

Republic of the Philippines

**Detailed Design Study Report
of
New Bohol Airport Construction and Sustainable Environment Protection Project**

Final Report

Appendix-1: Draft Bid Documents

Document III: Drawings (Volume-1/2)

September 2013

Japan International Cooperation Agency (JICA)

Japan Airport Consultants, Inc. (JAC)
Nippon Koei Co., Ltd. (NK)
NJS Consultants Co., Ltd. (NJS)
Joint Venture

Republic of the Philippines

**Detailed Design Study Report
of
New Bohol Airport Construction and Sustainable Environment Protection Project**

Final Report

Appendix-1: Draft Bid Documents

Document III: Drawings (Volume-1/2)

September 2013

Japan International Cooperation Agency (JICA)

Japan Airport Consultants, Inc. (JAC)
Nippon Koei Co., Ltd. (NK)
NJS Consultants Co., Ltd. (NJS)
Joint Venture

Document III: Drawings

Volume-1/2		
Component	Work Description	Drawing List
Component-1 : General Requirements (G)		G1-1000-01 to 04
Component-2 : Civil Works (C)		
Subcomponent-2-1	(C1) Access Road	C1-2100-01 to 19, C1-2200-01 to 03, C1-2300-01 to 08, C1-2400-01 to 02, C1-2500-01 to 02, C1-3110-01 to 09, C1-3290-01 to 06
Subcomponent-2-2	(C2) Airport Infrastructure	C2-2100-01 to 26, C2-2200-01 to 16, C2-2300-01 to 14, C2-2400-01 to 17, C2-2500-01 to 13
Component-3 : Utility Works (U)		
Subcomponent-3-1	(U1) Water Supply System	U1-3110-01 to 03, U1-3130-01 to 03, U1-3150-01 to 02,
Subcomponent-3-2	(U2) Power Supply System	U2-3210-01 to 11, U2-3230-01 to 04, U2-3250-01 to 03, U2-3270-01 to 07, U2-3290-01 to 03
Subcomponent-3-3	(U3) Sewage Treatment System	U3-3305-01 to 03, U3-3310-01 to 54, U3-3350-01 to 15, U3-3370-01 to 03
Component-4 : Building Works (B)		
Subcomponent-4-0	(B0) General	B0-4300-01 to 14, B0-4200-01 to 03, B0-5100-01 to 04, B0-5200-01 to 05, B0-5300-01 to 04, B0-6000-01 to 04, B0-6200-01, B0-6300-01 to 04, B0-6400-01, B0-6500-01, B0-6600-01 to 02, B0-6700-01 to 02, B0-6800-01 to 03, B0-6900-01 to 05, B0-7300-01 to 02, B0-7400-01, B0-7500-01, B0-7600-01 to 02, B0-7700-01 to 02
Subcomponent-4-1	(B1) Passenger Terminal Building	B1-4300-01 to 89, B1-4200-01 to 25, B1-5100-01 to 16, B1-5200-01 to 25, B1-5300-01 to 07, B1-6100-01 to 06, B1-6200-01 to 08, B1-6300-01, B1-6400-01, B1-6500-01, B1-6600-01, B1-6700-01, B1-6800-01, B1-6900-01, B1-7500-01 to 02, B1-7700-01

Volume-2/2		
Component	Work Description	Drawing List
Component-4 : Building Works (B)		
Subcomponent-4-3	(B3) Control Tower, ATC Operation & Administration Building	B3-4300-01 to 53, B3-4200-01 to 22, B3-5100-01 to 12, B3-5200-01 to 20, B3-5300-01 to 03, B3-6100-01 to 11, B3-6200-01 to 12, B3-6300-01 to 03, B3-6400-01 to 02, B3-6600-01 to 03, B3-6700-01 to 03, B3-6800-01 to 04, B3-6900-01, B3-7200-01 to 02, B3-7500-01 to 02
Subcomponent-4-4	(B4) Fire Station	B4-4300-01 to 19, B4-4200-01 to 04, B4-5100-01 to 04, B4-5200-01 to 04, B4-5300-01, B4-6100-01 to 03, B4-6200-01 to 03, B4-6300-01, B4-6400-01, B4-6600-01, B4-6800-01, B4-6900-01, B4-7500-01

Volume - 2/2 - continued		
Component	Work Description	Drawing List
Subcomponent-4-5	(B5) Ancillary Buildings	
	(B51) Driver's Lounge	B51-4300-01 to 03, B51-4200-01, B51-5100-01, B51-5300-01, B51-6200-01, B51-7500-01
	(B52) Car Parks Toilet	B52-4300-01 to 05, B52-4200-01, B52-5100-01, B52-5200-01, B52-6100-01, B52-6200-01
	(B53) Guard House	B53-4300-01 to 07, B53-4200-01 to 02, B53-5100-01, B53-5200-01, B53-5300-01, B53-6100-01, B53-6200-01, B53-6300-01
	(B54) Tollbooths	B54-4300-01 to 06, B54-4200-01, B54-5100-01, B54-5200-01, B54-6100-01, B54-6200-01, B54-6300-01
Subcomponent-4-6	(B6) Utility Buildings	
	(B61) Water Tank & Pump Station	B61-4300-01 to 10, B61-4200-01 to 04, B61-5100-01 to 02, B61-5200-01, B61-5300-01, B61-6100-01 to 03, B61-6200-01 to 02, B61-6300-01, B61-6800-01, B61-6900-01
	(B62) Power Houses	B62-4300-01 to 13, B62-4200-01 to 08, B62-5100-01 to 03, B62-5200-01 to 03, B62-5300-01, B62-6100-01 to 03, B62-6200-01 to 03, B62-6300-01, B62-6800-01, B62-6900-01
	(B63) STP Control Room	B63-4300-01 to 04, B63-4200-01 to 04, B63-5100-01 to 02, B63-5200-01, B63-5300-01, B63-6100-01 to 03, B63-6200-01, B63-6300-01, B63-6800-01, B63-6900-01
	(B64) Material Recover Facility	B64-4300-01 to 03, B64-4200-01 to 03, B64-5100-01 to 02, B64-5200-01, B64-5300-01, B64-6100-01, B64-6200-01, B64-6900-01
Subcomponent-4-7	(B7) Nav aids Buildings	
	(B71) LLZ Building	B71-4300-01 to 04, B71-4200-01, B71-5100-01, B71-5200-01, B71-5300-01, B71-6100-01, B71-6200-01, B71-6300-01, B71-6800-01, B71-6900-01
	(B72) GS Building	B72-4300-01 to 04, B72-4200-01, B72-5100-01, B72-5200-01, B72-5300-01, B72-6100-01, B72-6200-01, B72-6300-01, B72-6800-01, B72-6900-01
	(B73) VOR Building	B73-4300-01 to 04, B73-4200-01, B73-5100-01, B73-5200-01, B73-5300-01, B73-6100-01, B73-6200-01, B73-6300-01, B73-6800-01, B73-6900-01
Component-5 : Air Navigation Facilities (N)		
Subcomponent-5-0	(N0) General	N0-8050-01 to 05
Subcomponent-5-1	(N1) ILS	N1-8100-01 to 11
Subcomponent-5-2	(N2) VOR/DME	N2-8200-01 to 03
Subcomponent-5-3	(N3) ATS and Telecommunications	N3-8300-01 to 08
Subcomponent-5-4	(N4) Meteorological Observation System	N4-8400-01 to 04
Component-6 : Aeronautical Ground Lighting Works (L)		
Subcomponent-6-0	(L0) General	L0-9050-01 to 07
Subcomponent-6-1	(L1) Approach Lighting Systems	L1-9100-01 to 07
Subcomponent-6-2	(L2) Precision Approach Path Indicators	L2-9200-01 to 02
Subcomponent-6-3	(L3) Runway Lighting System	L3-9300-01 to 07
Subcomponent-6-4	(L4) Taxiway Lighting System	L4-9400-01 to 05
Subcomponent-6-5	(L5) Other Aeronautical Lightings	L5-9500-01 to 03
Subcomponent-6-6	(L6) Apron Floodlighting	L6-9600-01 to 02
Subcomponent-6-7	(L7) Underground Cable Ducts	L7-9700-01 to 03
Subcomponent-6-8	(L8) Control and Monitor System	L8-9800-01 to 02



Republic of the Philippines
DEPARTMENT OF TRANSPORTATION
AND
COMMUNICATIONS



JAPAN
INTERNATIONAL
COOPERATION
AGENCY

NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

DRAWINGS

COMPONENT-1 General Requirements (G)

COMPONENT-2 Civil Works (C)



August 2013

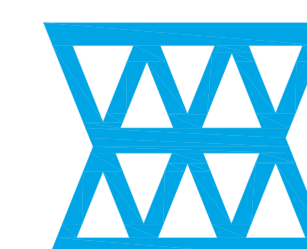
JICA DESIGN CONSULTANT JOINT VENTURE



JAPAN AIRPORT
CONSULTANTS,
INC.



NIPPON KOEI
CO., LTD.




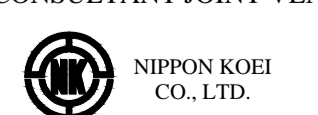



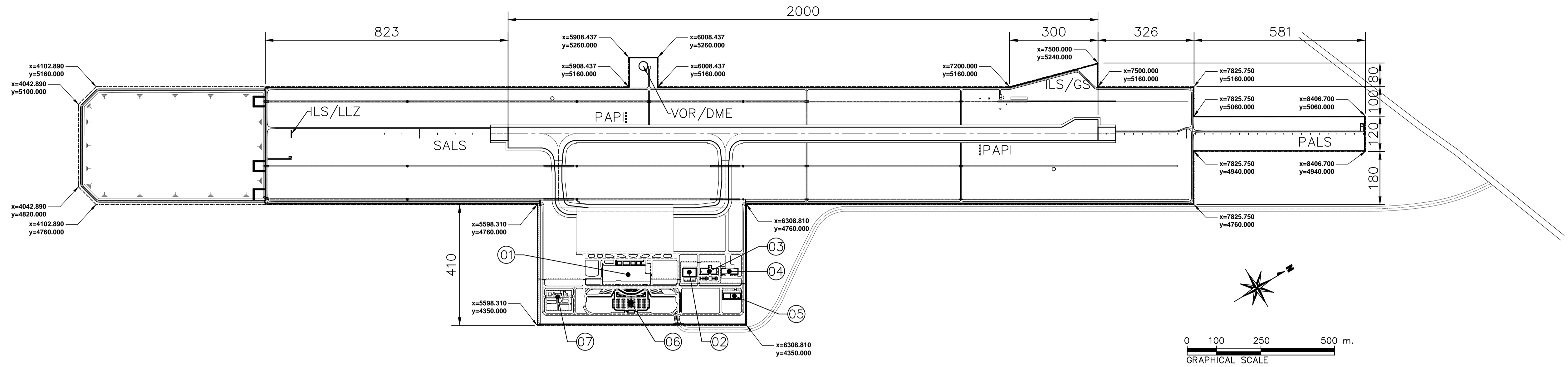
NJS CONSULTANTS
CO., LTD.

