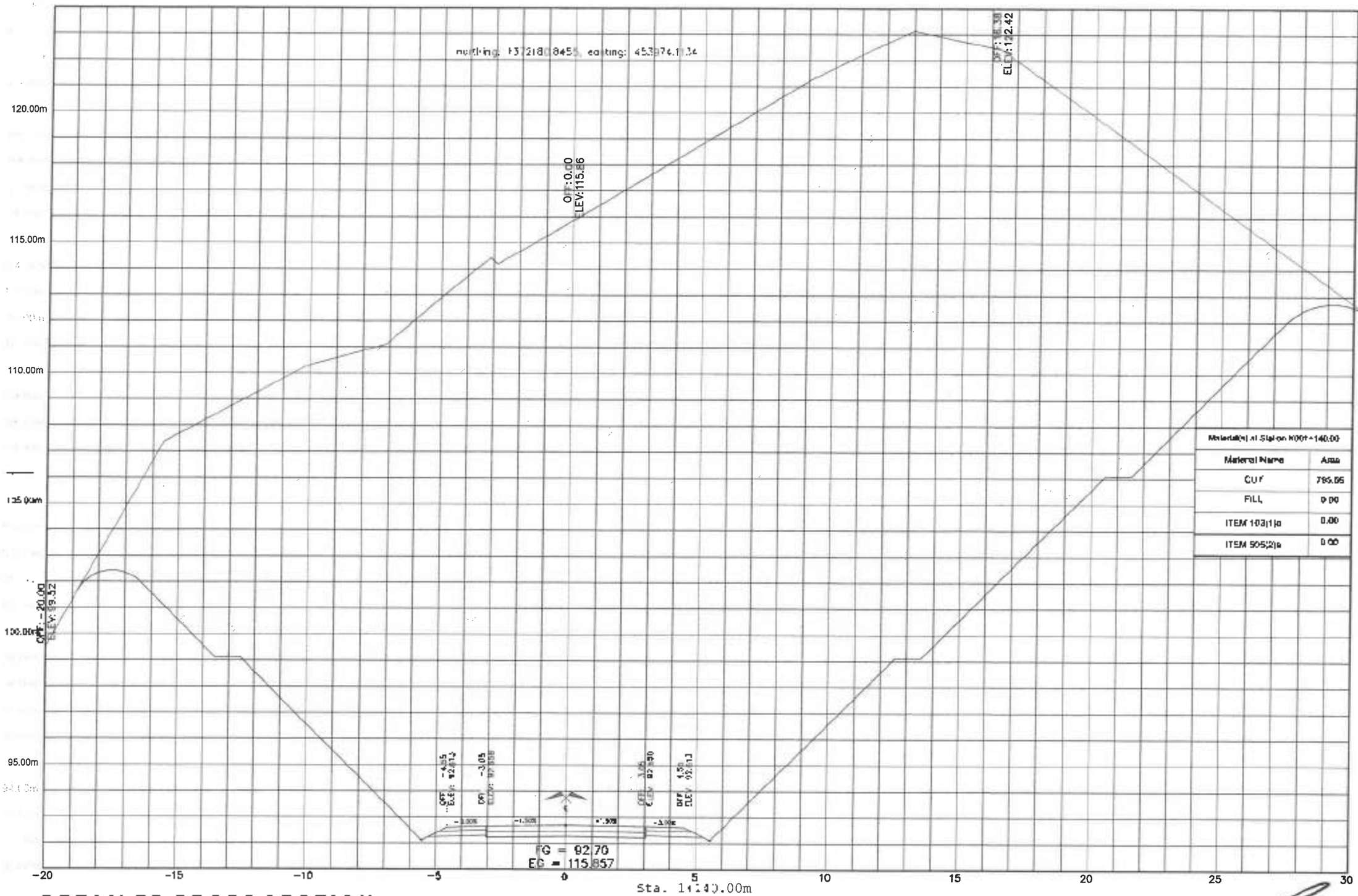


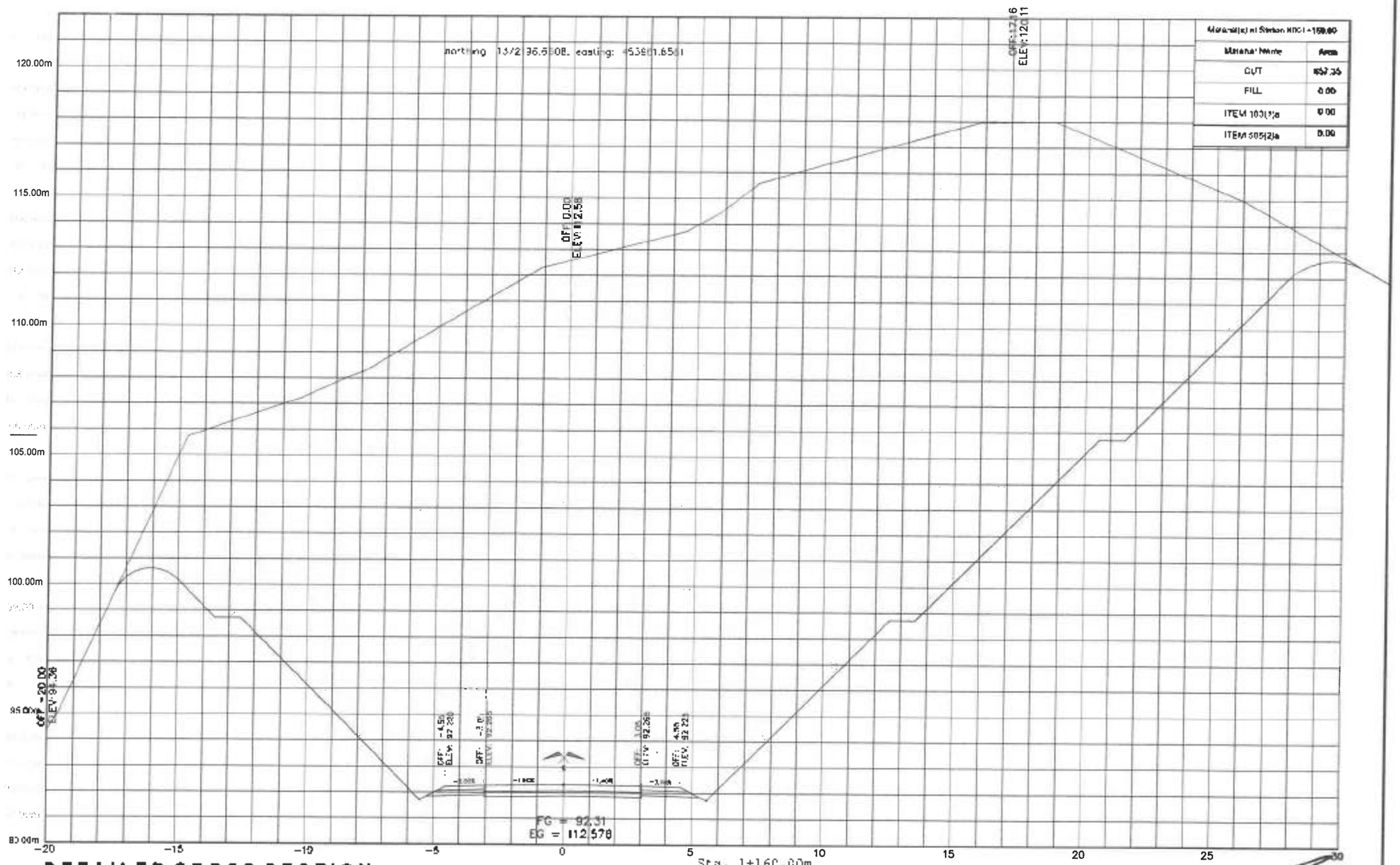
Material(s) at Sta. on KM0+140.00

Material Name	Area
CUT	785.05
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

DETAILED CROSS SECTION

SCALE: 1:100 METERS

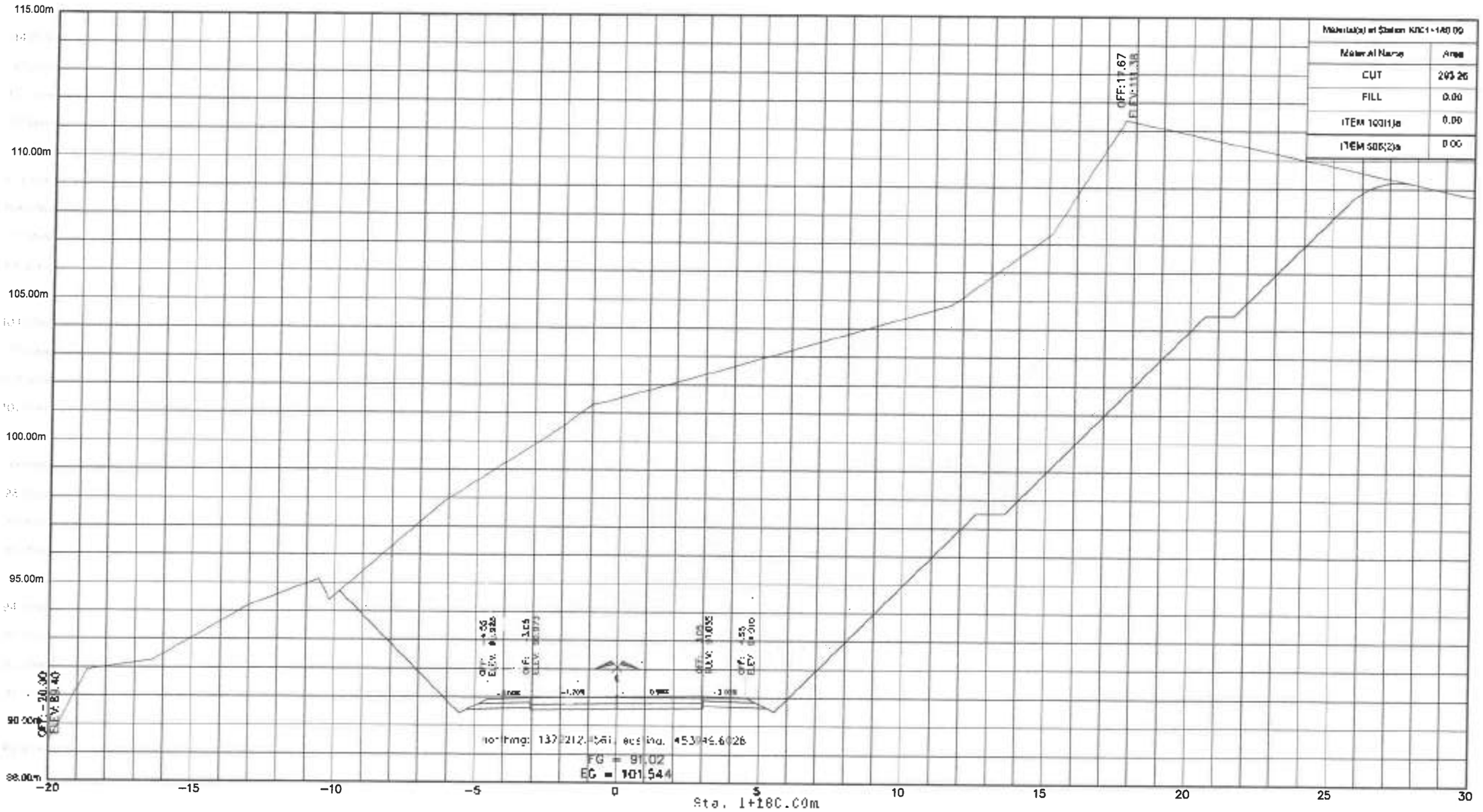
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION DETAILED CROSS SECTION	DRAFTSMAN/CHECKED MARTIN M. DELA TORRE Draftsman	REVIEWED: MAR DIONALD N. EIMAN Date:	SUBMITTED: ANDY S. EFEÑO Date:	RECOMMENDED: VIVIAN G. BIACO Date:	APPROVED: ALVIN A. IGNACIO Date:



DETAILED CROSS SECTION

SCALE 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT TITLE & LOCATION DETAILED CROSS SECTION	DRAWN BY: MARTIN M. DELA TORRE ENGINEER II	REVIEWED: MAR DIONALD N. EMAN Date:	SUBMITTED: ANDY S. ERENO Date:	RECOMMENDED: VIVIANO G. BIACO Date:	APPROVED: ALVIN A. IGNACIO DPWH	REFER. 6A 36 40	SHEET NO. 36 / 46

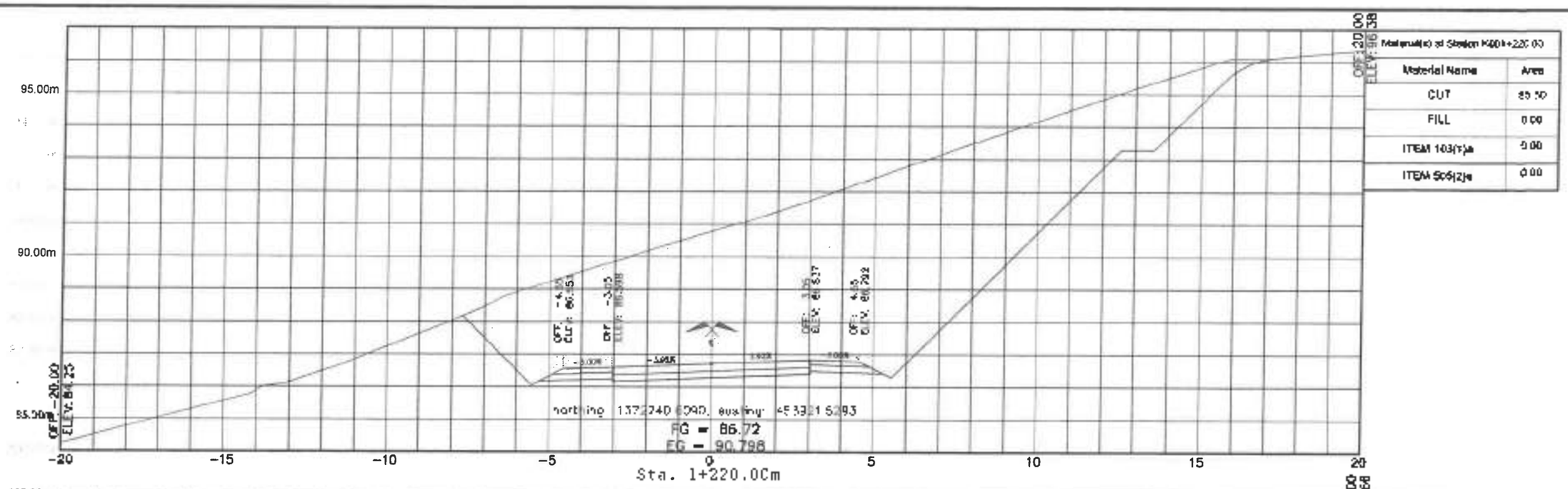


Material(s) at Station KRC1+180.00	
Material Name	Area
CUT	293.26
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

DETAILED CROSS SECTION

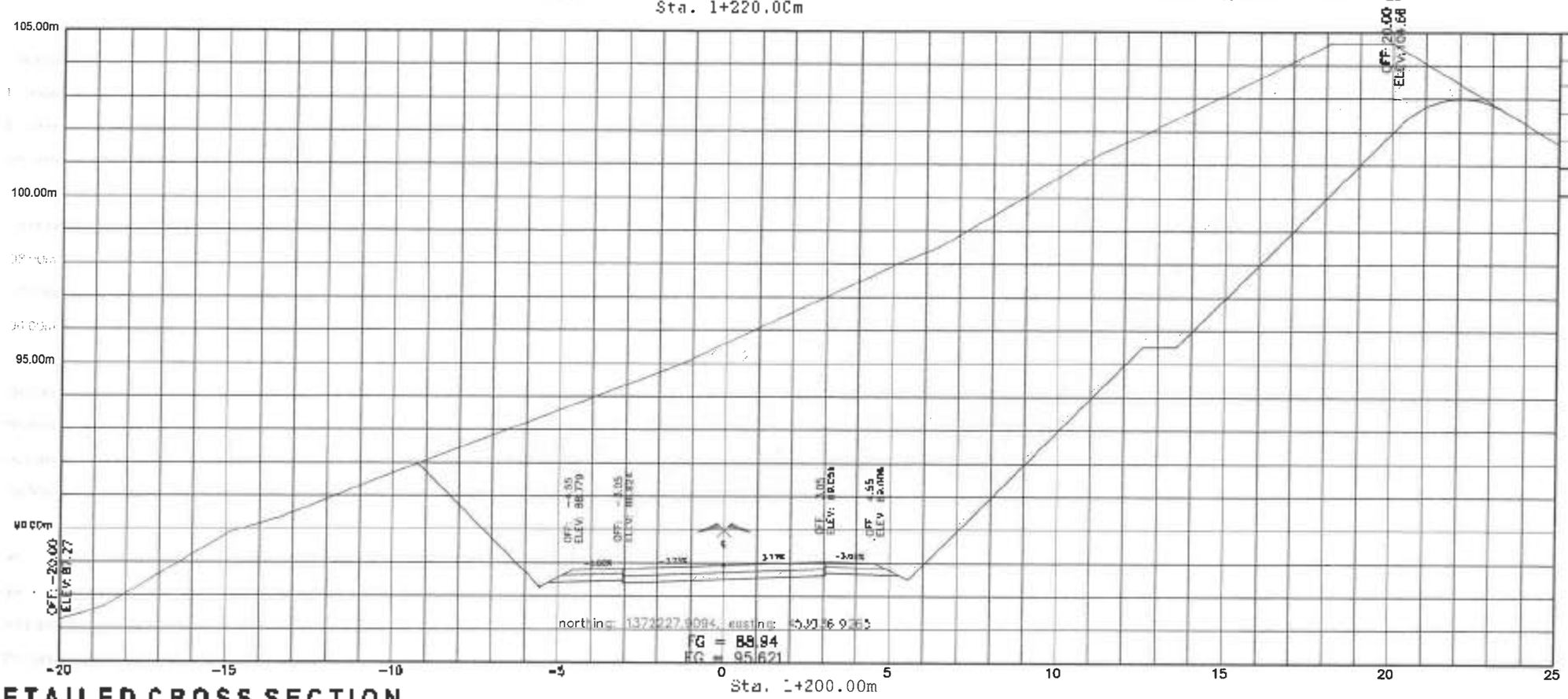
SCALE 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION: DETAILED CROSS SECTION	DRAWN BY: MARTIN M. DELA TORRE ENGINEER II	REVIEWED: MARDONALD N. EIMAN ASST. CHIEF, PLANNING AND DESIGN SECTION Date	SUBMITTED: ANDY S. ERERO CHIEF, PLANNING AND DESIGN SECTION Date	RECOMMENDED: ARVIAN B. BIACO ASST. DISTRICT ENGINEER Date	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date	SHEET NO. 03 37 / 83	SHEET NO. 80 80



Material(s) at Station K001+220.00

Material Name	Area
CUT	85.50
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



