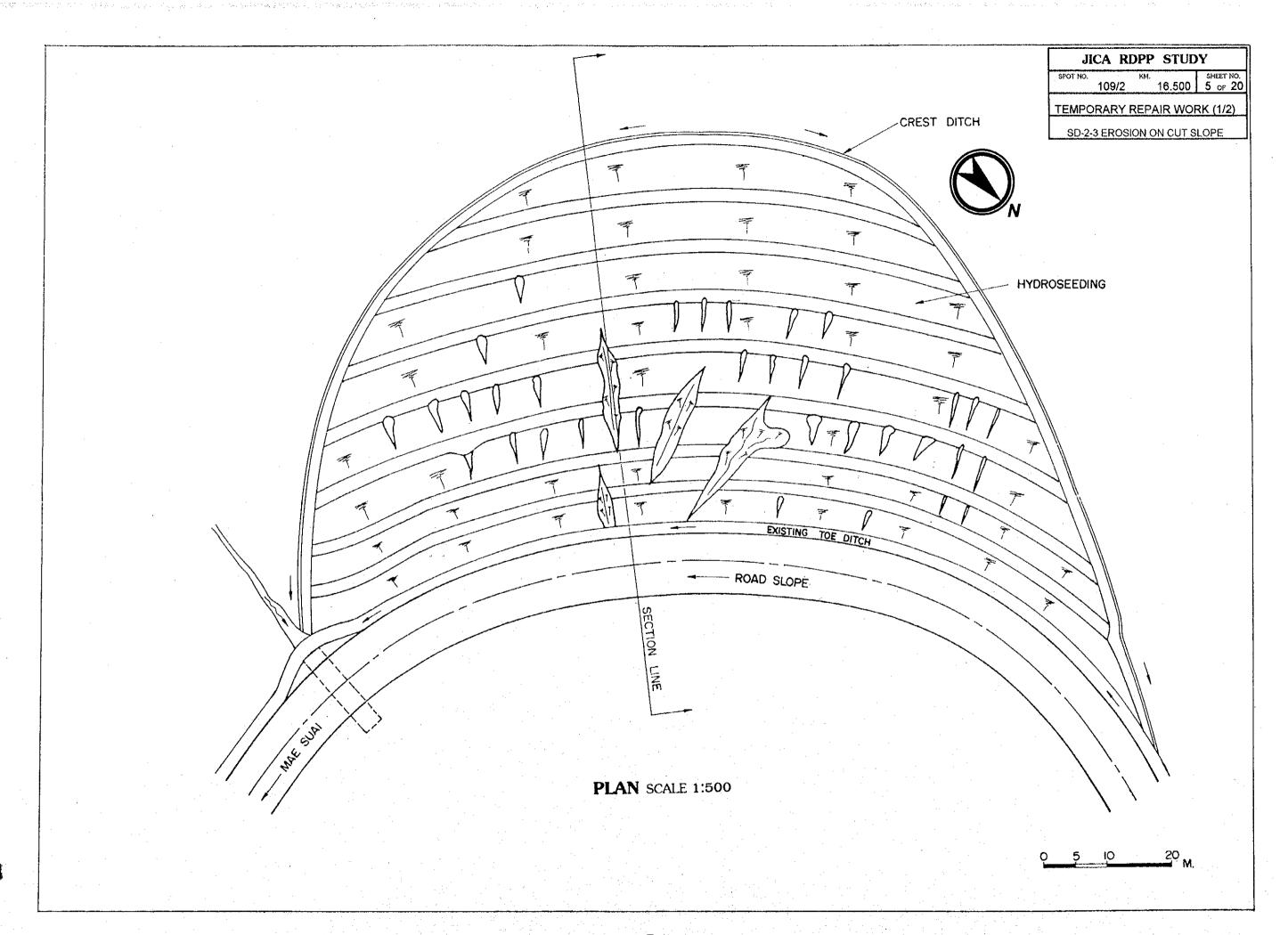
SD-2-10 ROCKFALL ON CUT SLOPE

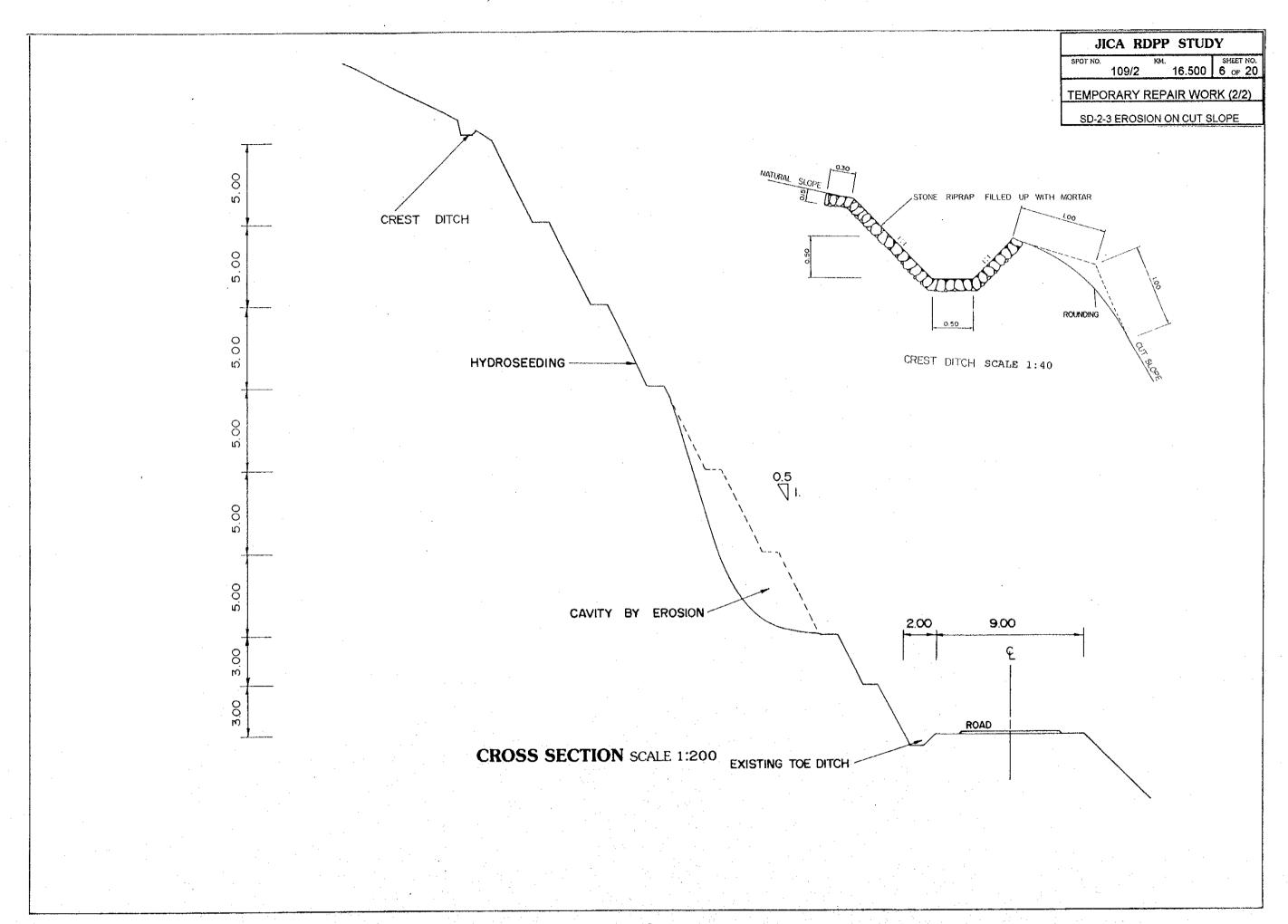


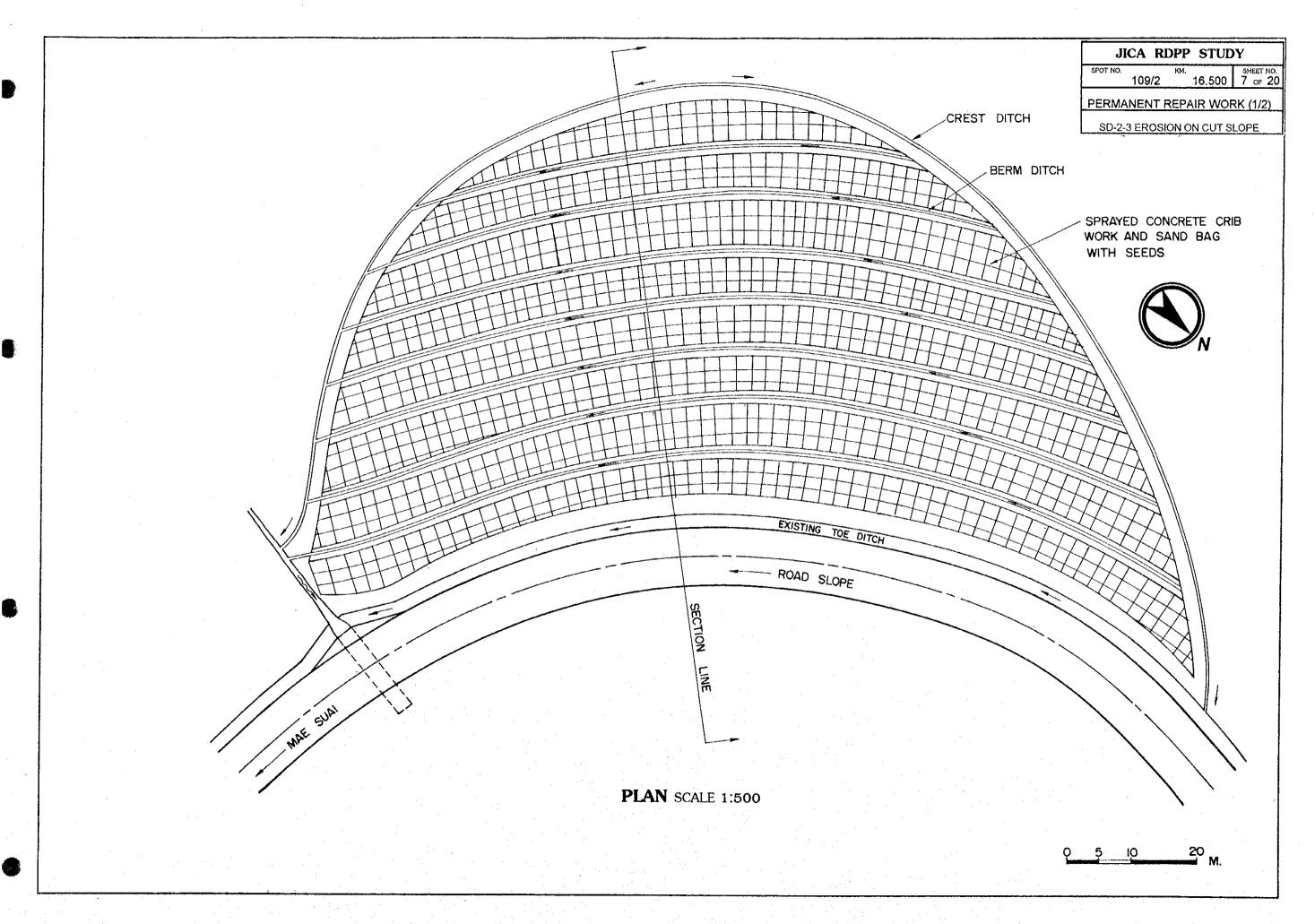
CROSS SECTION SCALE 1:200

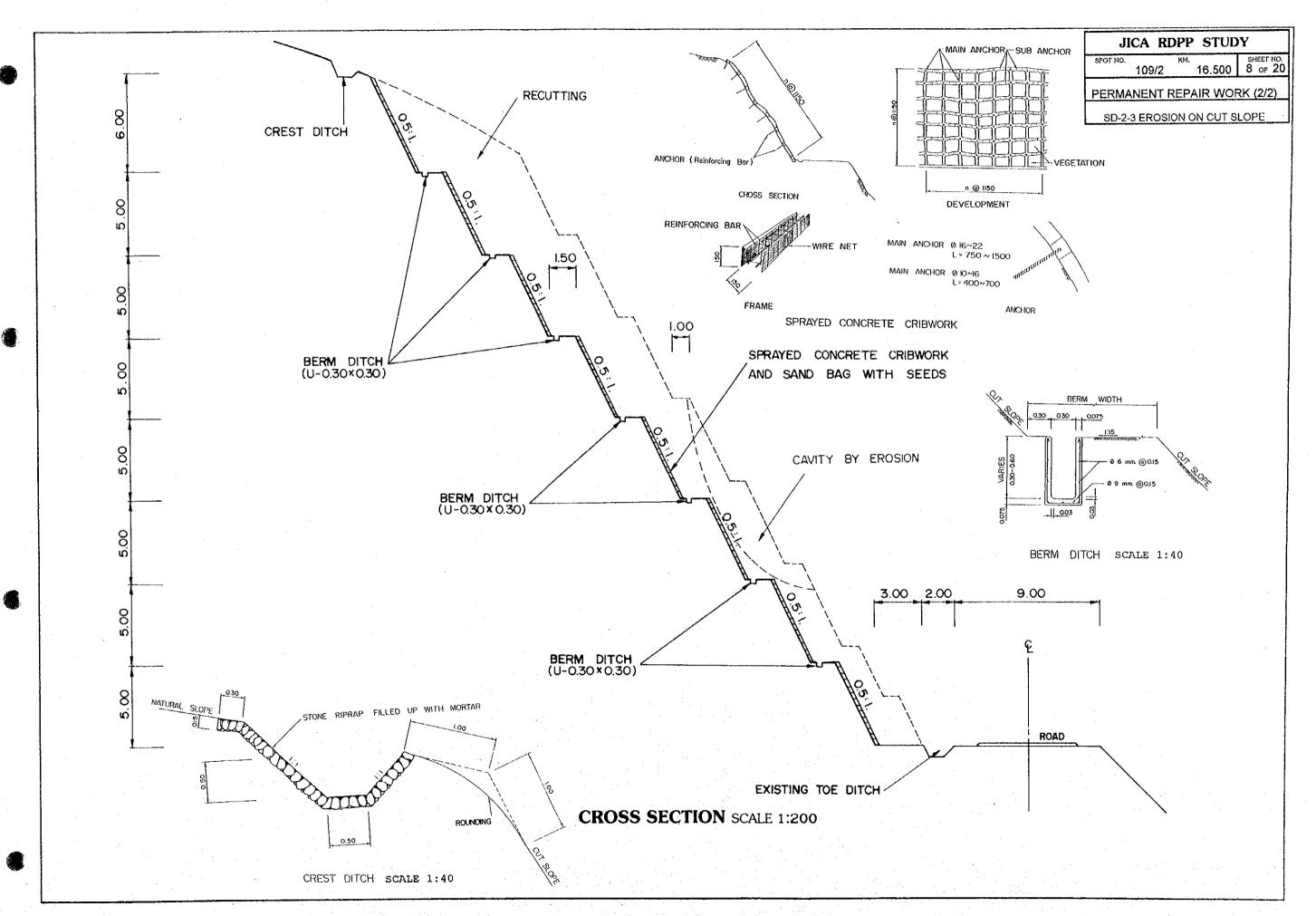


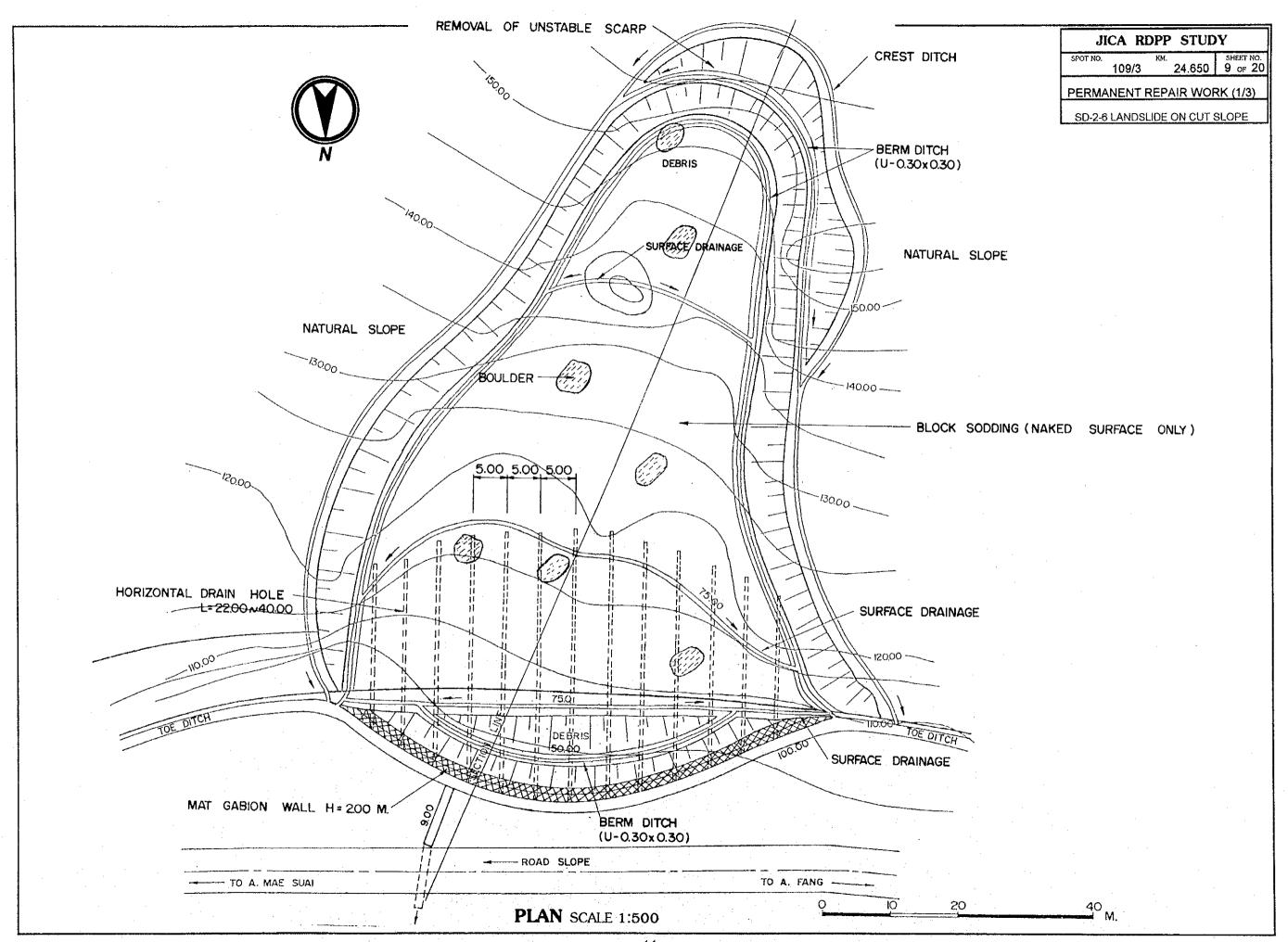


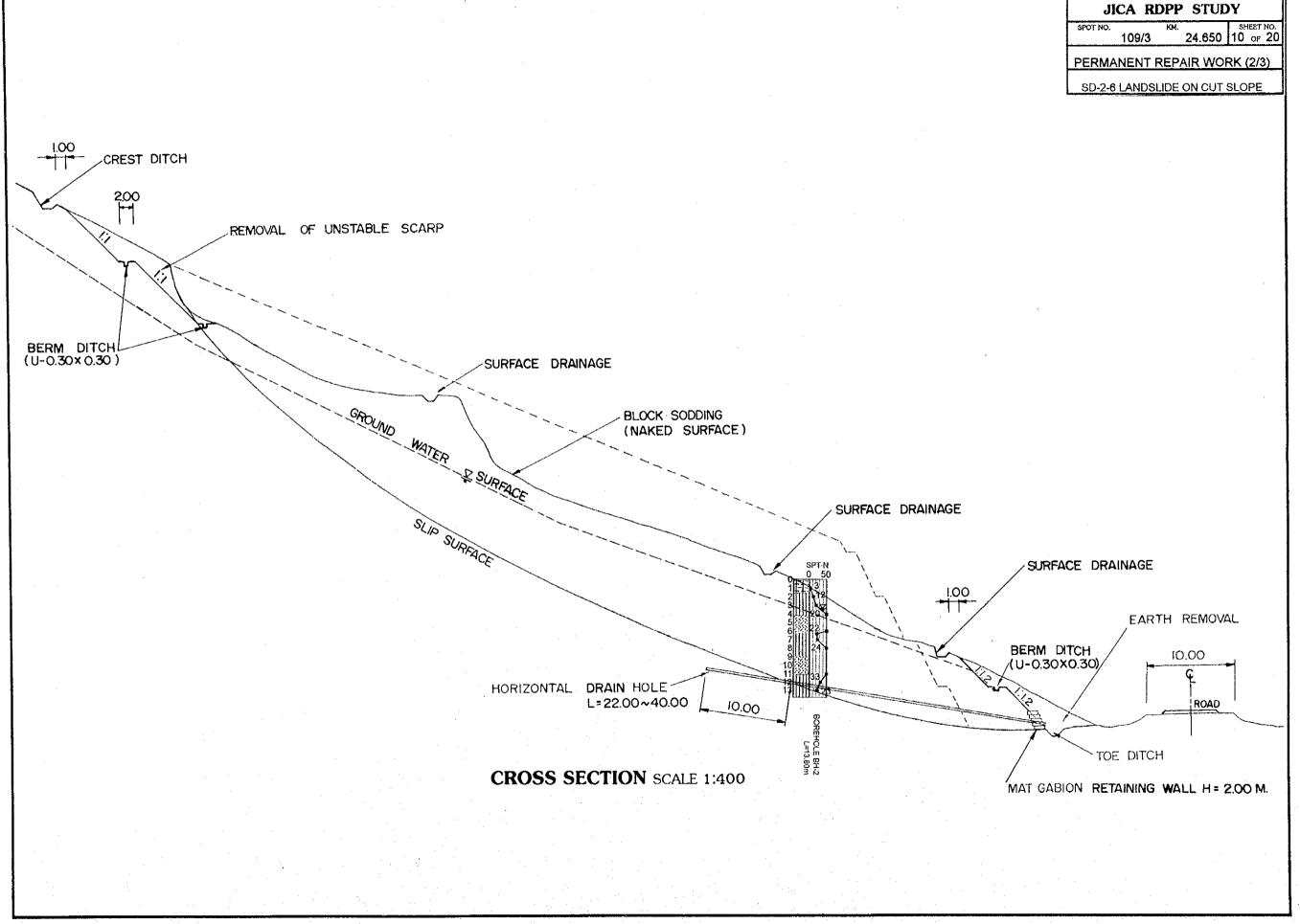


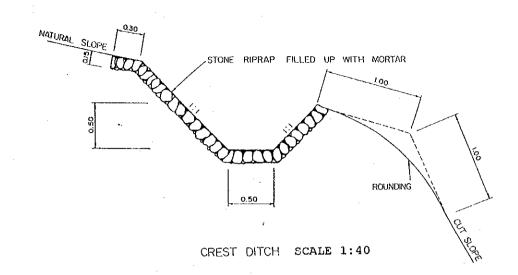


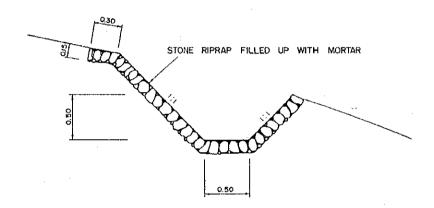




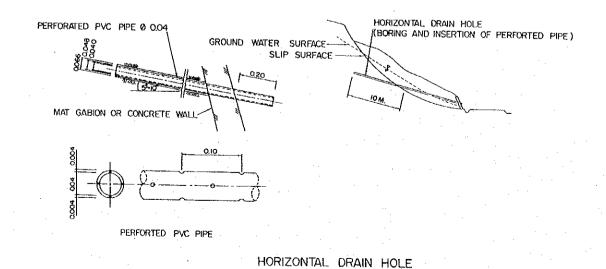


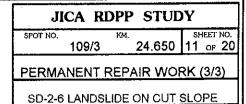


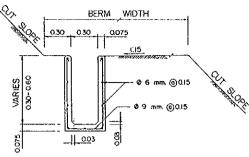




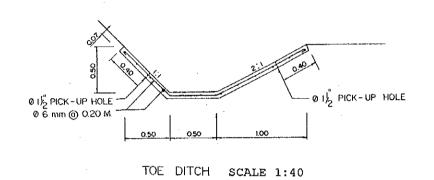
SURFACE DRAINAGE SCALE 1:40

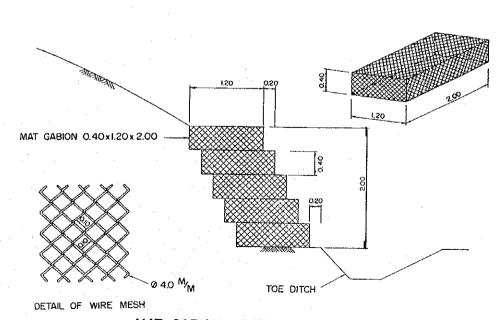






BERM DITCH SCALE 1:40

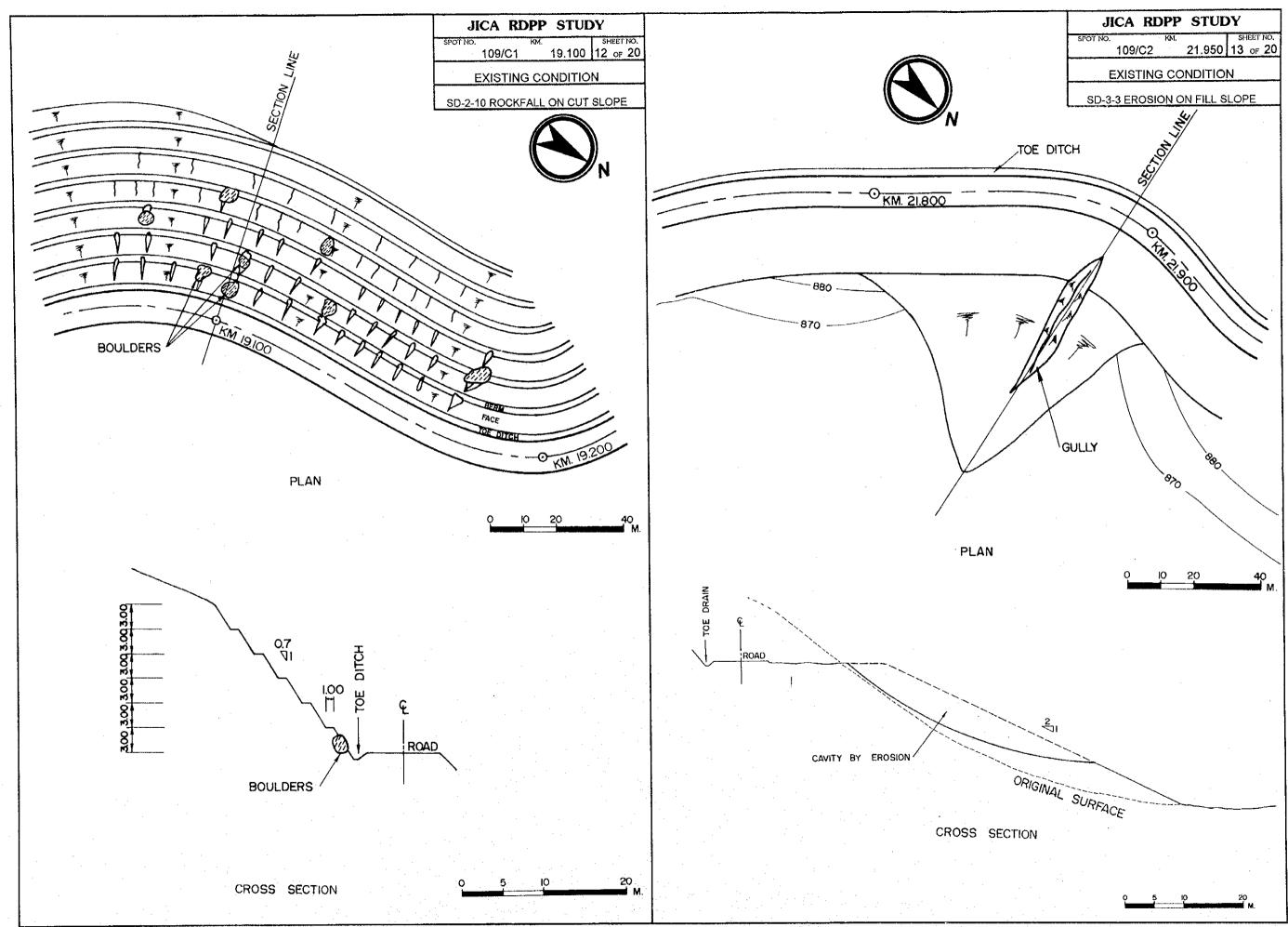


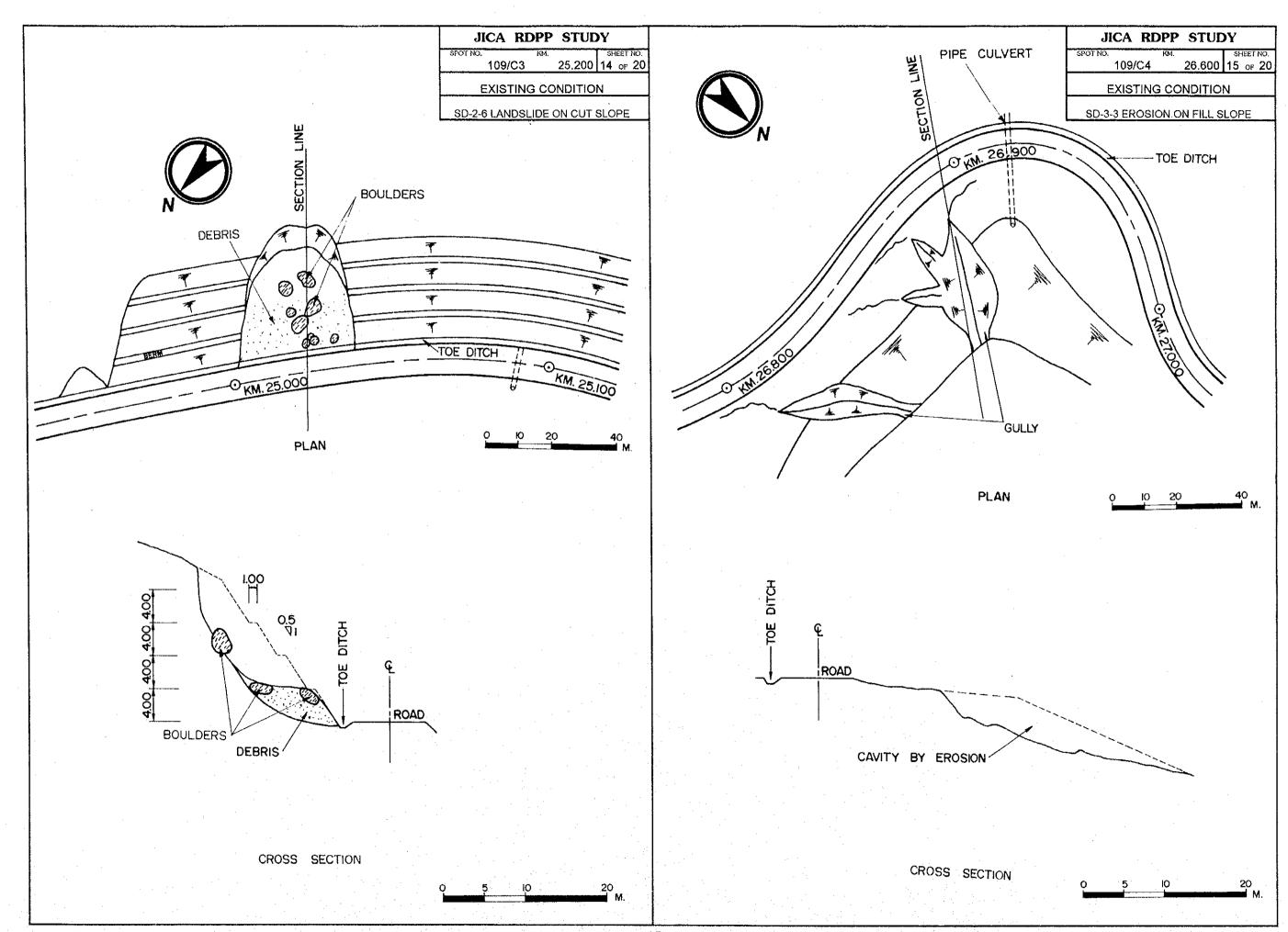


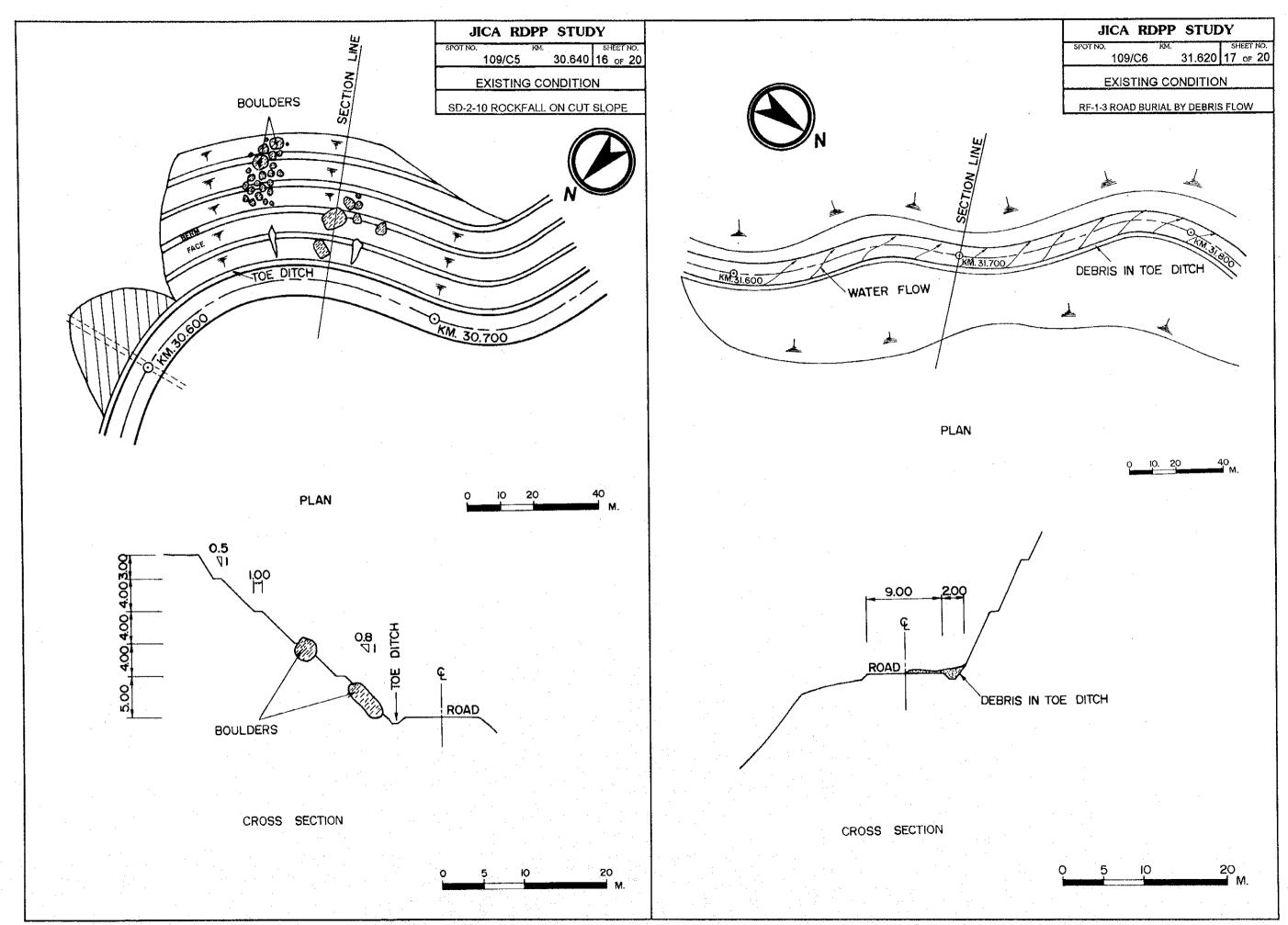
MAT GABION RETAINING WALL SCALE 1:60

**是是是是我们的人,但是我们是是一个,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们的人们的人们的人们的人们的人们的人们的人们的人们的人们** 

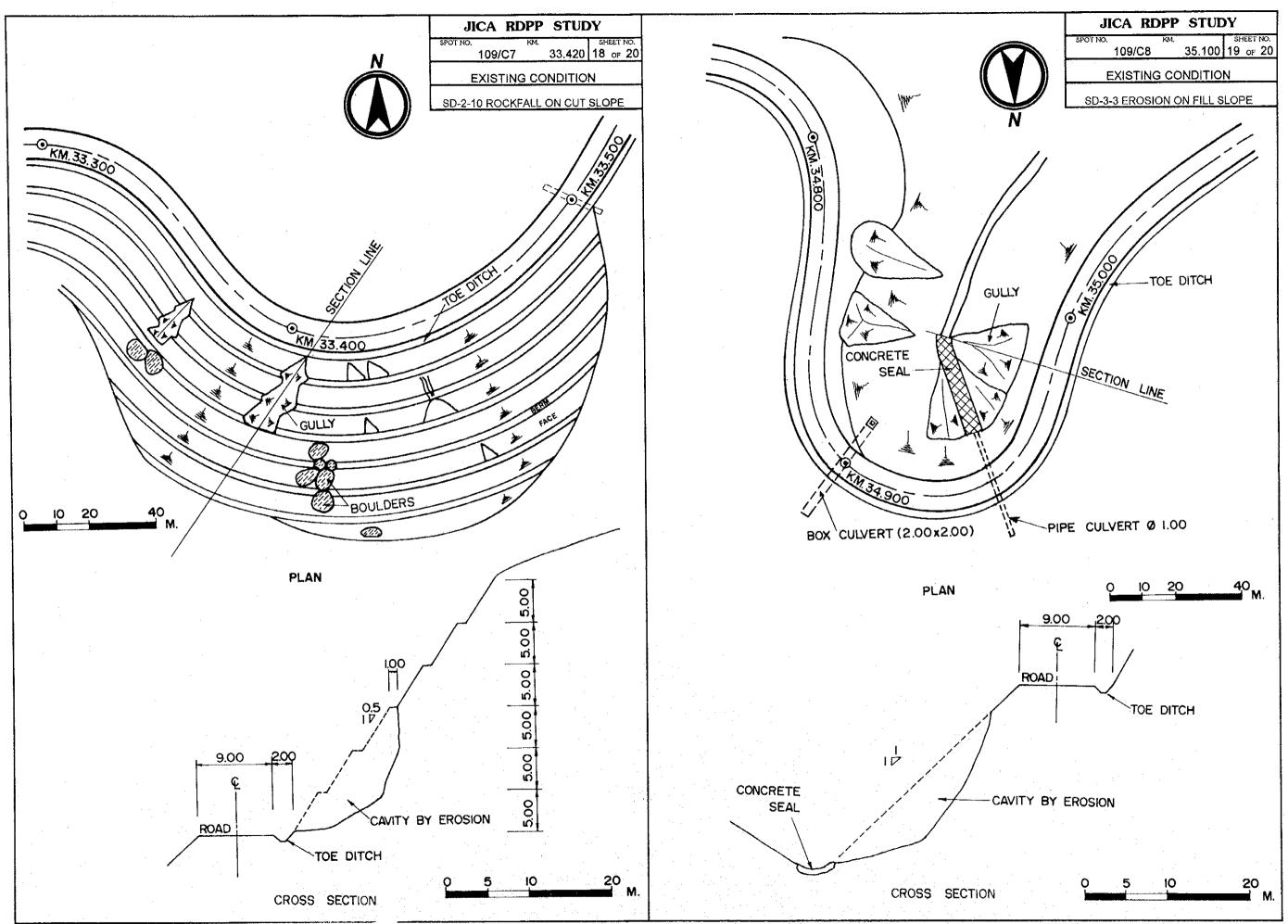
3. Existing Condition

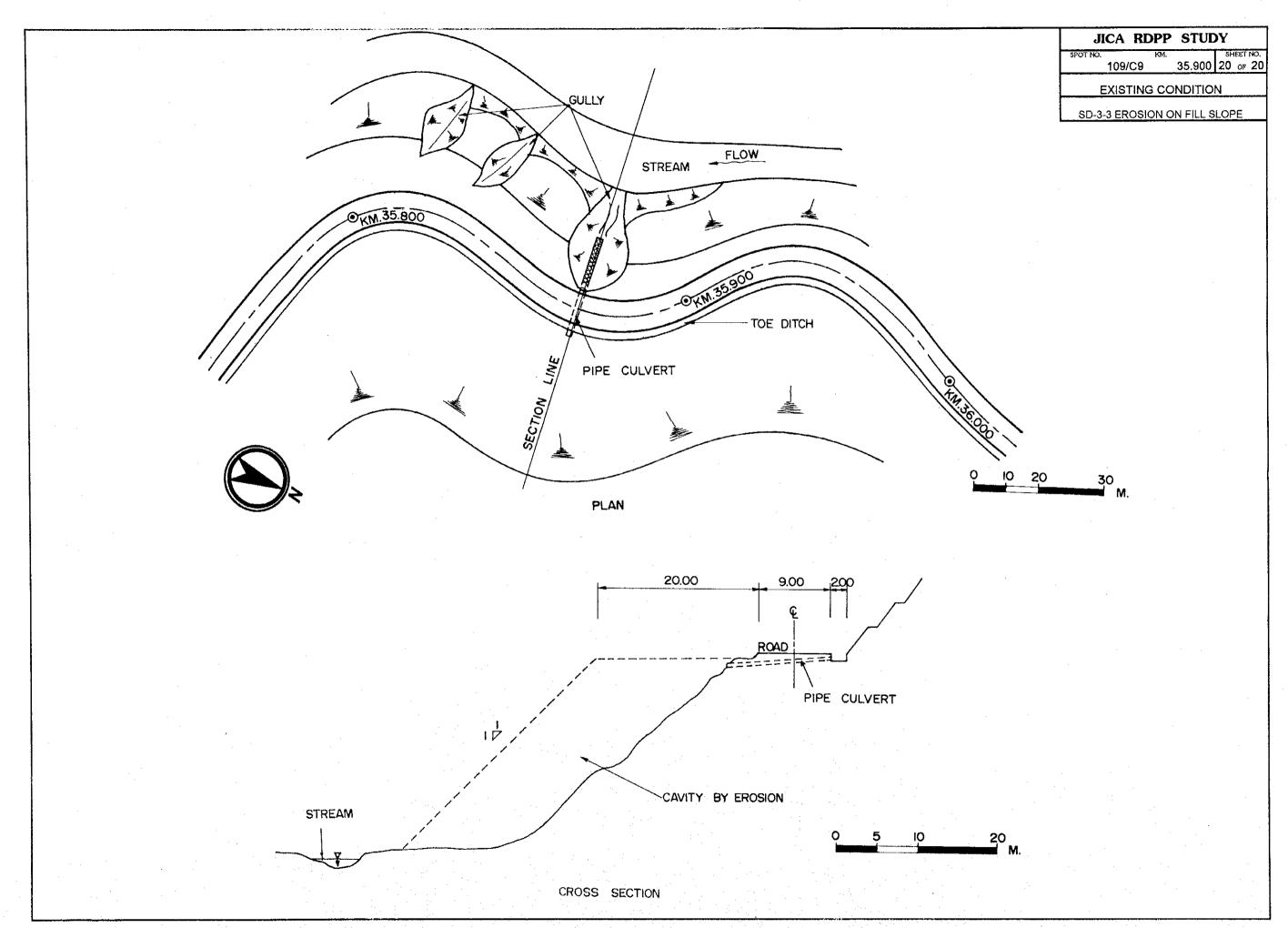






**是是我们就是我们的一个人,我们们就是我们的一个人,我们们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们也不是我们的,我们也不是我们的,我们也不是**不是,





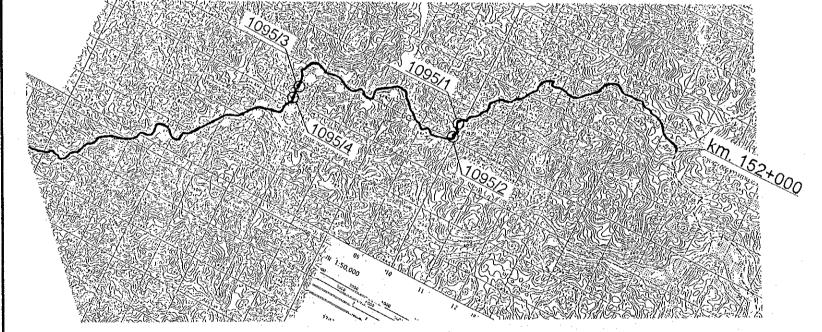
III. Preliminary Design for Route 1095

1. Location of Disaster Spots

## LOCATION OF DISASTER SPOTS

## **ALIGNMENT OF ROUTE 1095**





## DISASTER SPOTS

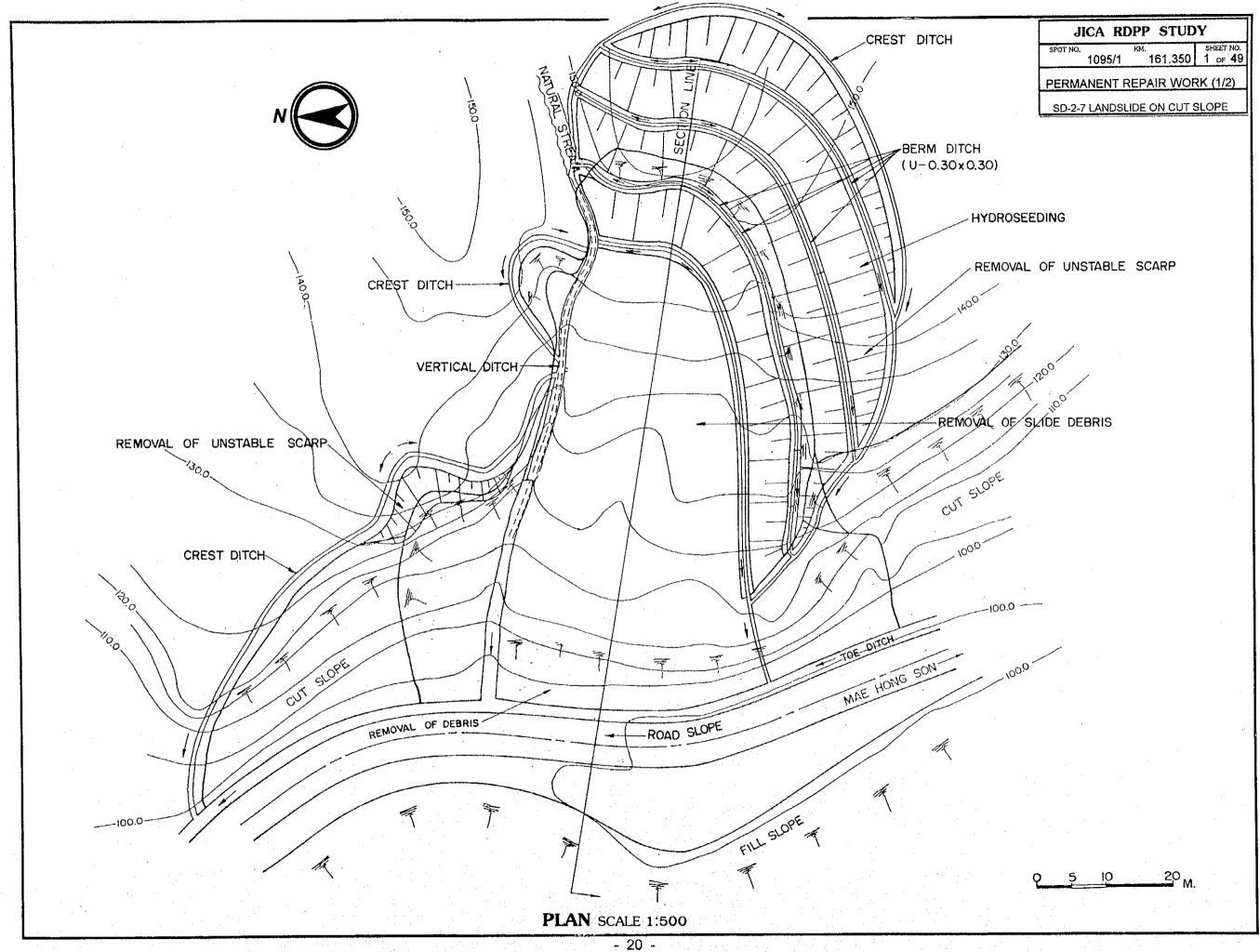