DRAWING LIST

DOCUMENT IV: DRAWINGS
 COMPONENT 1: GENERAL REQUIREMENTS (G)
 COMPONENT 2: CIVIL WORKS (C)

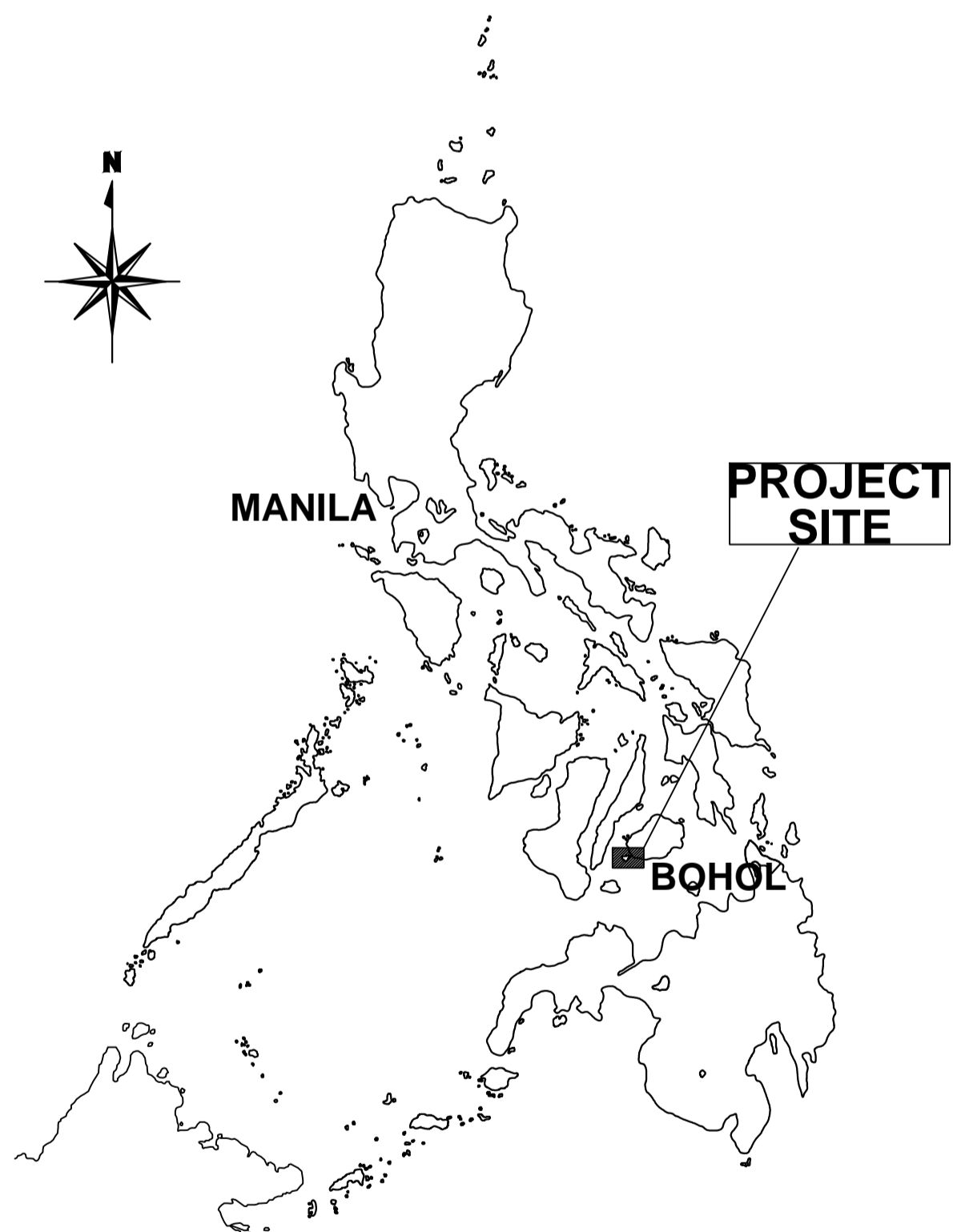
SHEET No.	SHEET CONTENTS	SHEET No.	SHEET CONTENTS
SUBCOMPONENT 2-2: AIRPORT INFRASTRUCTURE		C2-2300	DRAINAGE SYSTEM – continued
C2-2100	EARTHWORKS	C2-2300-04	LANDSIDE DRAINAGE LAYOUT PLAN (1)
C2-2100-01	PRIMARY CONTROL POINTS	C2-2300-05	LANDSIDE DRAINAGE LAYOUT PLAN (2)
C2-2100-02	SITE TOPOGRAPHIC MAP	C2-2300-06	TYPICAL SECTION OF DRAINAGE SYSTEM (RCP AND MANHOLE TYPE-1)
C2-2100-03	CLEARING AND GRUBBING PLAN AND TOPSOIL REMOVAL	C2-2300-07	TYPICAL SECTION OF DRAINAGE SYSTEM (MANHOLE TYPE-2 AND 3)
C2-2100-04	GEOMETRIC AND BASIC POINTS (1) AERONAUTICAL AREAS	C2-2300-08	TYPICAL SECTION OF DRAINAGE SYSTEM (RIPRAP OPEN CANAL TYPE-1 AND RCP)
C2-2100-05	GEOMETRIC AND BASIC POINTS (2) AERONAUTICAL AREAS	C2-2300-09	TYPICAL SECTION OF DRAINAGE SYSTEM (RIPRAP OPEN CANAL TYPE-2 AND RCP)
C2-2100-06	GEOMETRIC AND BASIC POINTS (3) AERONAUTICAL AREAS	C2-2300-10	TYPICAL SECTION OF DRAINAGE SYSTEM (AERONAUTICAL AREAS (ILS/GS))
C2-2100-07	GEOMETRIC AND BASIC POINTS (4) AERONAUTICAL AREAS	C2-2300-11	STREET INLET PLAN AND DETAIL
C2-2100-08	GEOMETRIC AND BASIC POINTS (5) TERMINAL AREAS	C2-2300-12	FILTRATION BANK PLAN AND DETAIL
C2-2100-09	RUNWAY PROFILE (1)	C2-2300-13	MANHOLE GRATING PLAN AND DETAIL
C2-2100-10	RUNWAY PROFILE (2)	C2-2300-14	FUEL SEPARATOR TANK PLAN AND DETAIL
C2-2100-11	RUNWAY PROFILE (3)		
C2-2100-12	TAXIWAY PROFILE (1)	C2-2400	MISCELLANEOUS WORKS
C2-2100-13	TAXIWAY PROFILE (2)	C2-2400-01	CURBSTONE LAYOUT PLAN (1)
C2-2100-14	CROSS SECTION (1)	C2-2400-02	CURBSTONE LAYOUT PLAN (2)
C2-2100-15	CROSS SECTION (2)	C2-2400-03	CURBSTONE DETAIL (1)
C2-2100-16	CROSS SECTION (3)	C2-2400-04	CURBSTONE DETAIL (2)
C2-2100-17	CROSS SECTION (4)	C2-2400-05	GUIDE SIGNAGE'S LAYOUT PLAN (1)
C2-2100-18	CROSS SECTION (5)	C2-2400-06	GUIDE SIGNAGE'S DETAIL (1)
C2-2100-19	CROSS SECTION (6)	C2-2400-07	GUIDE SIGNAGE'S DETAIL (2)
C2-2100-20	CROSS SECTION (7)	C2-2400-08	GUIDE SIGNAGE'S FOR CANTILEVER POST CONNECTION DETAIL
C2-2100-21	AERONAUTICAL AREAS GRADING PLAN (1)	C2-2400-09	GUIDE SIGNAGE'S FOR 2 POST CONNECTION DETAIL
C2-2100-22	AERONAUTICAL AREAS GRADING PLAN (2)	C2-2400-10	ROAD SIGNAGE'S DETAIL
C2-2100-23	AERONAUTICAL AREAS GRADING PLAN (3)	C2-2400-11	ROAD SIGNAGE'S CONNECTION DETAIL
C2-2100-24	AERONAUTICAL AREAS GRADING PLAN (4)	C2-2400-12	OVERHEAD CANTILEVER POST AND FOUNDATION DETAIL
C2-2100-25	TERMINAL AREAS GRADING PLAN (1)	C2-2400-13	SIGN POST AND FOUNDATION DETAIL
C2-2100-26	TERMINAL AREAS GRADING PLAN (2)	C2-2400-14	PERIMETER FENCE LAYOUT PLAN
		C2-2400-15	PERIMETER FENCE DETAIL
C2-2200	PAVEMENT WORKS	C2-2400-16	GATES LOCATION PLAN AND DETAIL
C2-2200-01	AERONAUTICAL AREAS PAVEMENT CLASSIFICATION LAYOUT AND SCHEDULE	C2-2400-17	FLAGPOLE LAYOUT PLAN AND FOUNDATION DETAIL
C2-2200-02	TYPICAL PAVEMENT SECTION AERONAUTICAL AREAS		
C2-2200-03	APRON JOINT LAYOUT PLAN AND SECTIONAL DETAIL	C2-2500	LANDSCAPING
C2-2200-04	APRON PAVEMENT JOINT DETAIL	C2-2500-01	SODDING LAYOUT PLAN
C2-2200-05	LANDSIDE PAVEMENT CLASSIFICATION LAYOUT PLAN AND DETAIL	C2-2500-02	PLANTING PLAN (1)
C2-2200-06	LAYOUT PLAN-(AERONAUTICAL AREAS)	C2-2500-03	PLANTING PLAN (2)
C2-2200-07	DETAILS OF ROAD INTERSECTION AND CURVES (AERONAUTICAL AREAS)	C2-2500-04	PLANTING PLAN (3)
C2-2200-08	RUNWAY PAVEMENT LAYOUT PLAN AND DETAIL (1)	C2-2500-05	PLANTING PLAN (4)
C2-2200-09	RUNWAY PAVEMENT LAYOUT PLAN AND DETAIL (2)	C2-2500-06	PLANTING PLAN (5)
C2-2200-10	RUNWAY PAVEMENT LAYOUT PLAN AND DETAIL (3)	C2-2500-07	IRRIGATION SYSTEM LAYOUT PLAN (1)
C2-2200-11	AIRFIELD PAVEMENT MARKING LAYOUT PLAN	C2-2500-08	IRRIGATION SYSTEM LAYOUT PLAN (2)
C2-2200-12	AIRFIELD PAVEMENT MARKING DETAILS (1)	C2-2500-09	IRRIGATION SYSTEM LAYOUT PLAN (3)
C2-2200-13	AIRFIELD PAVEMENT MARKING DETAILS (2)	C2-2500-10	IRRIGATION SYSTEM LAYOUT PLAN (4)
C2-2200-14	PAVEMENT MARKING PLAN TERMINAL AREAS (1)	C2-2500-11	IRRIGATION SYSTEM LAYOUT PLAN (5)
C2-2200-15	PAVEMENT MARKING PLAN TERMINAL AREAS (2)	C2-2500-12	IRRIGATION SYSTEM LAYOUT PLAN (6)
C2-2200-16	PAVEMENT MARKING DETAILS TERMINAL AREAS	C2-2500-13	TYPICAL IRRIGATION EQUIPMENT INSTALLATION DETAILS
C2-2300	DRAINAGE SYSTEM		
C2-2300-01	DRAINAGE LAYOUT PLAN AERONAUTICAL AREAS (1)		
C2-2300-02	DRAINAGE LAYOUT PLAN AERONAUTICAL AREAS (2)		
C2-2300-03	DRAINAGE LAYOUT PLAN AERONAUTICAL AREAS (3)		

 Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	 JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: <p style="text-align: center;">NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</p> LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) DRAWING LIST (2)	SHEET NO: C-LIST (2) DRAWING SCALE:	
JICA DESIGN CONSULTANT JOINT VENTURE  JAPAN AIRPORT CONSULTANTS, INC.		 NIPPON KOEI CO., LTD.		 NIS CONSULTANTS CO., LTD.		DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:

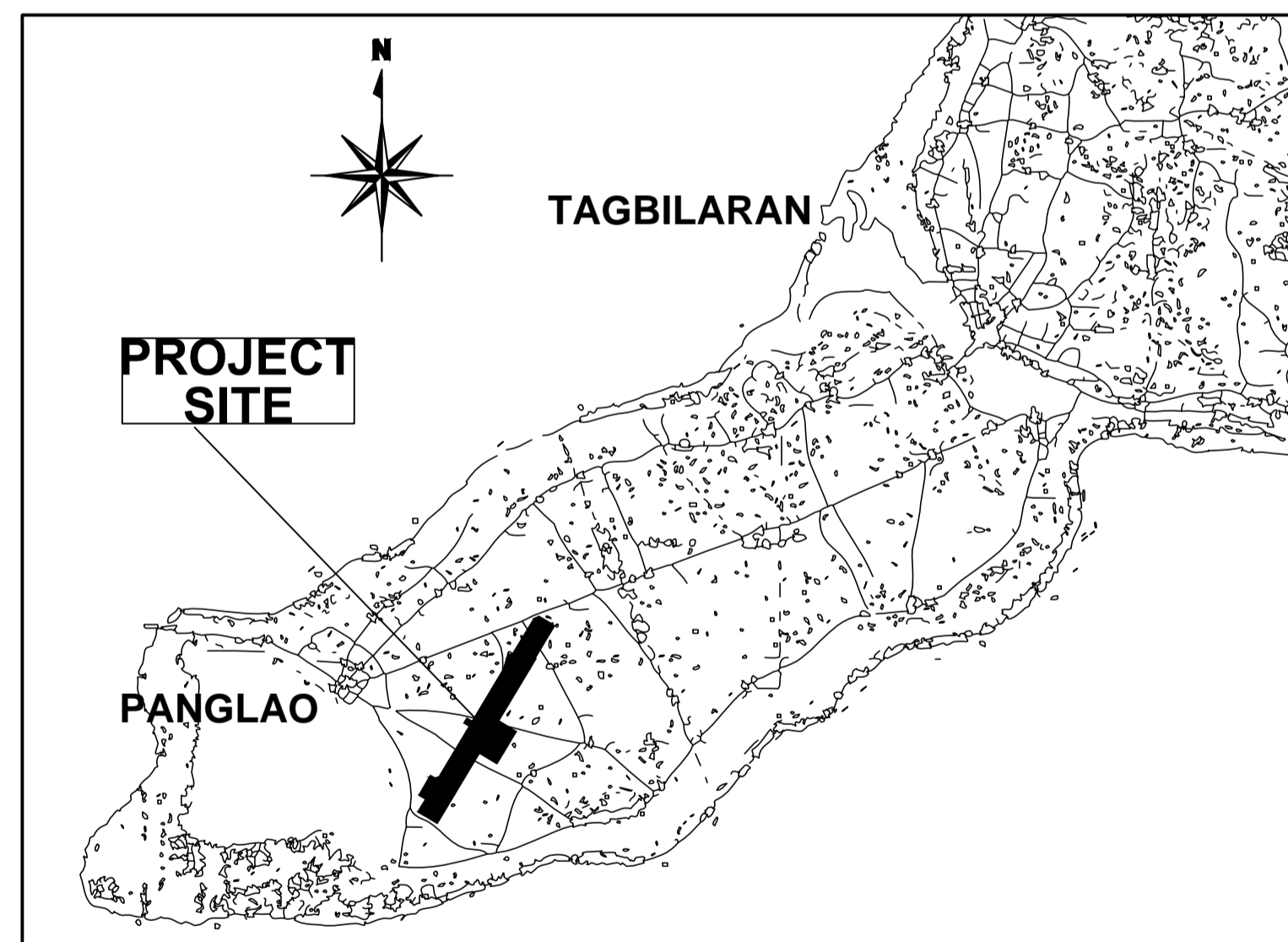


3 SITE DEVELOPMENT
SCALE 1:8000 M.

LEGEND:	
1	Passenger Terminal Building
2	Power House
3	Control Tower, ATC Operations and Administration Building
4	Fire and Rescue Station and Airport Maintenance Building
5	Water Tank and Pump House
6	Car Park
7	Sewage Treatment Plant

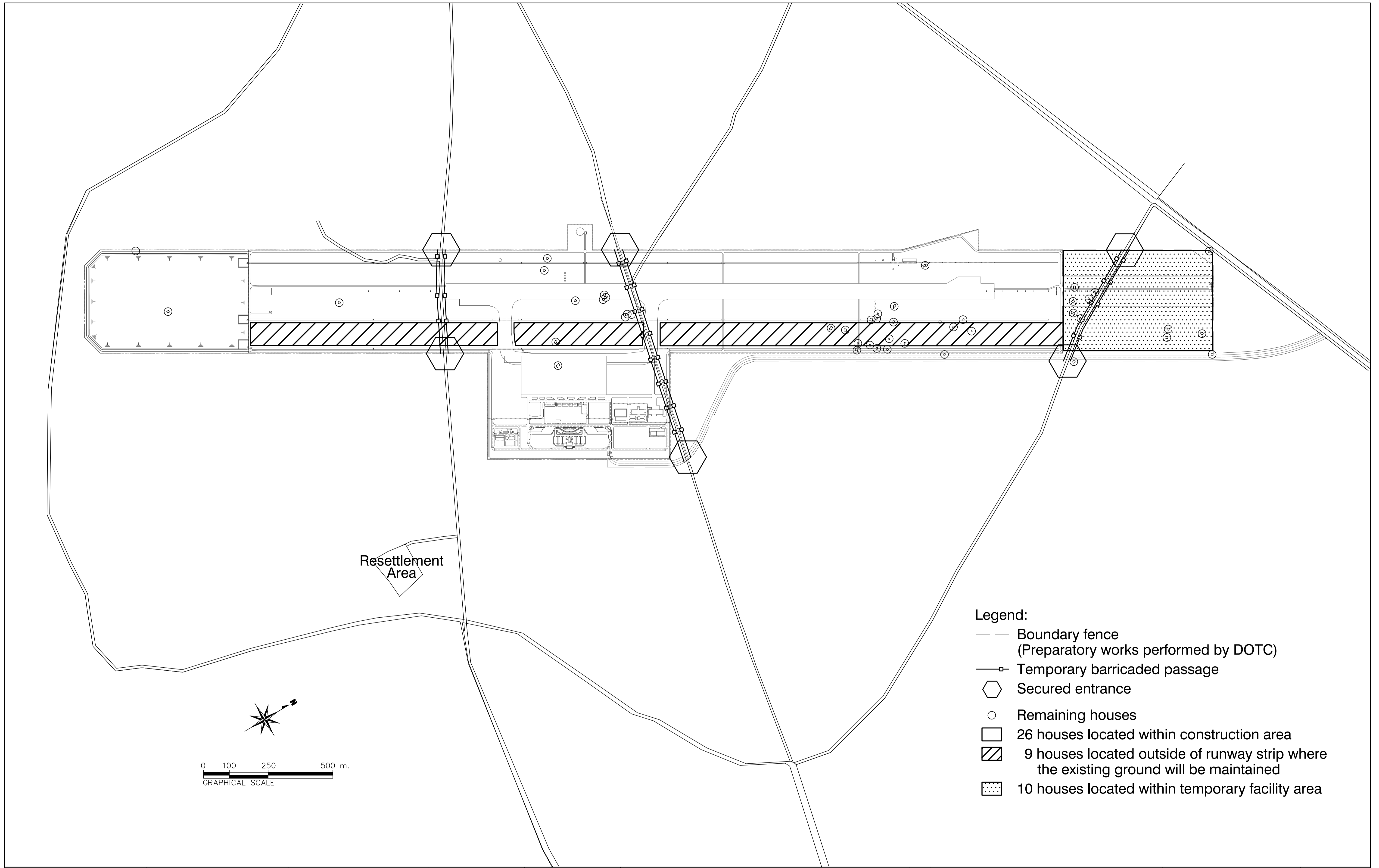


1 PHILIPPINE MAP
SCALE NTS



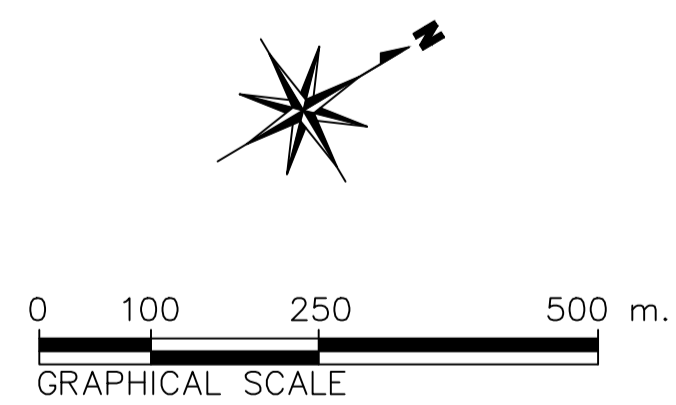
2 LOCATION MAP
SCALE NTS

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT 1: GENERAL REQUIREMENTS PHILIPPINE MAP LOCATION MAP SITE DEVELOPMENT	SHEET NO: G1-1000-01
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	DATE: JUNE 2013 INDEX AMENDMENTS Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN				

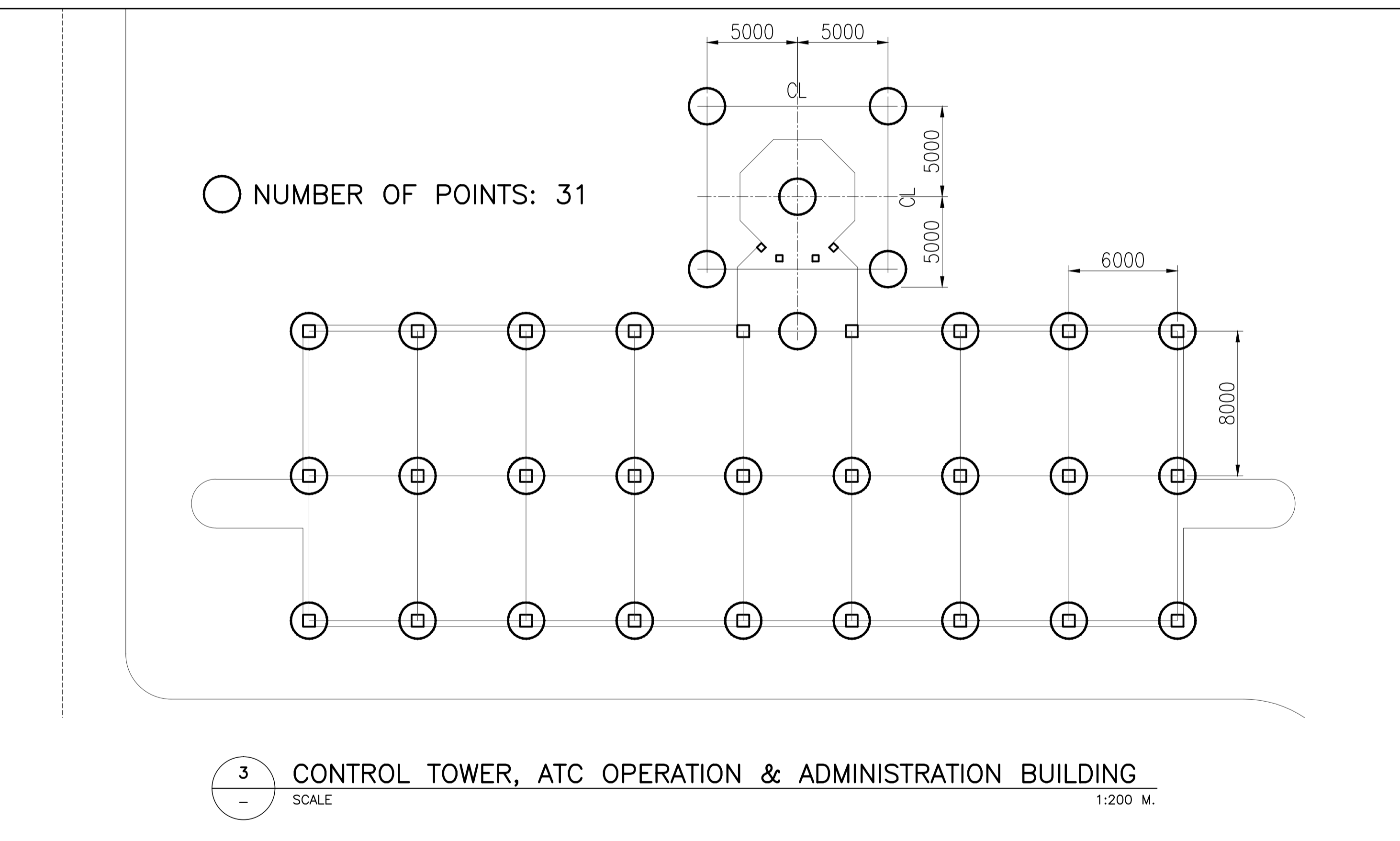
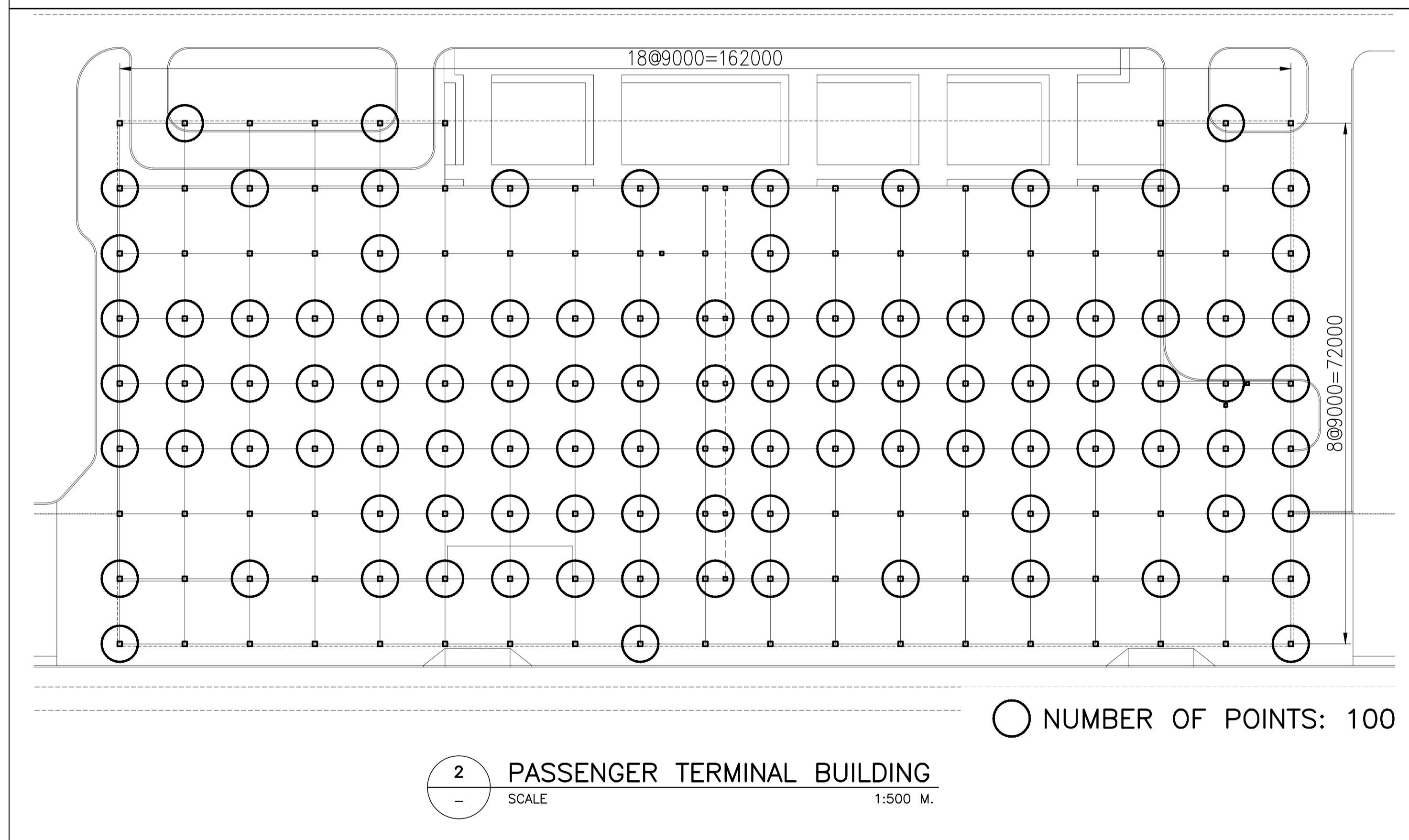
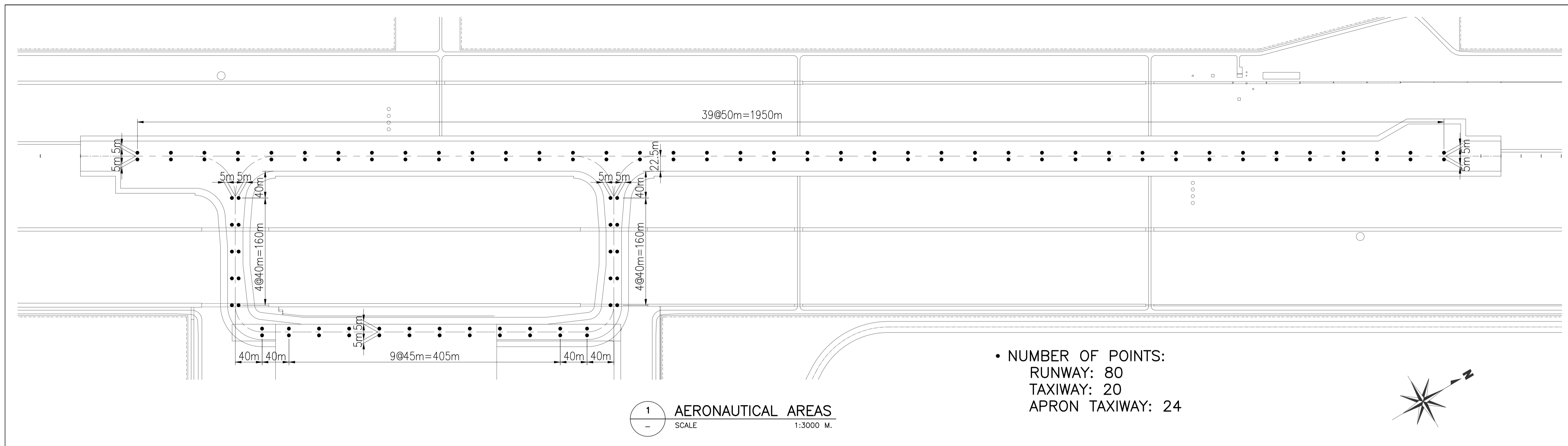