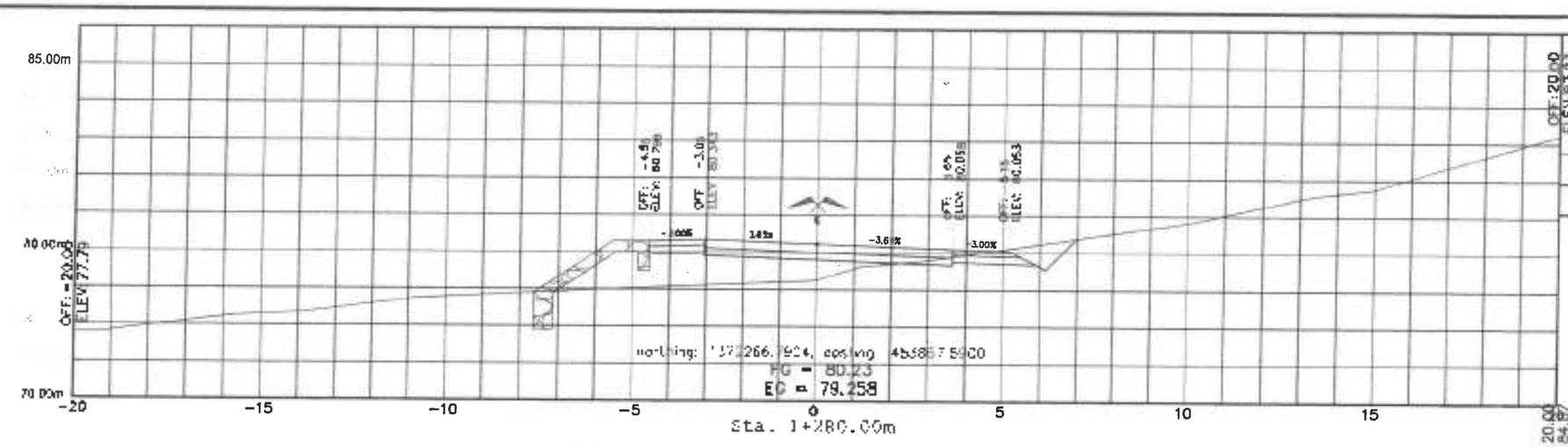
Material(s) at Station K001

Material Name
CUT
FILL
ITEM 103(1)a
ITEM 505(2)a

DETAILED CROSS SECTION

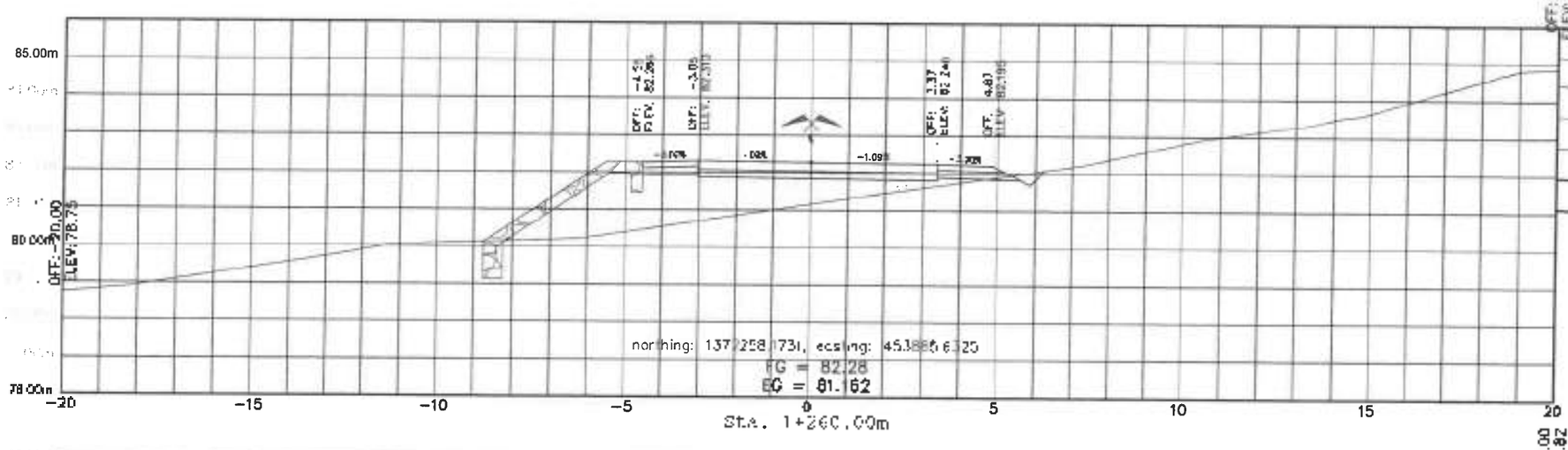
SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION DETAILED CROSS SECTION	PREPARED: MARTIN R. DELA TORRE ENGINEER II	REVIEWED: MAR DIONALD H. EMAN Date:	SUBMITTED: ANDY S. CAÑEÑO Date:	RECOMMENDED: VIVIAN A. BIACO Date:	APPROVED: ALVIN A. IGNACIO Date:	SHEET NO. 08 / 38	SHEET NO. 61 / 64



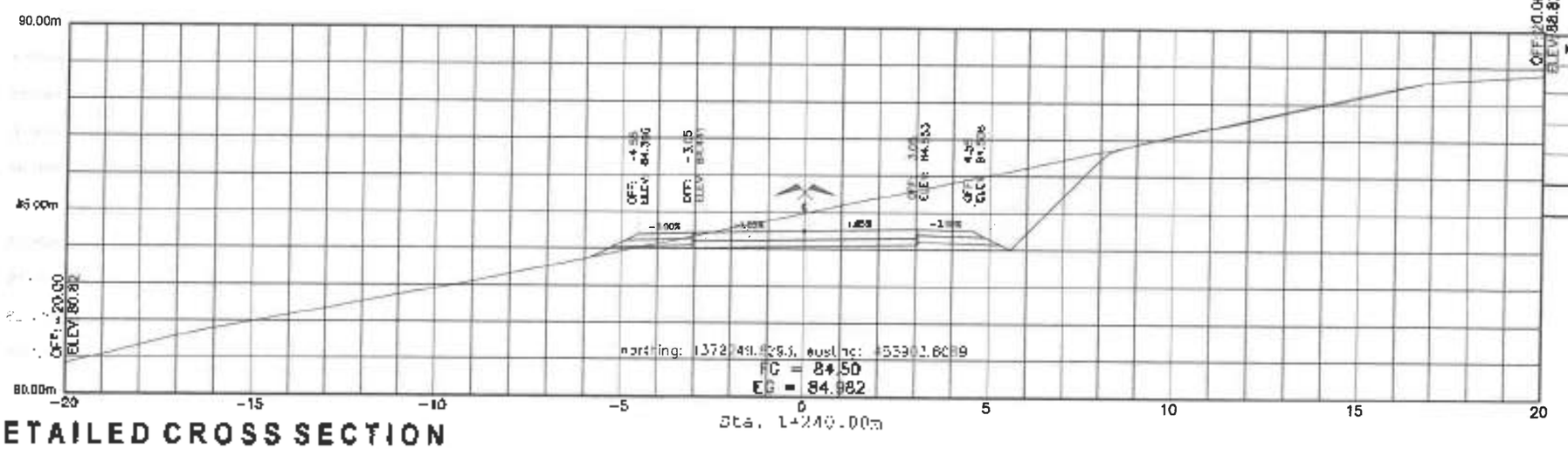
Material(s) at Station KM1+280.00

Material Name	Area
CUT	0.01
FILL	5.38
ITEM 103(1)a	0.51
ITEM 505(2)a	1.47



Material(s) at Station KM1+260.00

Material Name	Area
CUT	0.15
FILL	1.13
ITEM 103(1)a	0.51
ITEM 505(2)a	1.87



Material(s) at Station KM1+240.00

Material Name	Area
CUT	12.13
FILL	0.80
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

DETAILED CROSS SECTION

SCALE 1:100 METERS

Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE NO. VIII
NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE
Catarman, Northern Samar

PROJECT NAME & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR
CATARMAN, NORTHERN SAMAR

PRINT NAME & DESIGNATION: DETAILED CROSS SECTION

DRAFTED/COMPUTED: MARTIN M. DELA TORRE
ENGINEER II

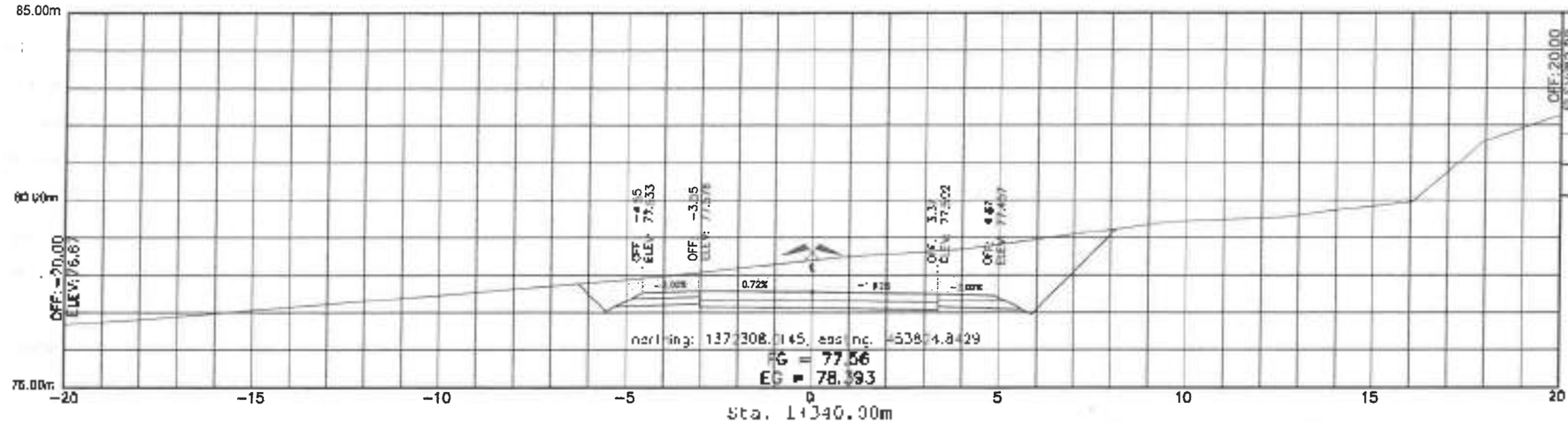
REVIEWED: MAR DIONALD N. EIMAN
SECTION Chief, Planning and Design Section
Date

SUBMITTED: ANDY S. ERENO
CHIEF, Planning and Design Section
Date

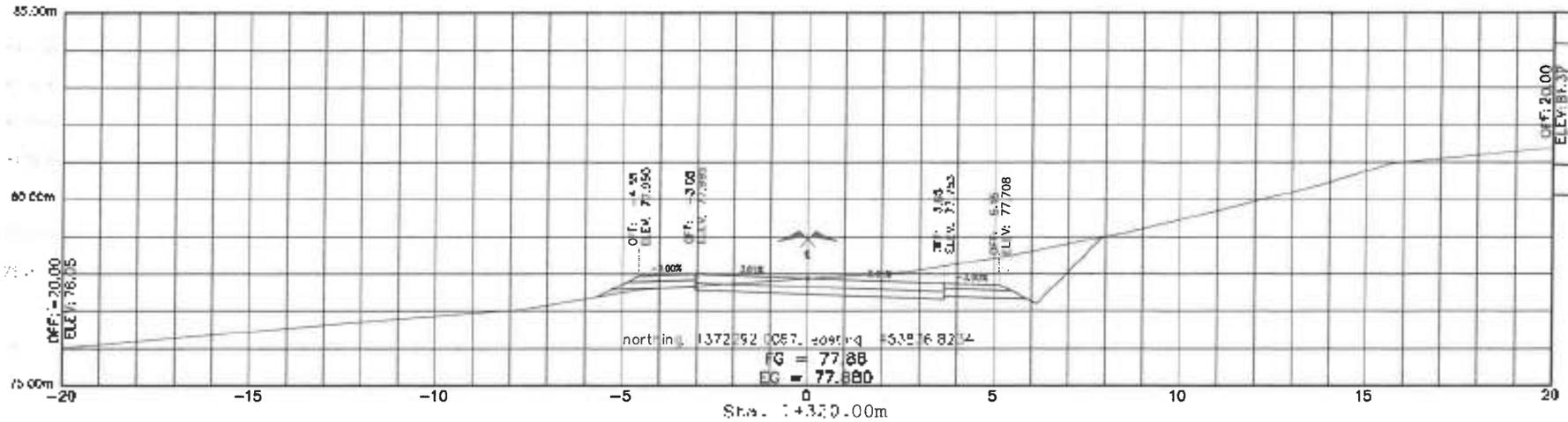
RECOMMENDED: IVAN G. BIACO
DISTRICT ENGINEER
Date

APPROVED: ALVIN A. IGNACIO
DISTRICT ENGINEER
Date

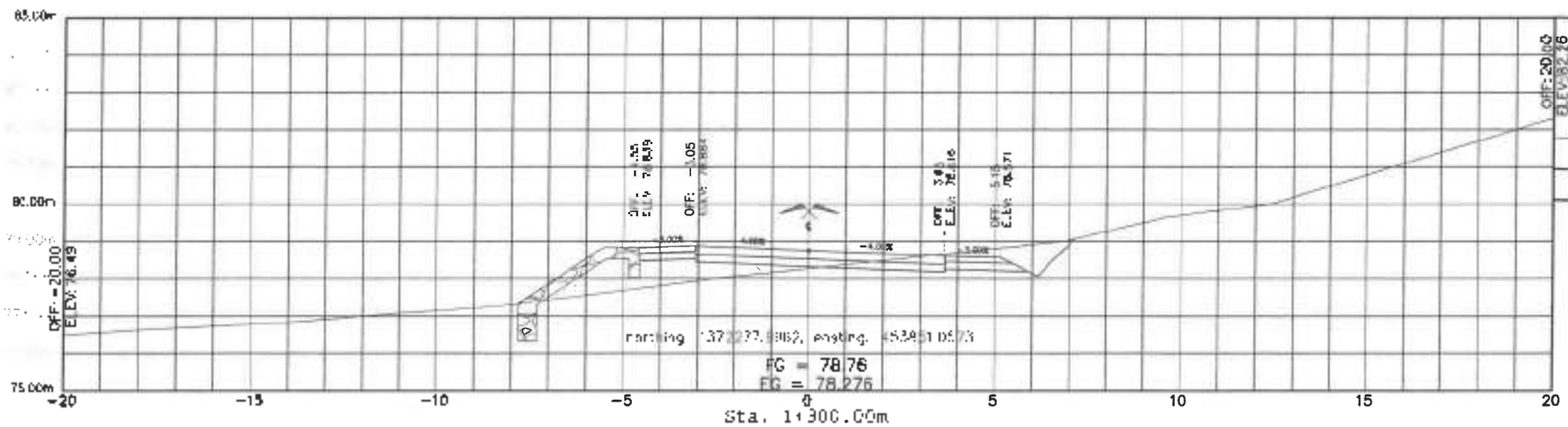
SHEET NO. 13
TOTAL SHEETS 55



Material(s) at Station K001+340.00	
Material Name	Area
CUT	15.49
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+320.00	
Material Name	Area
CUT	8.95
FILL	0.72
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

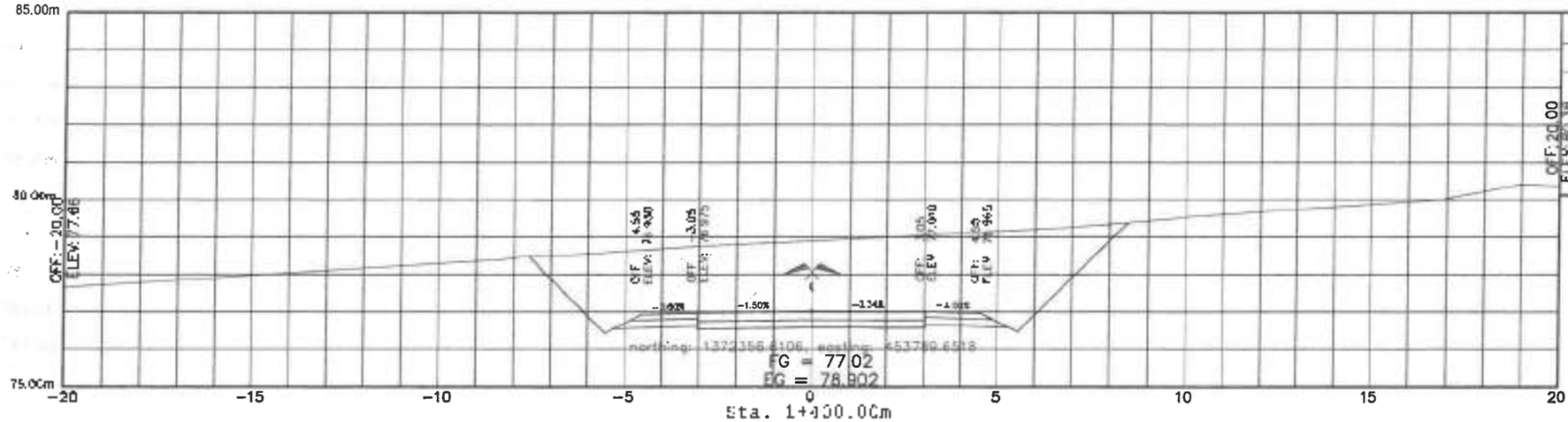


Material(s) at Station K001+300.00	
Material Name	Area
CUT	1.88
FILL	3.27
ITEM 103(1)a	0.52
ITEM 505(2)a	1.53

DETAILED CROSS SECTION

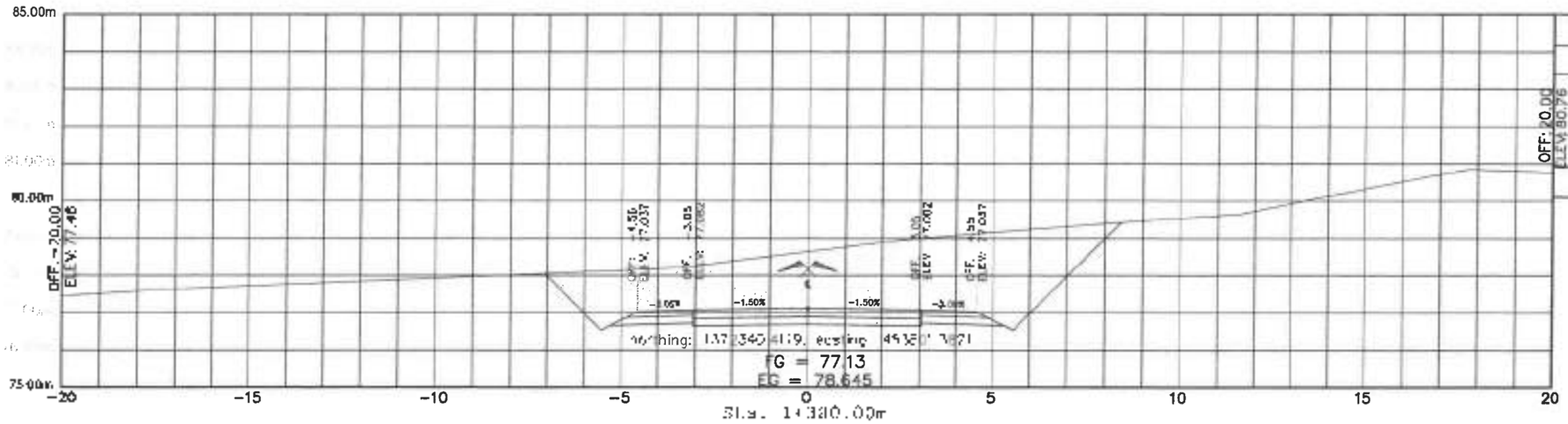
SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION: CONSTRUCTION OF CAGABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION: DETAILED CROSS SECTION	PREPARED BY: MERVIN M. DELA TORRE ENGINEER II	REVIEWED: MAR DONALD N. EIMAN Date:	SUBMITTED: ANDY S. BREÑO Date:	RECOMMENDED: IVAN V. BIACO Date:	APPROVED: ALVIN A. IGNACIO Date:	SHEET NO. 45 50