	<b></b>		
SPOT NO.	CONTROL NO.	CHAINAGE NO.	DAMAGE TYPE
1095/C1	0500	154.250	SD-3-6
1095/C2	0500	156.050	SD-2-6
1095/C3	0500	156.150	SD-2-3
1095/C4	0500	157.000	SD-2-10
1095/C5	0500	157.500	SD-2-6
1095/C6	. 0500	157.700	SD-2-8
1095/C7	0500	157.900	SD-2-3
1095/C8	0500	158.800	SD-2-7
1095/C9	0500	159.000	SD-2-2
1095/C10	0500	159.450	SD-2-3
1095/C11	0500	159.900	SD-2-6
1095/C12	0500	160.000	SD-2-7
1095/C13	0500	160.500	SD-2-8
1095/C14	0500	160.600	SD-2-7
1095/C15	0500	160.800	SD-2-6
1095/C16	0500	160.850	SD-2-7
1095/1	0500	161.350	SD-2-7
1095/C17	0500	161.600	SD-3-3
1095/2	0500	161.700	SD-2-9
1095/C18	0500	162.350	SD-2-6
1095/C19	0500	162.600	SD-2-7
1095/C20	0500	162.800	SD-2-7
1095/C21	0500	163.450	SD-2-6
1095/C22	0500	163.500	SD-2-6
1095/C23	0500	164.000	SD-2-2
1095/C24	0500	166.800	SD-2-6
1095/C25	0500	167.400	SD-2-6
1095/C26	0500	167.800	SD-2-6
1095/C27	0500	168.000	SD-2-6
1095/C28	0500	168.400	SD-2-7
1095/C29	0500	168.500	SD-2-6
1095/3	0500	168.650	SD-2-6
1095/4	0500	168.900	SD-2-8
1095/C30	0500	169.000	SD-2-6
1095/C31	0500	170.000	SD-1-10
1095/C32	0500	170.250	SD-1-10 SD-1-10
1095/C33	0500	172.000	
1095/C34	0500	177.100	SD-2-7
1095/C35	0500	177.800	SD-2-3 SD-2-6
1095/C36	0500	178.900 179.100	SD-2-6
1095/C37	0500	179.100	SD-2-7
1095/C38	0500 0500	179.200	SD-2-6
1095/C39	0500	179.500	SD-2-6
1095/C40 1095/C41	0500	180.250	SD-2-6
 Note for	CDOM NO		· :