Legend:

- Boundary fence
(Preparatory works performed by DOTC)
- Temporary barricaded passage
- ⬡ Secured entrance
- Remaining houses
- 26 houses located within construction area
- ▨ 9 houses located outside of runway strip where the existing ground will be maintained
- ▤ 10 houses located within temporary facility area

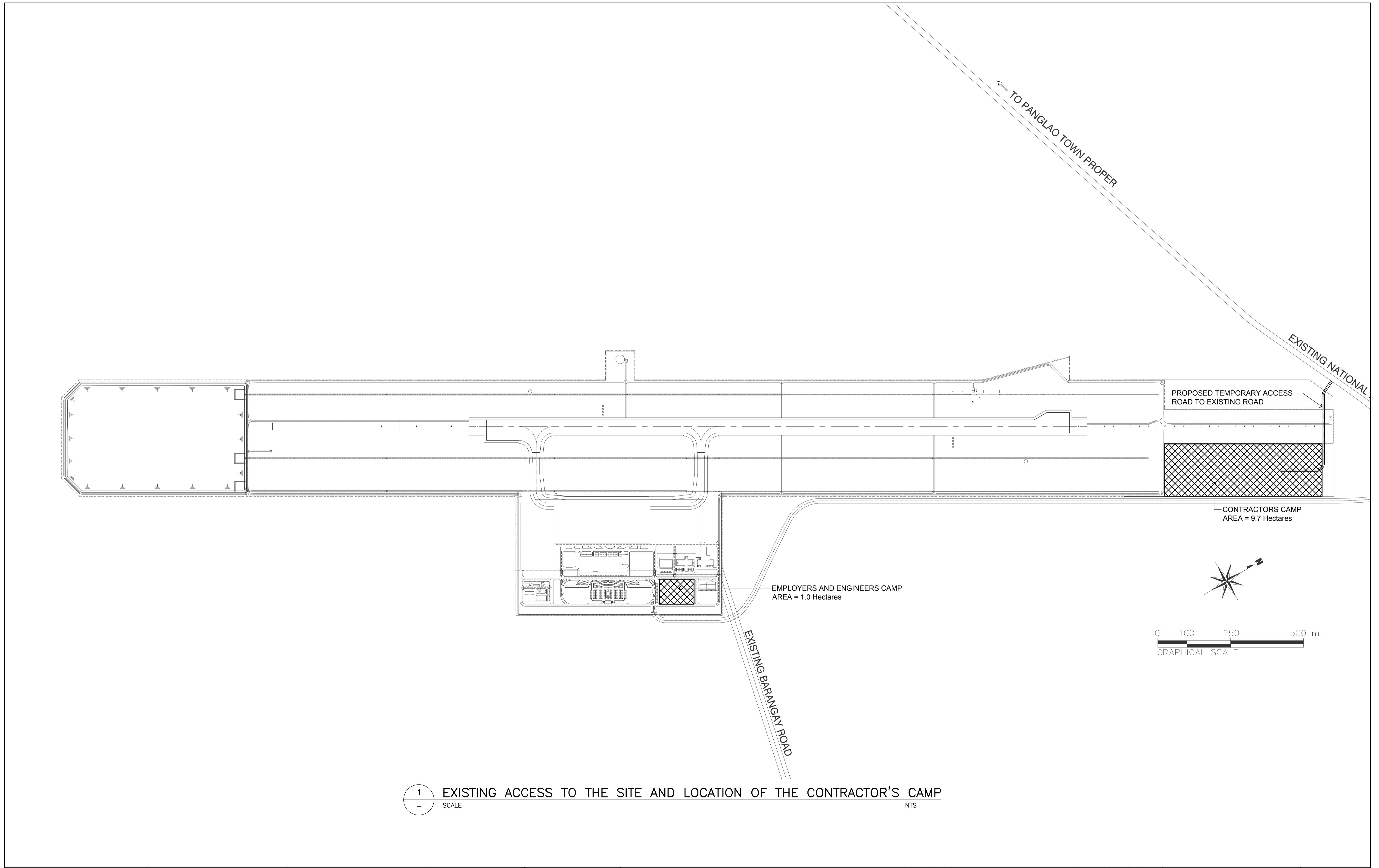


	PREPARED BY: ERACIO T. PATDU <small>PROF: CIVIL ENGINEER PTR: 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT 1: GENERAL REQUIREMENTS BOUNDARY FENCE AND TEMPORARY BARRICADED PASSAGE	SHEET NO: G1-1000-02
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: _____ Validated by: _____	DRAWING SCALE: NON SCALE		



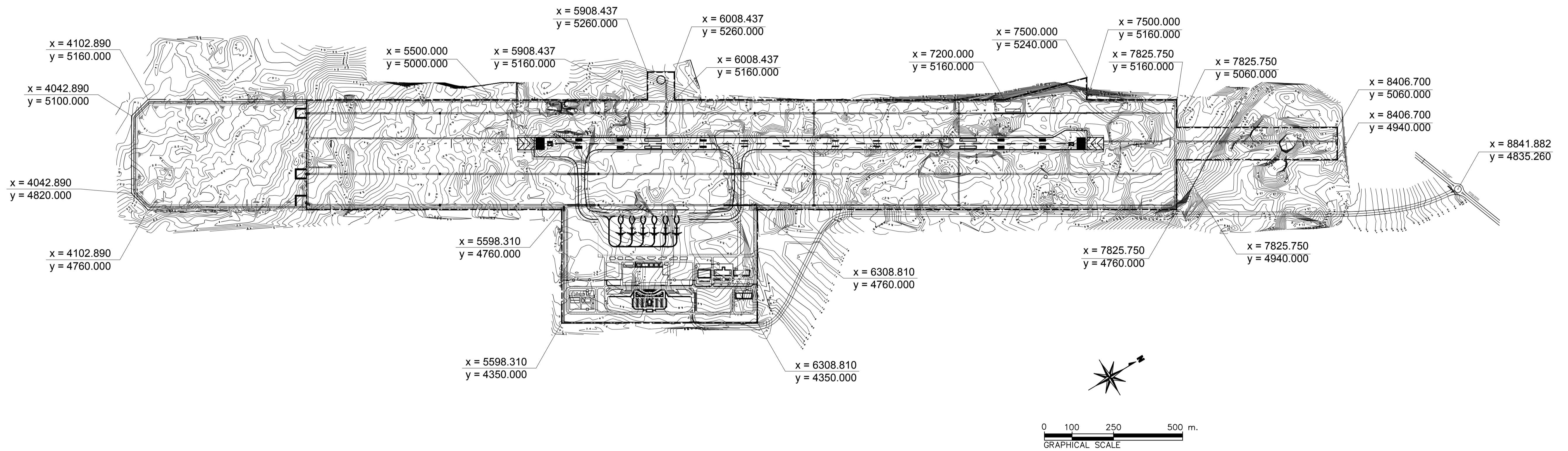
LOCATION OF SOIL INVESTIGATION FOR CAVITY DETECTION

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT 1: GENERAL REQUIREMENTS LOCATION OF SOIL INVESTIGATION FOR CAVITY DETECTION	SHEET NO: G1-1000-03
	JICA DESIGN CONSULTANT JOINT VENTURE <small>JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.</small>	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS Prepared by Checked by Validated by JUNE 2013 WIM HC