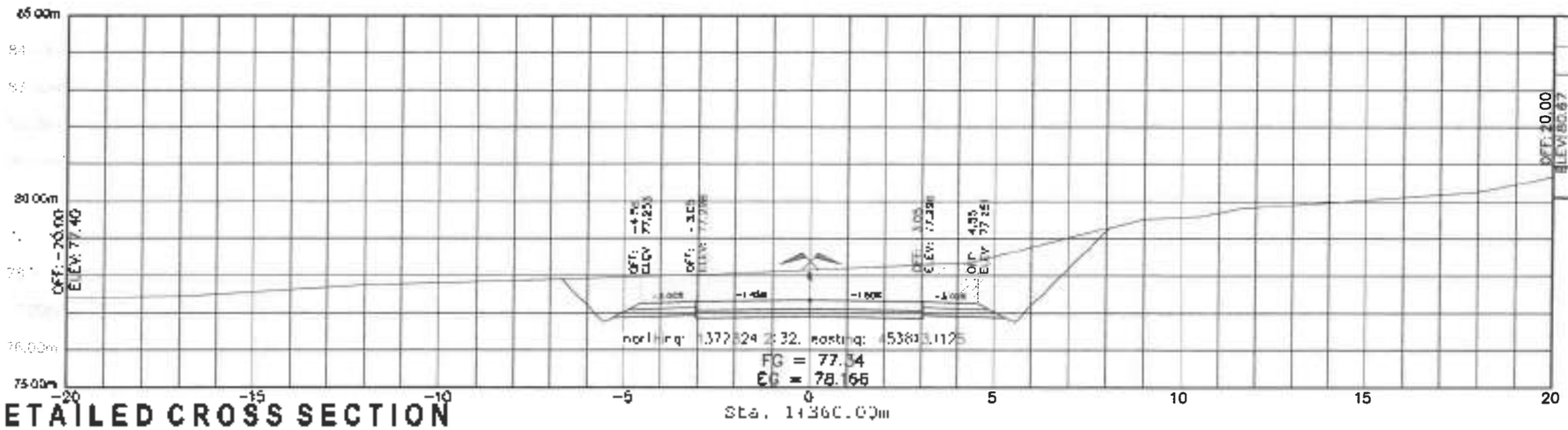
Material(s) at Station K001+400.00

Material Name	Area
CUT	30.48
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+380.00

Material Name	Area
CUT	25.53
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



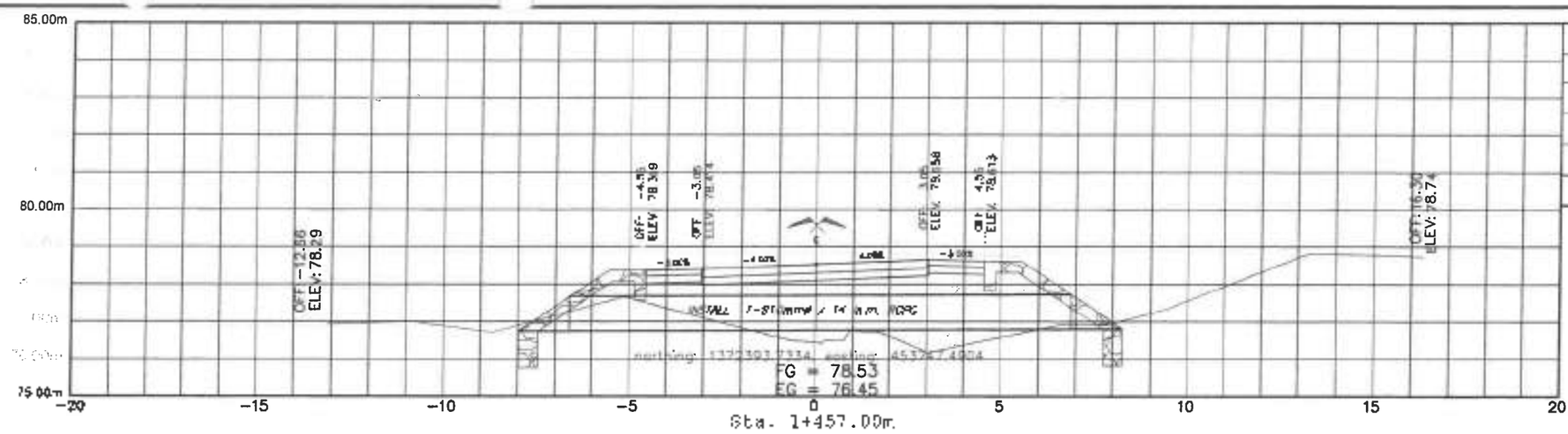
Material(s) at Station K001+360.00

Material Name	Area
CUT	16.05
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

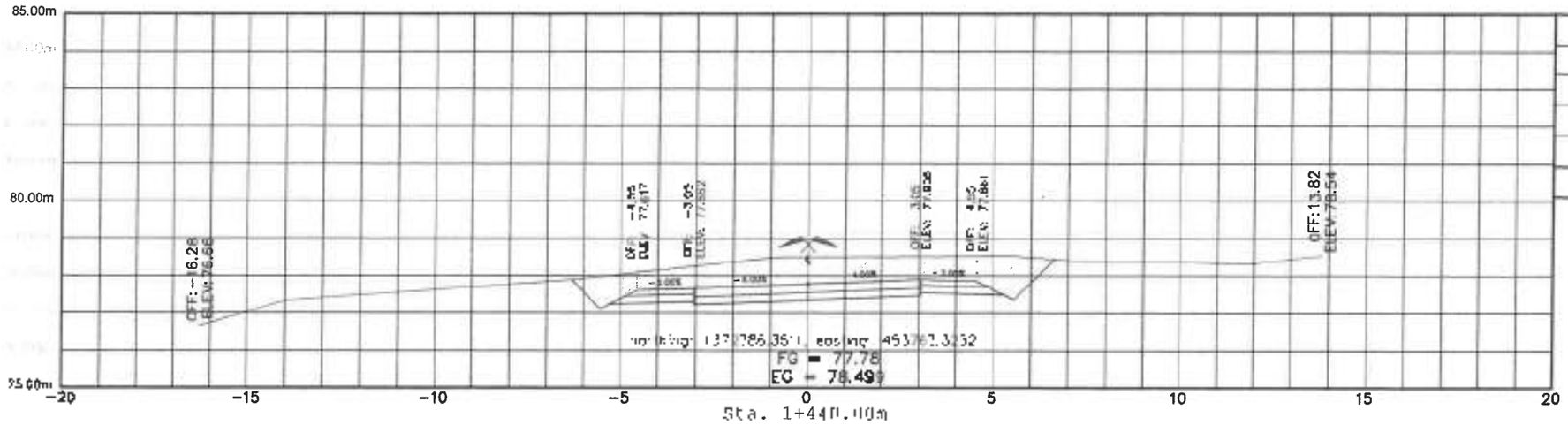
DETAILED CROSS SECTION

SCALE 1:100 METERS

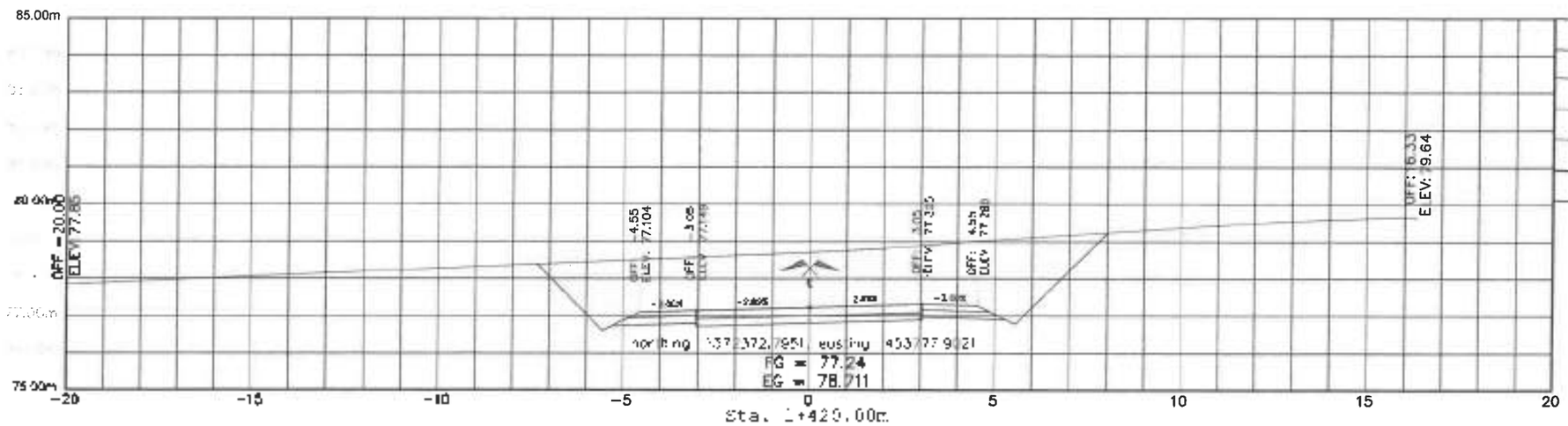
Property of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS SECTORAL OFFICE NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE	PROJECT NAME & LOCATION: CONSTRUCTION OF CAG-ABACA - CUCARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION: DETAILED CROSS SECTION	PREPARED: MARTIN R. DELA TORRE, ENGINEER II	REVIEWED: MGR DONALD N. EIMAN, DIST. CHIEF, PLANNING AND DESIGN SECTION	SUBMITTED: ANDY S. ERENO, CHIEF, PLANNING AND DESIGN SECTION	RECOMMENDED: VIVIANA B. BIACO, DISTRICT ENGINEER	APPROVED: ALVIN A. IGNACIO, DISTRICT ENGINEER	SHEET NO. CS-01	SHEET NO. 4 of 10
	CATARMAN, NORTHERN SAMAR			Date:	Date:	Date:	Date:		



Material(s) at Station K001+457.00	
Material Name	Area
CUT	0.00
FILL	7.33
ITEM 103(1)a	1.04
ITEM 505(2)a	3.47



Material(s) at Station K001+440.00	
Material Name	Area
CUT	11.00
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

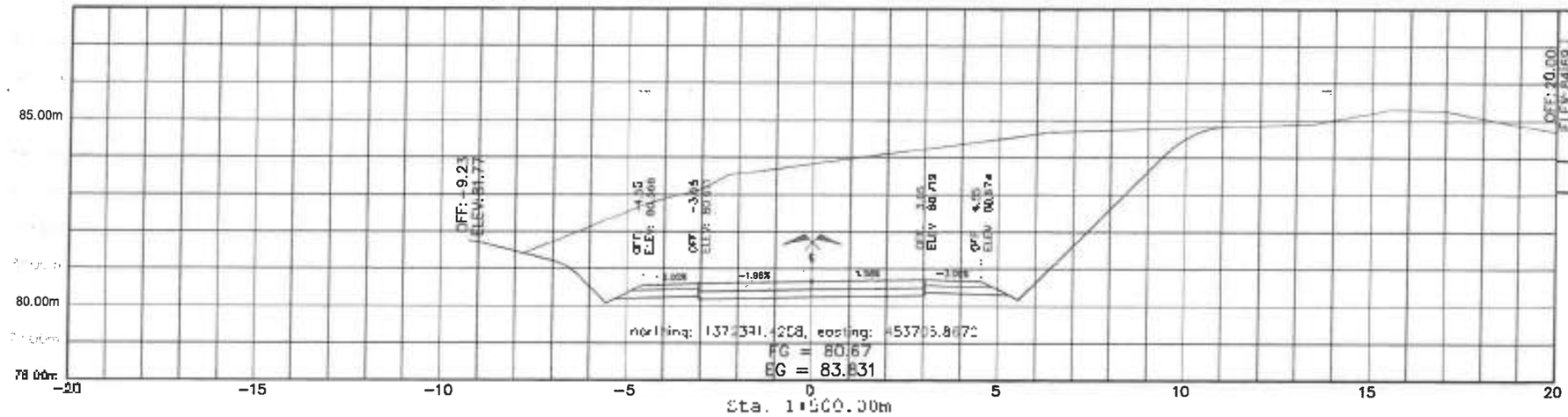


Material(s) at Station K001+420.00	
Material Name	Area
CUT	24.48
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

DETAILED CROSS SECTION

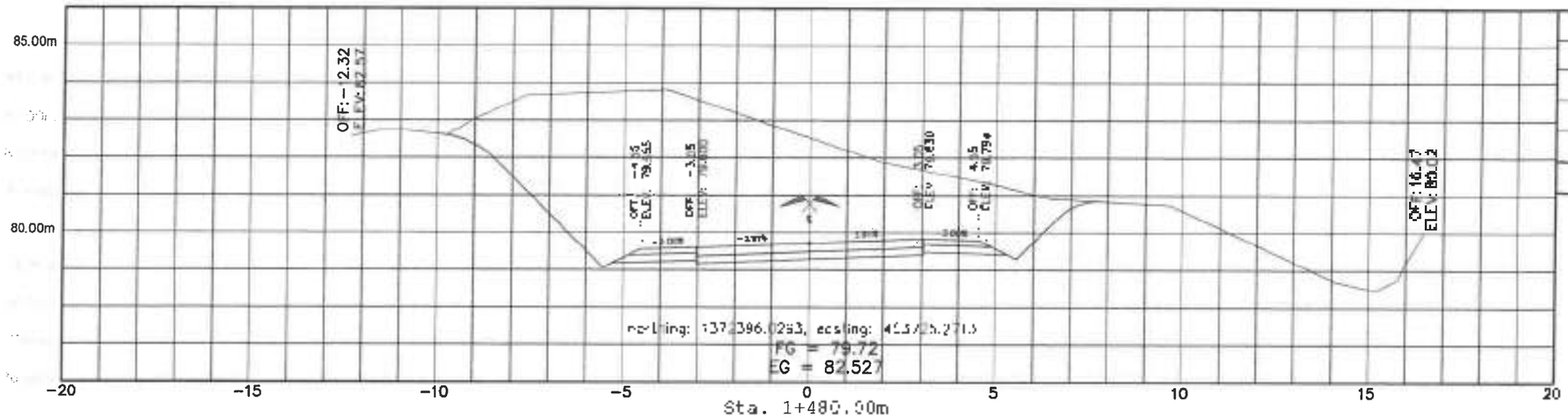
SCALE 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT ROAD LOCATION CONSTRUCTION OF CAO-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME DESCRIPTION DETAILED CROSS SECTION	DRAWN BY: MARTIN B. CELA JORGE ENGINEER I	REVIEWED: MAR DONALD N. EIMAN ASST. CHIEF, PLANNING AND DESIGN SECTION Date:	SUBMITTED: ANDY S. ERERO CHIEF, PLANNING AND DESIGN SECTION Date:	RECOMMENDED: VIVIANA B. BIACO ASST. DISTRICT ENGINEER Date:	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date:	SHEET NO. 05 of 03	DRAWING NO. 05 - 05



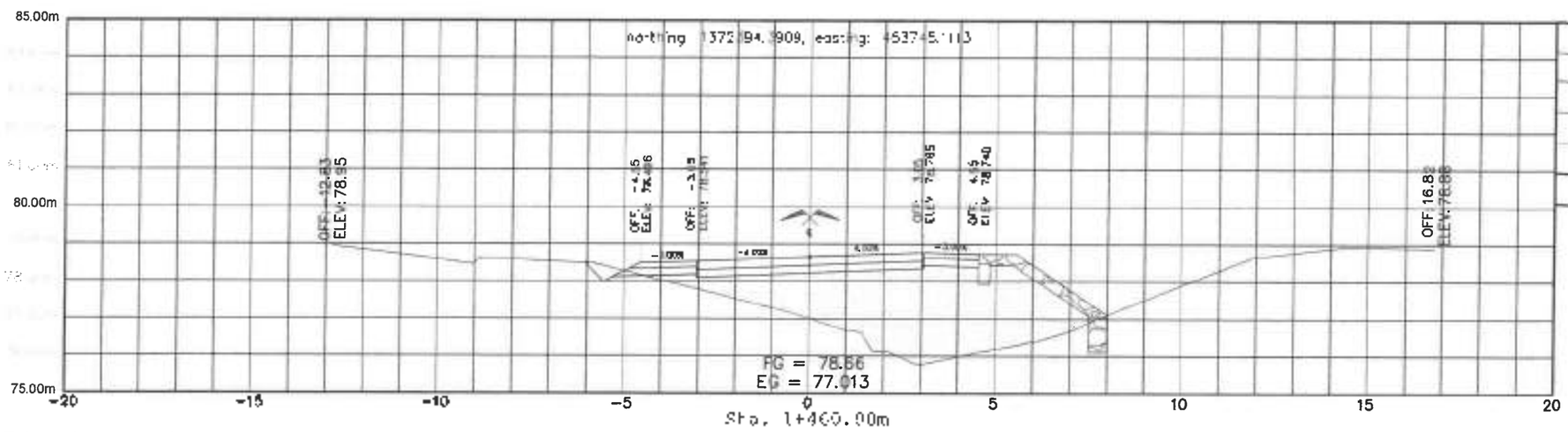
Material(s) at Station K001+500.00

Material Name	Area
CUT	49.58
FILL	0.00
ITEM 103(1)a	0.35
ITEM 505(2)a	0.00



Material(s) at Station K001+480.00

Material Name	Area
CUT	48.16
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