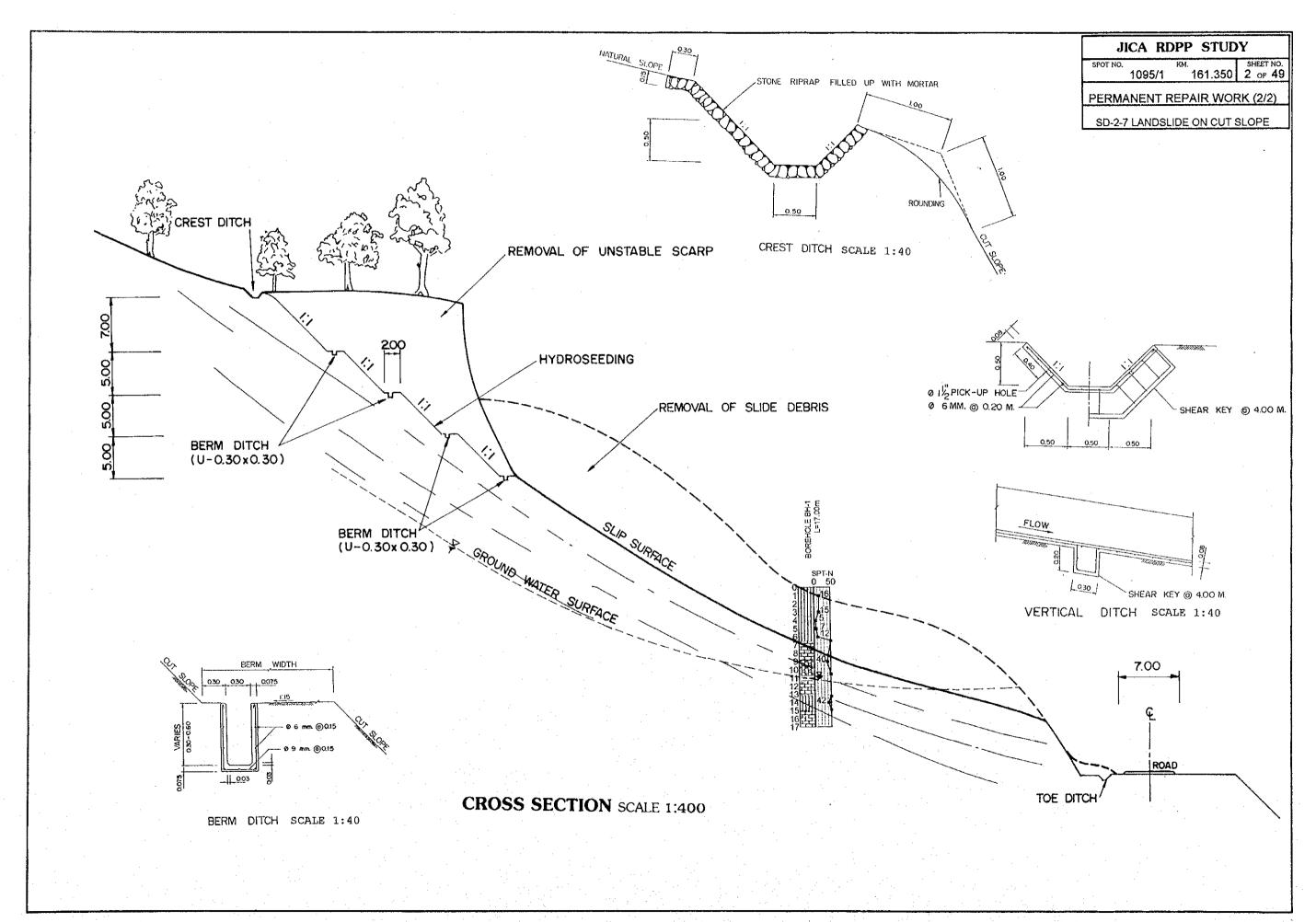
- Note for SPOT NO.

   Route No./1,2 ...: Spot for Preliminary Design and Cost Estimate.

   Route No./C1,C2...: Spot for Cost Estimate

2. Drawings





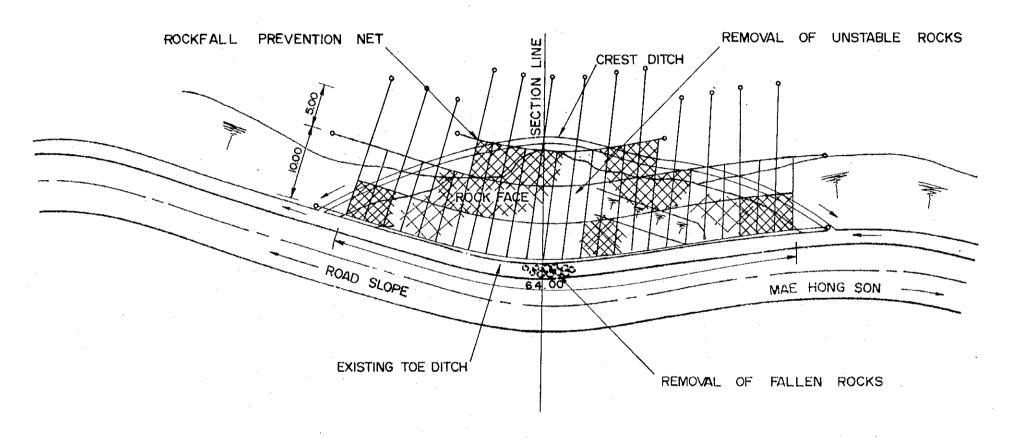
JICA RDPP STUDY

от NO. км. sheet No. 1095/2 161.700 3 ог 49

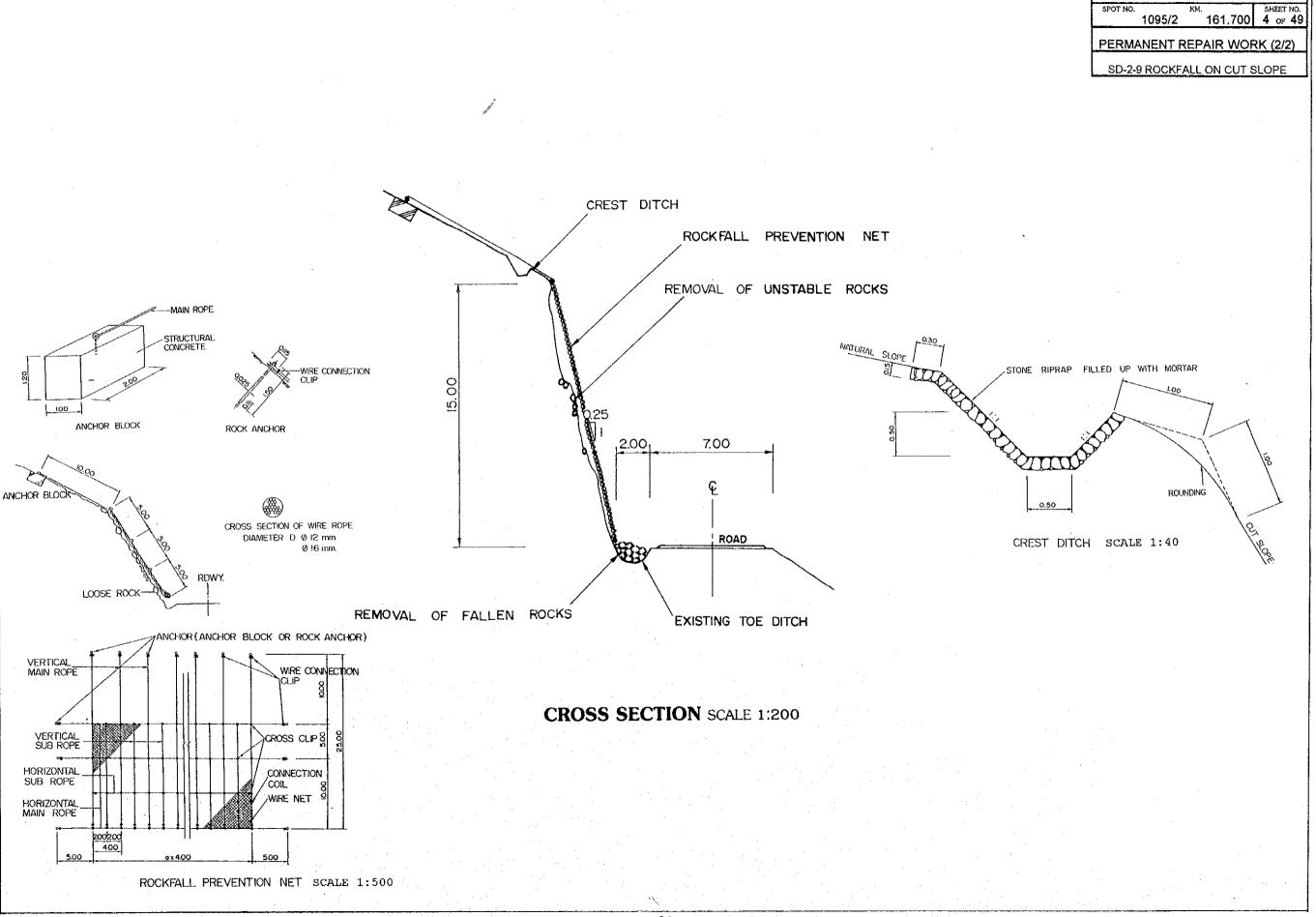
PERMANENT REPAIR WORK (1/2)