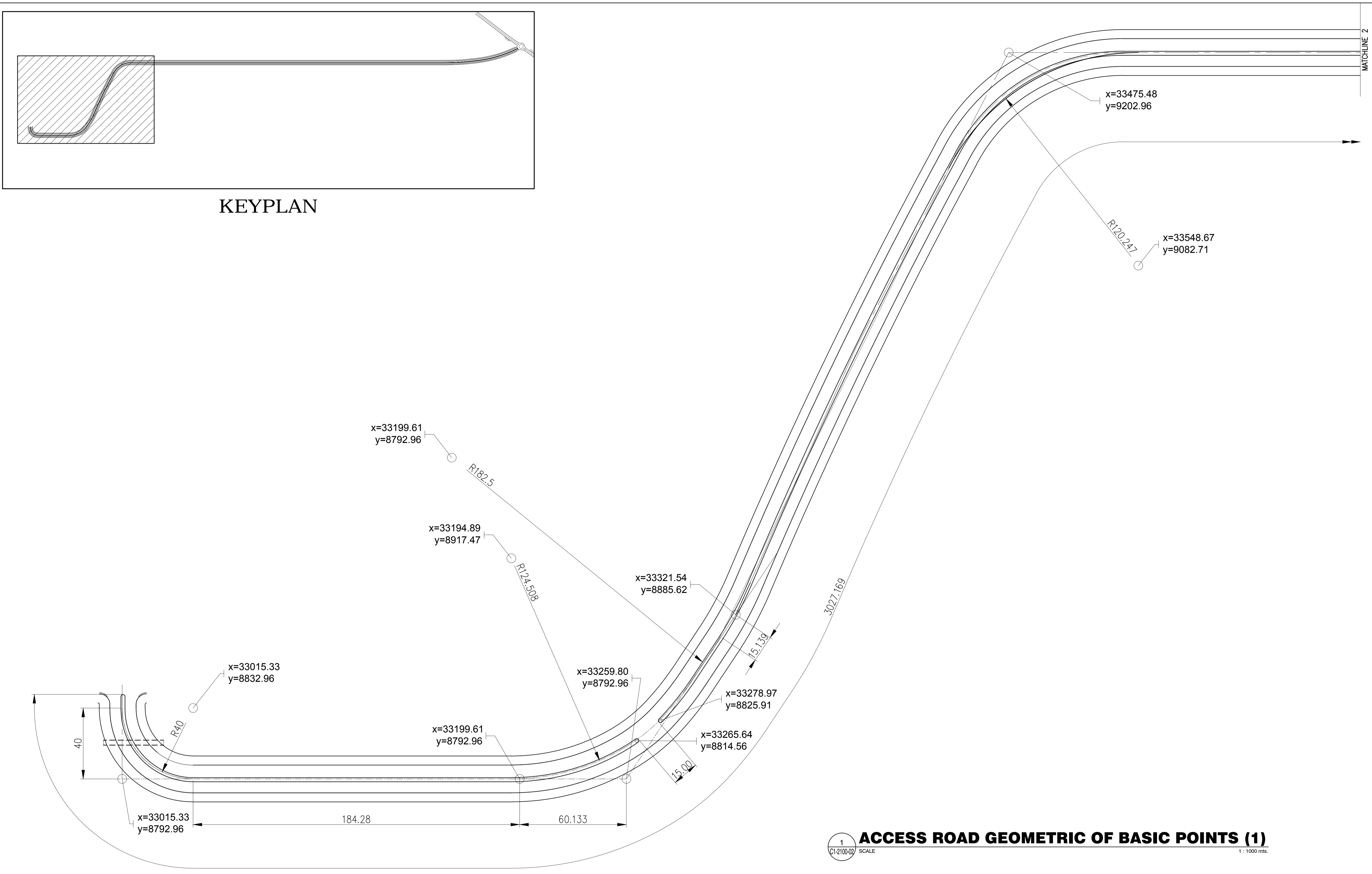


1 EXISTING ACCESS TO THE SITE AND LOCATION OF THE CONTRACTOR'S CAMP
 - SCALE NTS

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:	SHEET CONTENTS: COMPONENT 1: GENERAL REQUIREMENTS EXISTING ACCESS TO THE SITE AND LOCATION OF THE CONTRACTOR'S CAMP	SHEET NO: G1-1000-04 DRAWING SCALE: NOT SCALE
	JICA DESIGN CONSULTANT JOINT VENTURE										



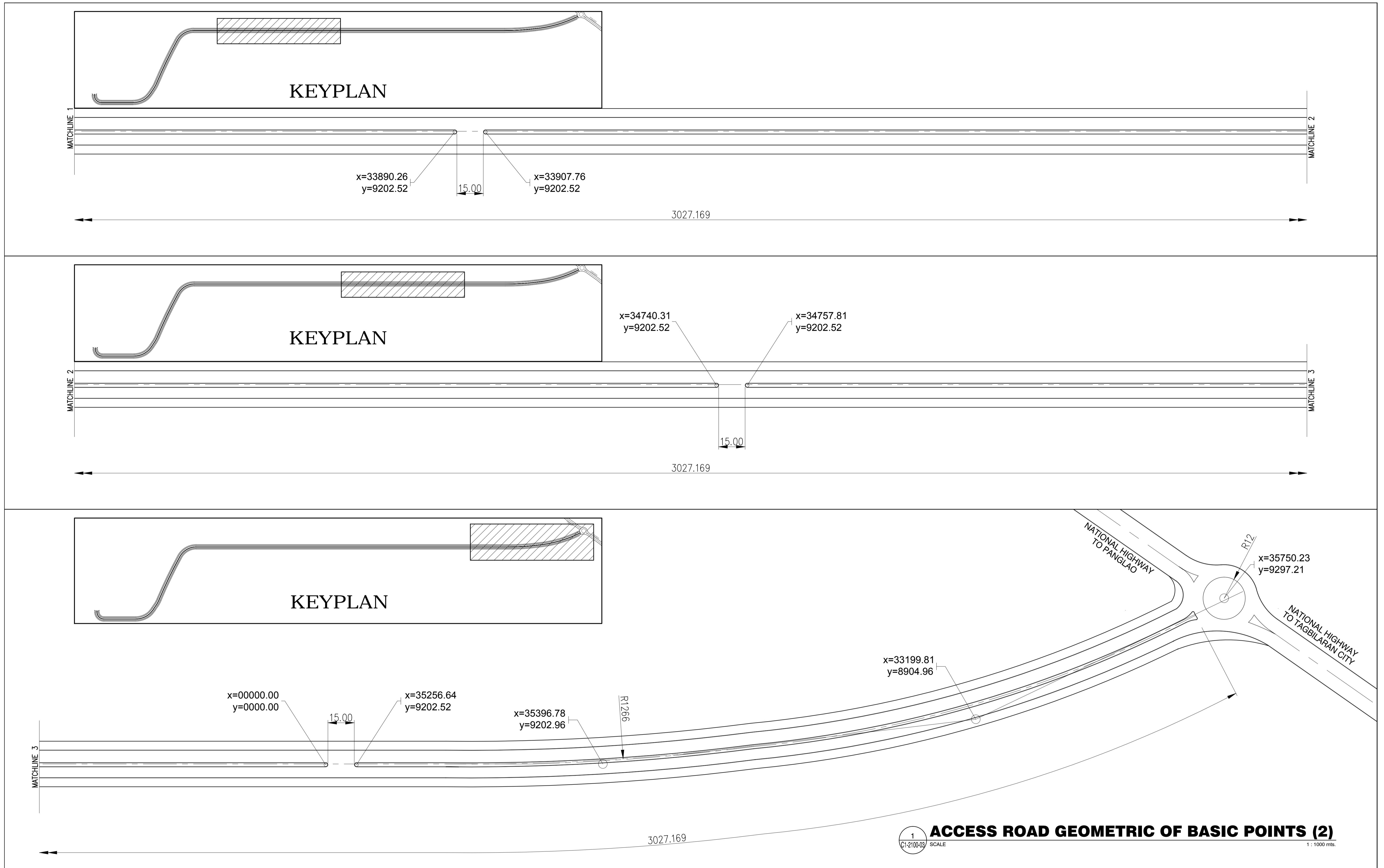
	PREPARED BY: ERACIO T. PATDU <small>PROF: CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 T.JAN. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS SITE TOPOGRAPHIC MAP	SHEET NO: C1-2100-01
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____	Prepared by: _____ Checked by: _____ Validated by: _____	DRAWING SCALE: 1 : 8000 M



KEYPLAN

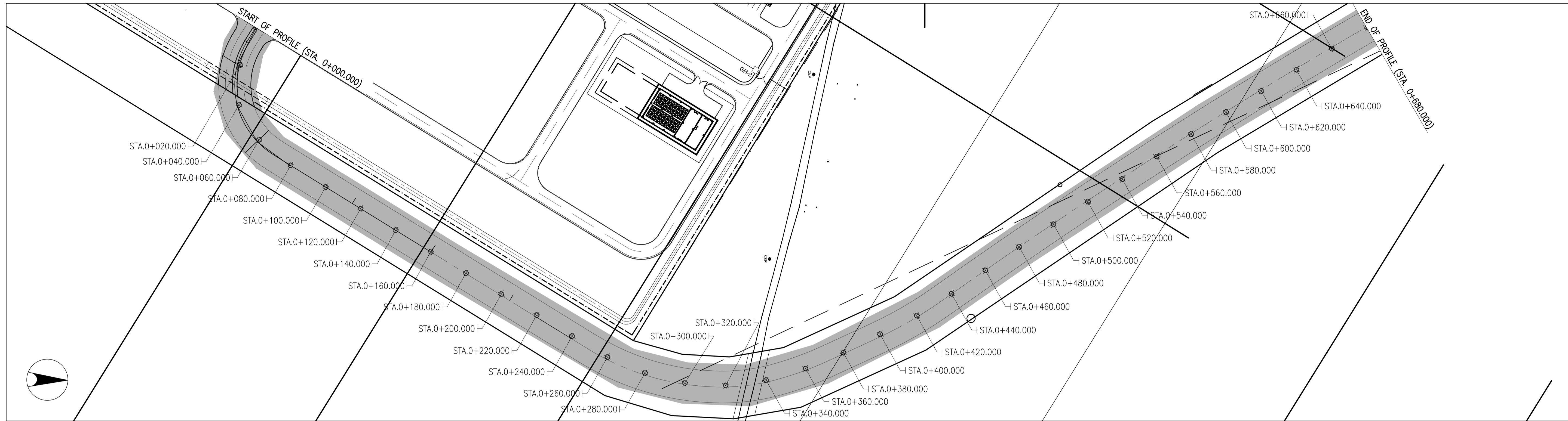
1 ACCESS ROAD GEOMETRIC OF BASIC POINTS (1)
 C1-2100-02 SCALE 1 : 1000 mts.

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO. 34252 DATE: JULY 18, 2013 T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS GEOMETRIC AND BASIC POINTS (1)	SHEET NO: C1-2100-02 DRAWING SCALE: 1 : 1000 M
	JICA DESIGN CONSULTANT JOINT VENTURE 	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: _____ Validated by: _____	WIM HC

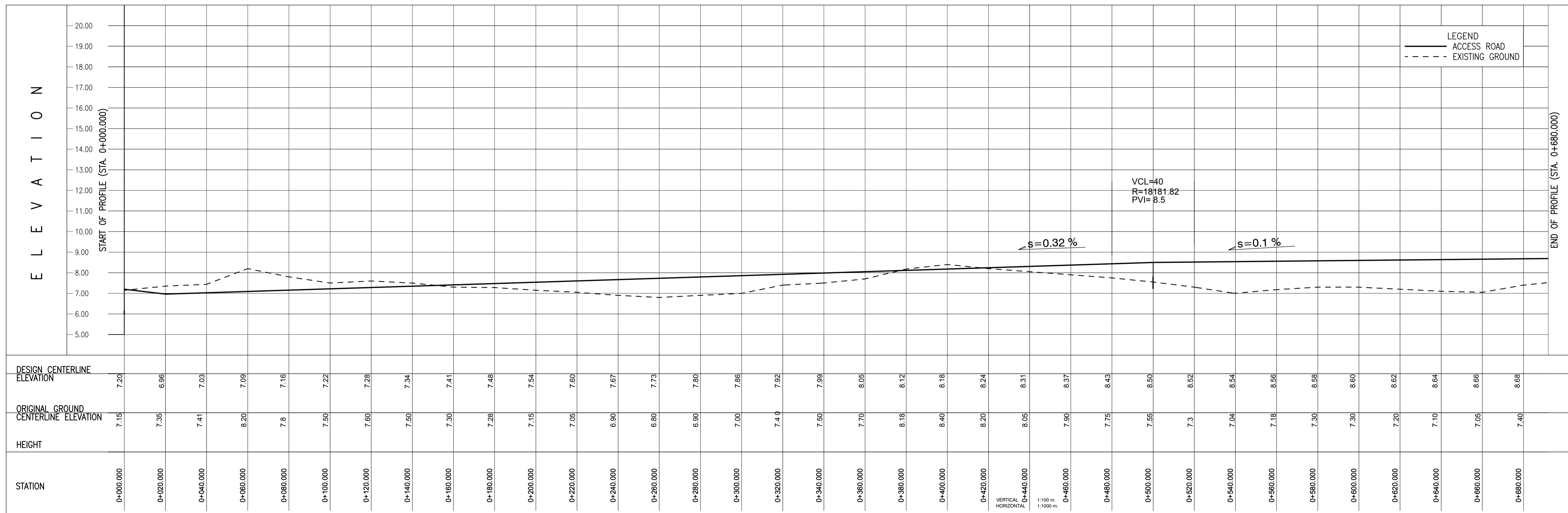


1 **ACCESS ROAD GEOMETRIC OF BASIC POINTS (2)**
 C1-2100-03 SCALE 1 : 1000 mts.