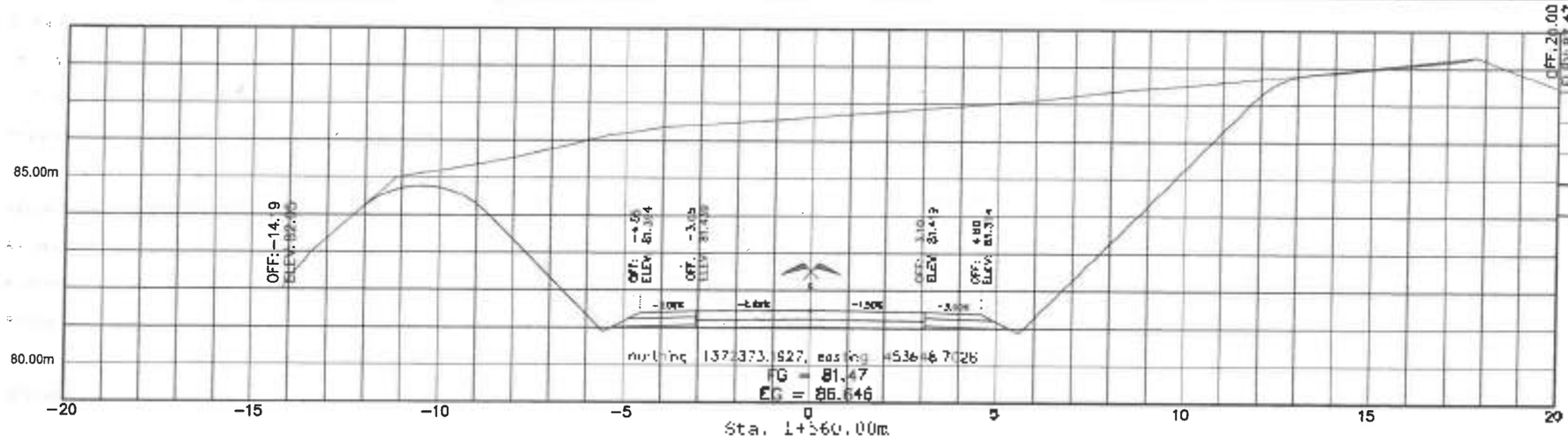
Material(s) at Station K001+460.00

Material Name	Area
CUT	0.24
FILL	17.66
ITEM 103(1)a	0.45
ITEM 505(2)a	1.60

DETAILED CROSS SECTION

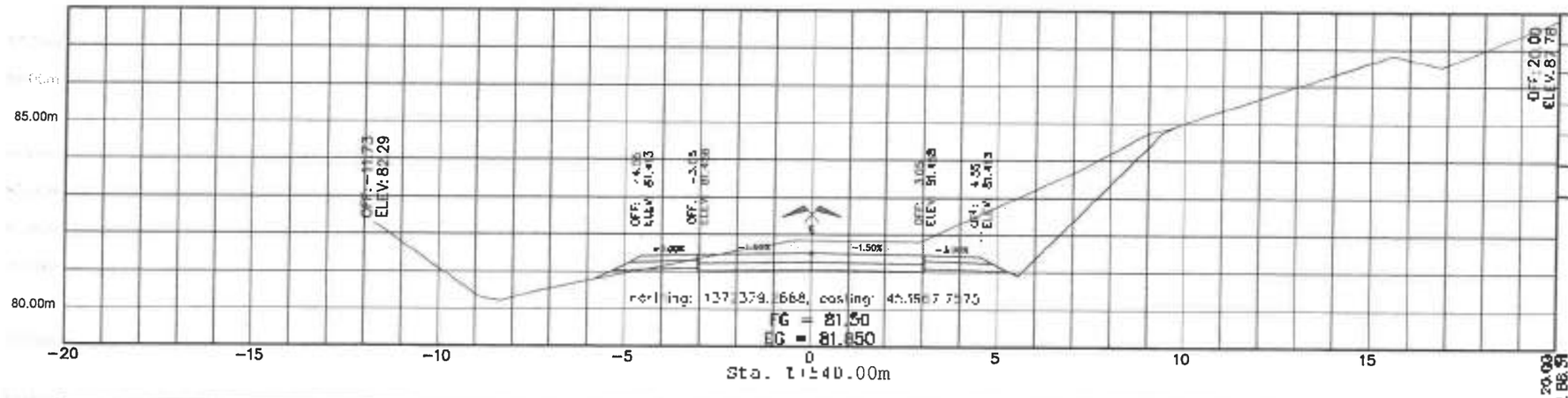
SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD. CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION: DETAILED CROSS SECTION	DRAFTSMAN/CADD: MARTIN M. DELA TORRE ENGINEER	REVIEWED: MAR DIONALD M. EIMAN HEAD, CPES - PLANNING AND DESIGN OFFICER DPM	SUBMITTED: ANDY S. ESENO CHIEF, PLANNING AND DESIGN SECTION Date:	RECOMMENDED: VIVIANO G. BIACO ASSISTANT DISTRICT ENGINEER Date:	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date:	SHEET NO. C9 43 of 63	SHEET NO. 44 44



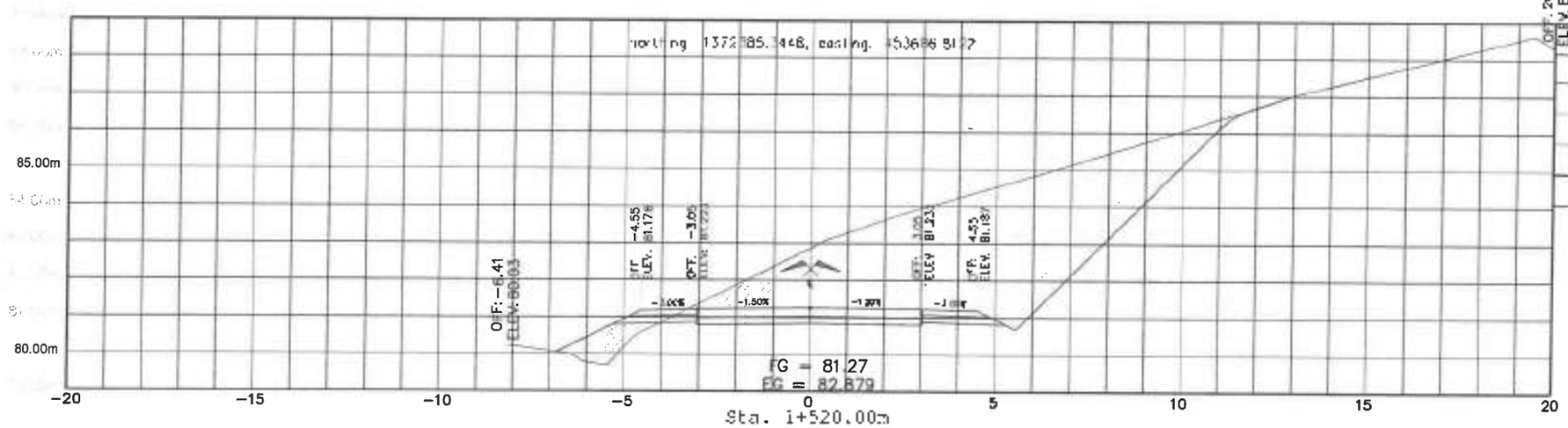
Material(s) at Station K001+560.00

Material Name	Area
CUT	84.64
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+540.00

Material Name	Area
CUT	11.22
FILL	0.59
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



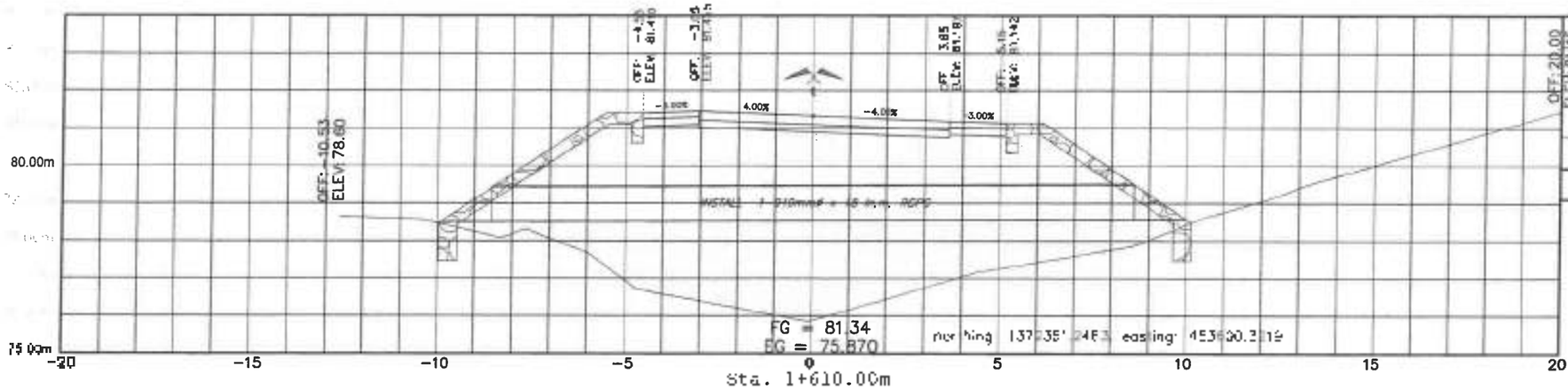
Material(s) at Station K001+520.00

Material Name	Area
CUT	31.72
FILL	1.77
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

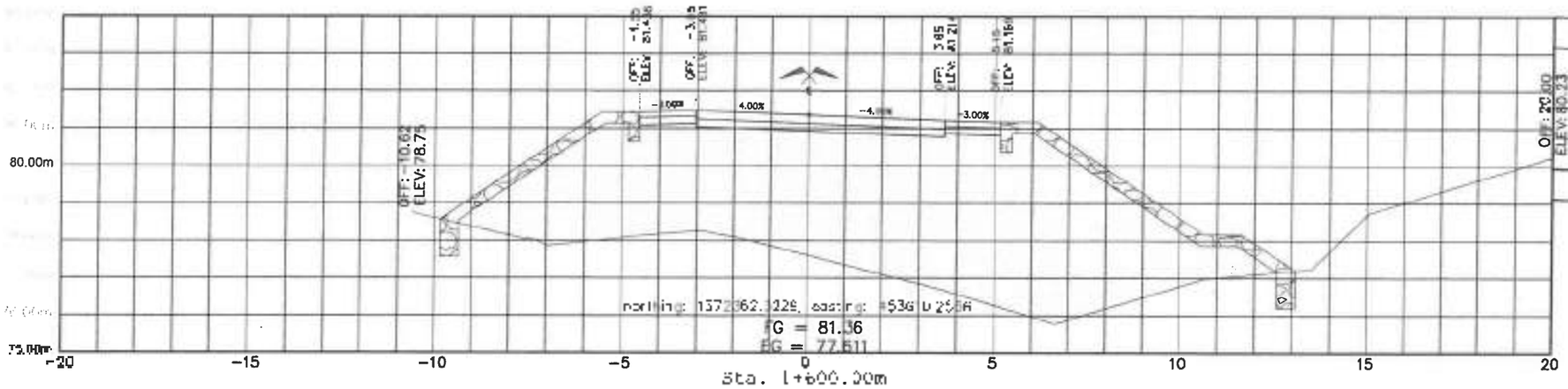
DETAILED CROSS SECTION

SCALE: 1:100 METERS

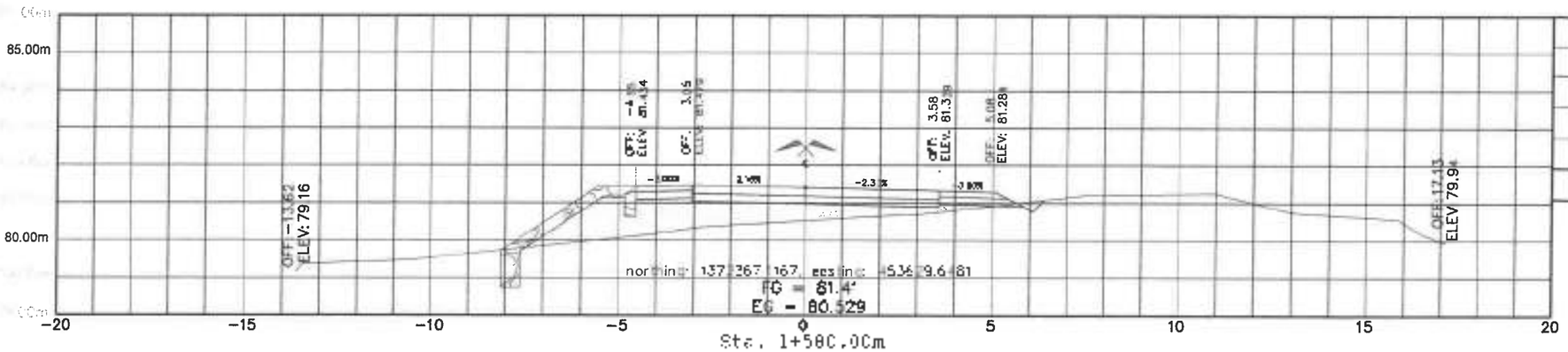
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Regional Office No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION: DETAILED CROSS SECTION	DRAFTSMAN: MARTIN R. DELA TORRE ENGINEER	REVIEWED: MAR DONALD M. ERMAN ASST. DIST. ENGINEER AND BRANCH HEADS Date:	SUBMITTED: ANDY S. BRENO DIST. ENGINEER Date:	RECOMMENDED: VIVIAN G. BIACO ASST. DIST. ENGINEER Date:	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date:	SHEET NO. 49 / 44	CONTRACT NO. 63 / 48



Material(s) at Station K001+610.00	
Material Name	Area
CUT	0.00
FILL	48.13
ITEM 103(1)a	0.82
ITEM 505(2)a	4.60



Material(s) at Station K001+600.00	
Material Name	Area
CUT	0.00
FILL	61.43
ITEM 103(1)a	0.98
ITEM 505(2)a	5.57

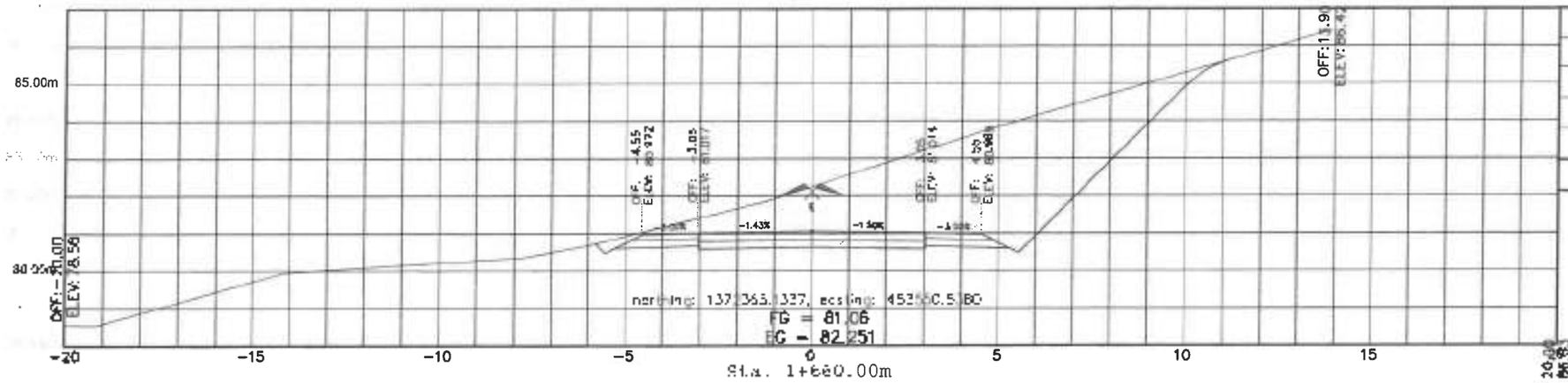


Material(s) at Station K001+580.00	
Material Name	Area
CUT	0.10
FILL	7.45
ITEM 103(1)a	0.52
ITEM 505(2)a	1.00

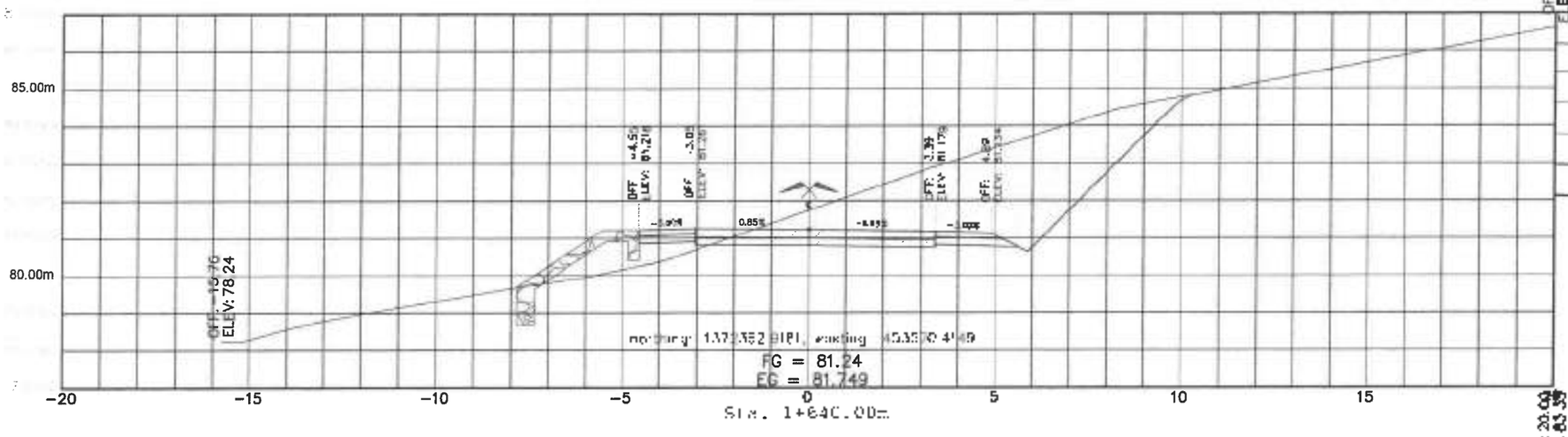
DETAILED CROSS SECTION

SCALE: 1:100 METERS

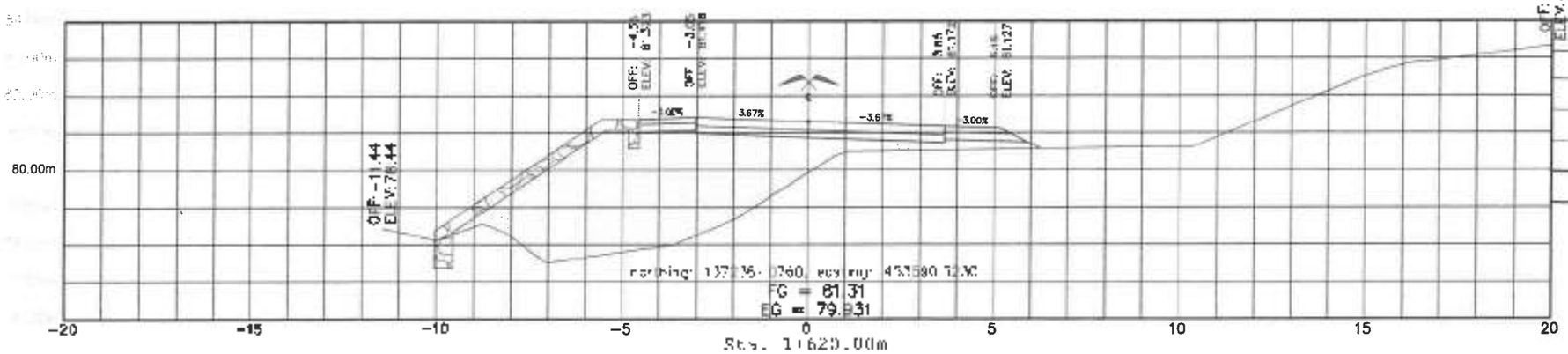
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & DESCRIPTION: DETAILED CROSS SECTION	PREPARED BY: MARTIN M. DELA FORRE ENGINEER II	REVIEWED: MARDIONALD N. EIMAN ASST. CHIEF, PLANNING AND DESIGN SECTION Date:	SUBMITTED: ANDY B. ERENO CHIEF, PLANNING AND DESIGN SECTION Date:	RECOMMENDED: VIVIAN G. BIACO DISTRICT ENGINEER Date:	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date:	SHEET NO. CS 46 OF 60	SHEET NO. N 60



Material(s) at Station K001+660.00	
Material Name	Area
CUT	26.43
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+640.00	
Material Name	Area
CUT	18.84
FILL	2.50
ITEM 103(1)a	0.53
ITEM 505(2)a	1.55