SD-2-9 ROCKFALL ON CUT SLOPE

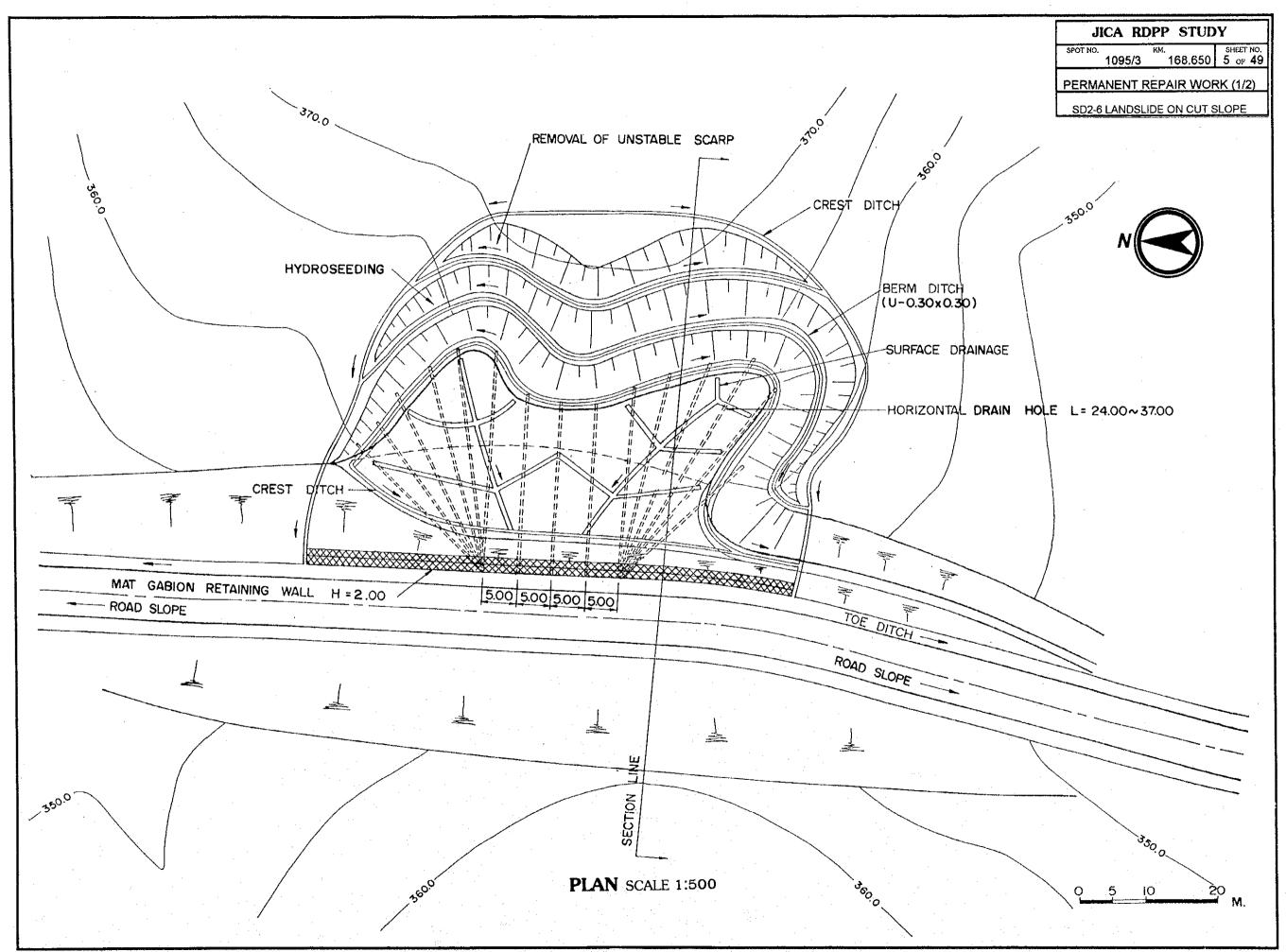


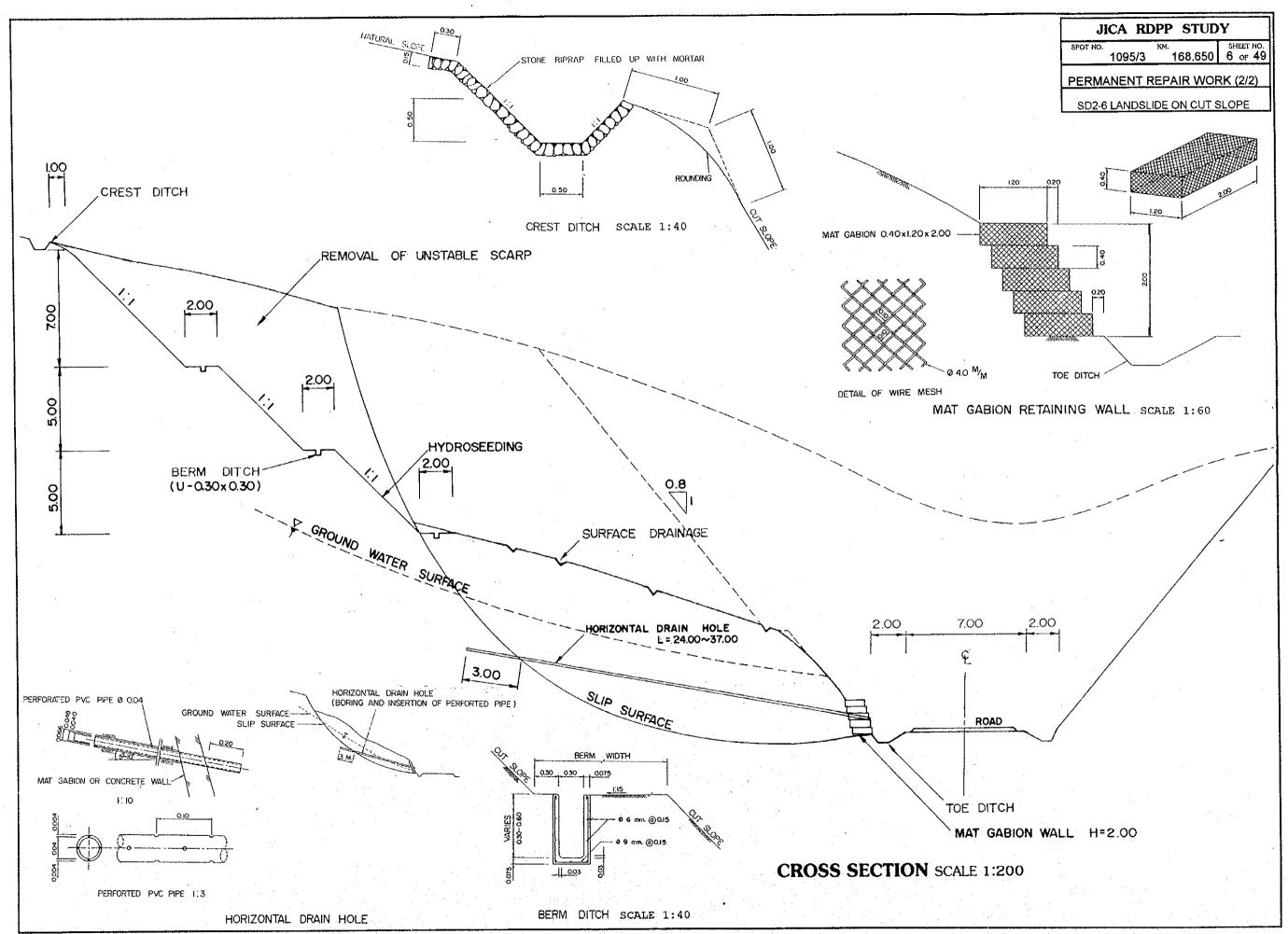


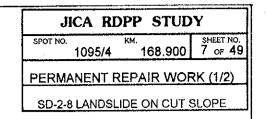
PLAN SCALE 1:500



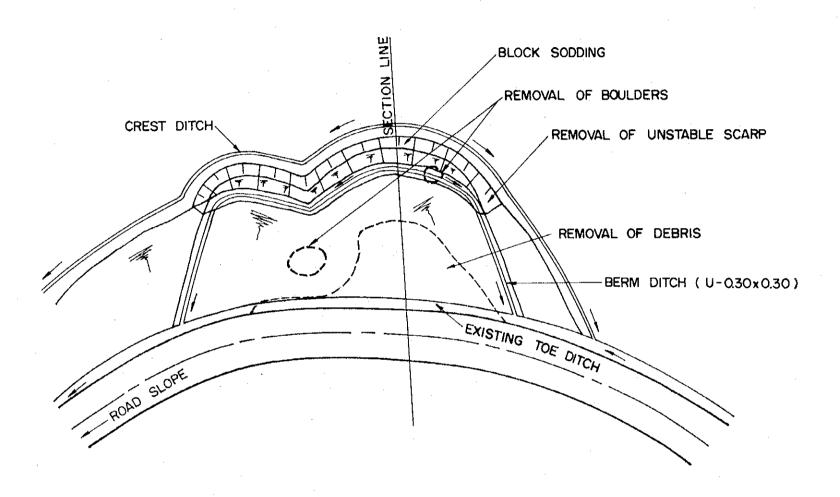
JICA RDPP STUDY





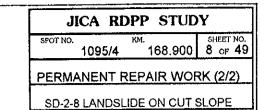


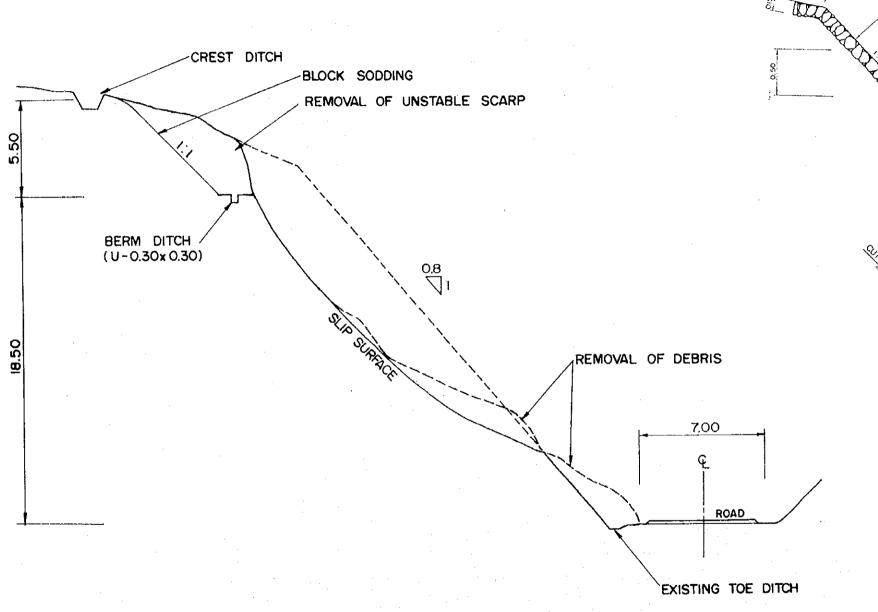




PLAN SCALE 1:500





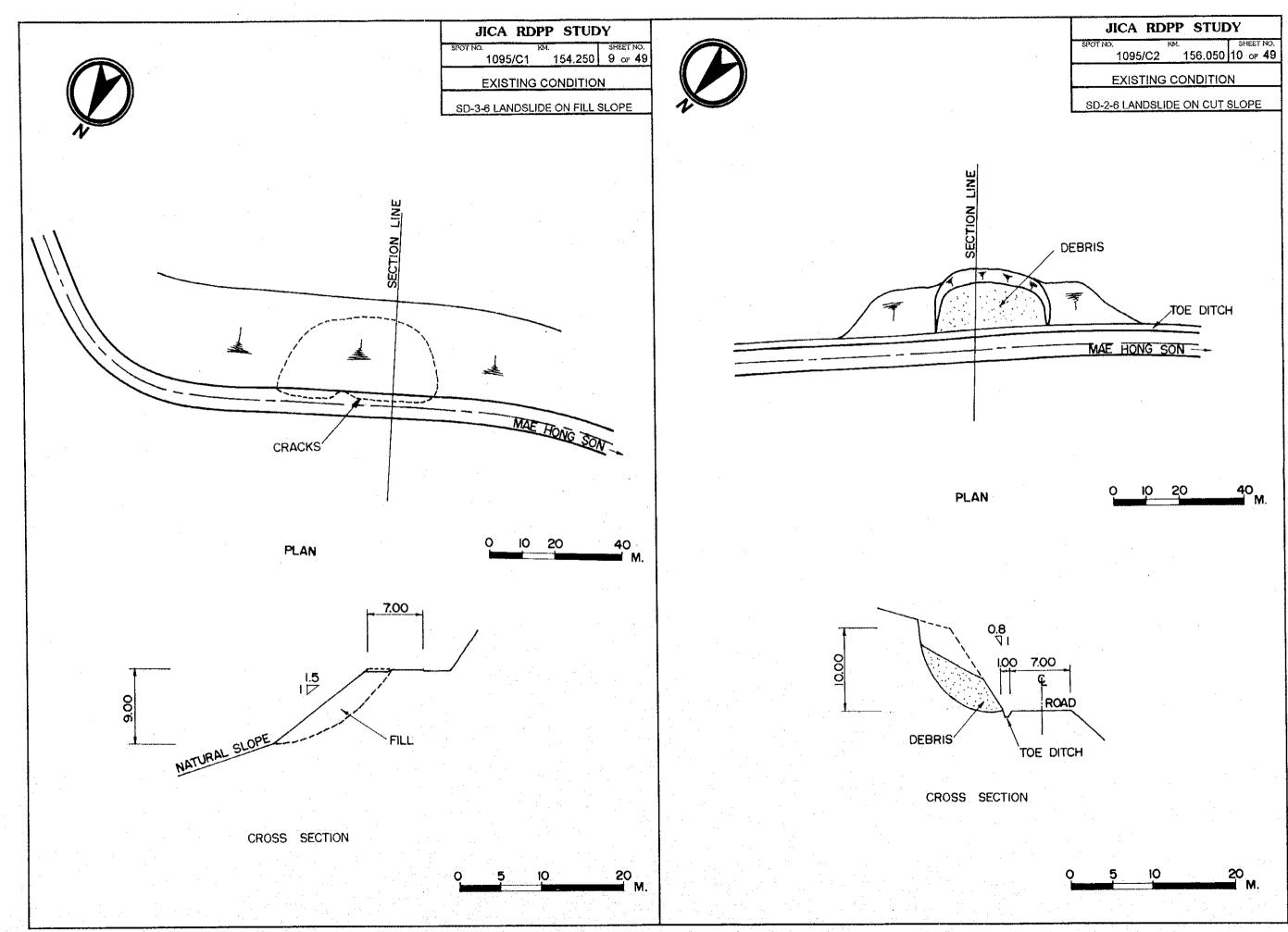


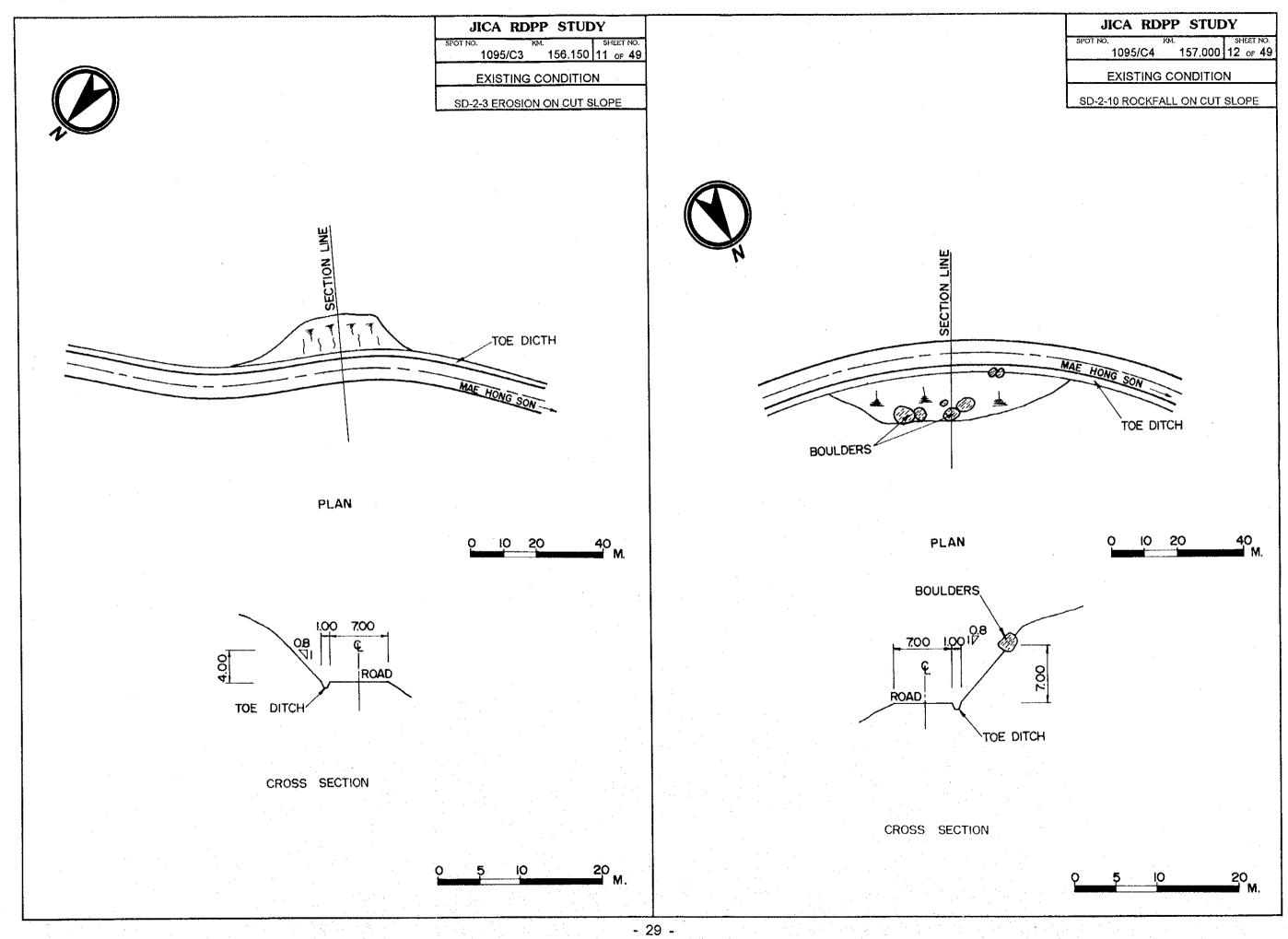
ROUNDING CREST DITCH SCALE 1:40 BERM DITCH SCALE 1:40