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS GEOMETRIC AND BASIC POINTS (2)	SHEET NO: C1-2100-03
	JICA DESIGN CONSULTANT JOINT VENTURE 	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



1 ACCESS ROAD PLAN & PROFILE Sta. 0+000.000 ~ Sta. 0+680.000
 1/2100/04 SCALE



PREPARED BY:
ERACIO T. PATDU
 CIVIL ENGINEER
 REG. NO.: 34252
 TEL: 199-699-561

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
 Assistant Secretary
 for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
 Undersecretary
 for Project Implementation, DOTC

PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

SHEET CONTENTS:
 COMPONENT-2 CIVIL WORKS (C)
 SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
 ACCESS ROAD PLAN AND PROFILE (1)

SHEET NO:
C1-2100-04

DRAWING SCALE:
 AS SHOWN

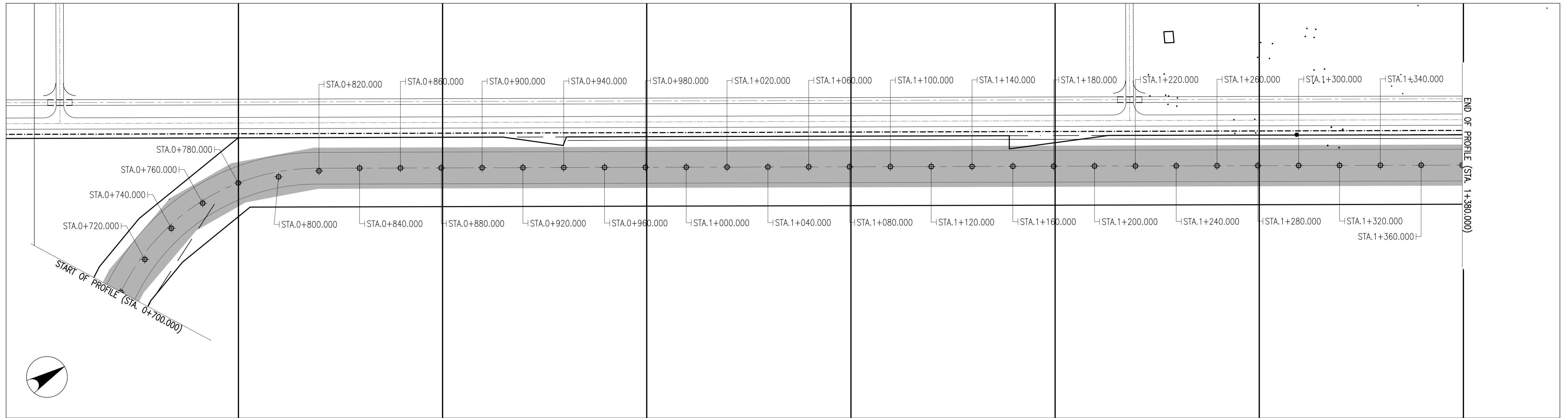


TADASHI AOI
 Team Leader

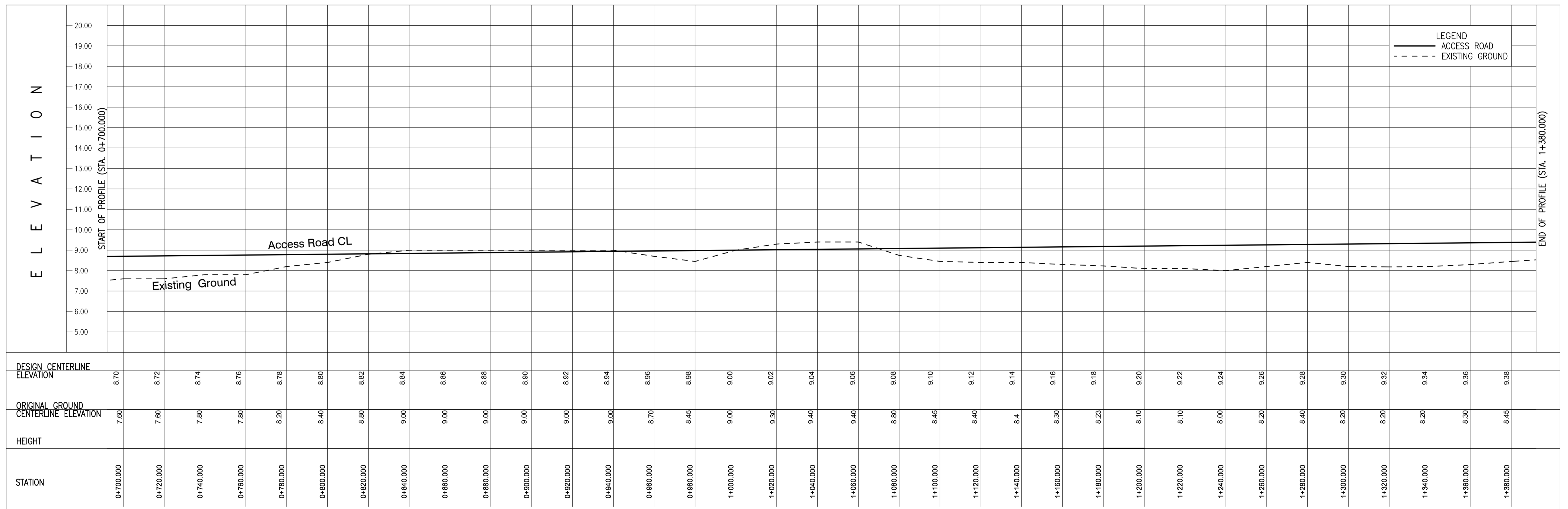
JUNE 2013

DATE INDEX AMENDMENTS

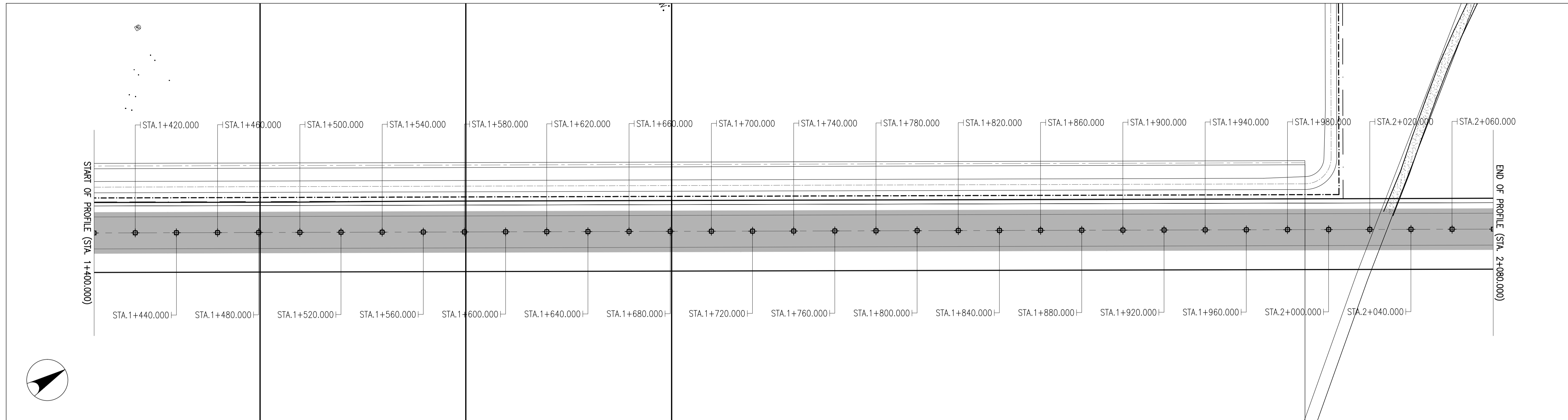
Prepared by: WIM
 Checked by: HC
 Validated by:



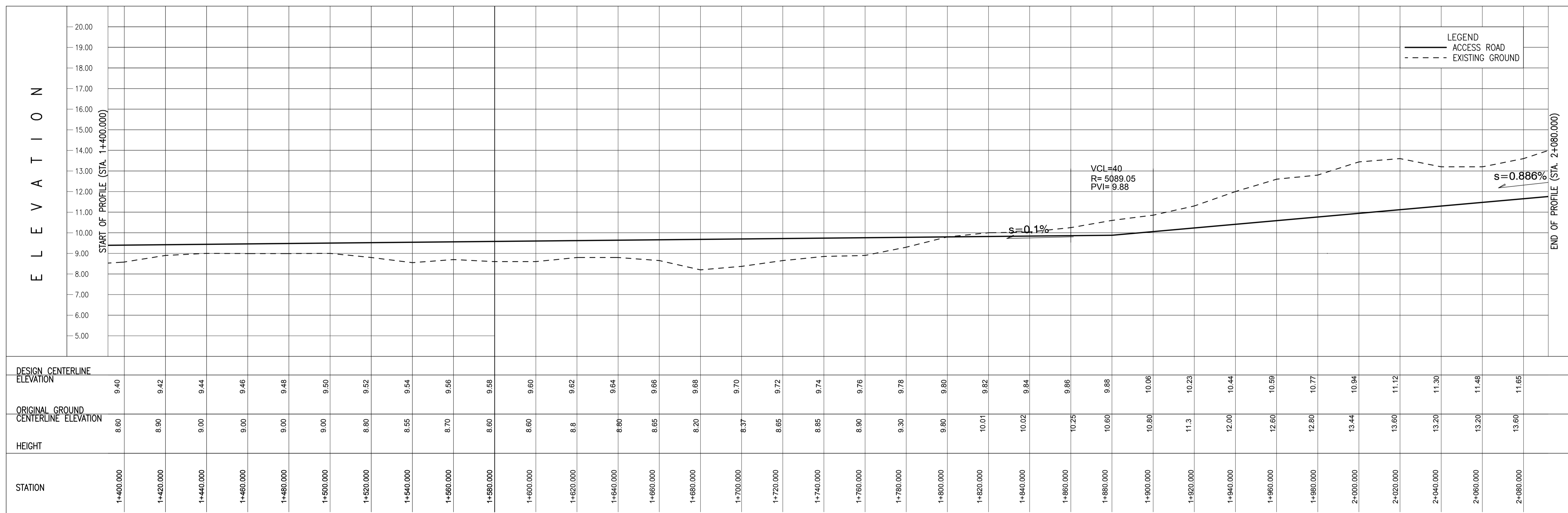
1 ACCESS ROAD PLAN & PROFILE Sta. 0+700.000 ~Sta. 1+380.000
 SCALE: VERTICAL 1:100 m, HORIZONTAL 1:1000 m



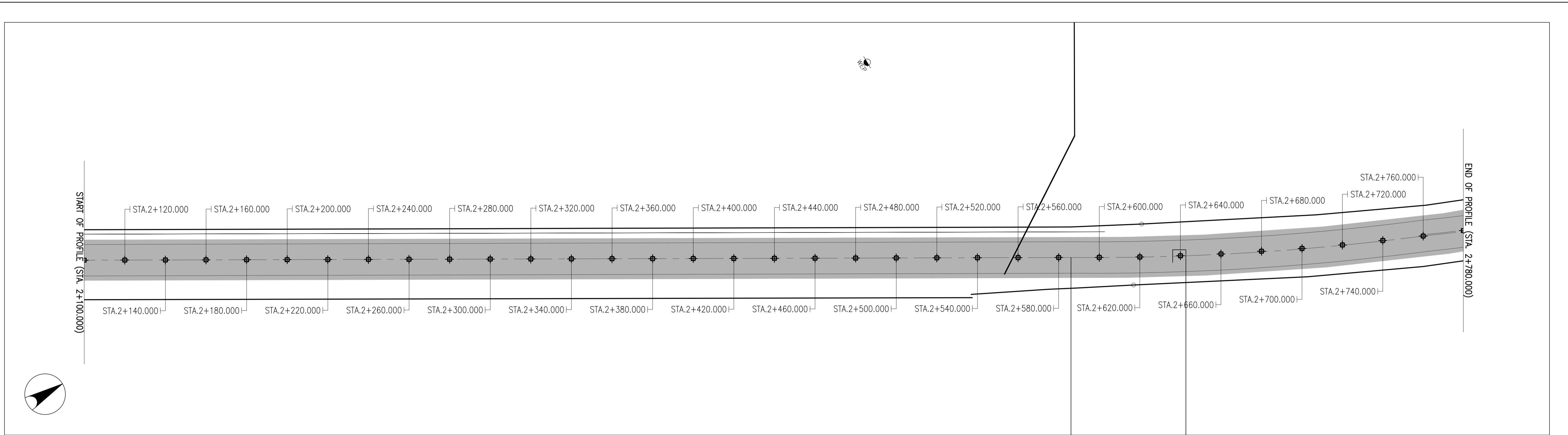
	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO. 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD PLAN AND PROFILE (2)	SHEET NO: C1-2100-05
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JUNE 2013	DATE INDEX AMENDMENTS	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN	