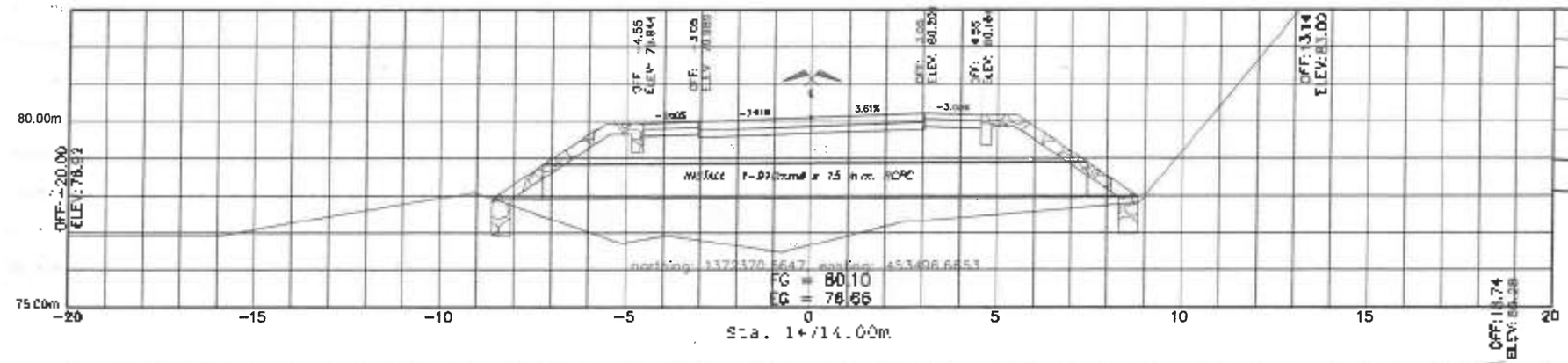


Material(s) at Station K001+620.00	
Material Name	Area
CUT	0.00
FILL	23.46
ITEM 103(1)a	0.41
ITEM 505(2)a	2.34

DETAILED CROSS SECTION

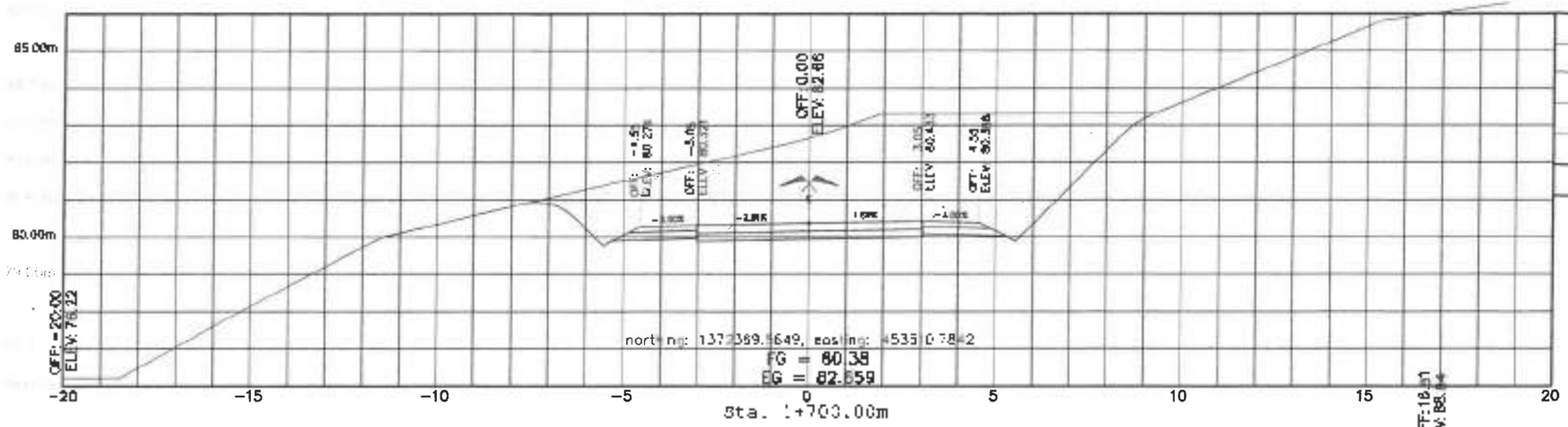
SCALE 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Regional Office No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION CONSTRUCTION OF CAG-ABACA - CULARINA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT TITLE & LOCATION DETAILED CROSS SECTION	DRAWN BY: MARTIN B. DELA TORRE Engineer II	REVIEWED: MAR DONALD N. EIMAN Asst. Chief, Planning and Design Section Date:	SUBMITTED: ANDY S. ARENO Chief, Planning and Design Section Date:	RECOMMENDED: VIVIANE B. BIACO Asst. District Engineer Date:	APPROVED: ALVIN A. IGNACIO District Engineer Date:	SHT. NO. CA 48 / 63	SHEET NO. 54< 56



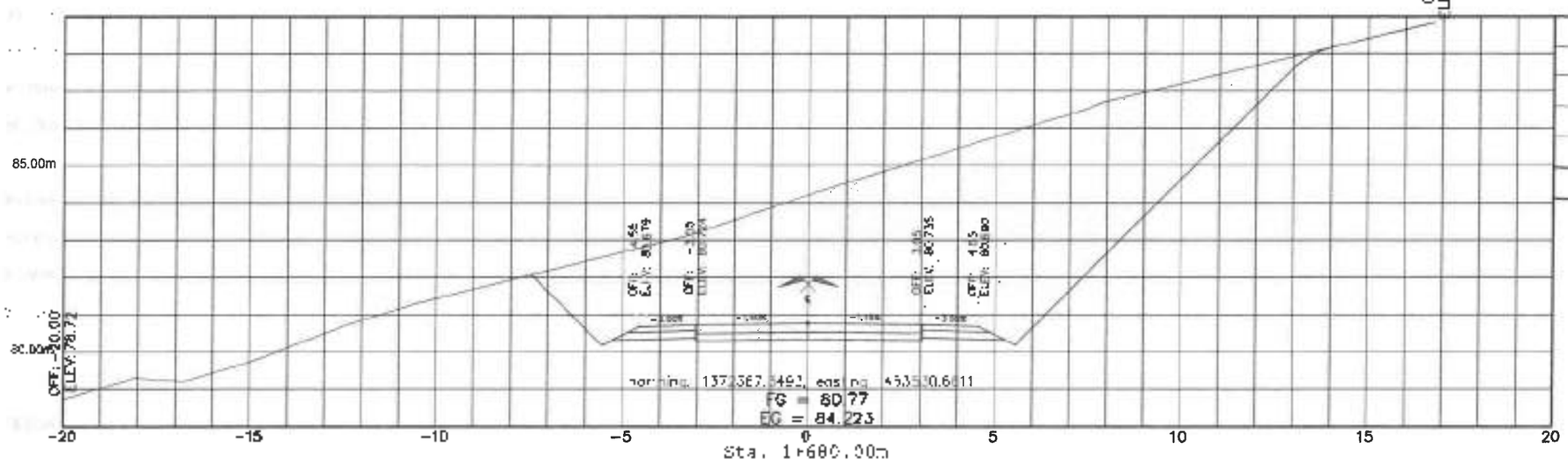
Material(s) at Station KM01+714.00

Material Name	Area
CUT	0.00
FILL	23.83
ITEM 103(1)a	0.85
ITEM 505(2)a	0.85



Material(s) at Station KM01+700.00

Material Name	Area
CUT	35.05
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



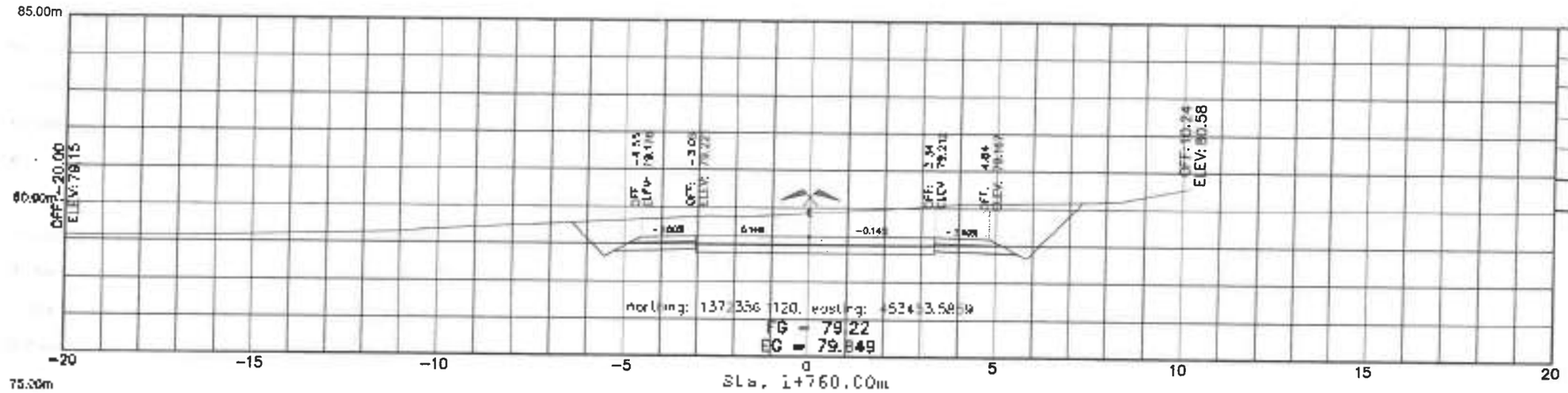
Material(s) at Station KM01+680.00

Material Name	Area
CUT	67.05
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

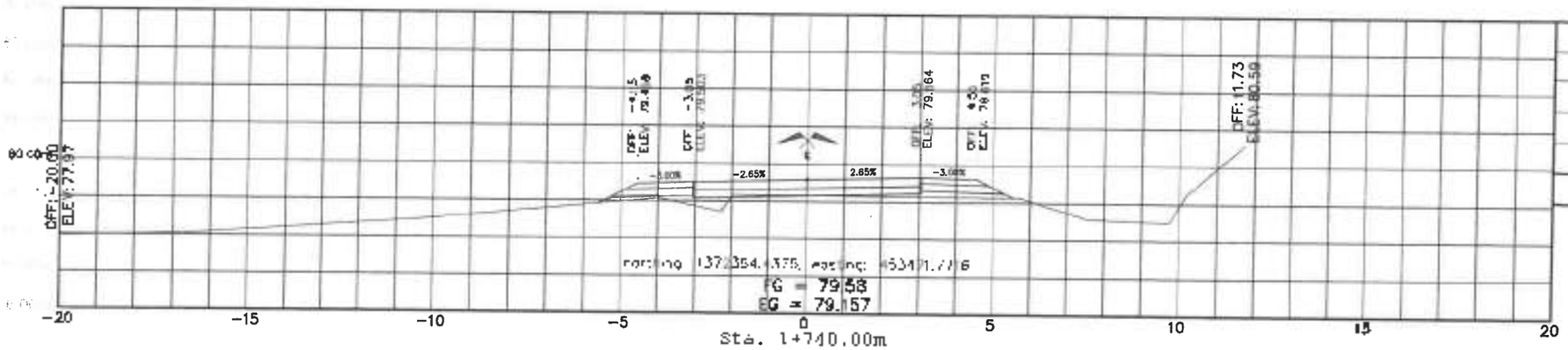
DETAILED CROSS SECTION

SCALE: 1:100 METERS

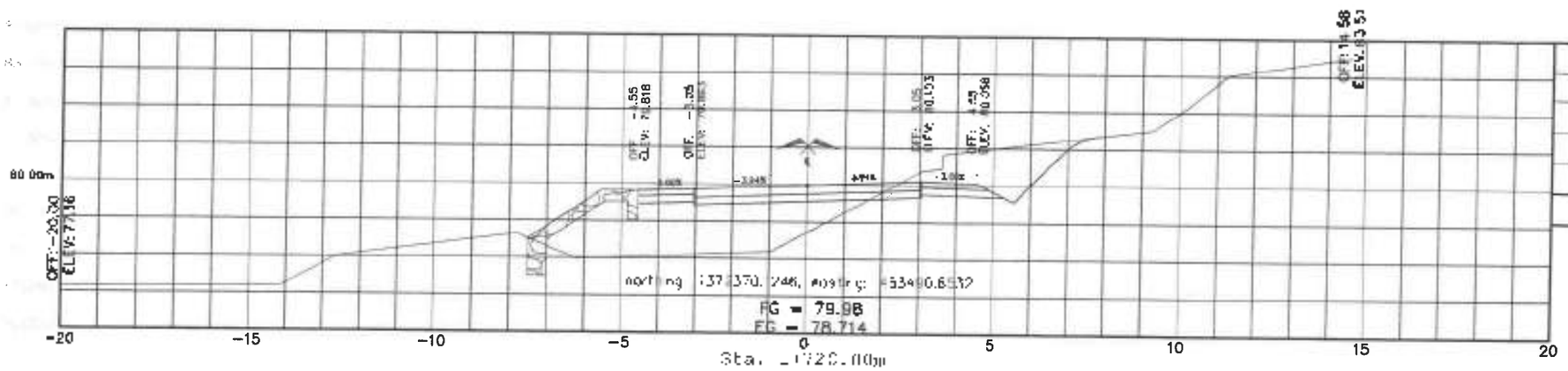
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION: DETAILED CROSS SECTION	PREPARED BY: MARTIN M. DELA TORRE ENGINEER II	REVIEWED: MAR DIONALD N. EIMAN ASST. CHIEF, PLANNING AND DESIGN SECTION Date:	SUBMITTED: ANDY S. ERENO CHIEF, PLANNING AND DESIGN SECTION Date:	RECOMMENDED: VIVIAN B. BIACO ASST. DISTRICT ENGINEER Date:	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date:	SHEET No. CS 47 of 57	SHEET No. 79 88



Material at Station KM01+760.00	
Material Name	Area
CUT	12.47
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material at Station KM01+740.00	
Material Name	Area
CUT	0.00
FILL	2.34
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



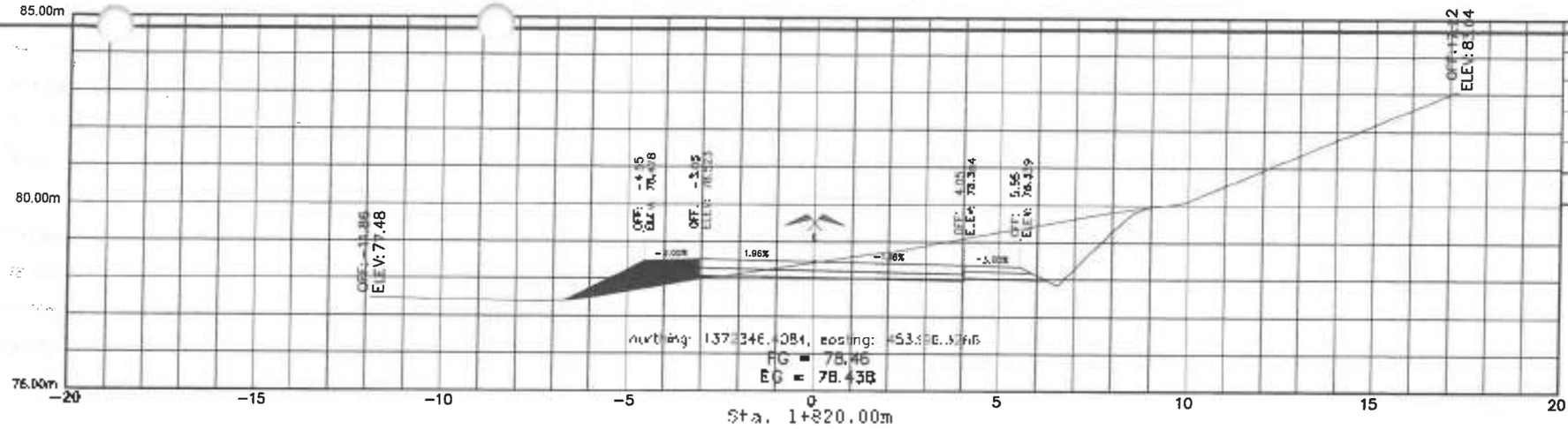
Material at Station KM01+720.00	
Material Name	Area
CUT	3.94
FILL	9.70
ITEM 103(1)a	0.45
ITEM 505(2)a	1.42

DETAILED CROSS SECTION

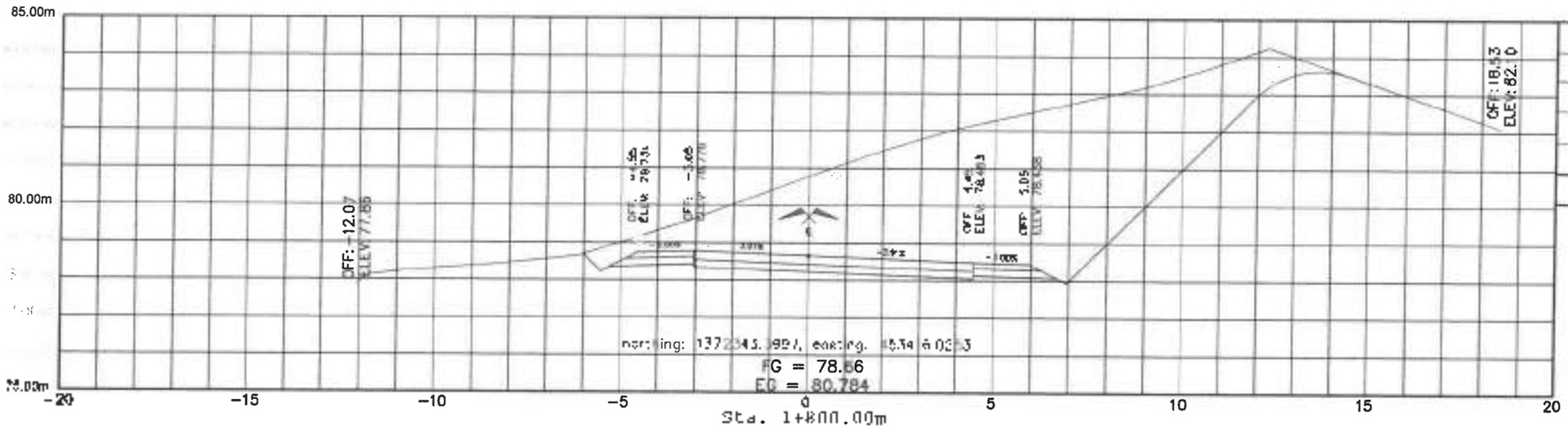
SCALE: 1:100

METERS

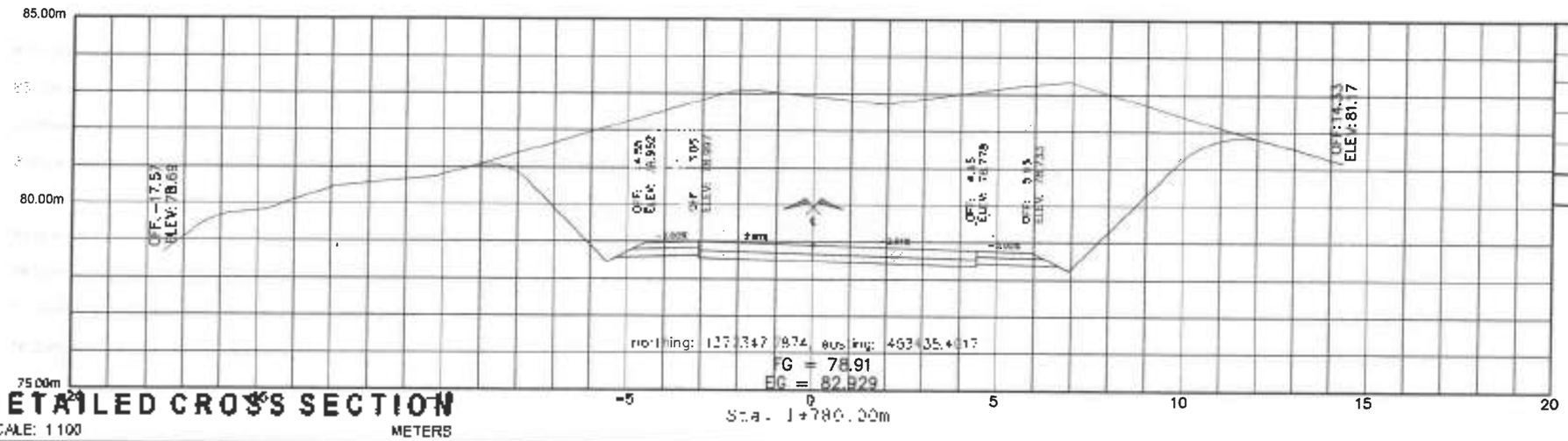
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Regional Office No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT TITLE & LOCATION DETAILED CROSS SECTION	DRAWN BY: MARTIN R. DELA TORRE DRAFTSMAN	REVIEWED: MAR DONALD R. EIMAN ASST. CHIEF, PLANNING AND DESIGN SECTION Date:	SUBMITTED: ANDY S. BRENO CHIEF, PLANNING AND DESIGN SECTION Date:	RECOMMENDING: VIVIAN S. BIACO OIC - CHIEF, ENGINEERING SECTION Date:	APPROVED: ALVIN A. IGNACIO DISTRICT Engineer Date:	SHEET NO. 03 of 03	DRAWING NO. 01 RA