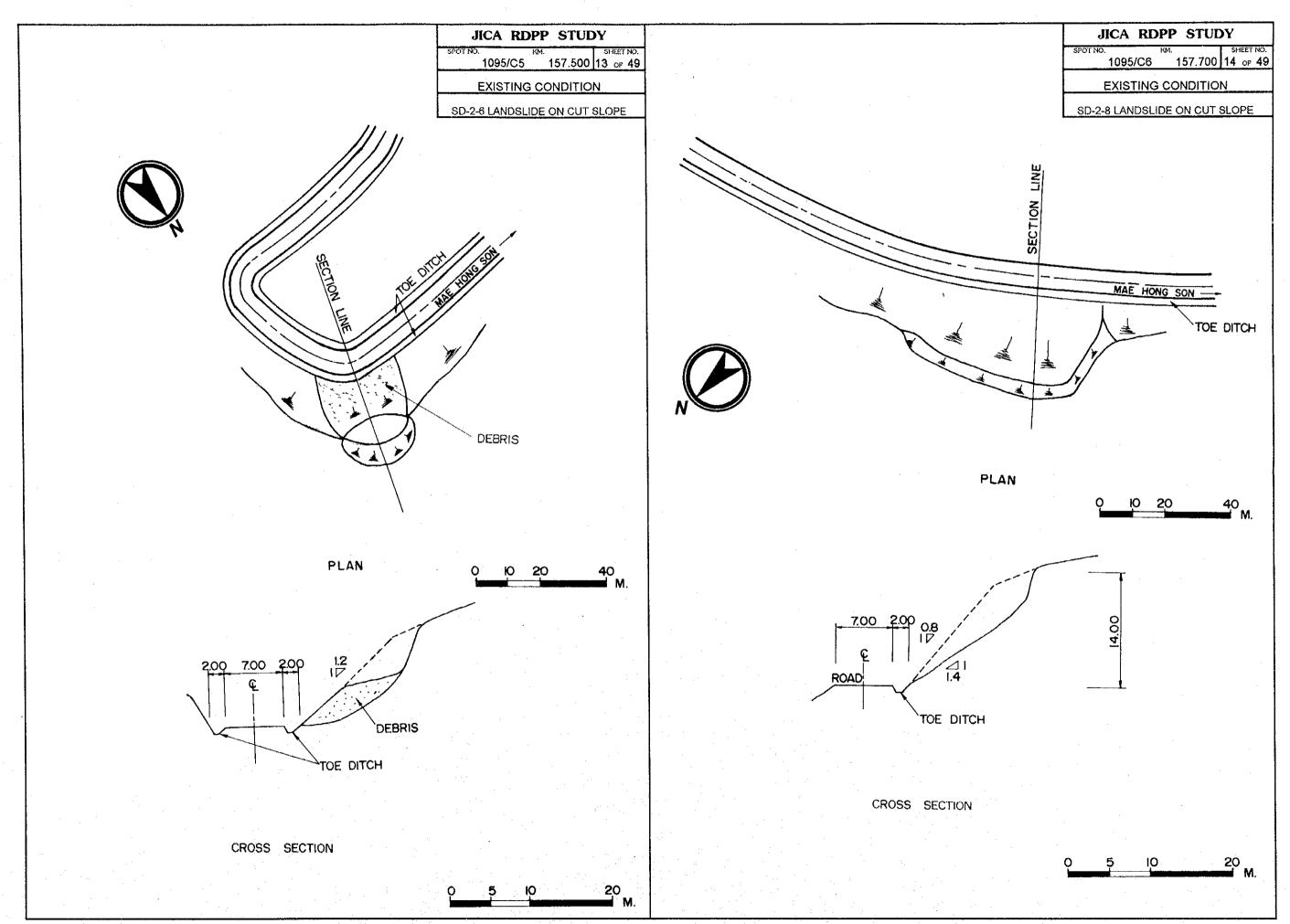
STONE RIPRAP FILLED UP WITH MORTAR

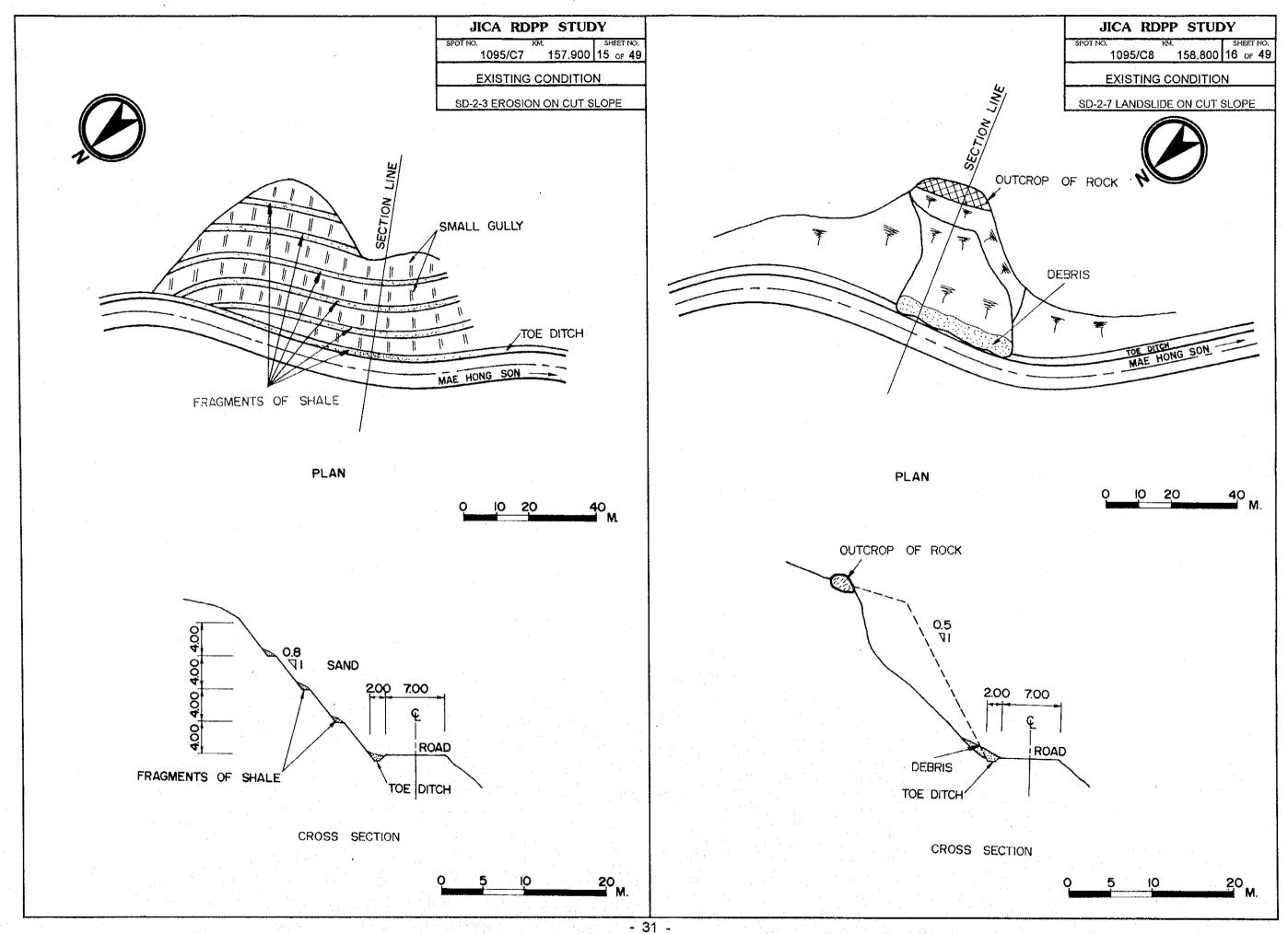
CROSS SECTION SCALE 1:200

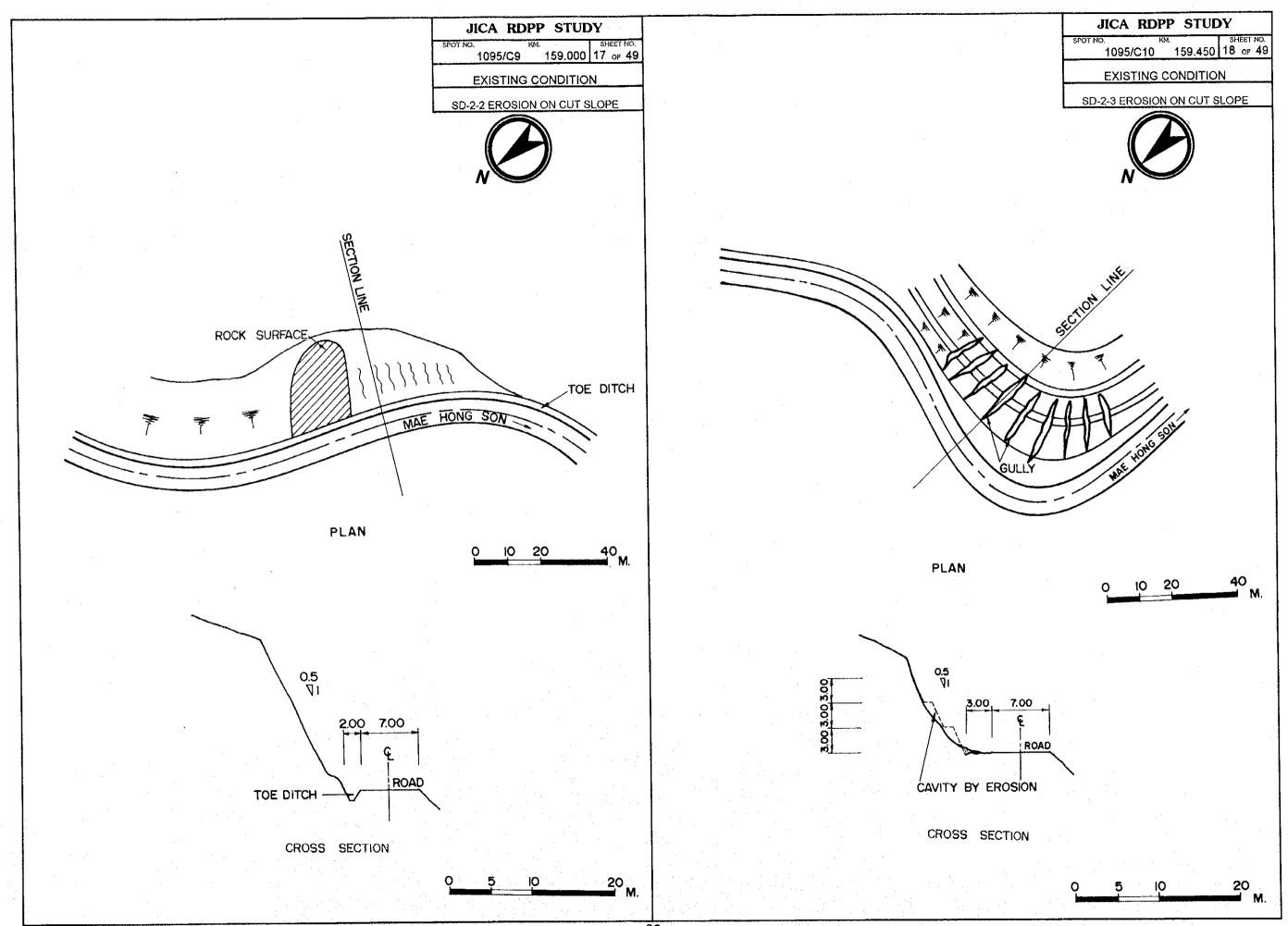
3. Existing Condition

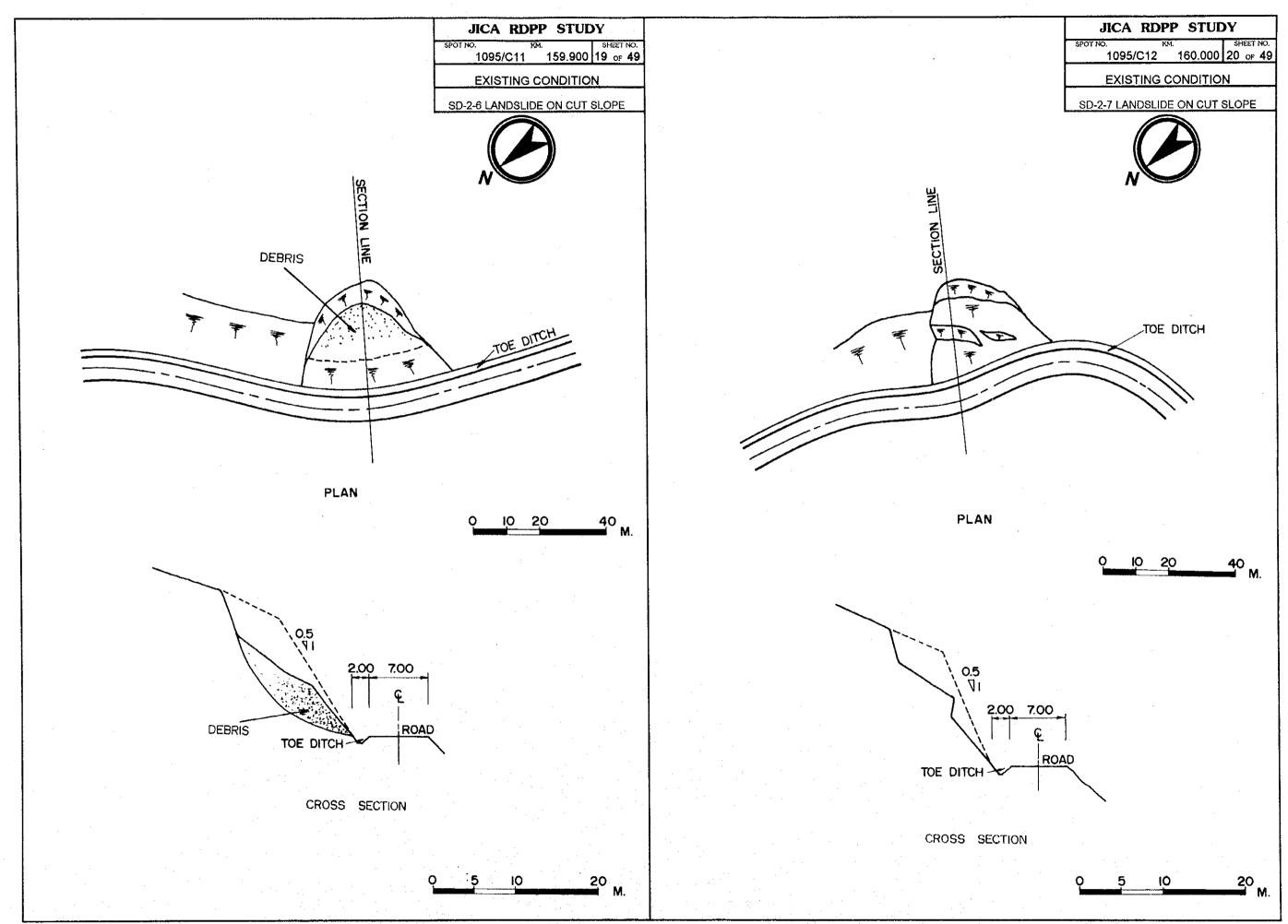


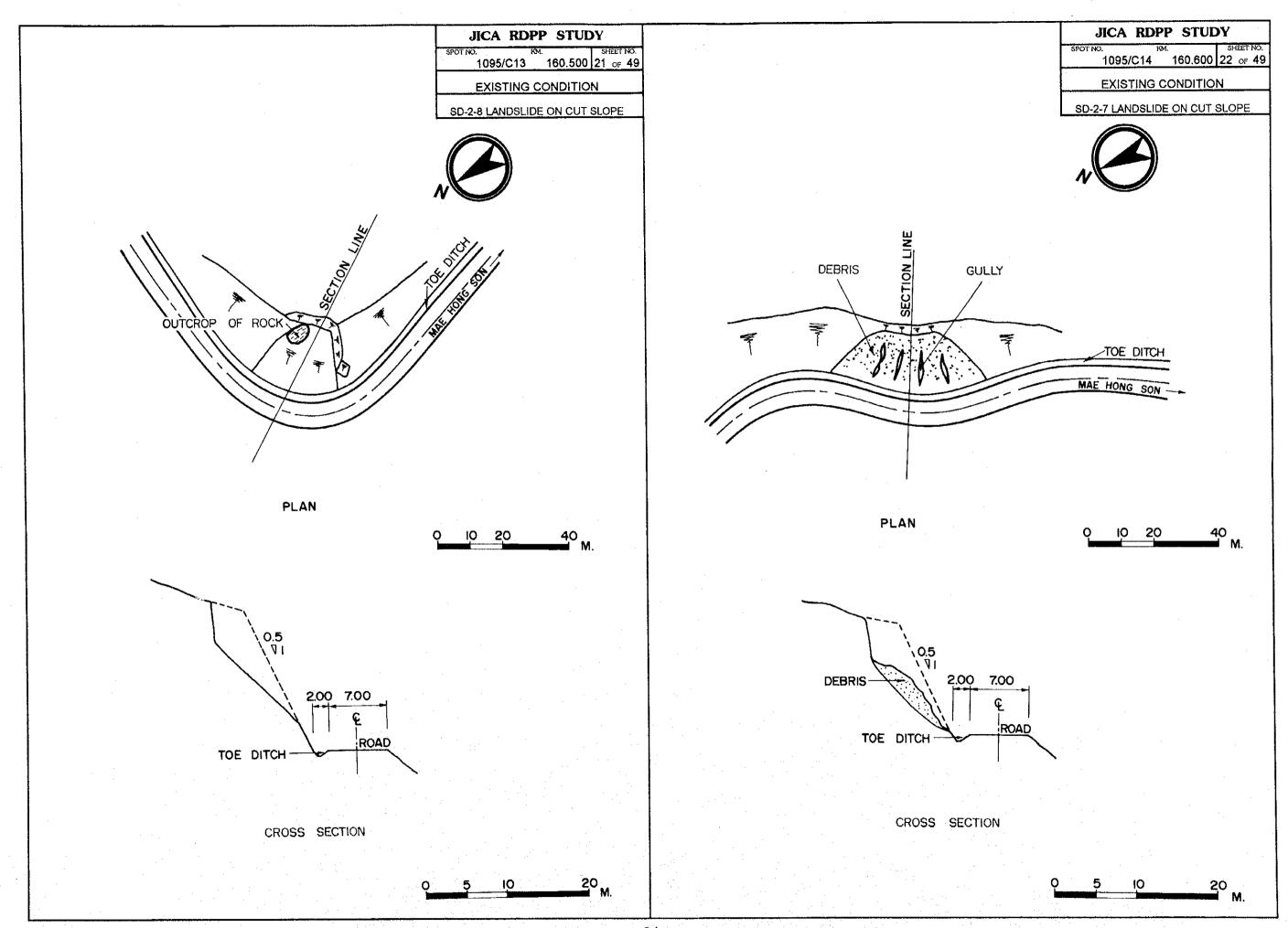


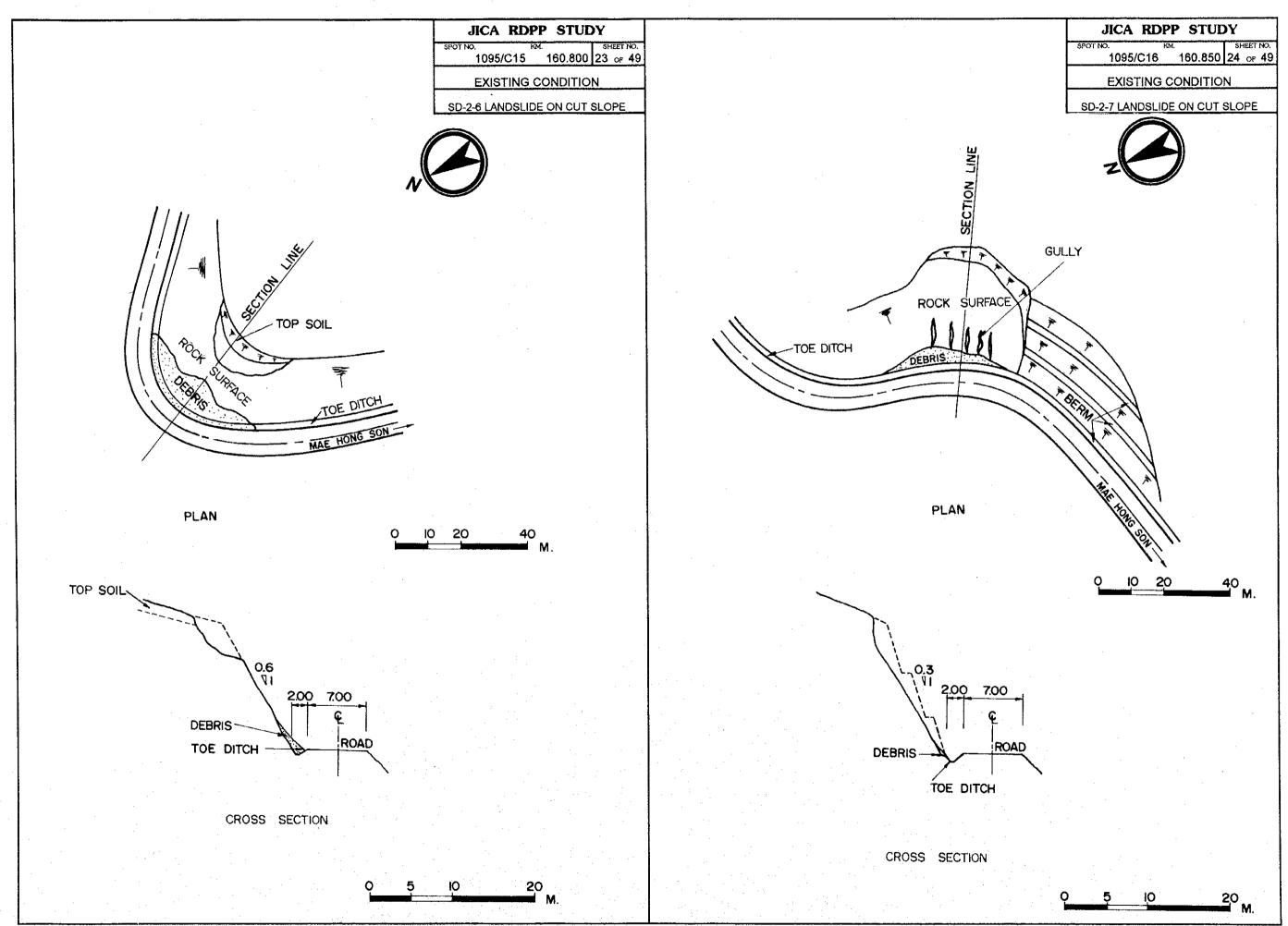


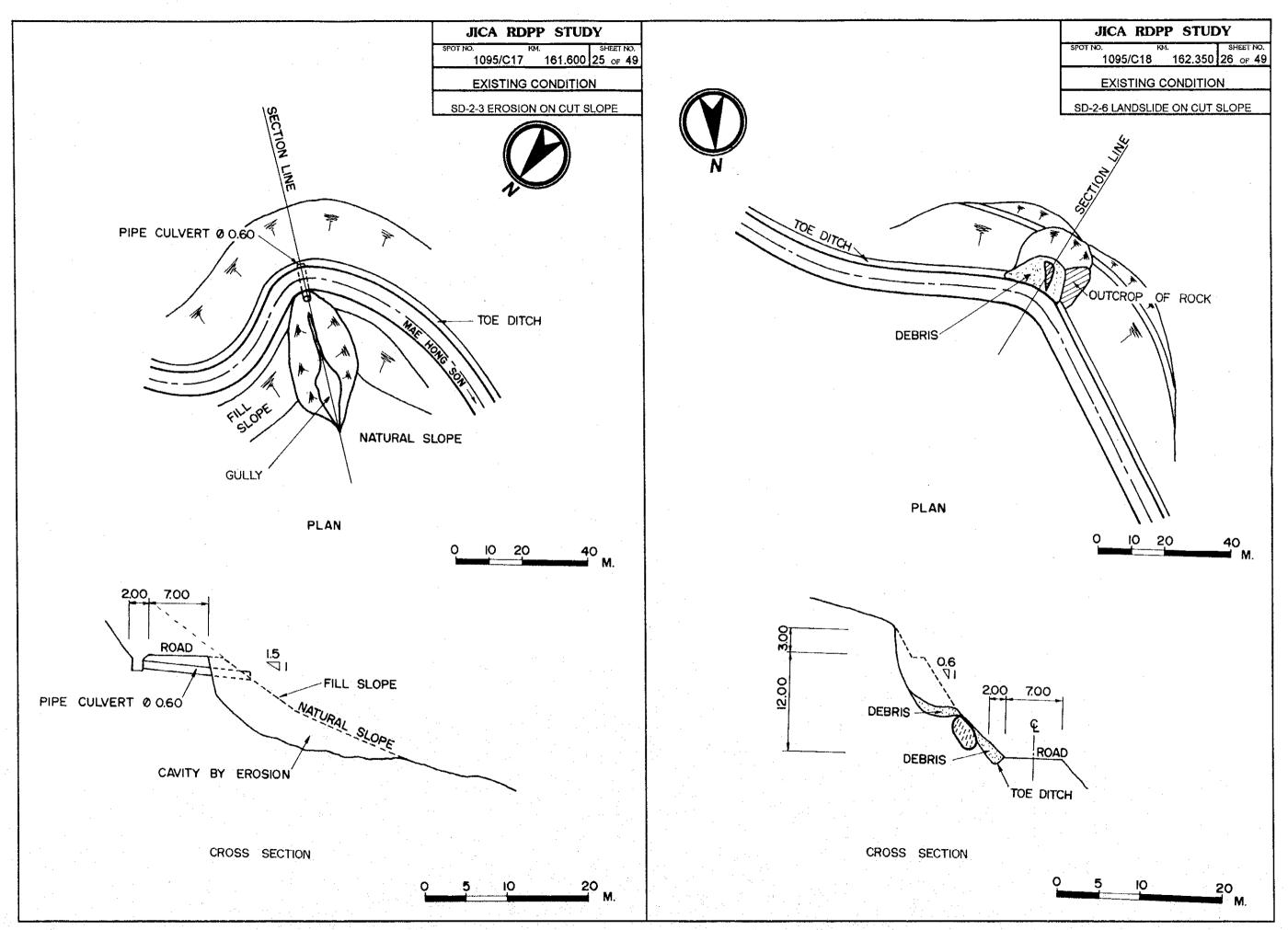


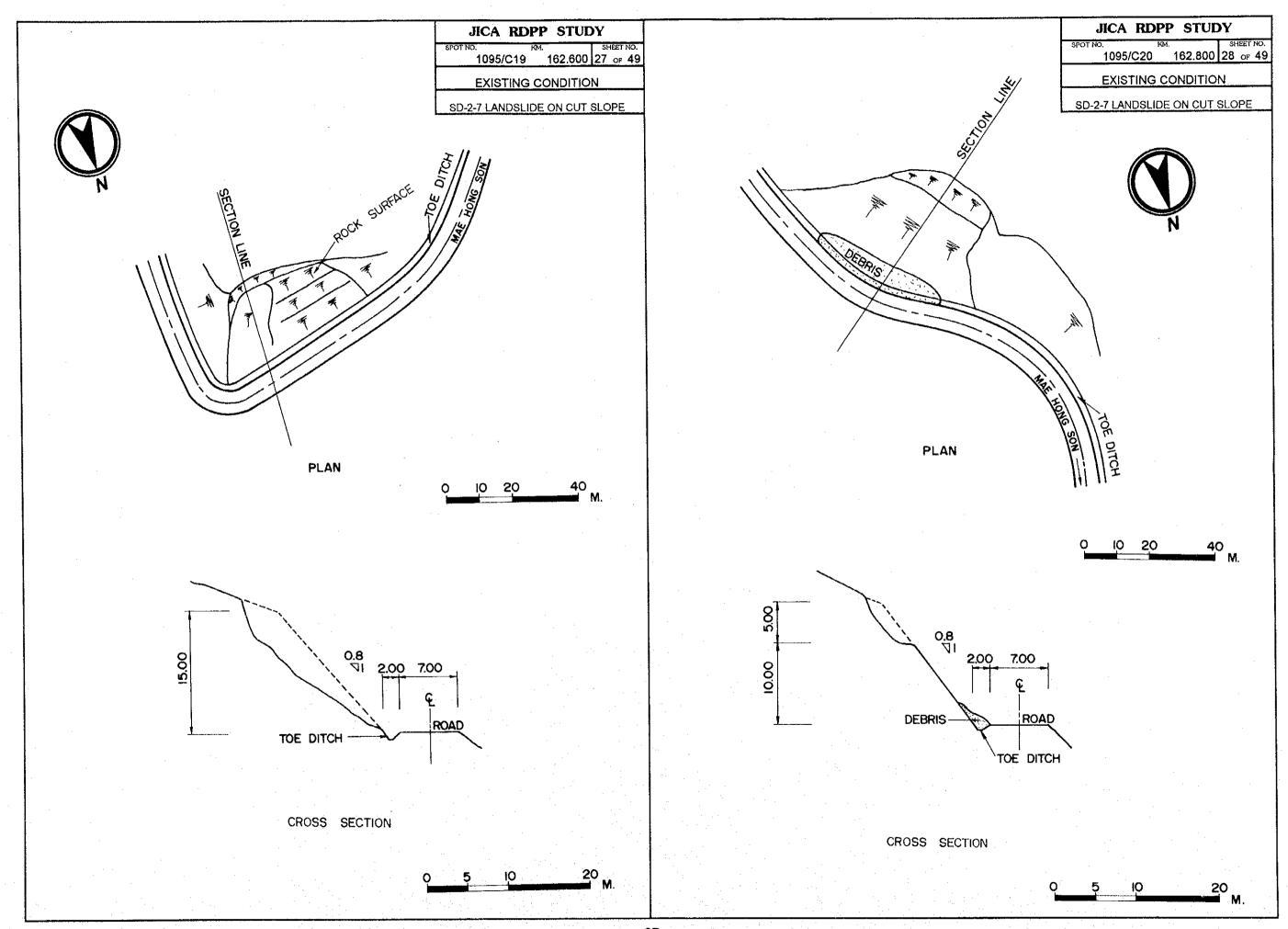


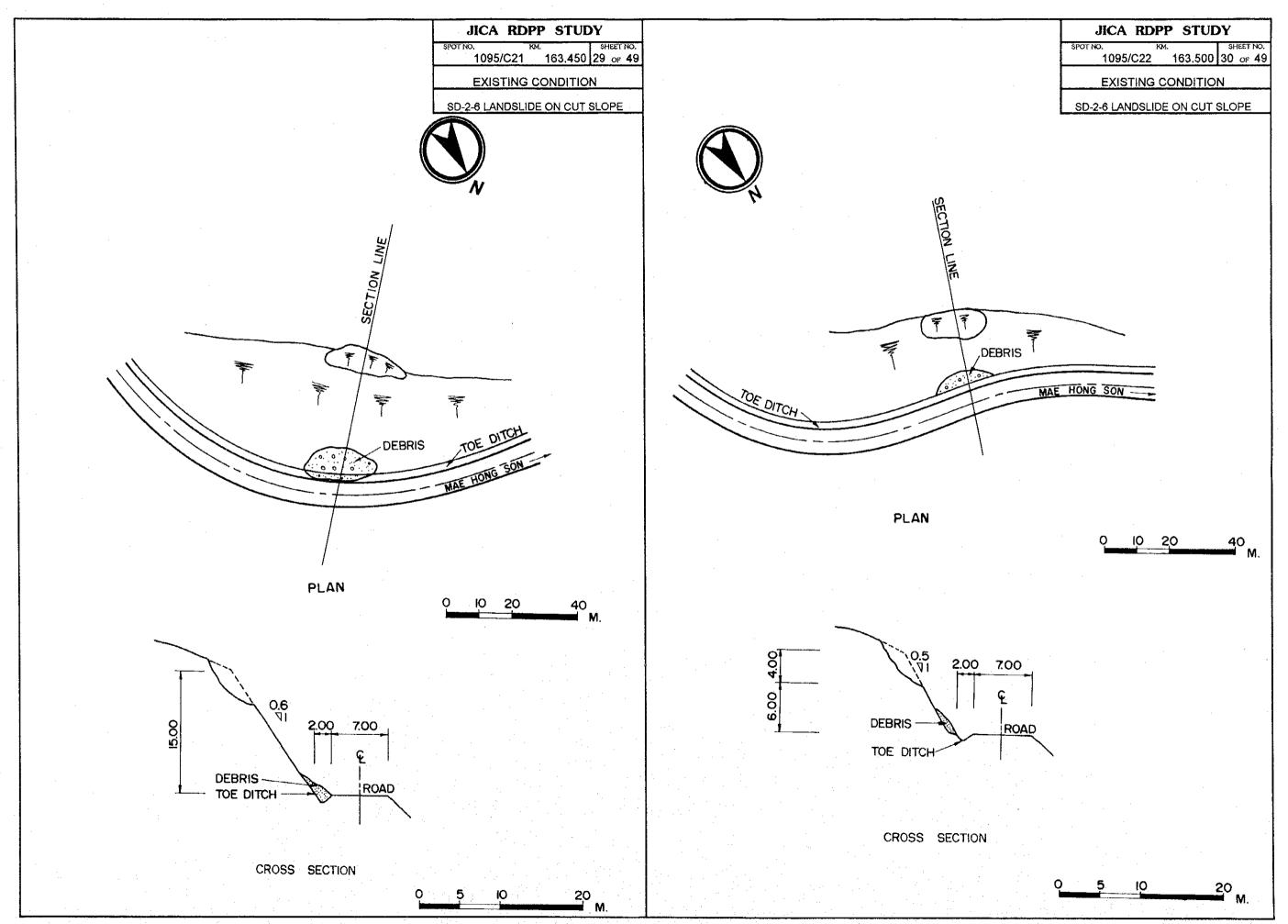


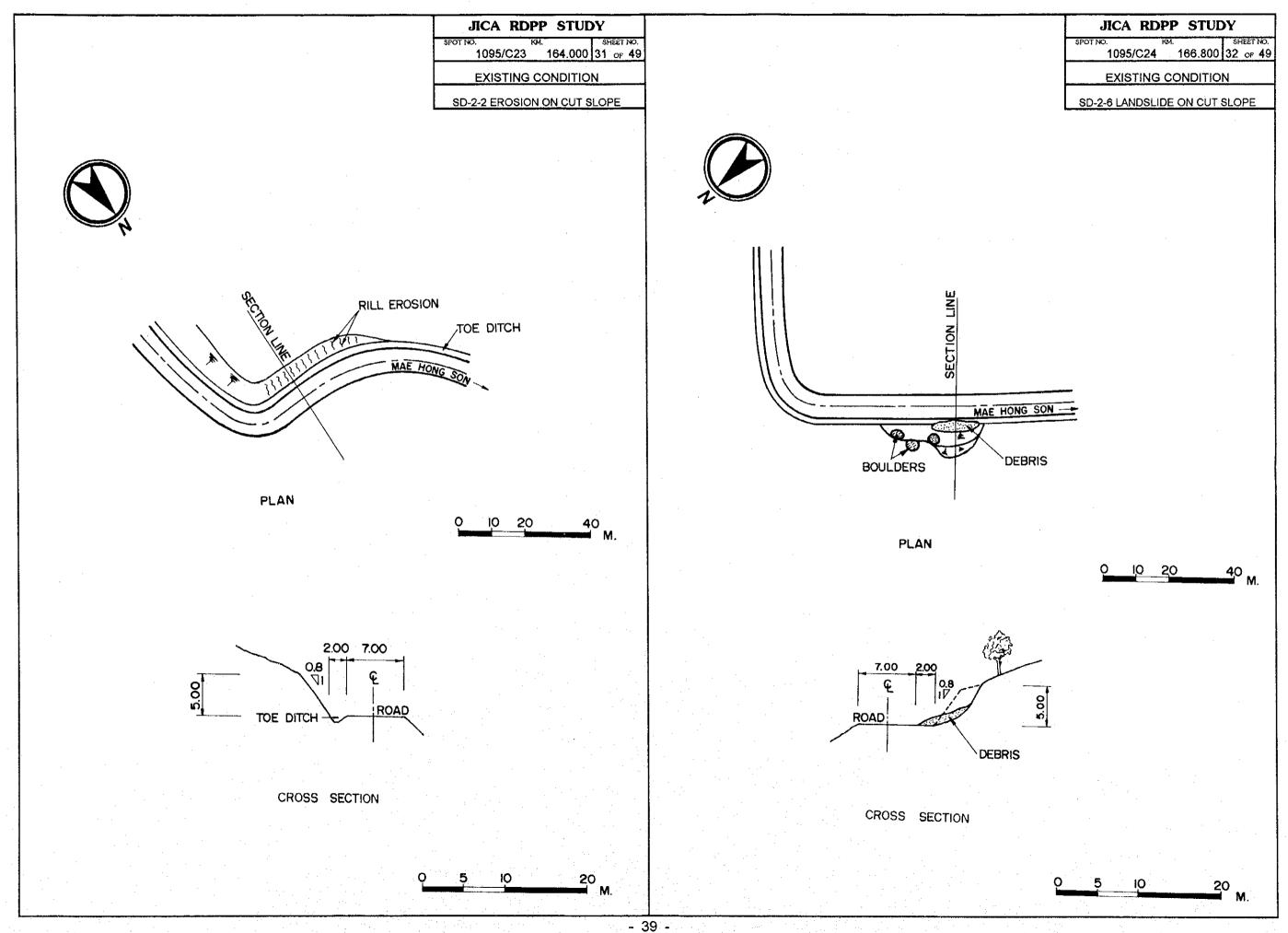


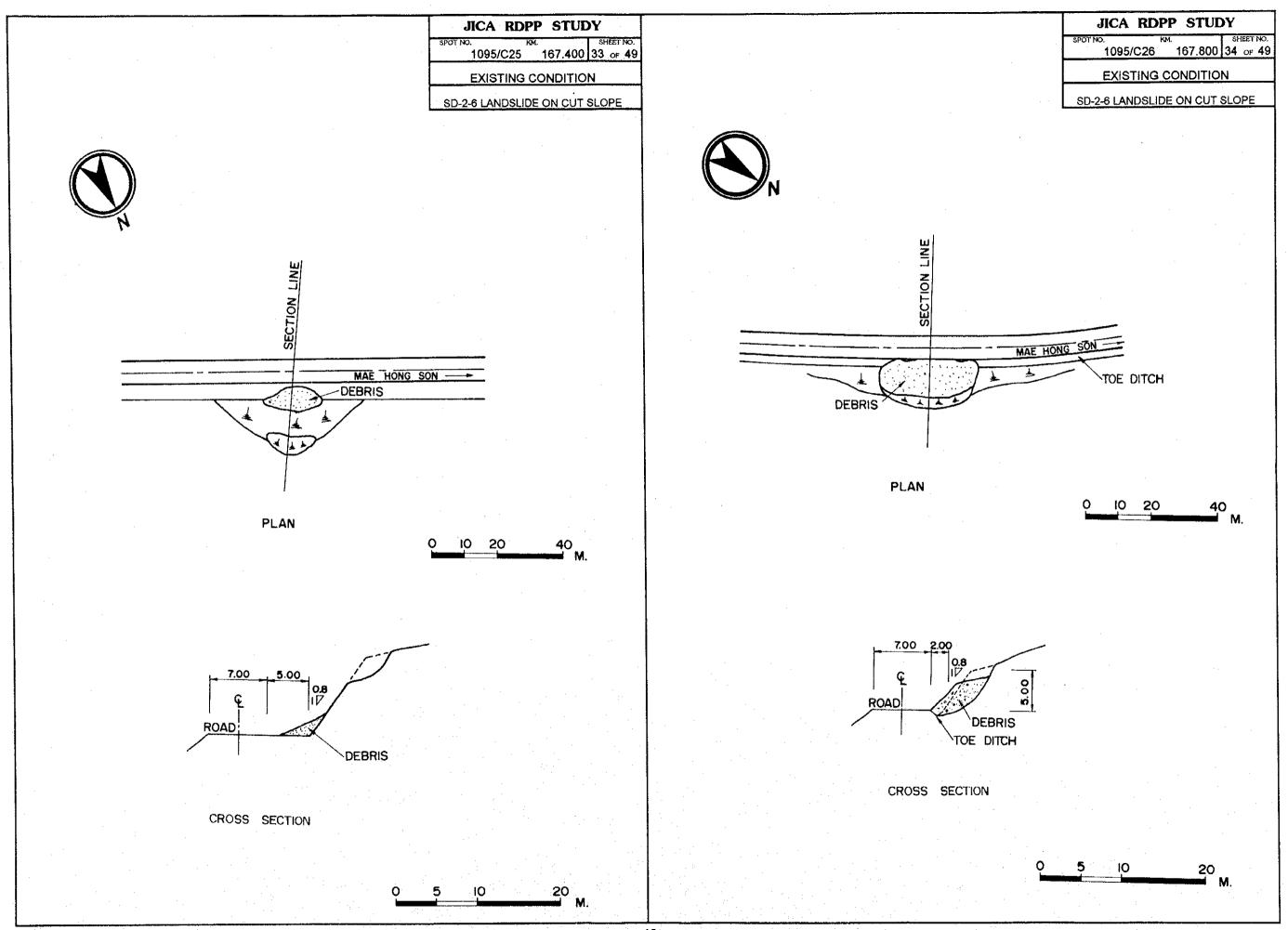