Material(s) at Station K001+820.00	
Material Name	Area
CUT	8.02
FILL	1.81
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+800.00	
Material Name	Area
CUT	43.99
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

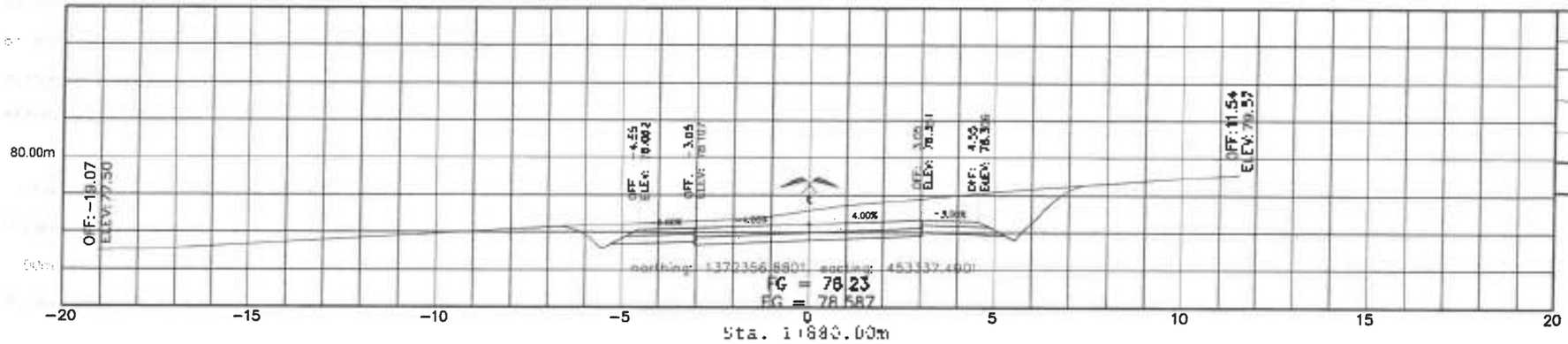


Material(s) at Station K001+780.00	
Material Name	Area
CUT	69.44
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

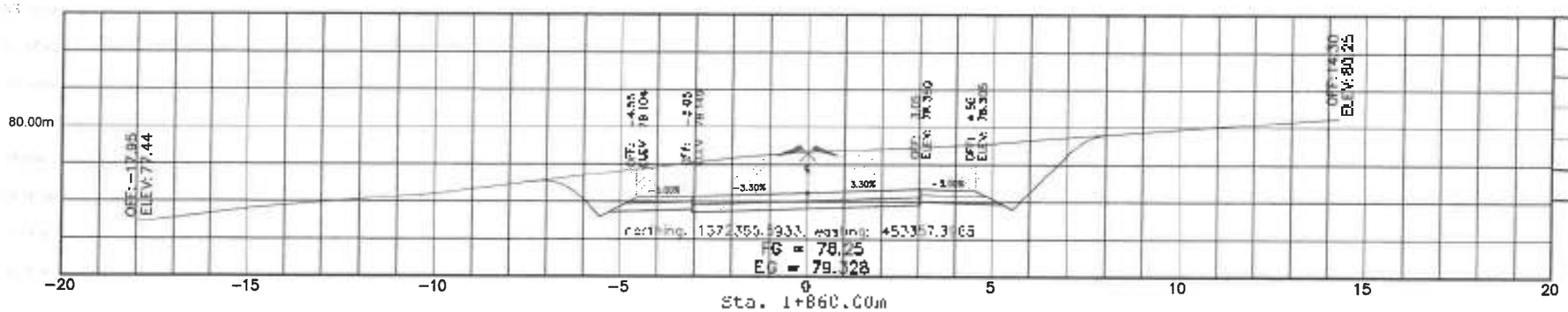
DETAILED CROSS SECTION

SCALE: 1:100 METERS

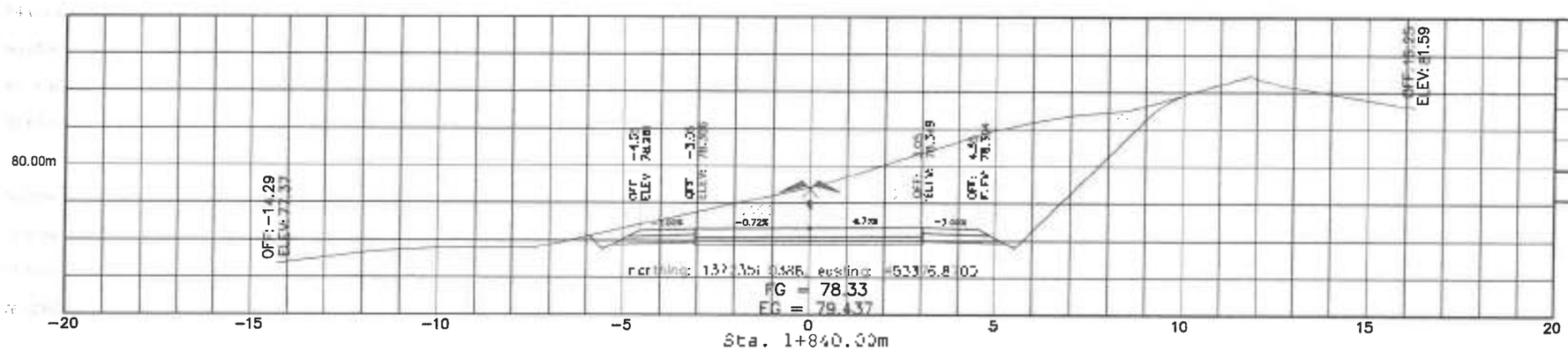
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME / LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT DESCRIPTION DETAILED CROSS SECTION	PREPARED BY: MARTIN V. DELA TORRE Field Engr.	REVIEWED: MARDONALD N. EIMAN Asst. Dist. Planning and Design Engr. Date	SUBMITTED: ANDY S. BREÑO Chief, Planning and Design Section Date	RECOMMENDED: VIVIANO B. BIACO Asst. District Engineer Date:	APPROVED: ALVIN A. IGNACIO District Engineer Date:	SHEET NO. CR 49 of 49	SHEET NO. 72 of 88



Material(s) at Station 4001+880.00	
Material Name	Area
CUT	4.60
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station 4001+880.00	
Material Name	Area
CUT	27.03
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

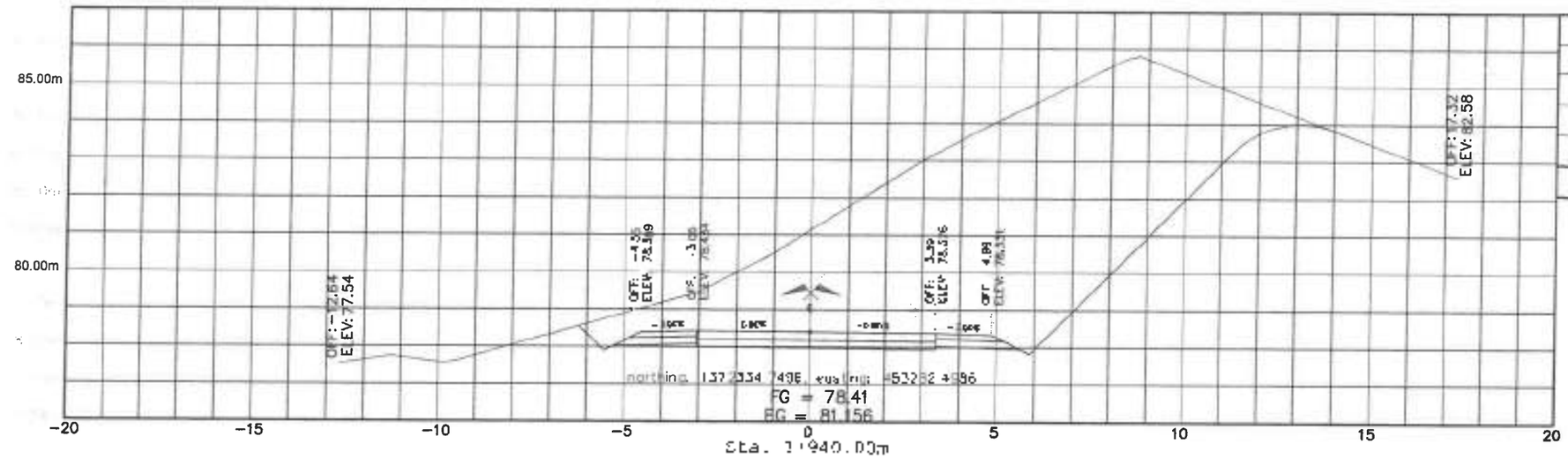


Material(s) at Station 4001+840.00	
Material Name	Area
CUT	23.34
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

DETAILED CROSS SECTION

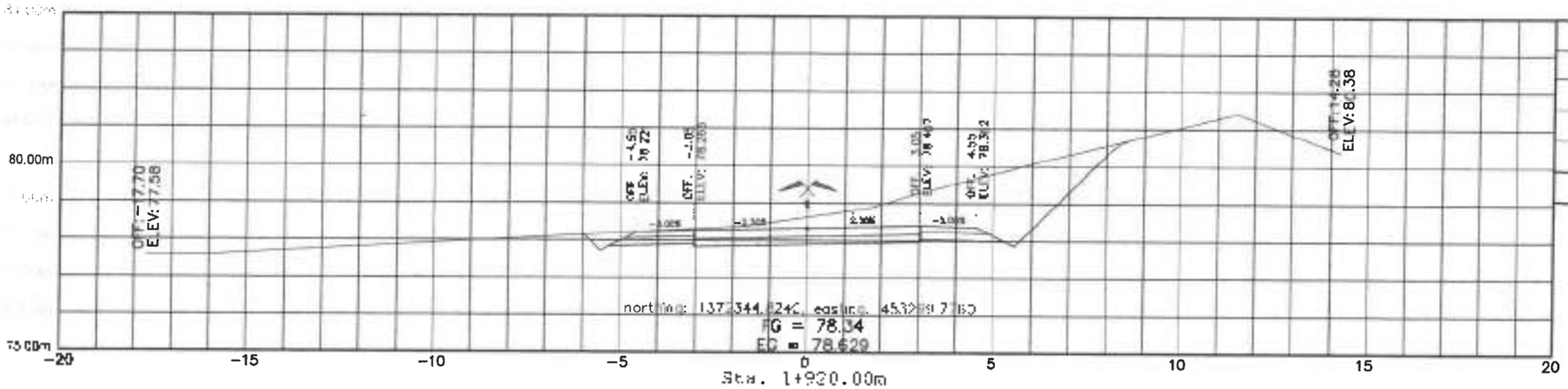
SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Regional Office No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & BRIEF DESCRIPTION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR Catarman, Northern Samar	PROJECT LOCATION DETAILED CROSS SECTION	DULY ACCOMPLISHED BY: MARTIN M. DELA TORRE Engineer	PREPARED: MAR DONALD N. ELMAN Asst. Chief Planning and Design Section Date	SUBMITTED: ANDY S. BRENO Chief, Planning and Design Section Date	RECOMMENDED: VIVIAN C. BIACO Asst. District Engineer Date	APPROVED: ALVIN A. IGNACIO District Engineer Date:	SET NO. CG 50 / 53	SHEET NO. 13 55



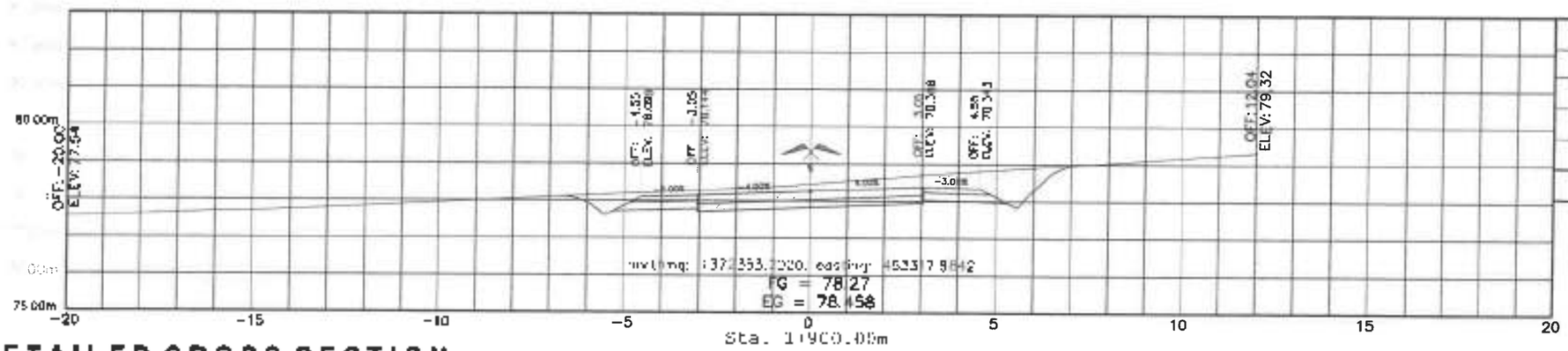
Material(s) at Station K001+940.00

Material Name	Area
CUT	6.71
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+920.00

Material Name	Area
CUT	11.28
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



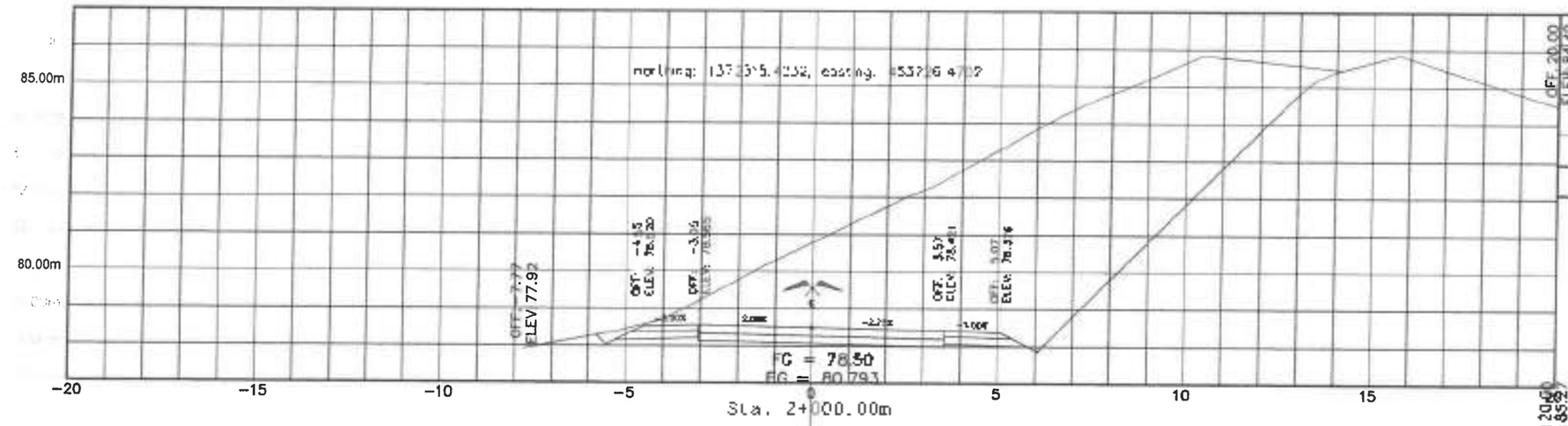
Material(s) at Station K001+900.00

Material Name	Area
CUT	8.52
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

DETAILED CROSS SECTION

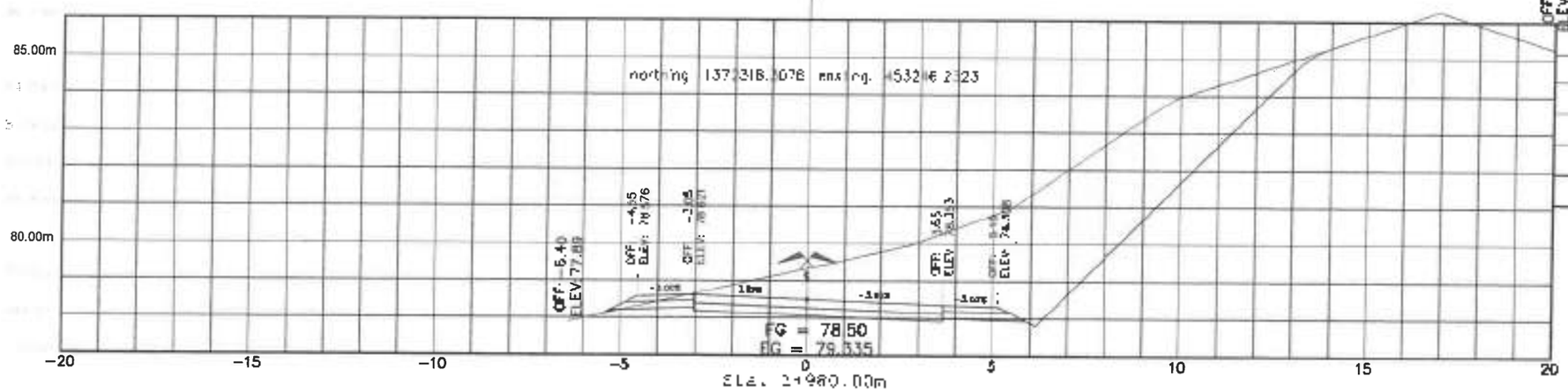
SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS Regional Office No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION: CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & DRAWING: DETAILED CROSS SECTION	PREPARED BY: MARTIN M. DELA TORRE ENGINEER III	REVIEWED: MAR DIONALD M. BINAN Asst. Chief, Planning and Design Section Date:	SUBMITTED: ANDY S. BREÑO Chief, Planning and Design Section Date:	RECOMMENDED: VIVIANE E. BIACO Asst. District Engineer Date:	APPROVED: ALVIN A. IGNACIO District Engineer Date:	SHEET NO. CS 51/53	DATE 74 38