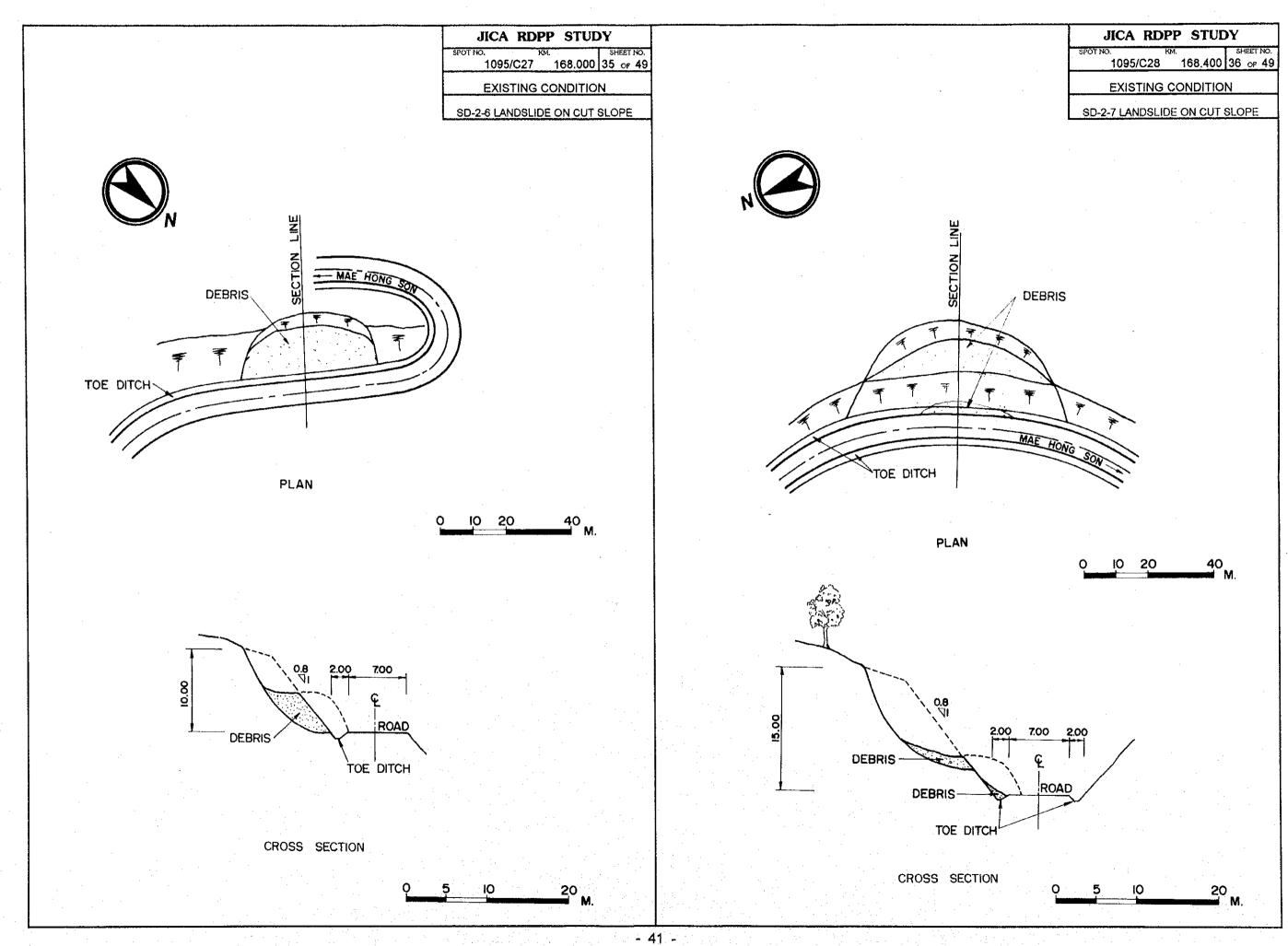


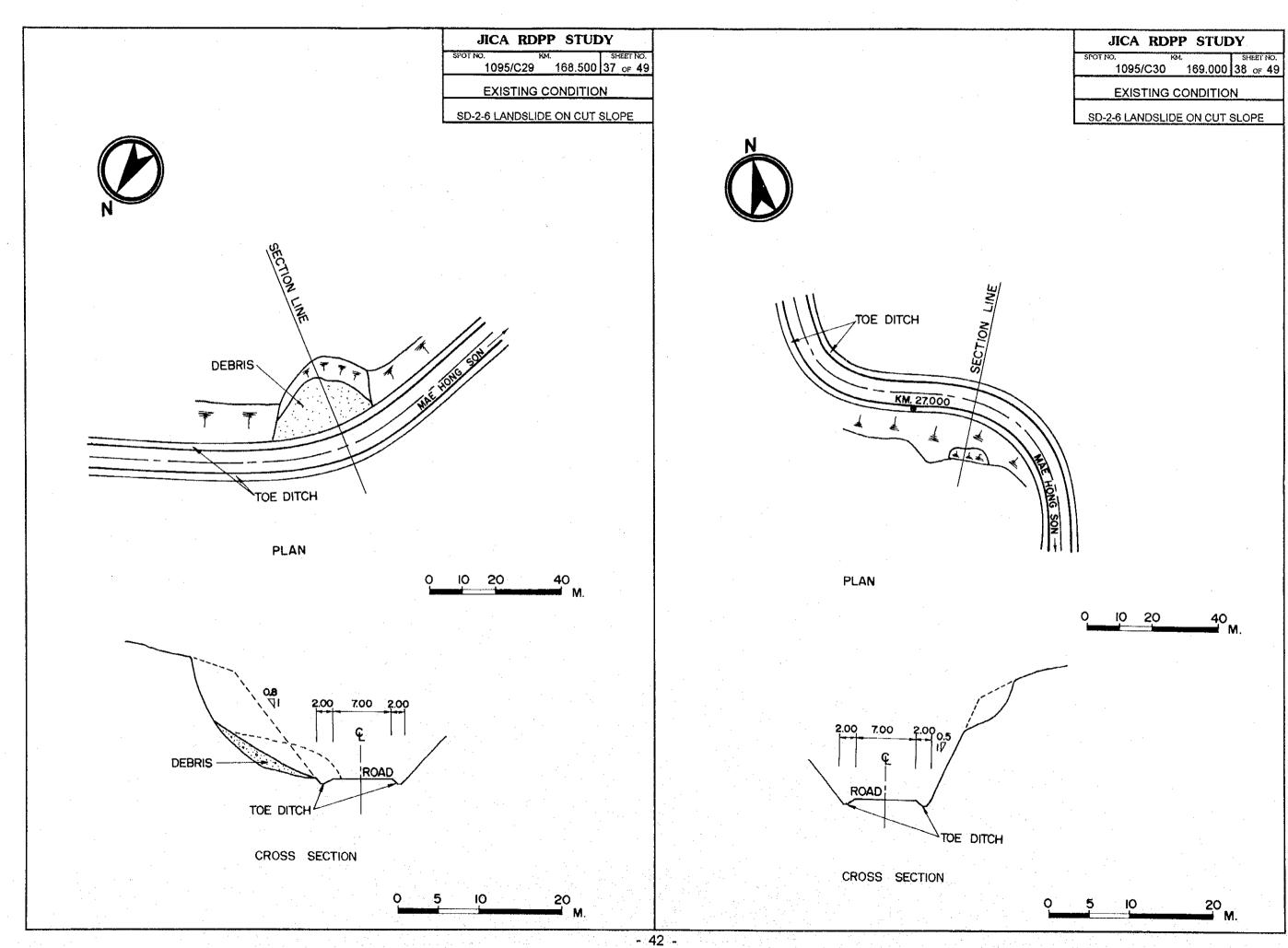


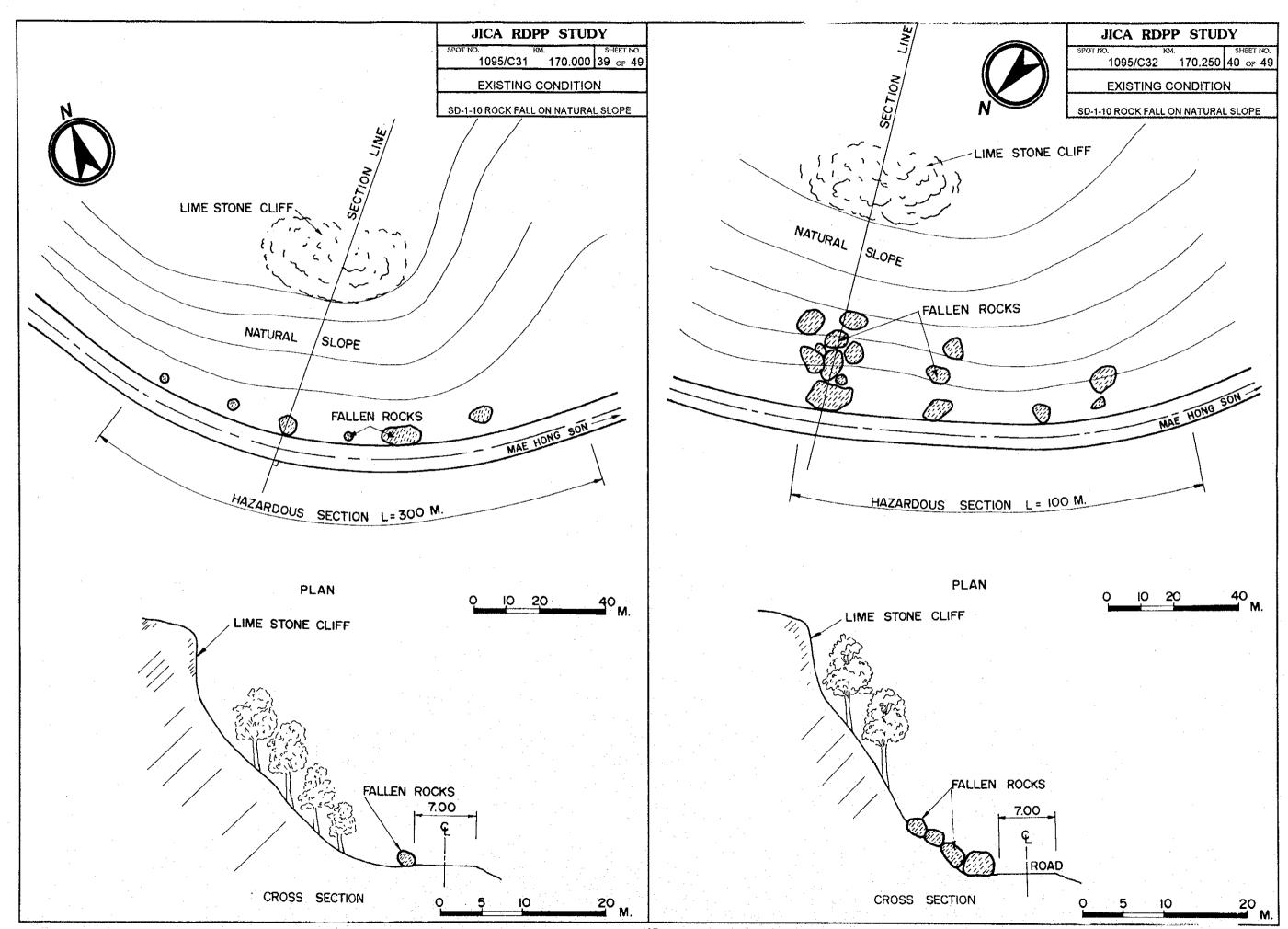


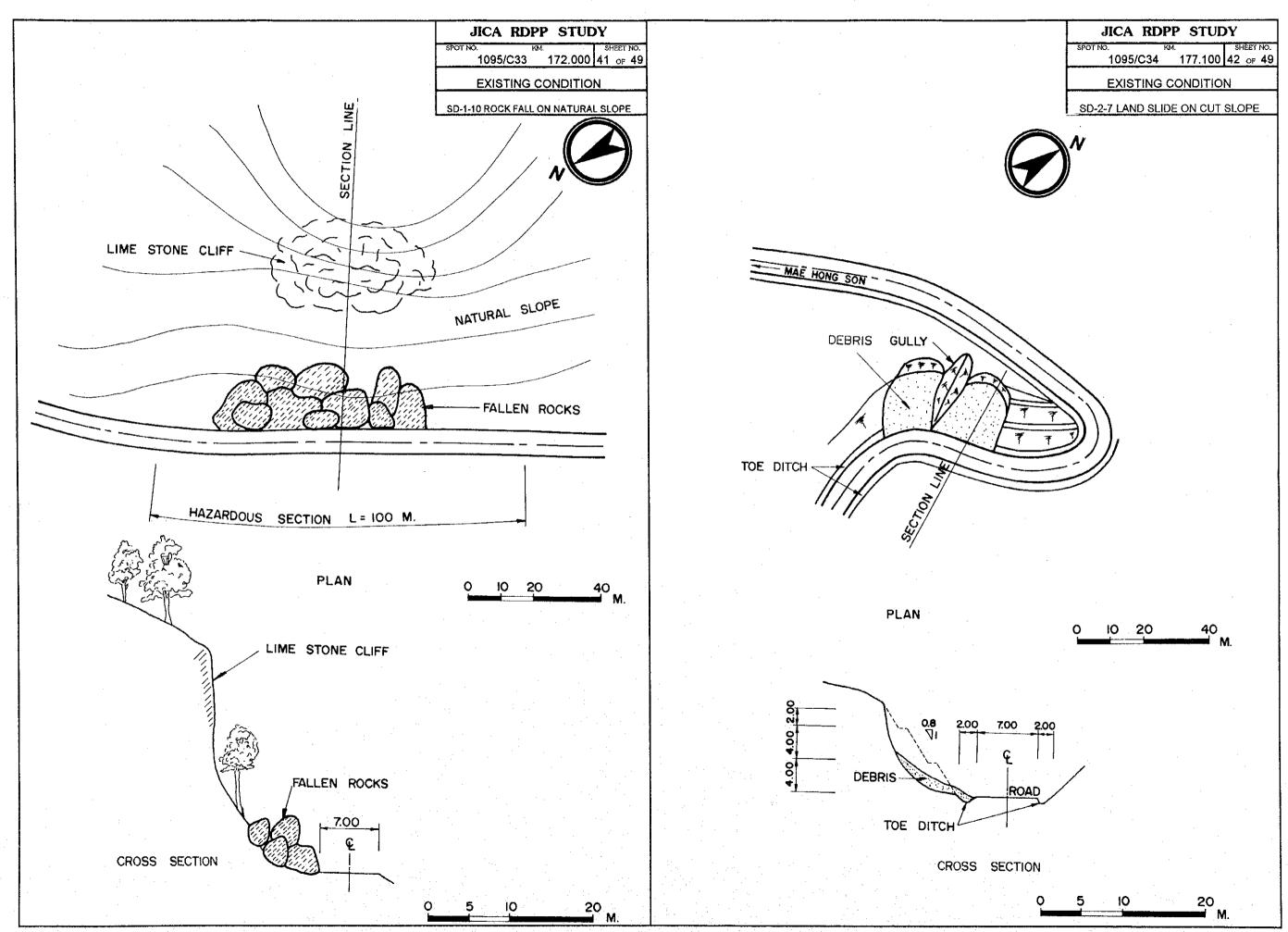




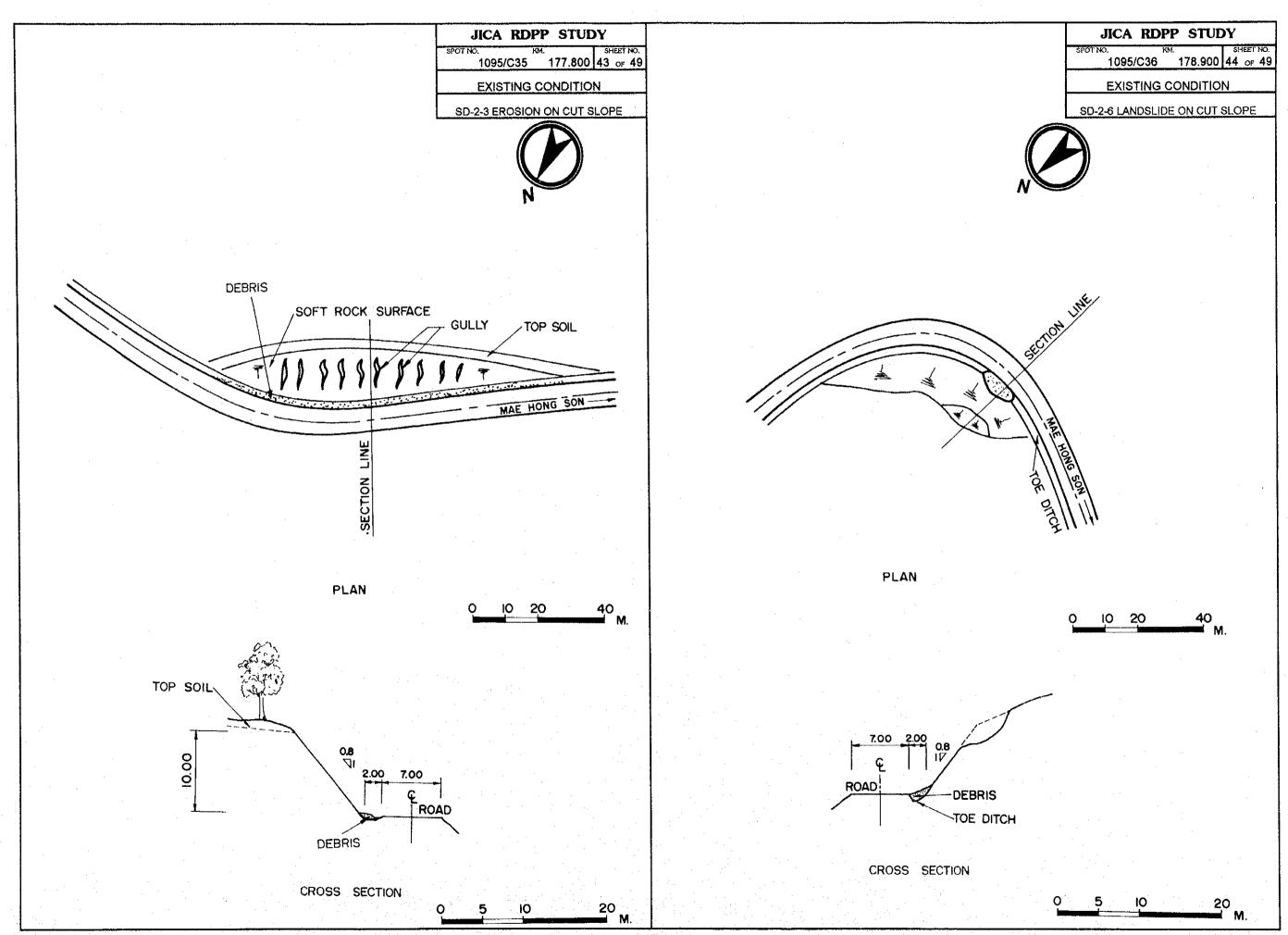


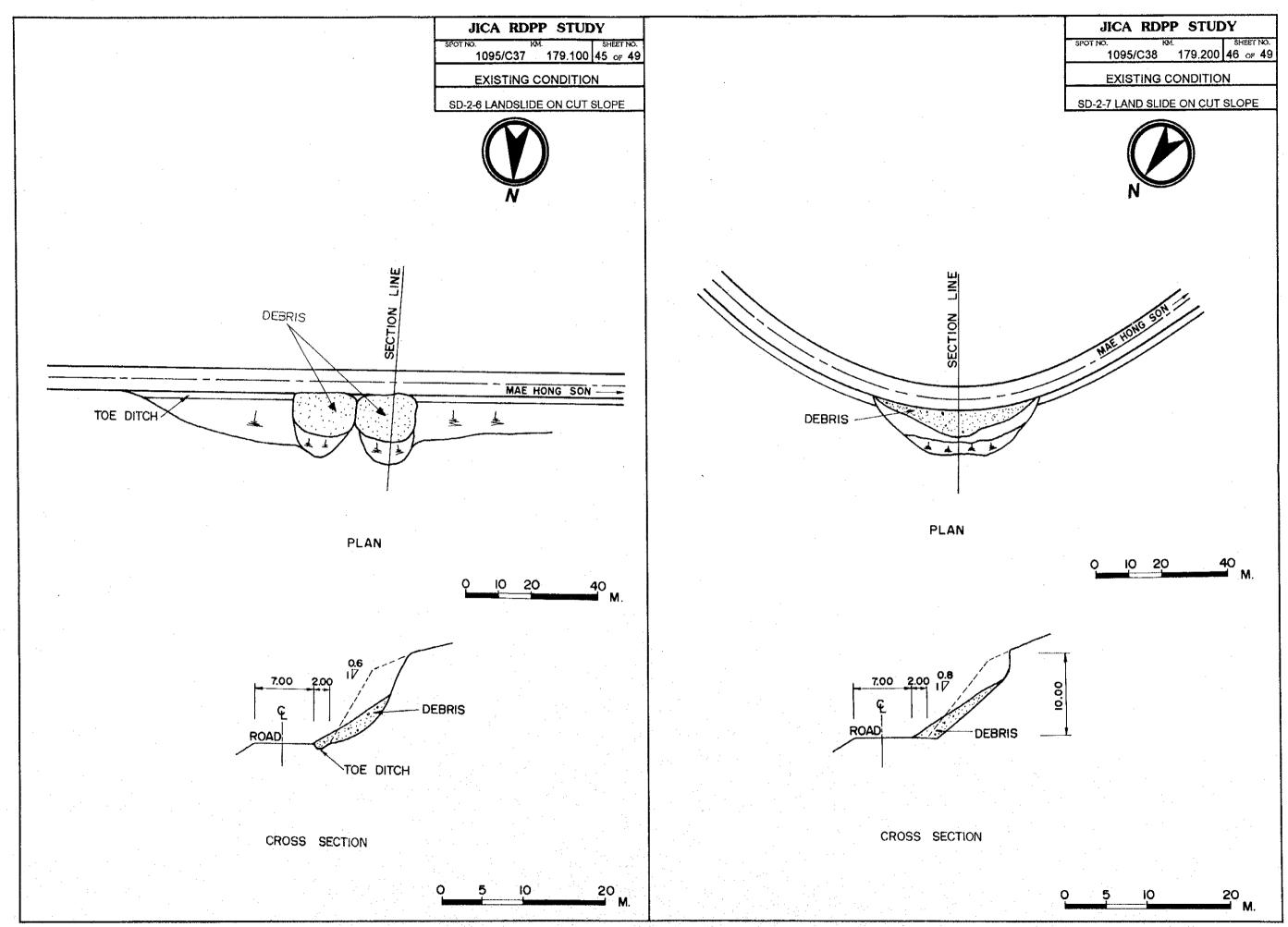


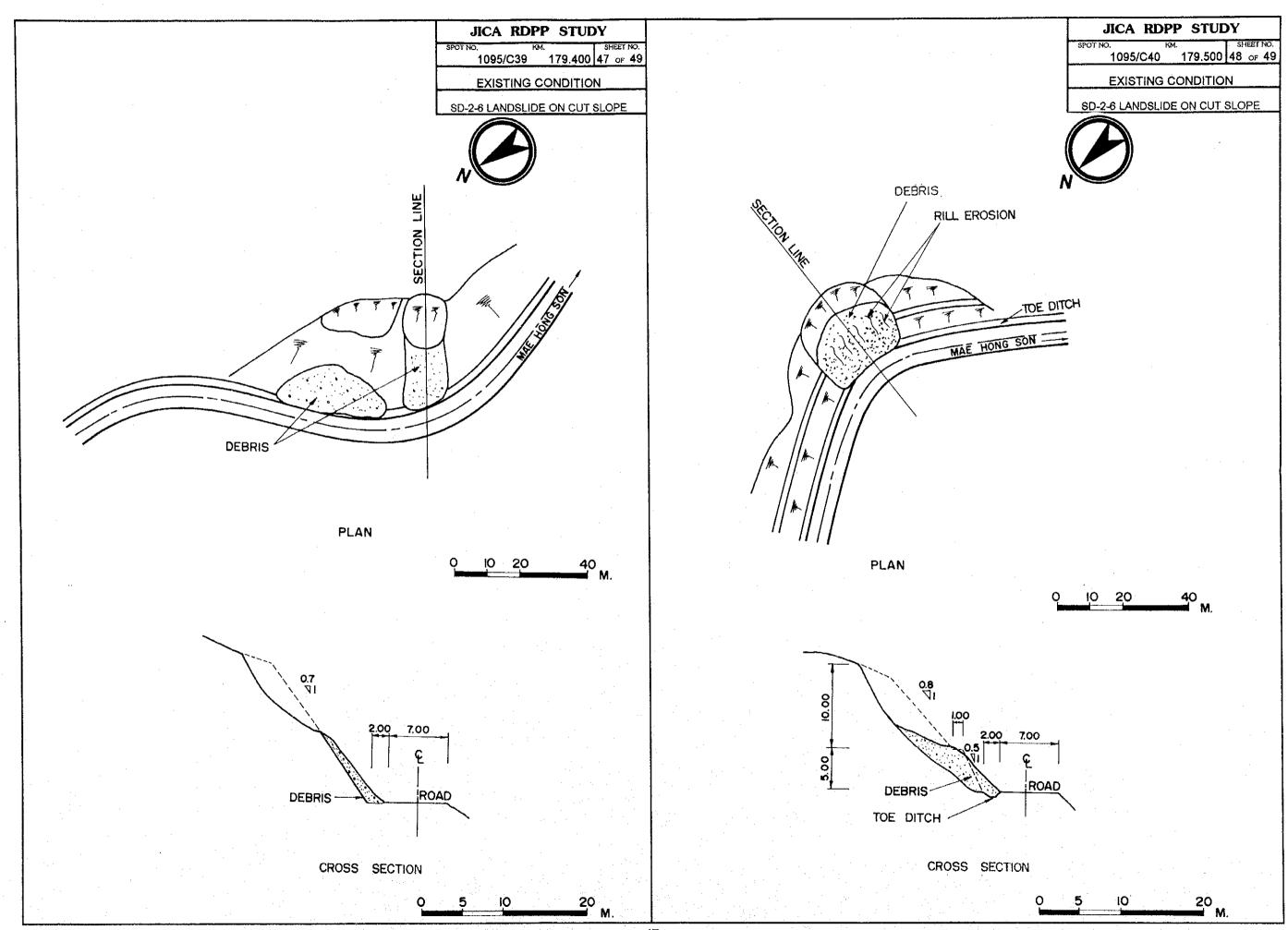


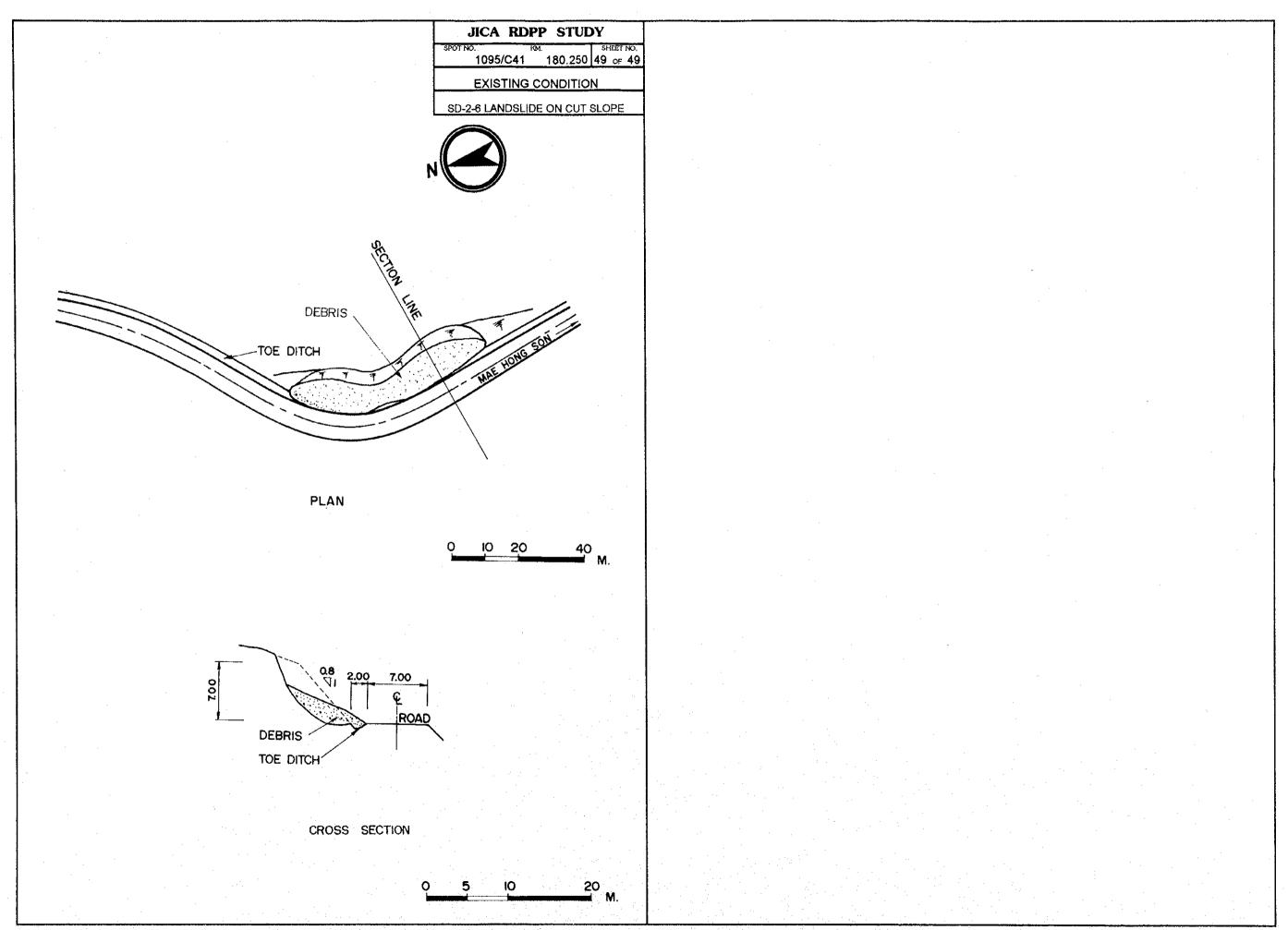


的大型的第三人称形式,这是一个大型,这是一个大型,这是一个大型,这是一个大型,这一个大型,这一个大型,这一个大型,这一个大型,这一个大型,这一个大型,这一个大型 第三人称:"我们是一个大型,我们就是一个大型,我们就是一个大型,我们就是一个大型,我们就是一个大型,我们就是一个大型,我们就是一个大型,我们就是一个大型,我们就是









IV. Preliminary Design for Route 1149

1. Location of Disaster Spots

## LOCATION OF DISASTER SPOTS

## **ALIGNMENT OF ROUTE 1149**

## DISASTER SPOTS

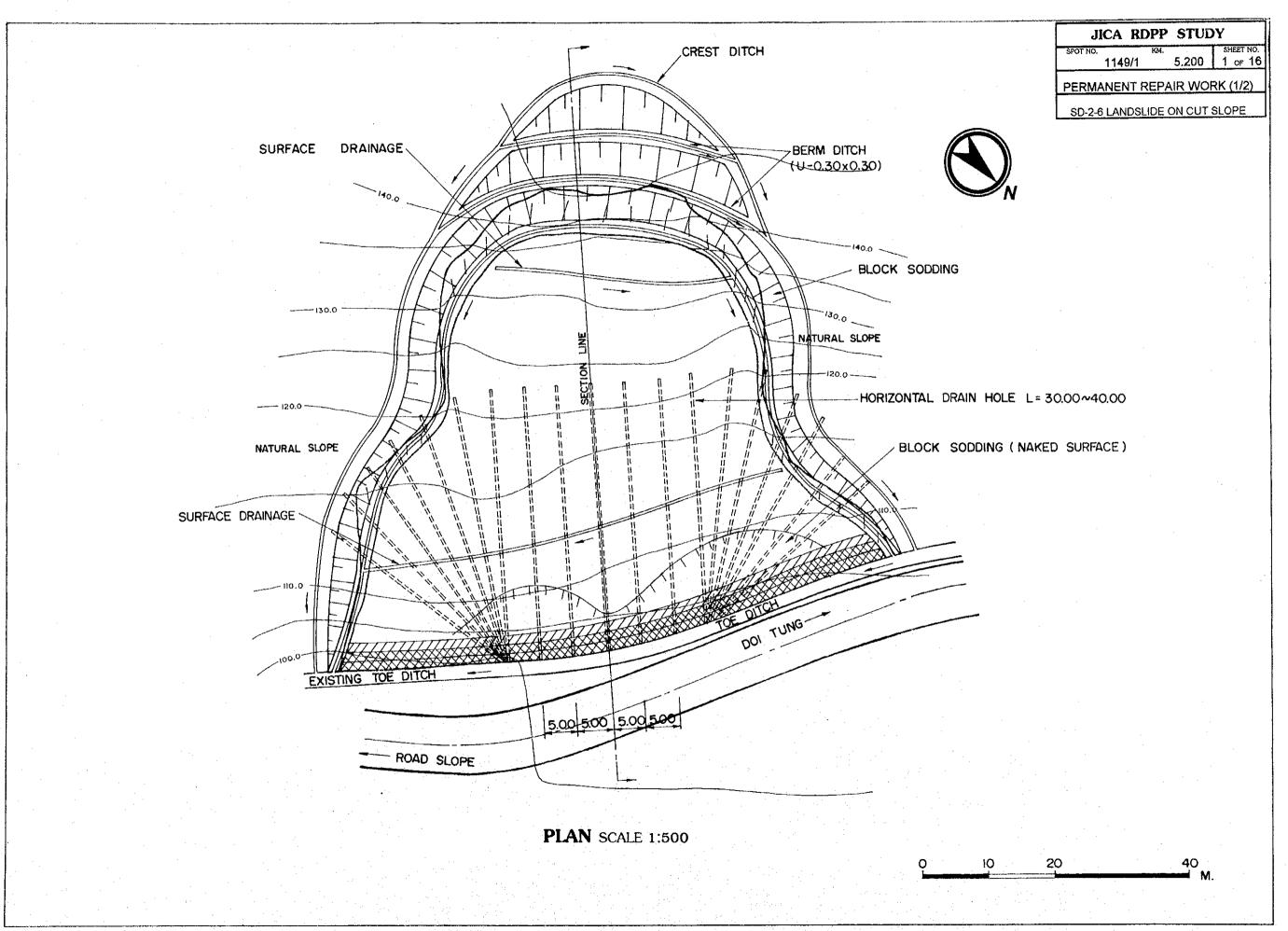
SPOT NO.	CONTROL NO.	CHAINAGE NO.	DAMAGE TYPE
1149/C1	0100	4.200	SD-2-3
1149/C2	0100	4.500	SD-2-3
1149 <sup>′</sup> /C3	0100	4.600	SD-2-3
1149/1	0100	5.200	SD-2-6
1149/C4	0100	5.450	SD-2-3
1149/C5	0100	6.700	SD-2-3
1149 <sup>′</sup> /C6	0100	8.700	SD-2-3
1149/C7	0100	9.350	SD-2-3
1149/C8	0100	9.500	SD-2-3
1149/C9	0100	9.700	SD-2-3
1149/2	0100	10.472	SD-2-3
1149/C10	0100	11.700	SD-2-6

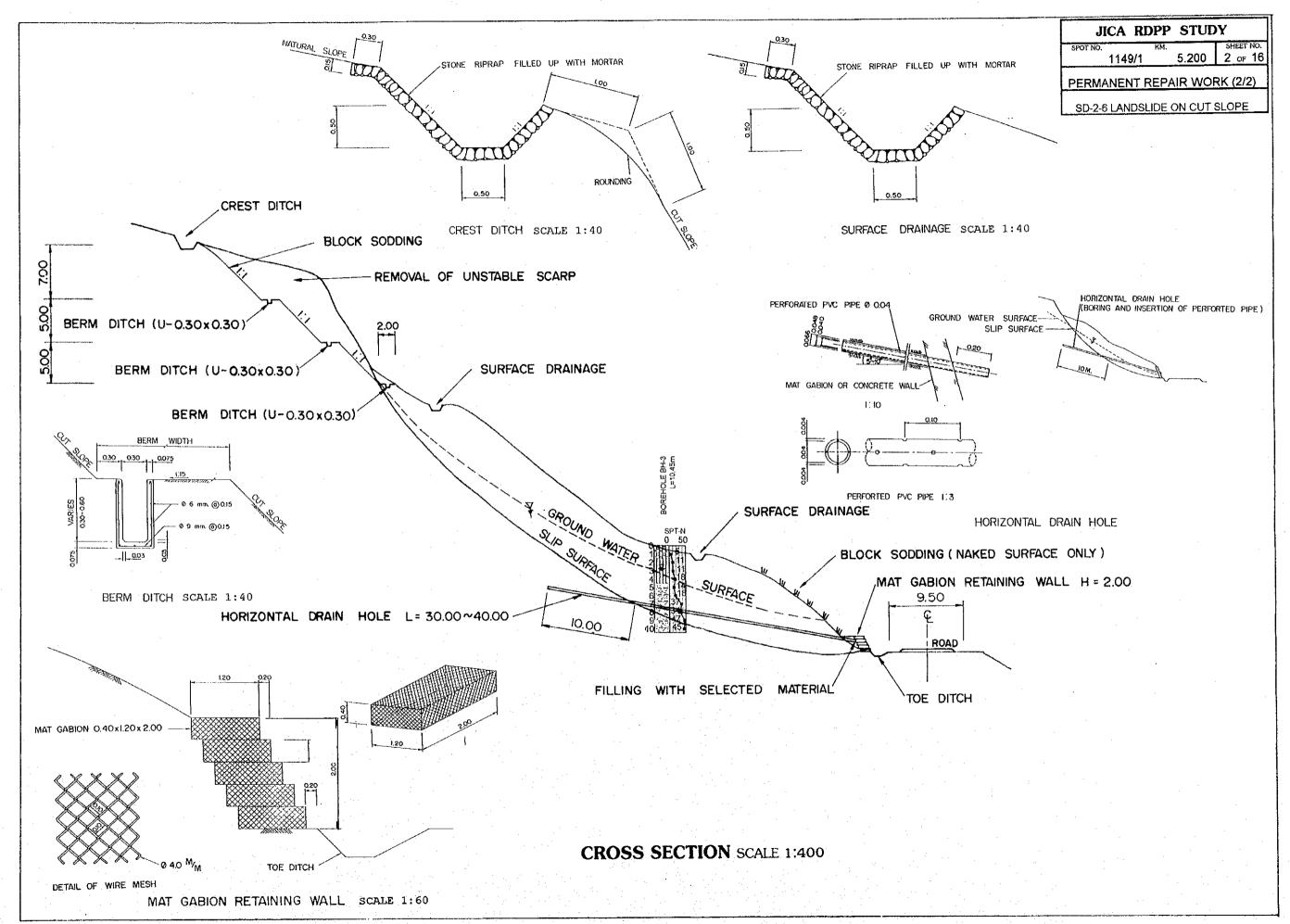
- Note for SPOT NO.

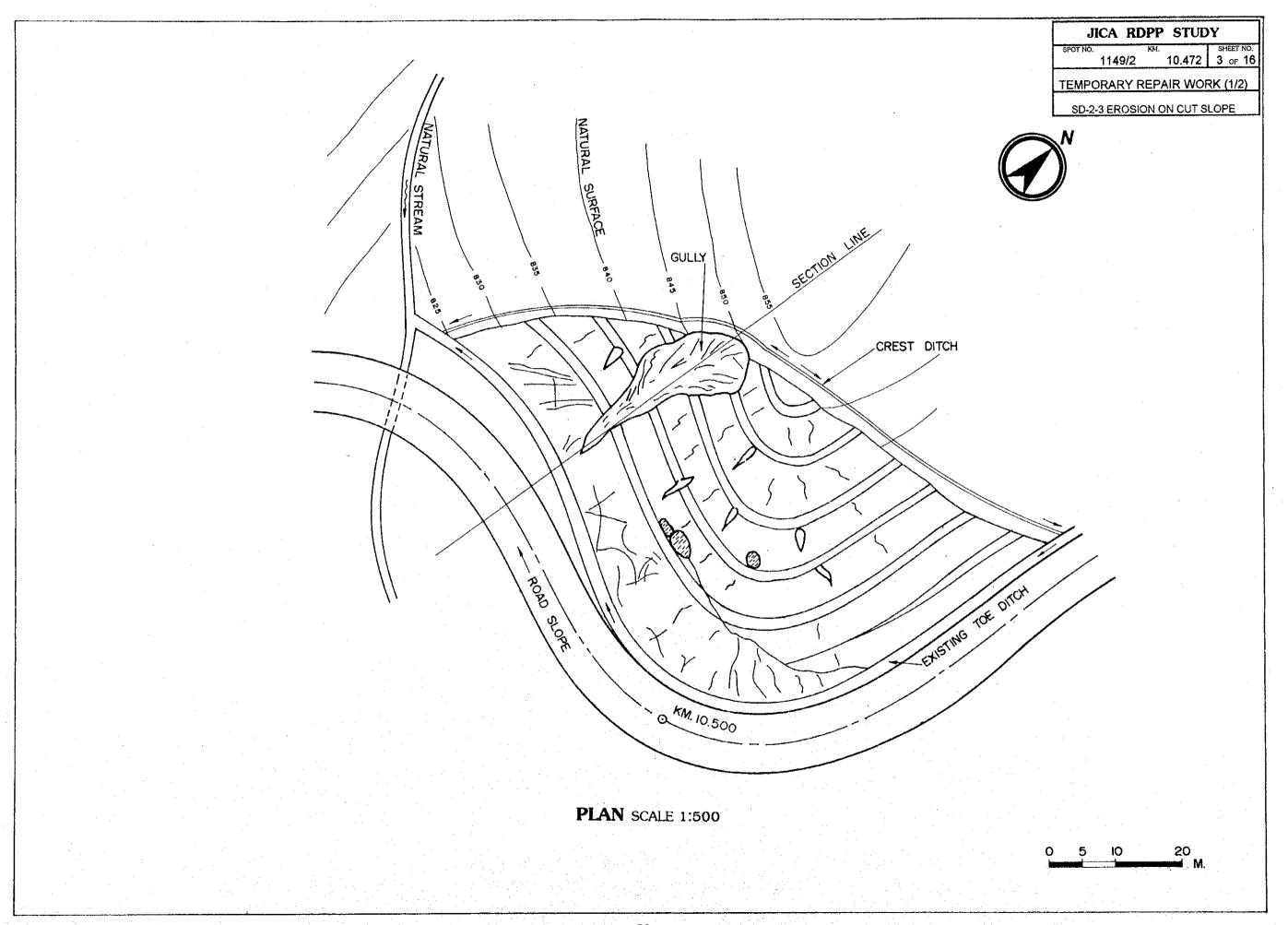
   Route No./1,2 ....: Spot for Preliminary Design and Cost Estimate.

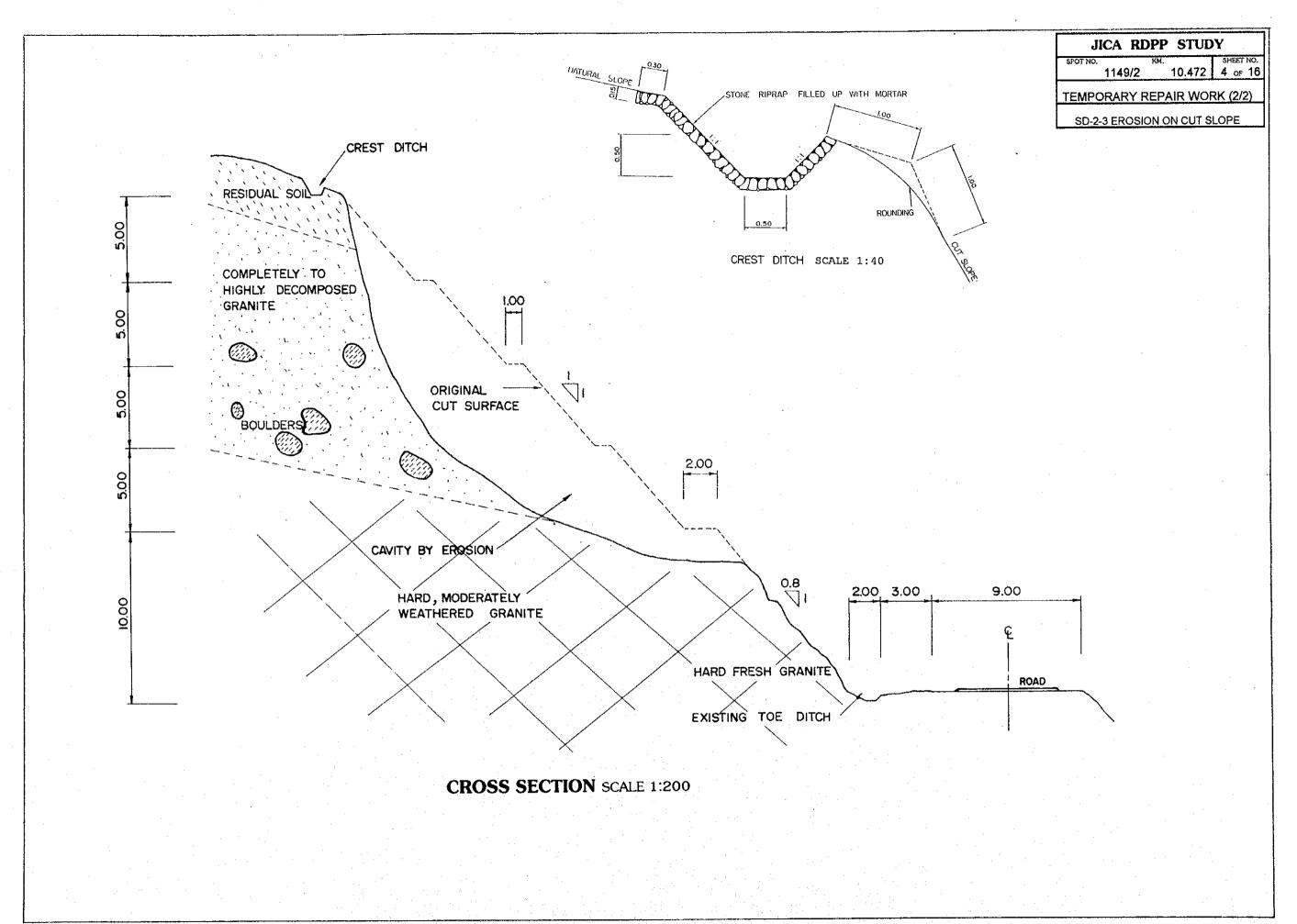
   Route No./C1,C2...: Spot for Cost Estimate