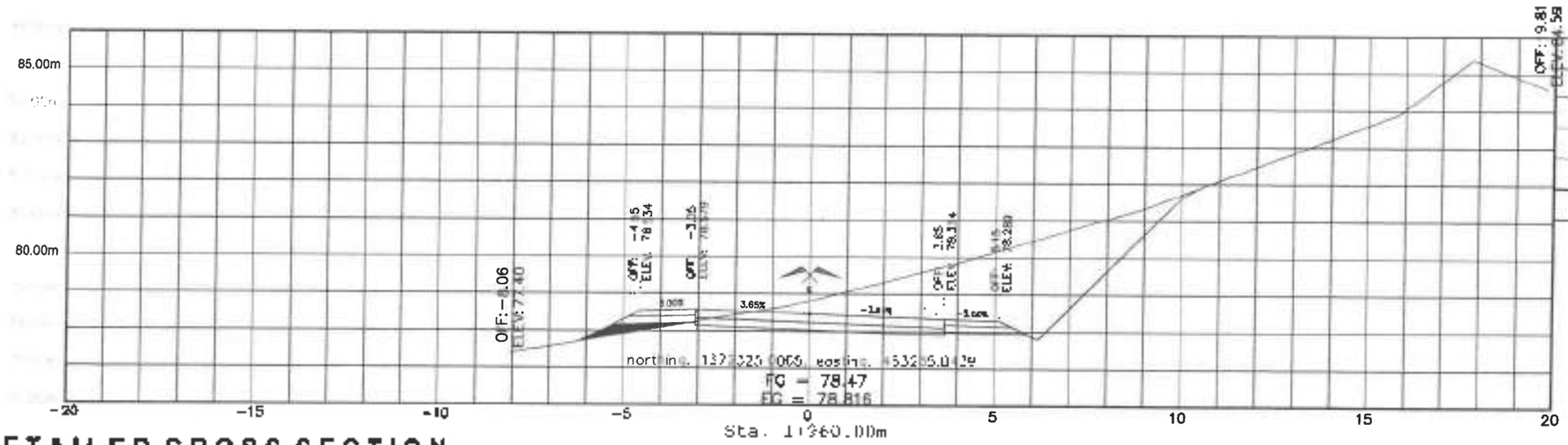
Material(s) at Station K002+000.00

Material Name	Area
CUT	56.77
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K001+980.00

Material Name	Area
CUT	31.06
FILL	0.31
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



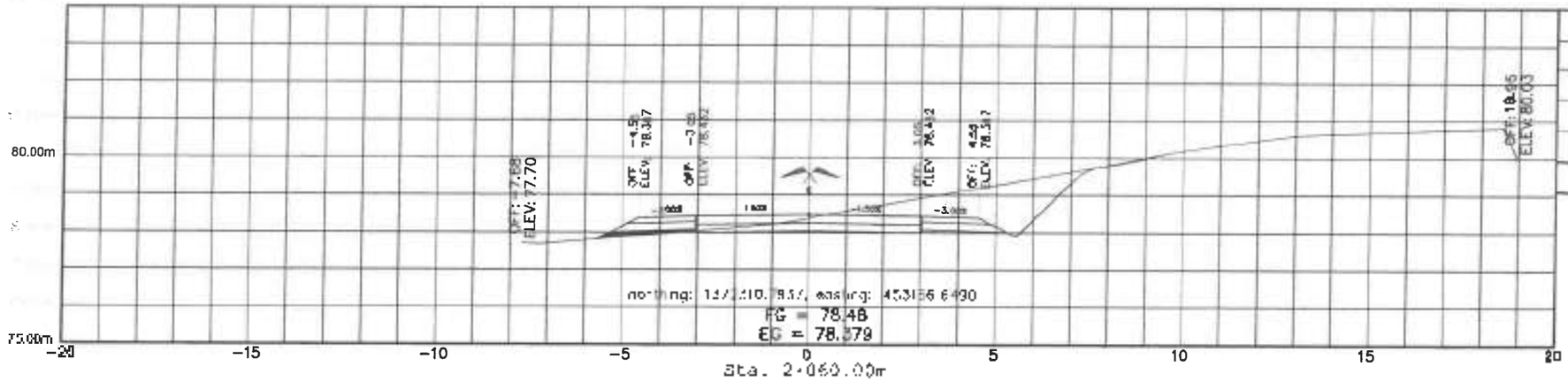
Material(s) at Station K001+880.00

Material Name	Area
CUT	16.18
FILL	0.50
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

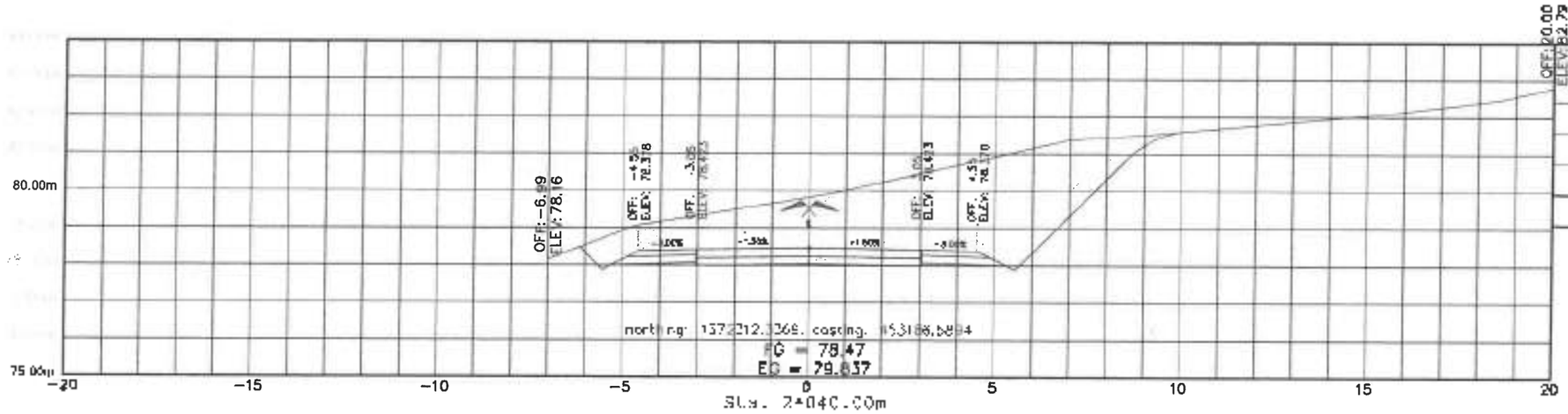
DETAILED CROSS SECTION

SCALE: 1:100 METERS

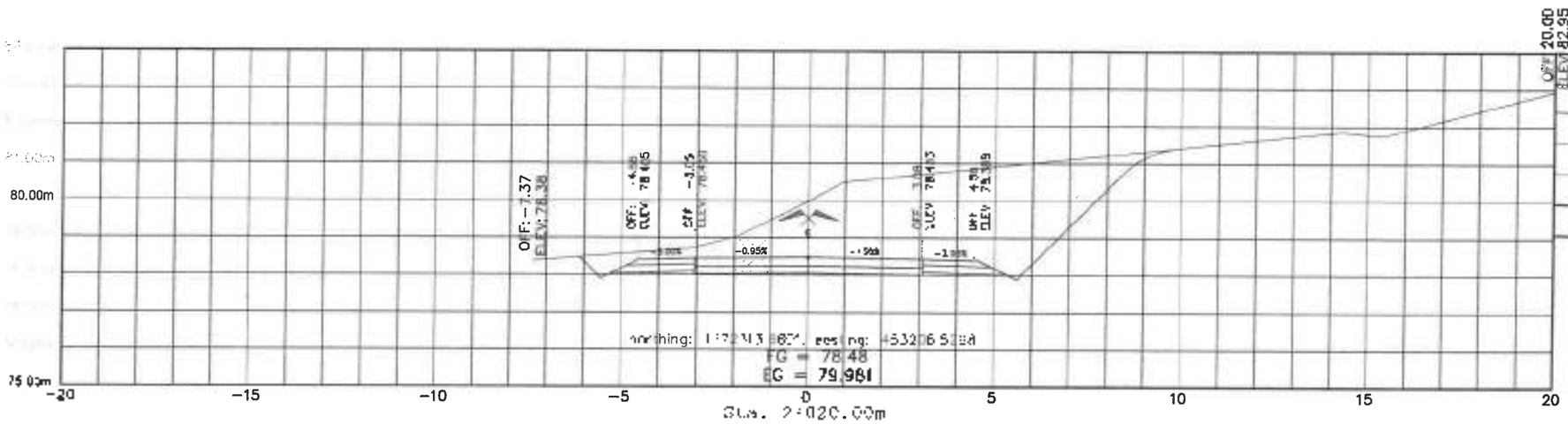
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & LOCATION: CONSTRUCTION OF CAGABACA - CULARINA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT COMPONENT & LOCATION: DETAILED CROSS SECTION	DRAFTED/SCANNED: MARTIN M. DELA TORRE Engineer II	REVIEWED: MAR DIGNALD N. ZIMAN Asst. Chief, Planning & Design Section Date	SUBMITTED: ANDY S. BRENO Chief, Planning & Design Section Date	RECOMMENDED: VIVIAN V. BIACO Asst. Dist. Engineer Date	APPROVED: ALVIN A. IGNACIO District Engineer Date	SHEET NO. CS 42 of 83	TOTAL SHEETS 73 of 85



Material(s) at Station K002+060.00	
Material Name	Area
CUT	5.87
FILL	0.30
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00



Material(s) at Station K002+040.00	
Material Name	Area
CUT	25.82
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

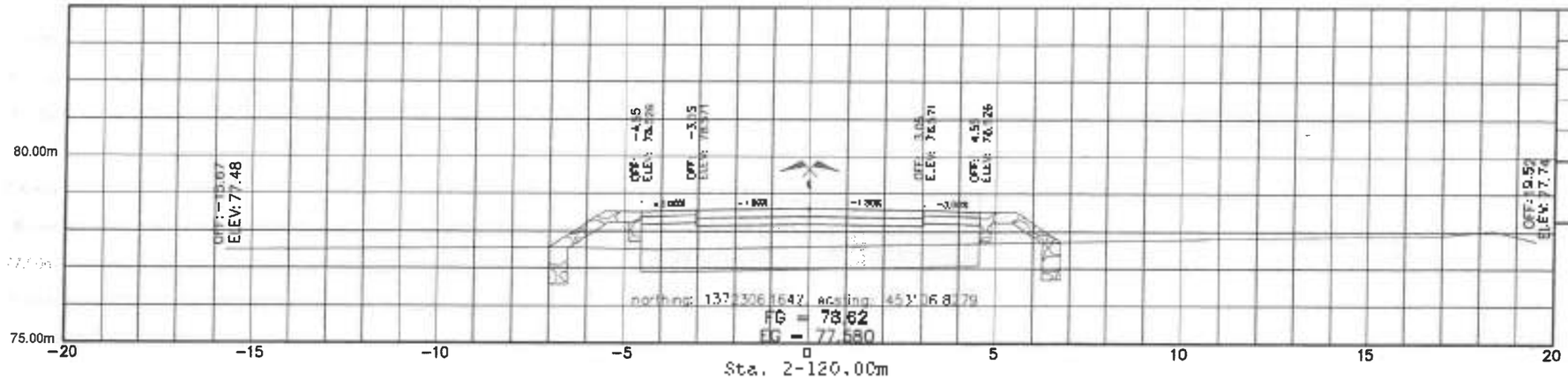


Material(s) at Station K002+020.00	
Material Name	Area
CUT	24.02
FILL	0.00
ITEM 103(1)a	0.00
ITEM 505(2)a	0.00

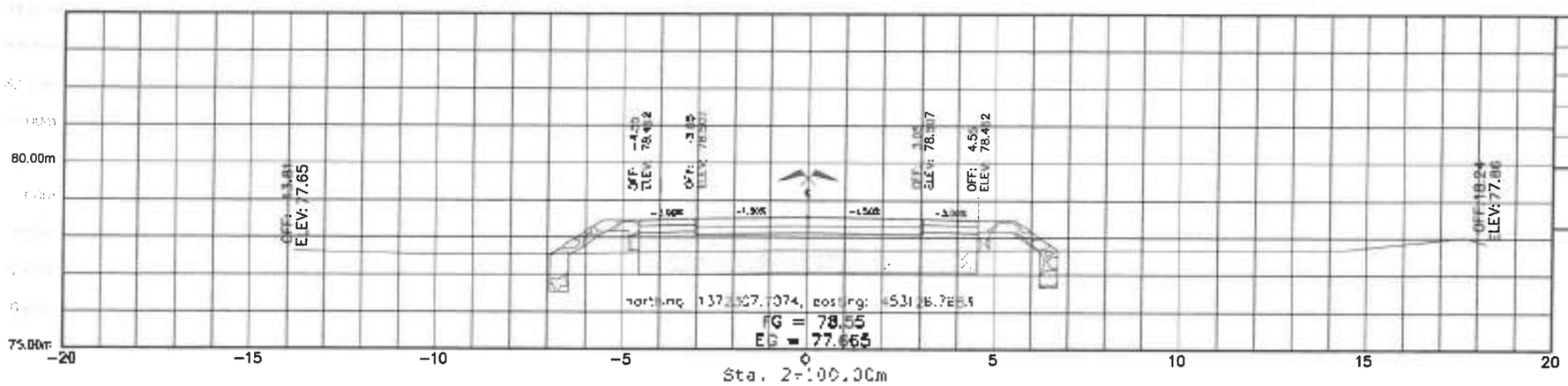
DETAILED CROSS SECTION

SCALE: 1:100 METERS

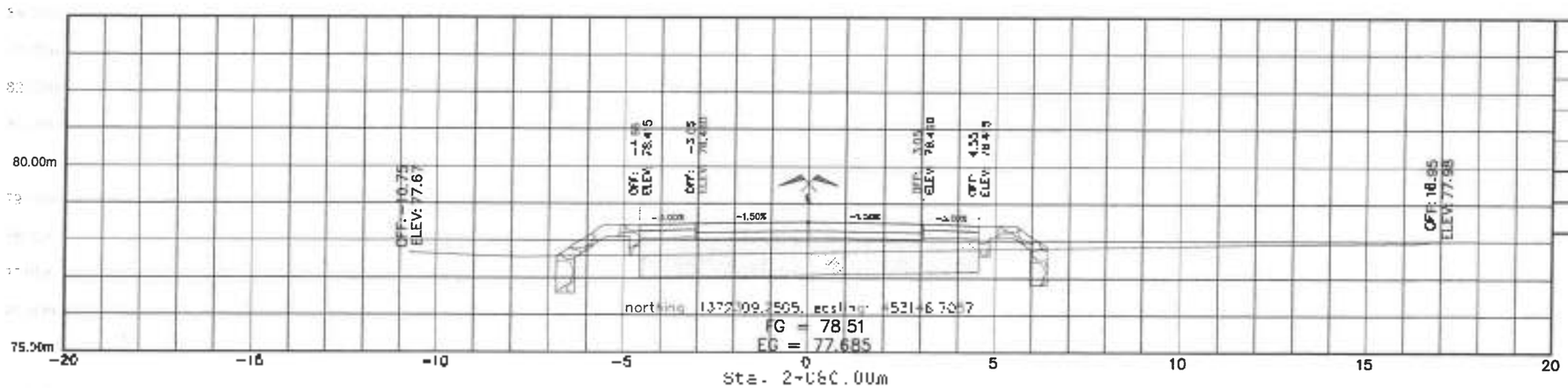
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION CONSTRUCTION OF CAG-ABACA - CULARMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT TITLE & LOCATION DETAILED CROSS SECTION	PREPARED BY: WARREN M. DELA TORRE ENGINEER II	REVIEWED: MARDIONALD N. ERMAN ASST. CHIEF, PLANNING AND DESIGN SECTION Date:	SUBMITTED: ANDY B. ERENO CHIEF, PLANNING AND DESIGN SECTION Date:	RECOMMENDED: VIVIANO G. BIACO ASSISTANT DISTRICT ENGINEER Date:	APPROVED: ALVIN A. IGNACIO DISTRICT ENGINEER Date:	SHEET NO. CS 53 / 53	TOTAL SHEETS N N/A



Material(s) at Station K002+121.00	
Material Name	Area
CUT	0.00
FILL	13.32
ITEM 102(1)	5.46
ITEM 103(1)a	0.99
ITEM 505(2)a	2.54



Material(s) at Station K002+100.00	
Material Name	Area
CUT	0.00
FILL	10.68
ITEM 102(1)	5.46
ITEM 103(1)a	1.01
ITEM 505(2)a	2.40

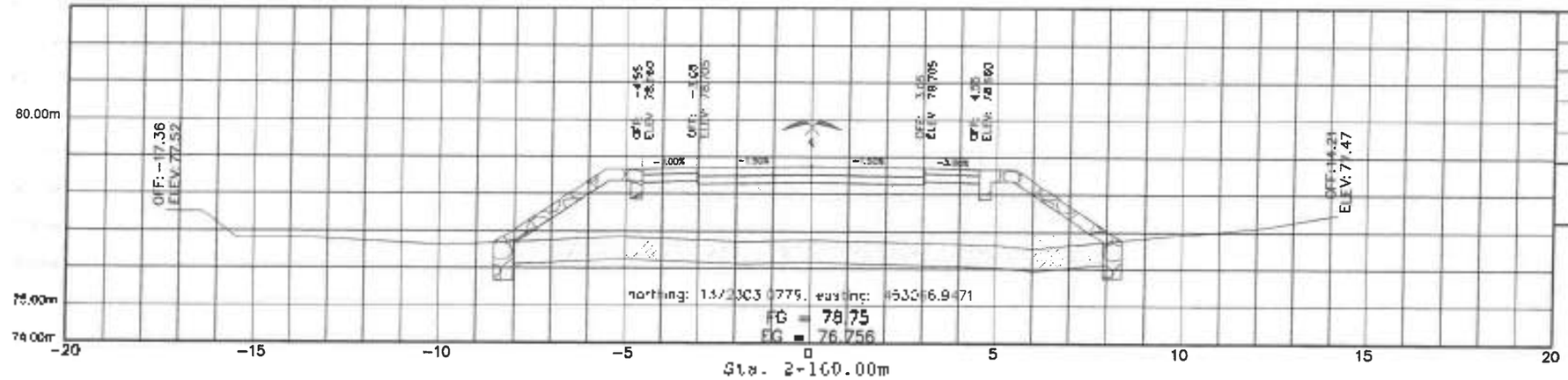


Material(s) at Station K002+080.00	
Material Name	Area
CUT	0.00
FILL	9.81
ITEM 102(1)	5.46
ITEM 103(1)a	1.00
ITEM 505(2)a	2.35

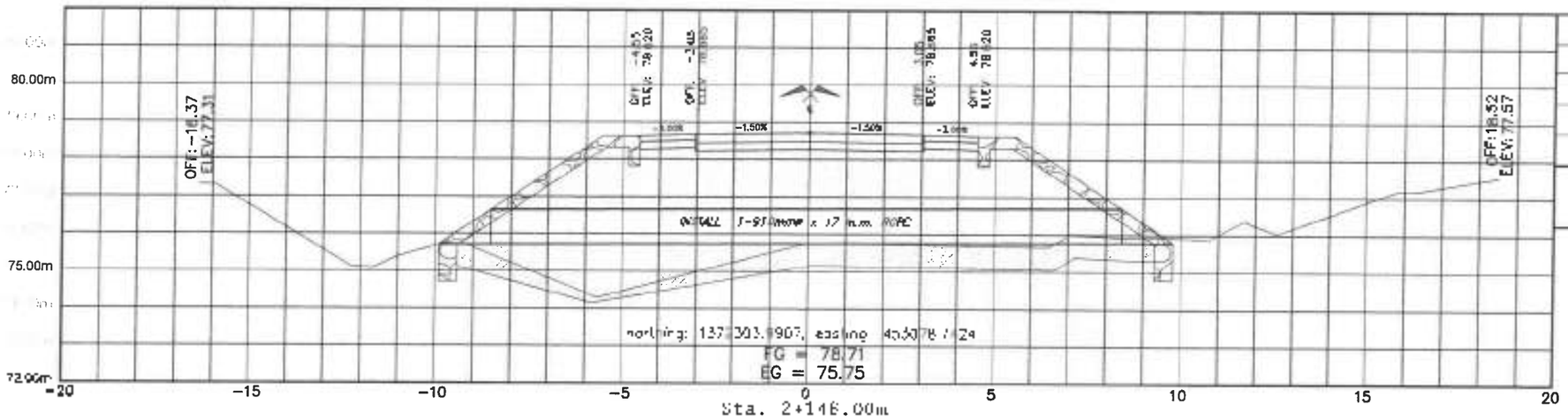
DETAILED CROSS SECTION

SCALE 1:100 METERS

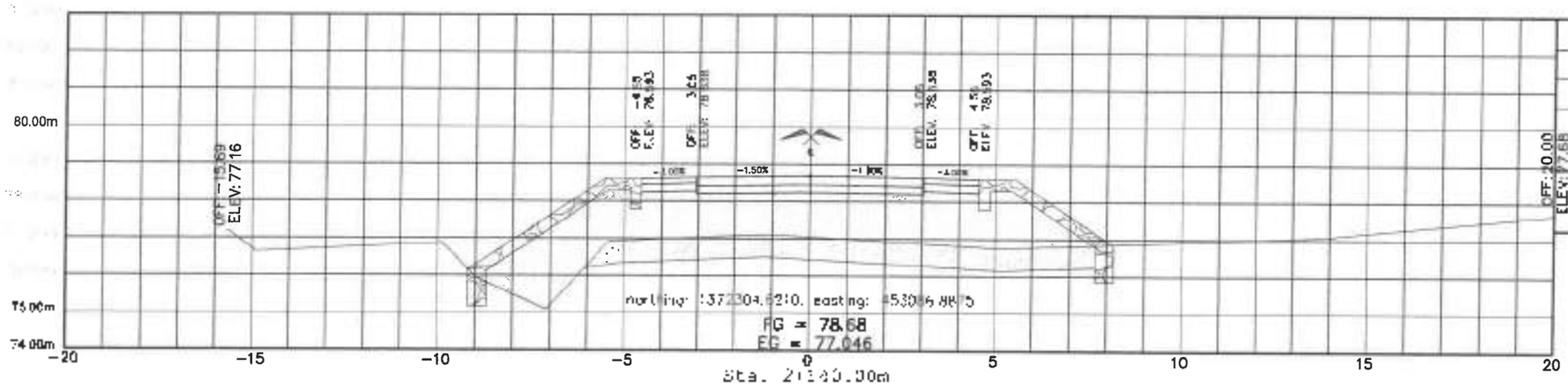
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION CONSTRUCTION OF CAG-ABACA - CULARMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR Catarman, Northern Samar	PROJECT NAME & DESCRIPTION DETAILED CROSS SECTION	DRAWN/PREPARED BY: MARTIN N. DELA TORRE Draftsman	REVIEWED: MARIDONALD N. EIMAN Asst. Chief, Planning & Design Section Date	REVIEWED: ANDY S. BRENO Chief, Planning and Design Section Date	RECOMMENDED: VIVIAN S. BIACO Asst. District Engineer Date	APPROVED: ALVIN A. IGNACIO District Engineer Date	SHEET NO. 06 54 of 89	SHEET NO. 77 89



Material(s) at Station K002+100.00	
Material Name	Area
CUT	0.00
FILL	37.79
ITEM 102(1)	5.59
ITEM 103(1)a	0.99
ITEM 905(2)a	3.87



Material(s) at Station K002+118.00	
Material Name	Area
CUT	0.00
FILL	37.99
ITEM 102(1)	4.62
ITEM 103(1)a	0.96
ITEM 905(2)a	4.67

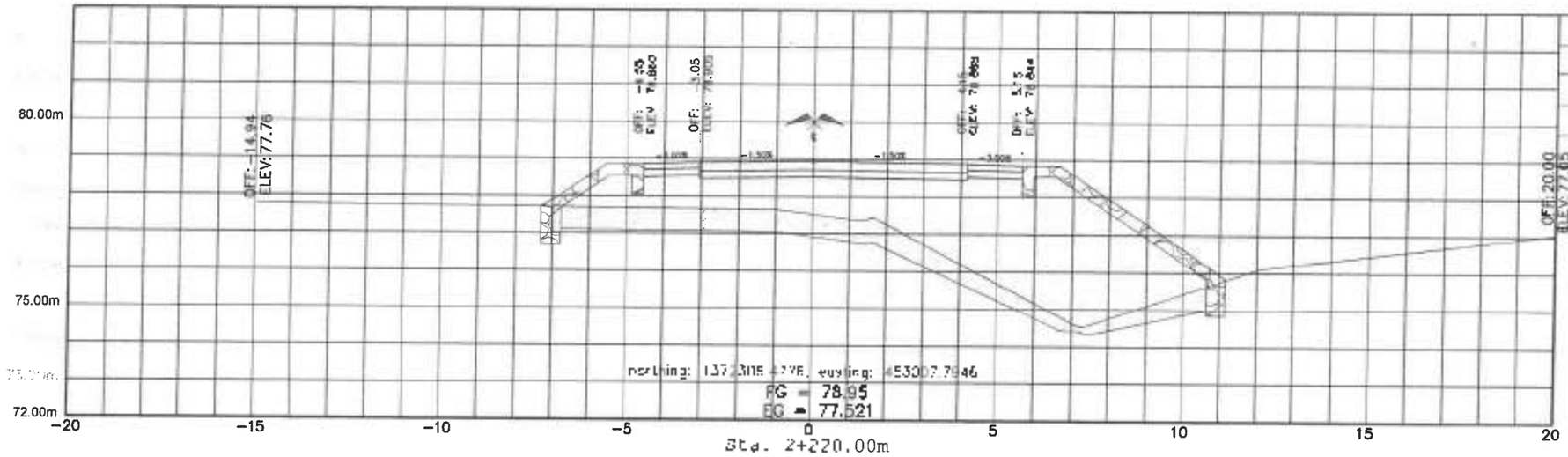


Material(s) at Station K002+140.00	
Material Name	Area
CUT	0.00
FILL	29.41
ITEM 102(1)	8.08
ITEM 103(1)a	0.89
ITEM 905(2)a	3.82

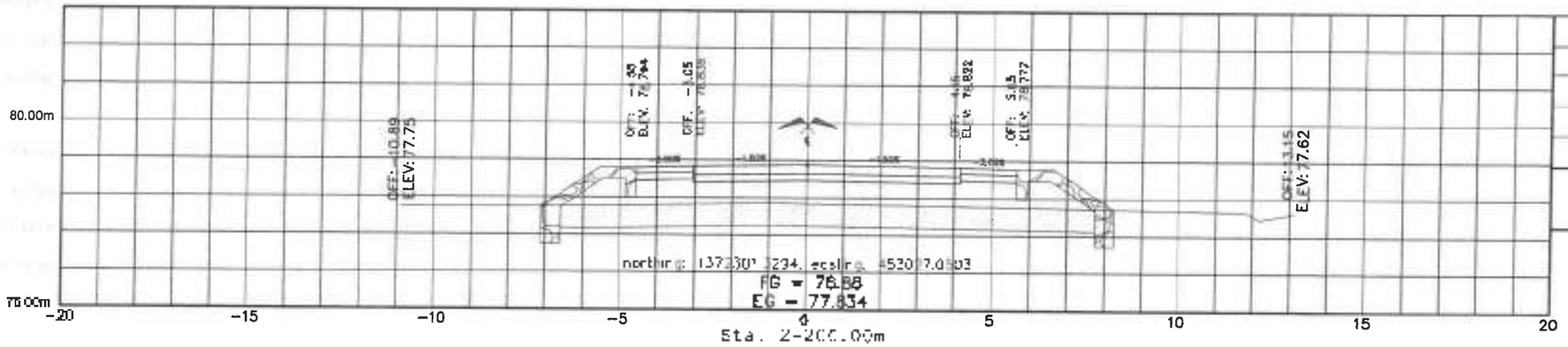
DETAILED CROSS SECTION

SCALE: 1:100 METERS

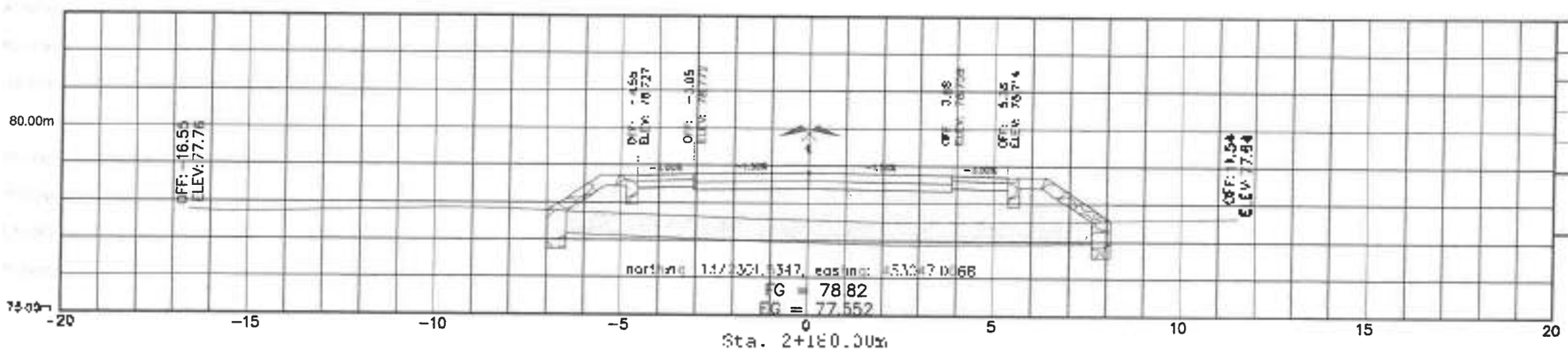
Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME & LOCATION CONSTRUCTION OF CAGAABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME & LOCATION DETAILED CROSS SECTION	DRAFTTHEREMAN: MARTIN R. DELA TORRE< ENGINEER II	REVIEWED: MARDIONALD N. EMMAN Date:	SUBMITTED: ANDY S. ERERO Date:	RECOMMENDED: VIVIAN S. BIACO Date:	APPROVED: ALVIN A. IGNACIO Date:	SHEET NO. 26 46



Material(s) at Station K002+220.00	
Material Name	Area
CUT	0.00
FILL	37.45
ITEM 102(1)	9.24
ITEM 103(1)a	0.84
ITEM 505(2)a	3.82



Material(s) at Station K002+200.00	
Material Name	Area
CUT	0.00
FILL	17.93
ITEM 102(1)	8.62
ITEM 103(1)a	1.00
ITEM 505(2)a	2.71

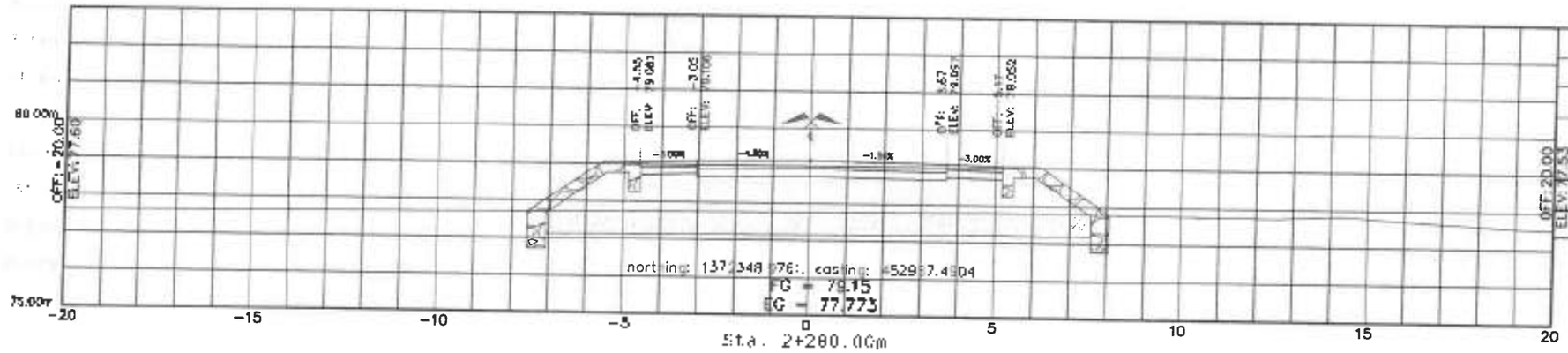


Material(s) at Station K002+180.00	
Material Name	Area
CUT	0.00
FILL	19.81
ITEM 102(1)	8.45
ITEM 103(1)a	0.99
ITEM 505(2)a	2.71

DETAILED CROSS SECTION

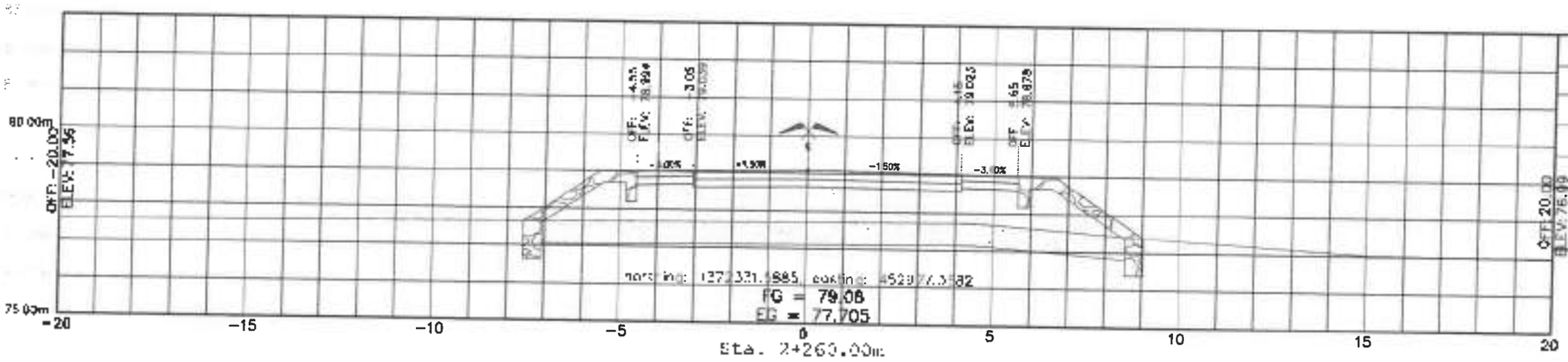
SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT NAME / LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR CATARMAN, NORTHERN SAMAR	PROJECT NAME / DRAWING DETAILED CROSS SECTION	DRAFTED BY: MARTIN B. DELA TORRE ENGINEER II	PREPARED: MAR DONALD N. EIRAN Date	SUBMITTED: ANDY B. ERIÑO Date	RECOMMENDING: VIVIANO G. BIACO Date	APPROVED: ALVIN A. IGNACIO Date	SHEET NO. CS	SHEET NO. 3a / 3b



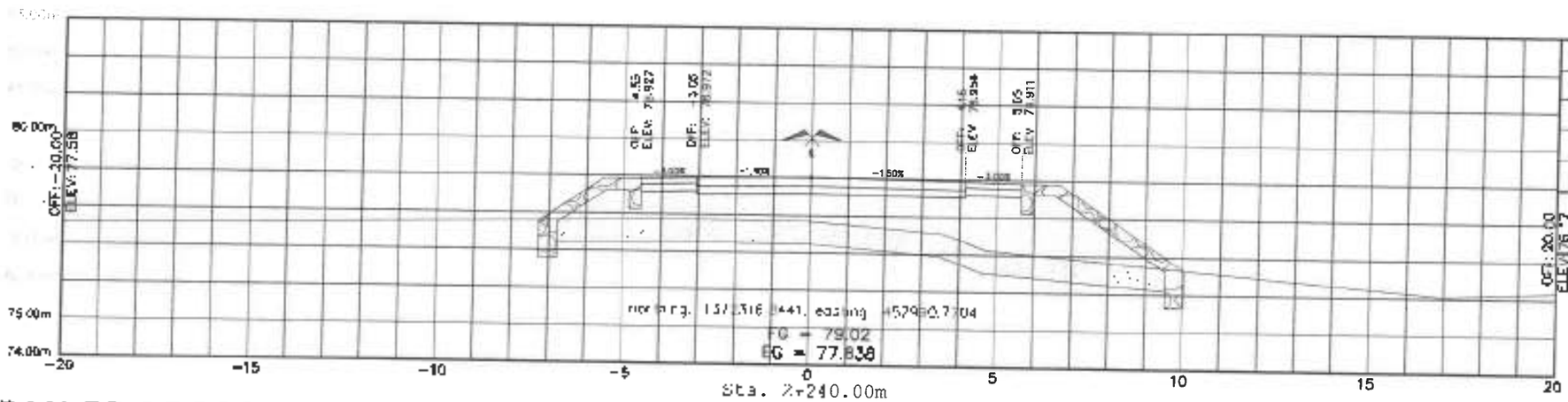
Material(s) at Station K002+280.00

Material Name	Area
C/T	0.00
FILL	21.65
ITEM 102(1)	4.78
ITEM 103(1)a	1.01
ITEM 505(2)a	2.99



Material(s) at Station K002+260.00

Material Name	Area
C/T	0.00
FILL	23.40
ITEM 102(1)	9.37
ITEM 103(1)a	1.01
ITEM 505(2)a	3.16



Material(s) at Station K002+240.00

Material Name	Area
CUT	0.00
FILL	24.82
ITEM 102(1)	9.84
ITEM 103(1)a	1.07
ITEM 505(2)a	3.41

DETAILED CROSS SECTION

SCALE: 1:100 METERS

Republic of the Philippines DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE No. VIII NORTHERN SAMAR FIRST DISTRICT ENGINEERING OFFICE Catarman, Northern Samar	PROJECT TITLE & LOCATION CONSTRUCTION OF CAG-ABACA - CULARIMA - GENERAL MALVAR ROAD, CATARMAN, NORTHERN SAMAR Catarman, Northern Samar	PROJECT PHASE & LOCATION DETAILED CROSS SECTION	PREPARED BY: MARTIN M. DELA TORRE Engineer II	REVIEWED: MAR DIONALD N. EMAN Asst. Chief, Planning and Design Section Date:	SUBMITTED: ANDY S. BRENO Chief, Planning and Design Section Date:	RECOMMENDED: VIVIANO ABACO Assistant District Engineer Date:	APPROVED: ALVIN A. IGNACIO District Engineer Date:	SHEET NO. 08 of 44	DRAWING NO. Ac 08