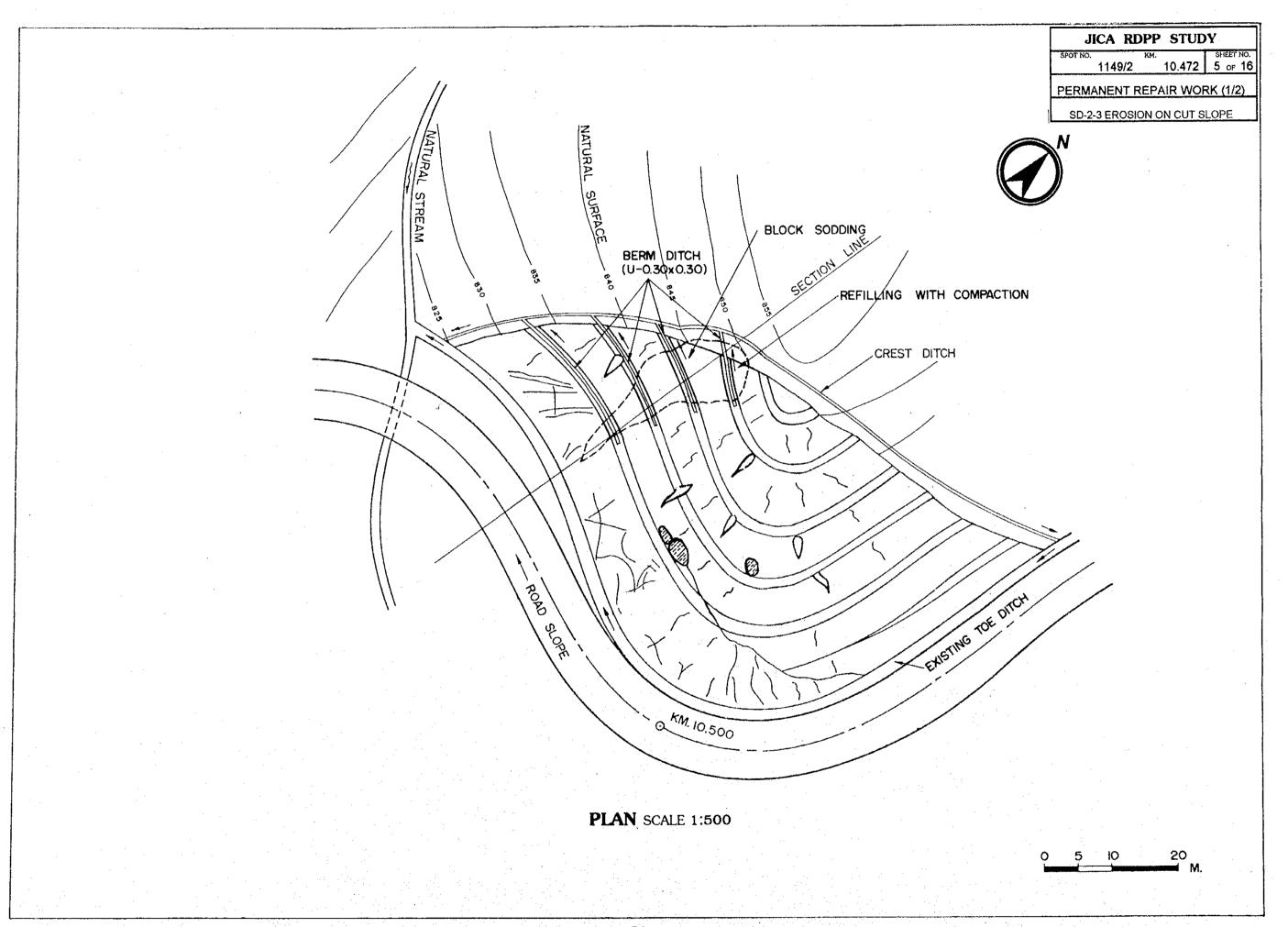
2. Drawings

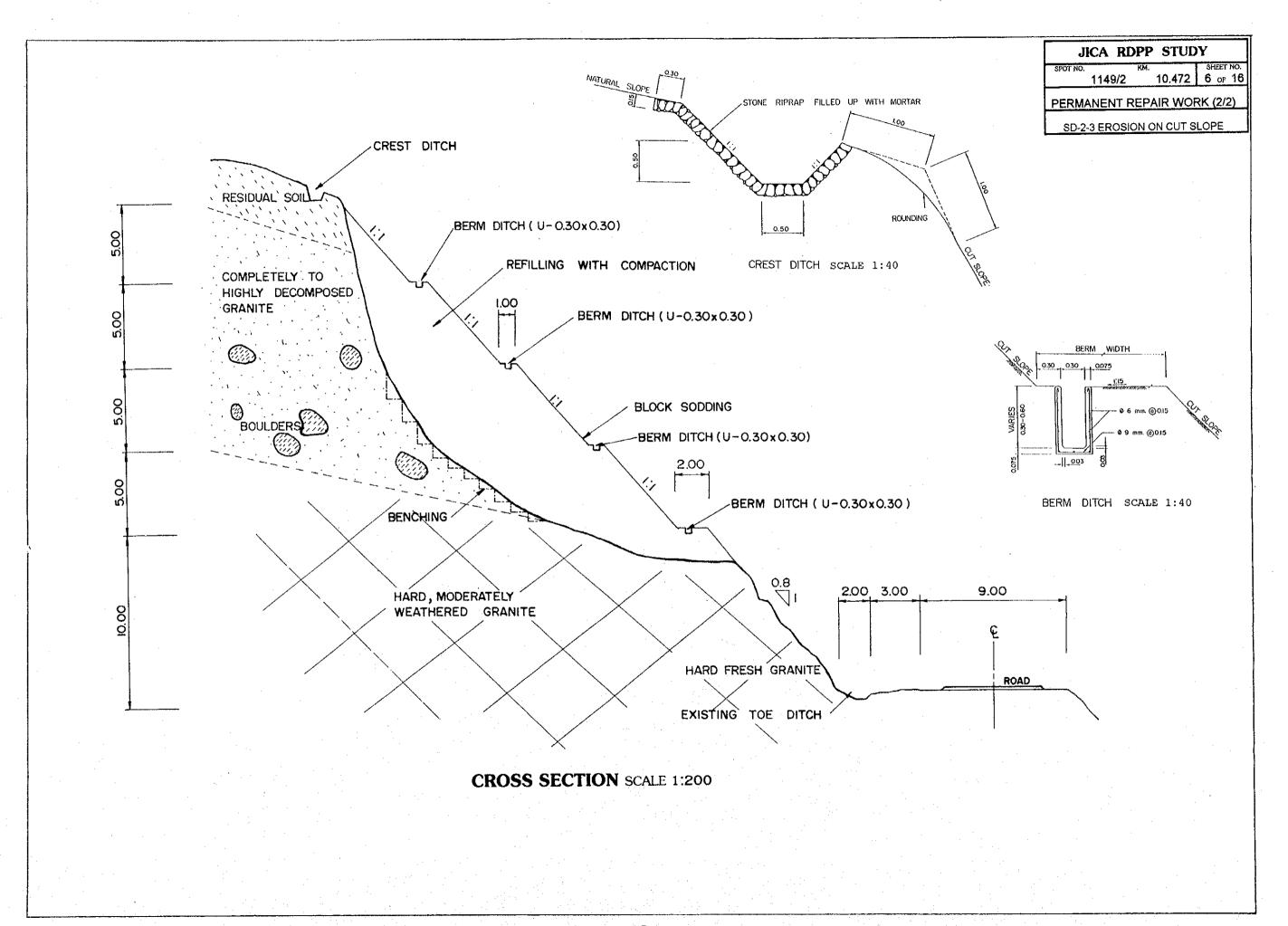




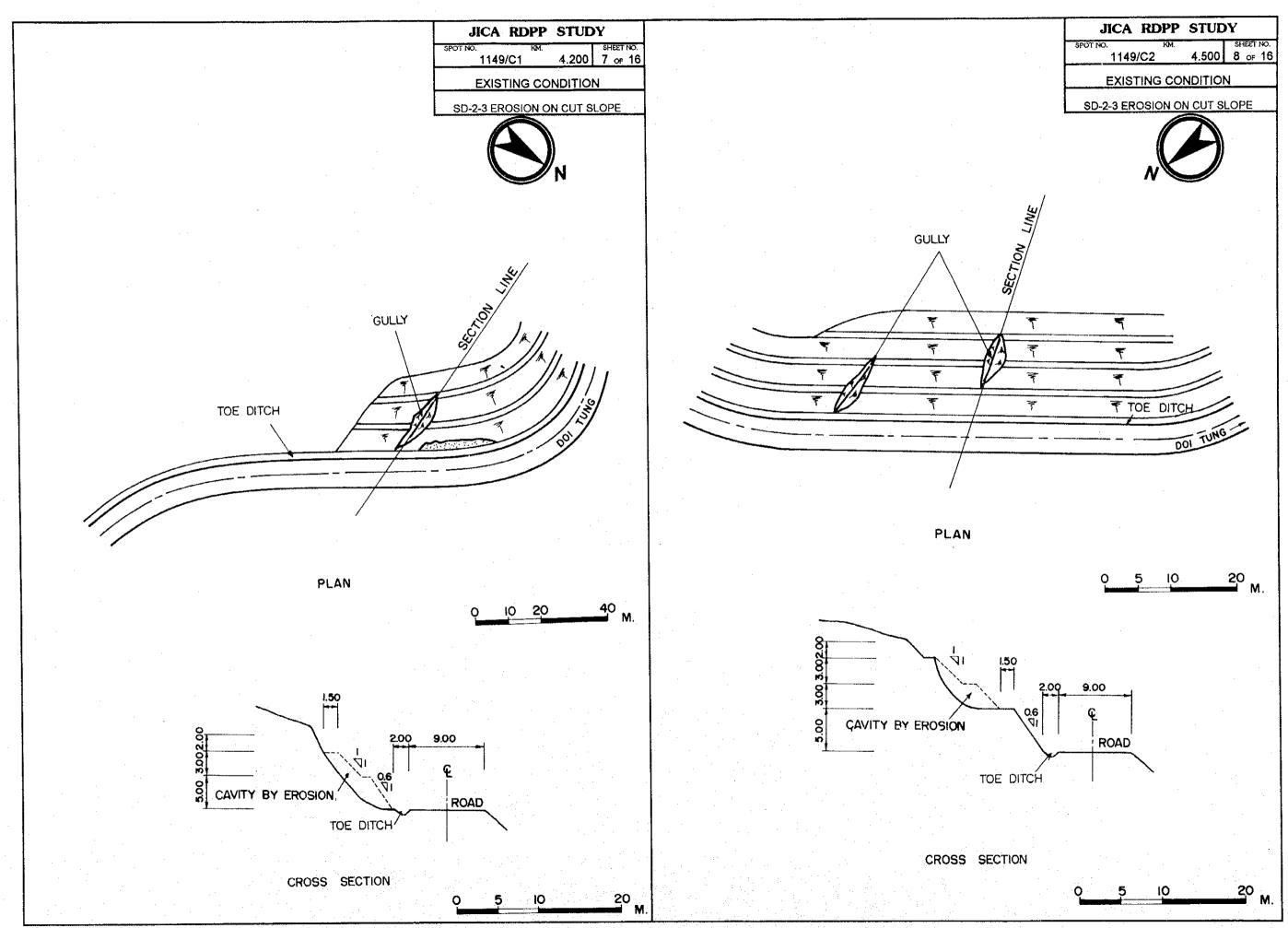


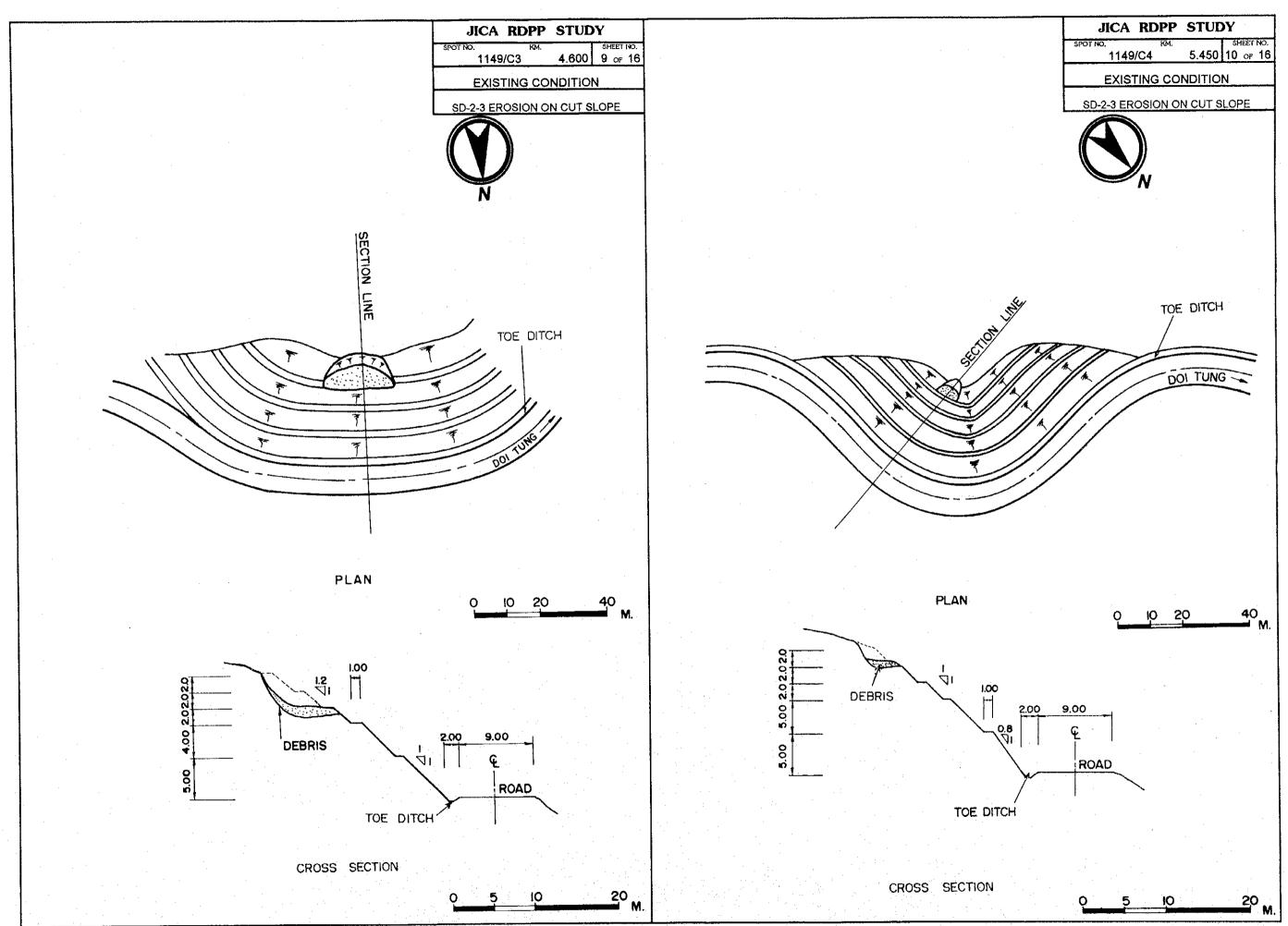


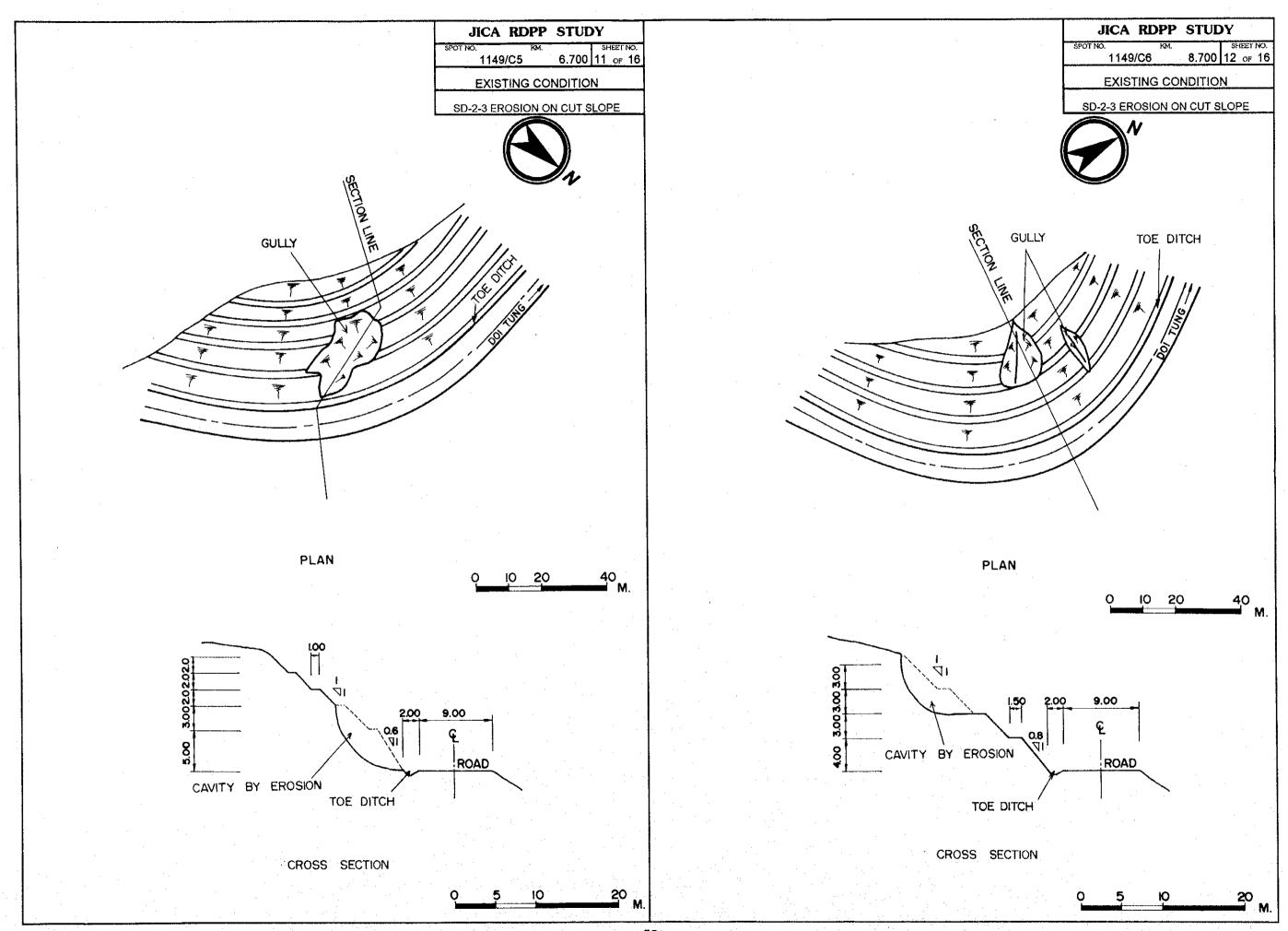


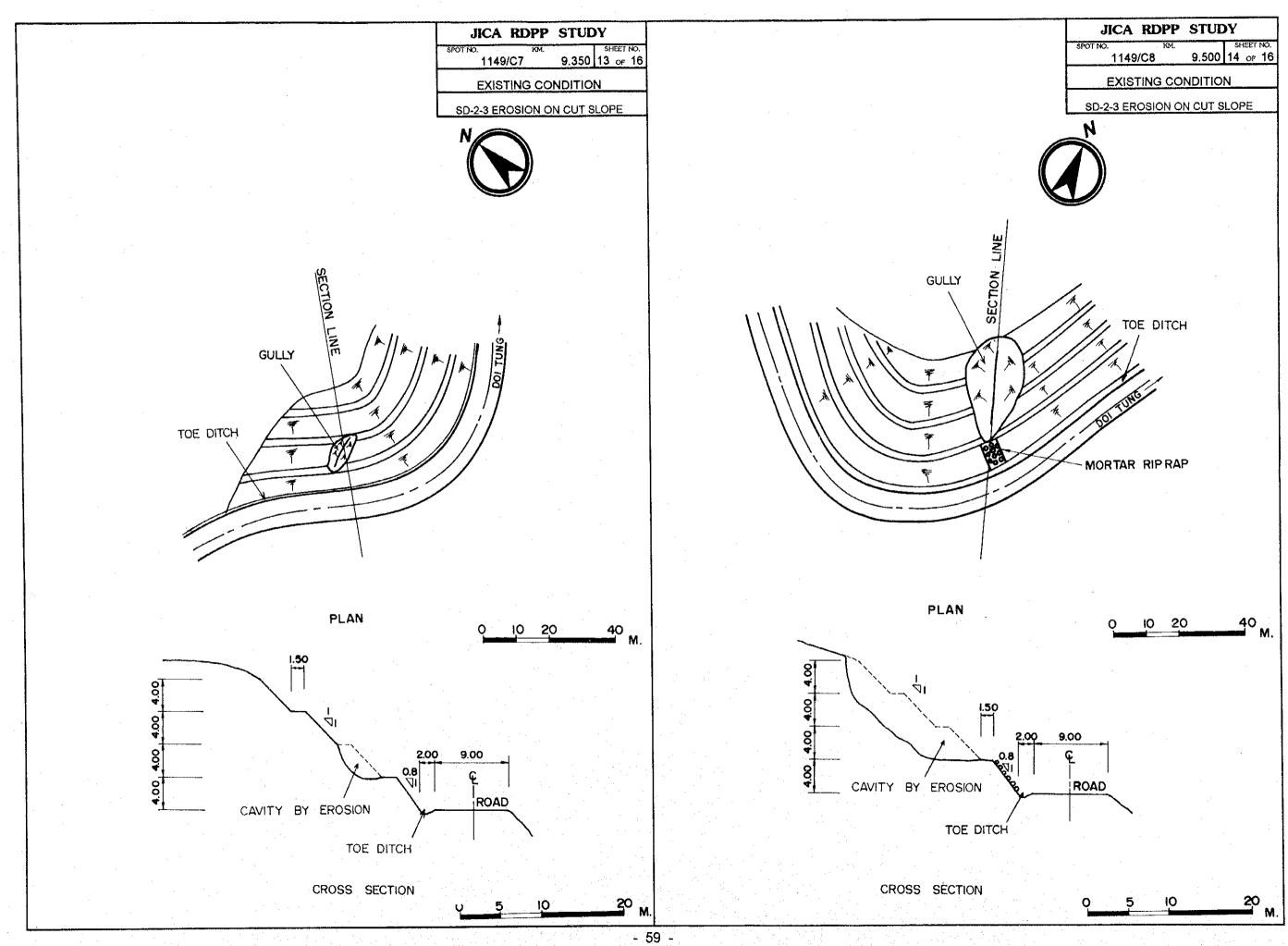


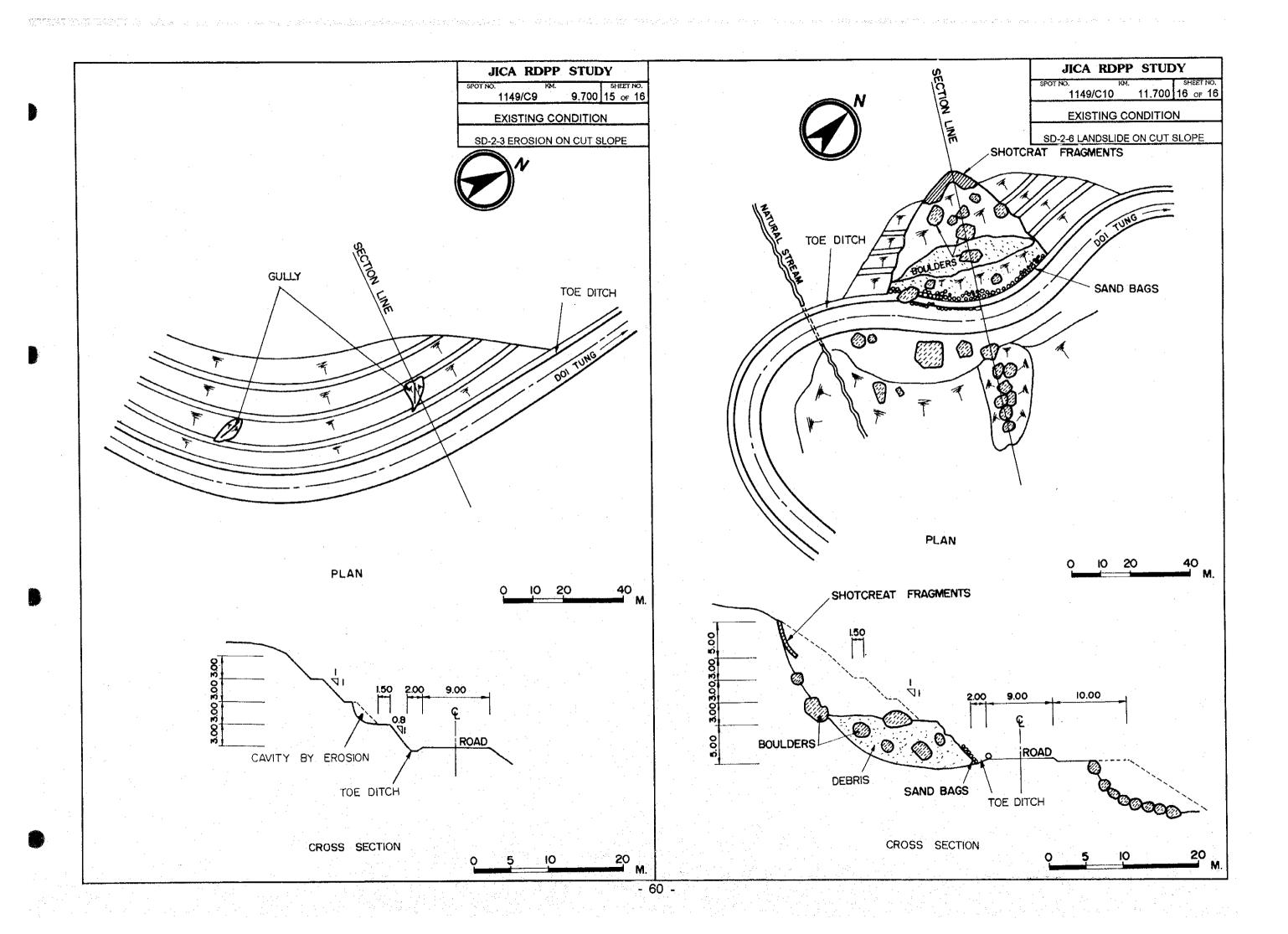
3. Existing Condition









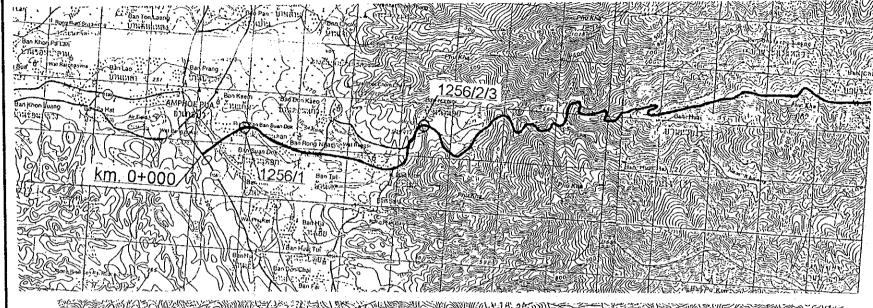


V. Preliminary Design for Route 1256

1. Location of Disaster Spots

## LOCATION OF DISASTER SPOTS

# ALIGNMENT OF ROUTE 1256





#### DISASTER SPOTS

SPOT	CONTROL	CHAINAGE	DAMAGE	
NO.	NO.	NO.	TYPE	
1256/1	0101	1.100	RF-1-2	
1256/2/3	0101	5.963	BC-1-5/9	
1256/C1	0101	6.900	SD-2-6	
1256/C2	0101	9.100	SD-2-9	
1256/C3	0101	10.100	SD-2-6/3	
1256/C4	0101	12.750	SD-2-7	
1256/4	0101	22.000	SD-2-3	
1256/C5	0101	22.200	SD-2-3	
1256/5	0101	22.650	SD-3-6	
1256/C6	0101	24.500	SD-2-3	
1256/6	0101	25.800	SD-2-6	
1256/7	0101	27.800	SD-2-7	
1256/C7	0101	28.100	SD-2-8	
1256/C8	0101	29.800	SD-2-6	
1256/C8	0101	31.100	SD-2-6	
1256/C9	0101	31.800	SD-2-6	
1256/C10	0101	31.900	SD-2-6	
1256/C11	0101	31.950	SD-2-7	
1256/C12	0101	33.640	SD-2-8	
1256/C13	0101	33.675	SD-2-10	
1256/C14	0101	33.950	SD-3-3	
1256/C15	0101	34.200	SD-2-10	
1256/C16	0101	35.800	SD-2-6	
1256/C17	0101	36.200	SD-2-6	
1256/C18	0101	36.400	SD-2-6	
1256/C19	0101	36.900	SD-2-6	
1256/C20	0101	39.100	SD-2-7	
1256/C21	0101	39.300	SD-2-7	
1256/C22	0101	39.500	SD-2-1	
1256/C23	0101	39.700	SD-2-8	
1250/023	0101	39.900	SD-2-8	
1256/C24		40.150	SD-3-7	
1256/8	0101	40.800	SD-2-8	
1256/C25	0101		SD-2-6	
1256/C26	0101	41.200 41.800	SD-2-6	
1256/C27	0101	42.200	SD-2-6	
1256/C28	0101			
1256/C29	0101	42.250	SD-2-6 SD-2-1	
1256/9	0101	43.000		
1256/C30	0101	43.300	SD-2-1	
1256/C31	0101	43.600	SD-2-1	
1256/C32	0101	43.700	SD-2-1	
1256/C33	0101	44.100	SD-2-6	
1256/C34	0101	44.500	SD-2-8	
1256/10		44.600	SD-2-10	
1256/C35		45.500	SD-2-7	
1256/11/1	2 0101	45.675	SD-2-8/3-7	
Note for SPOT NO.				

Note for SPOT NO.

- Route No./1,2 ...: Spot for Preliminary Design and Cost Estimate.

- Route No./C1,C2...: Spot for Cost Estimate