1 ACCESS ROAD PLAN & PROFILE Sta. 1+400.000 ~ Sta. 2+080.000
 SCALE: VERTICAL 1:100 m, HORIZONTAL 1:1000 m

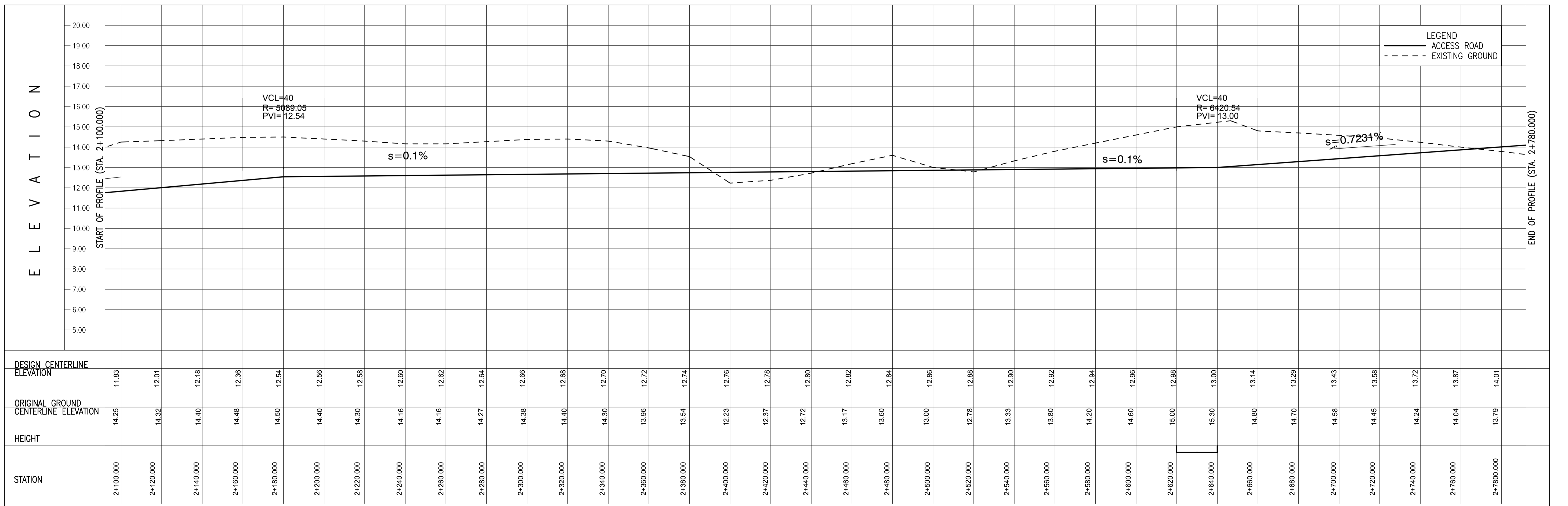


	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD PLAN AND PROFILE (3)	SHEET NO: C1-2100-06
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS Prepared by: WIM Checked by: HC Validated by:

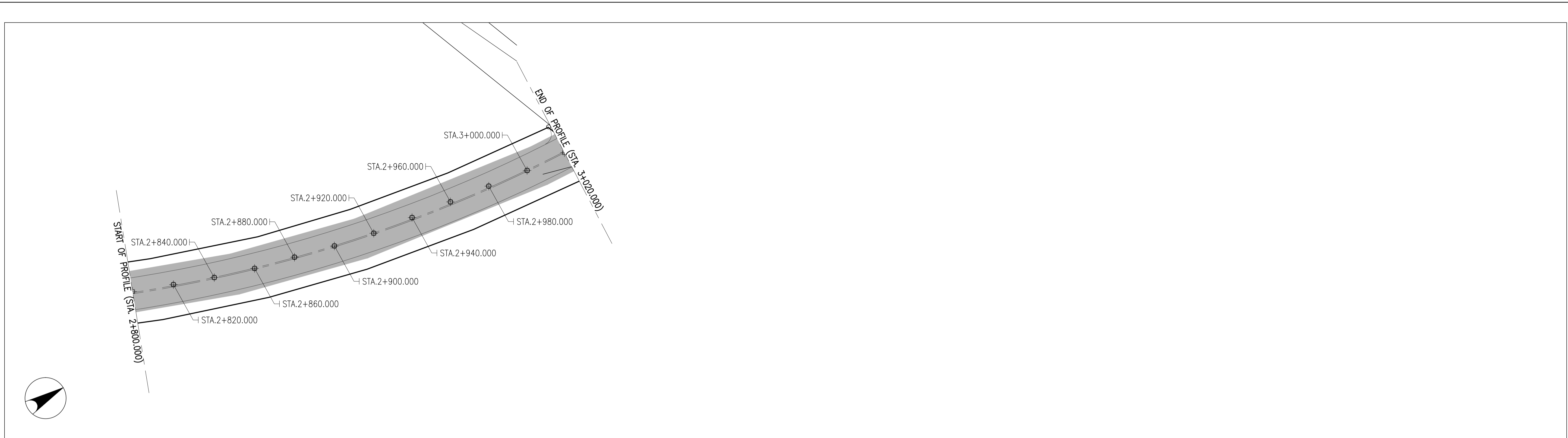


ACCESS ROAD PLAN & PROFILE Sta. 2+100.000 ~Sta. 2+780.000

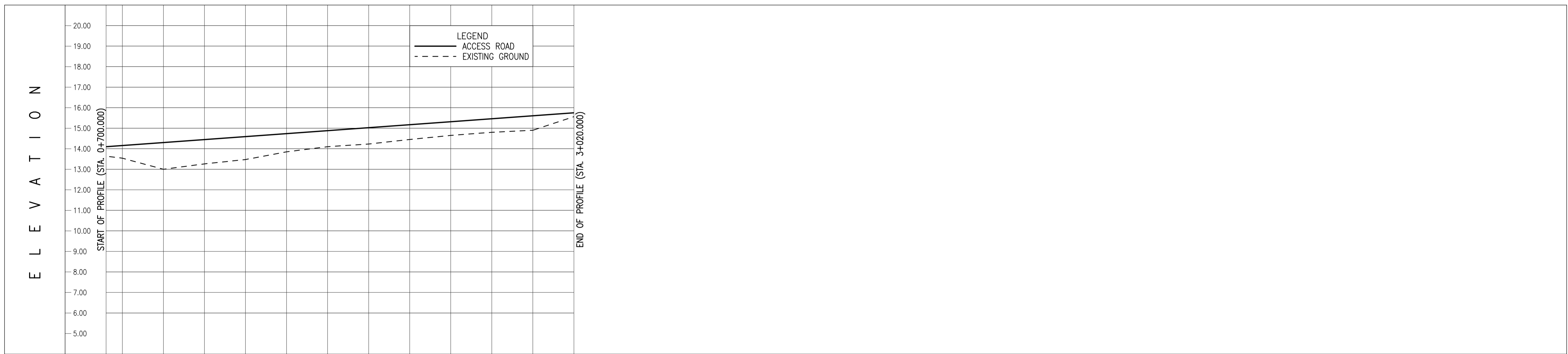
SCALE: VERTICAL 1:1000 m. HORIZONTAL 1:10000 m.



	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241</small> <small>RES. NO.: 34252 DATE: JULY 18, 2013</small> <small>T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD PLAN AND PROFILE (4)	SHEET NO: C1-2100-07
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:

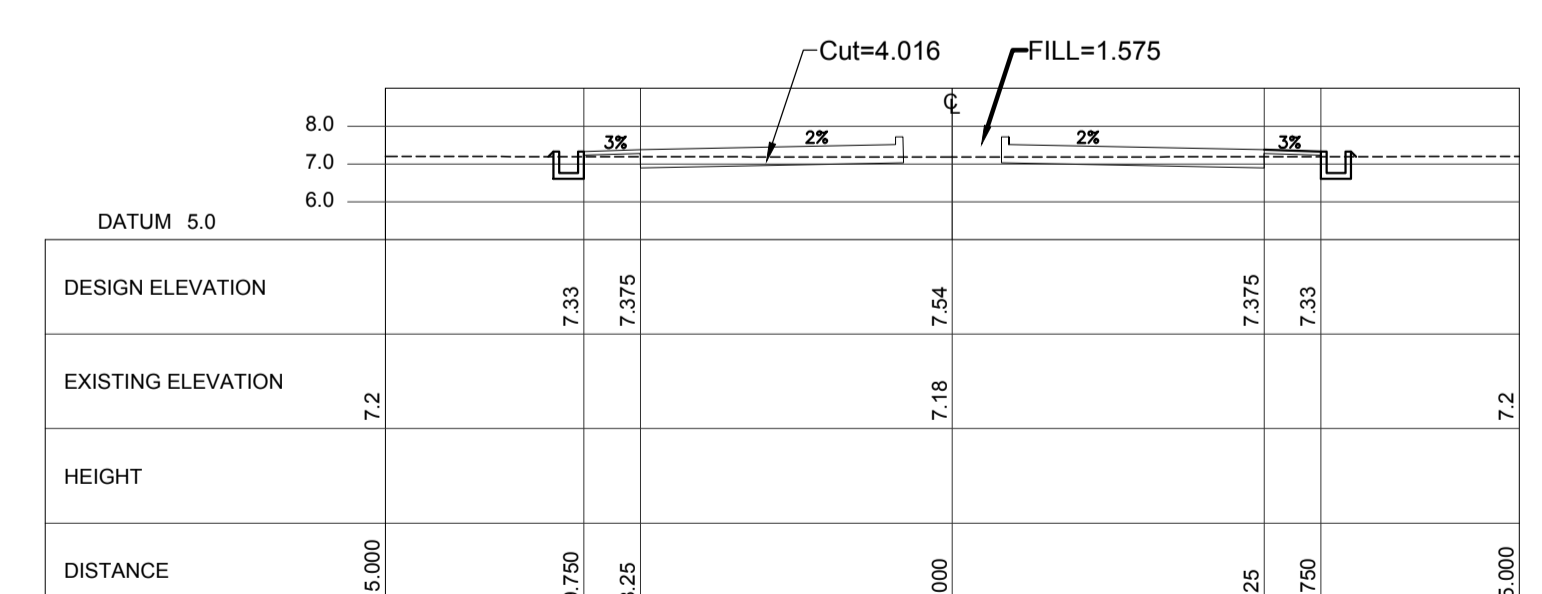
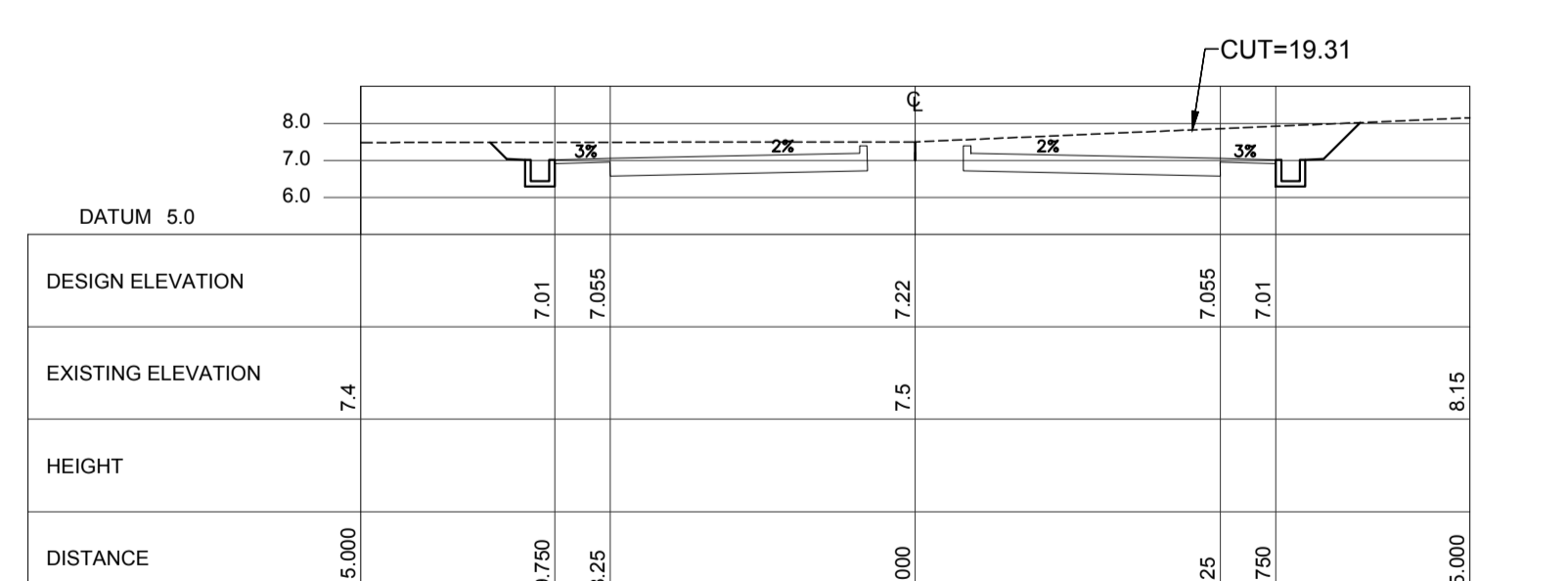
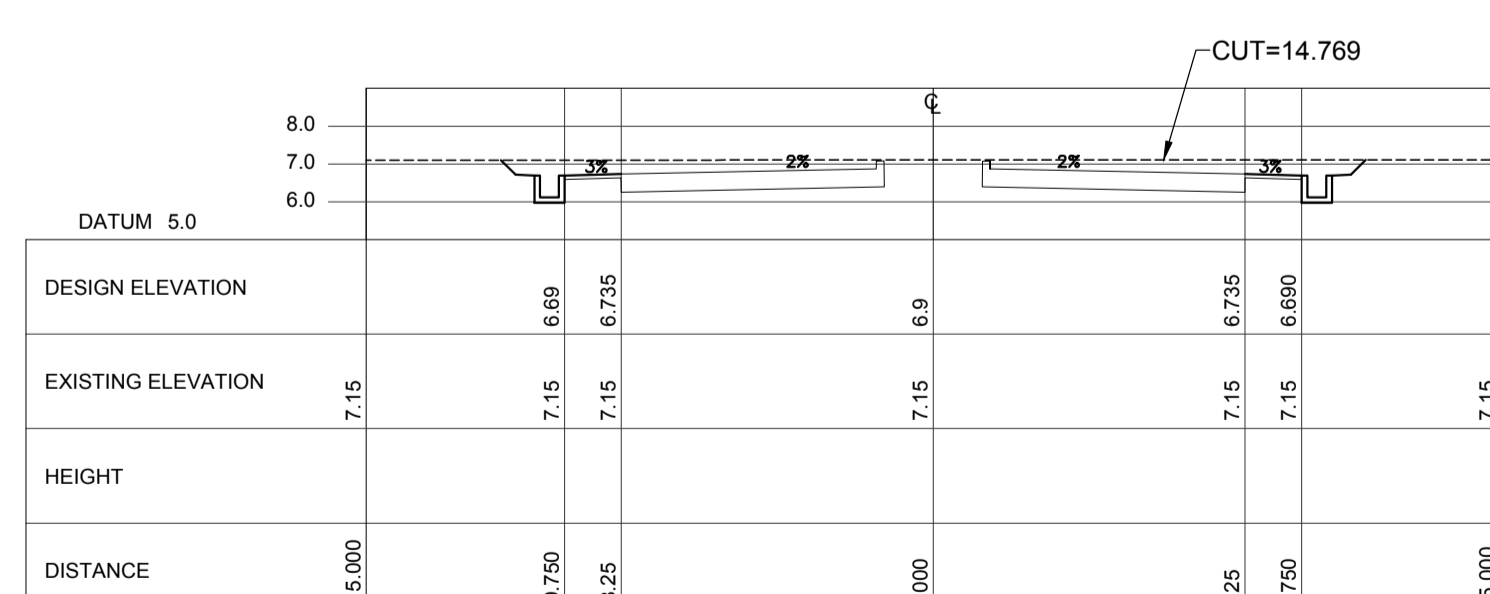
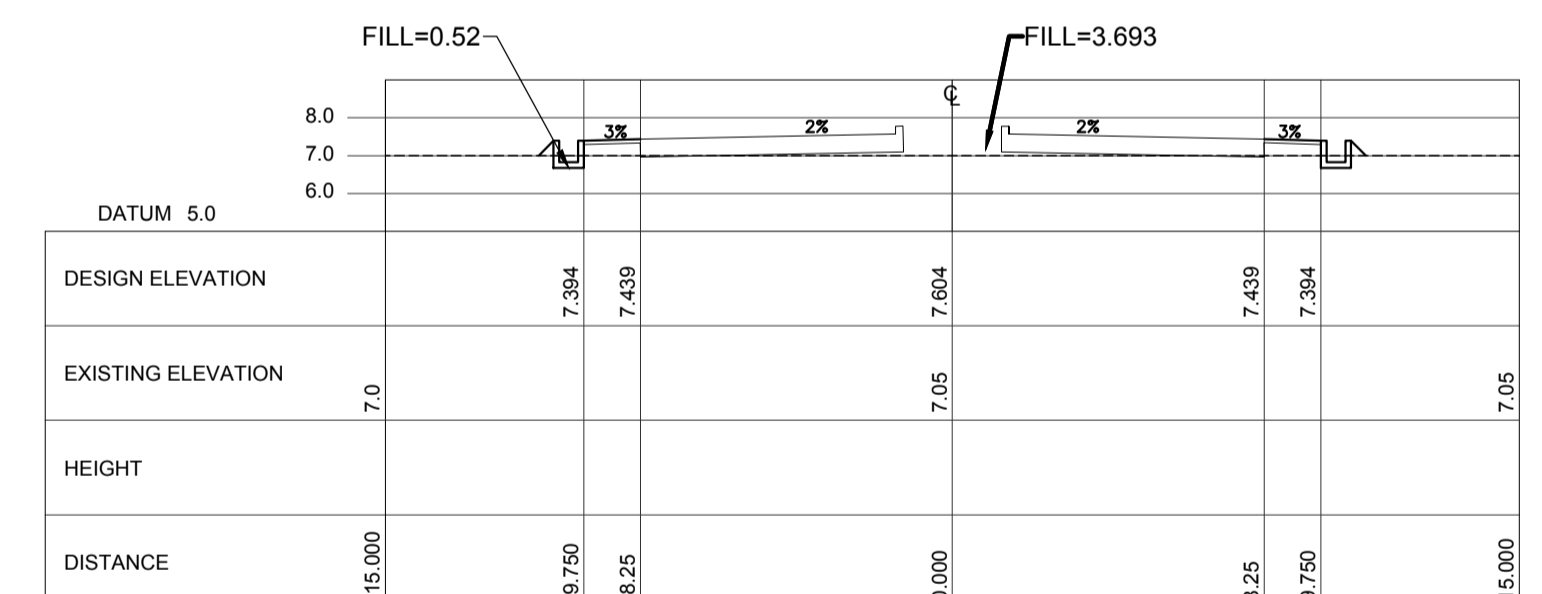
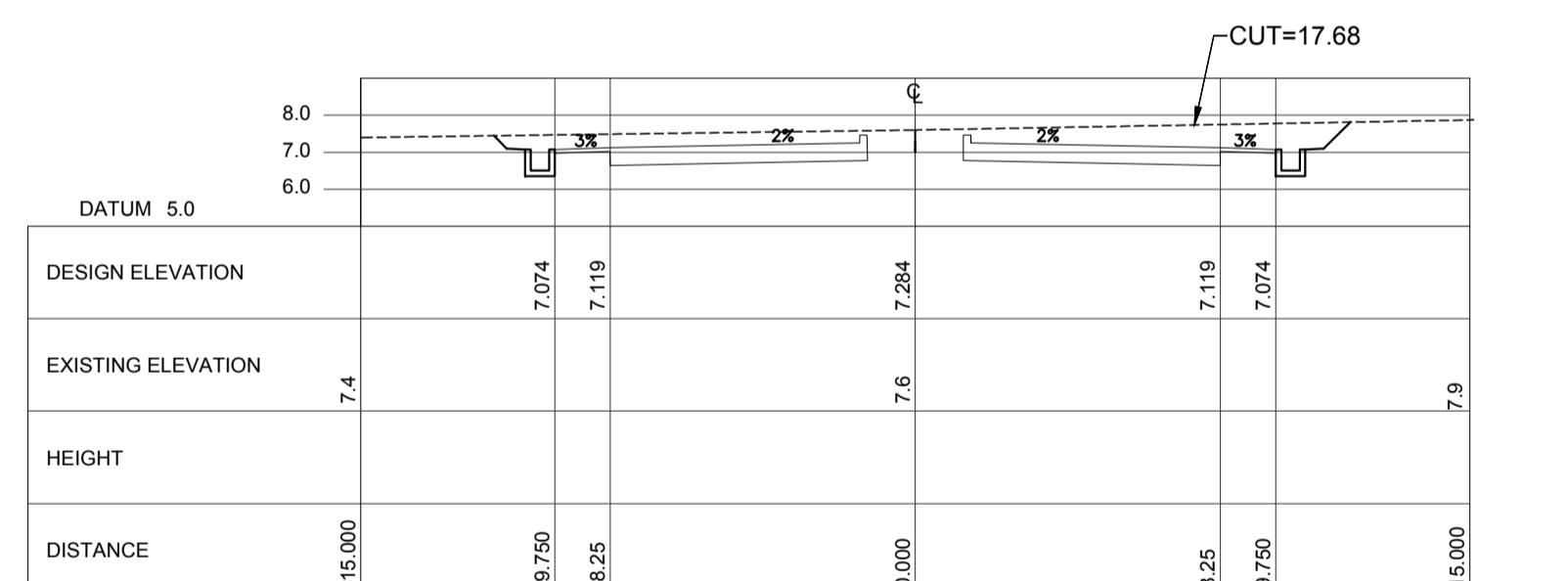
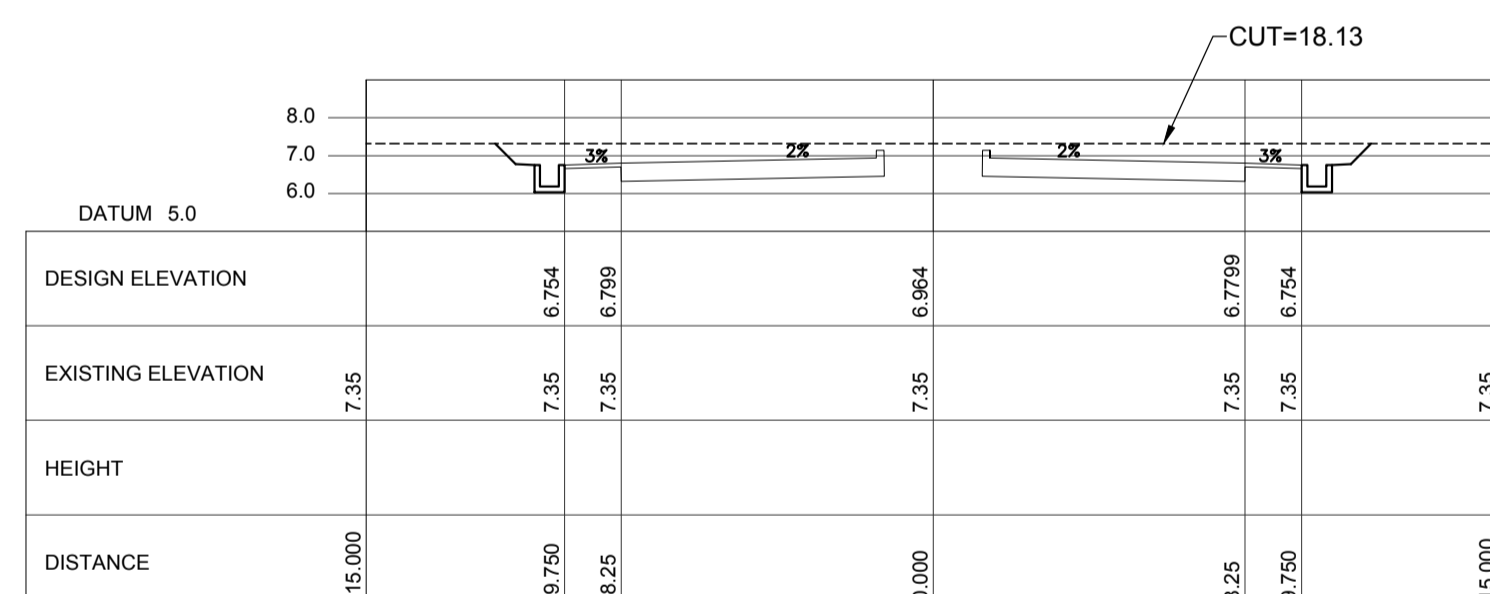
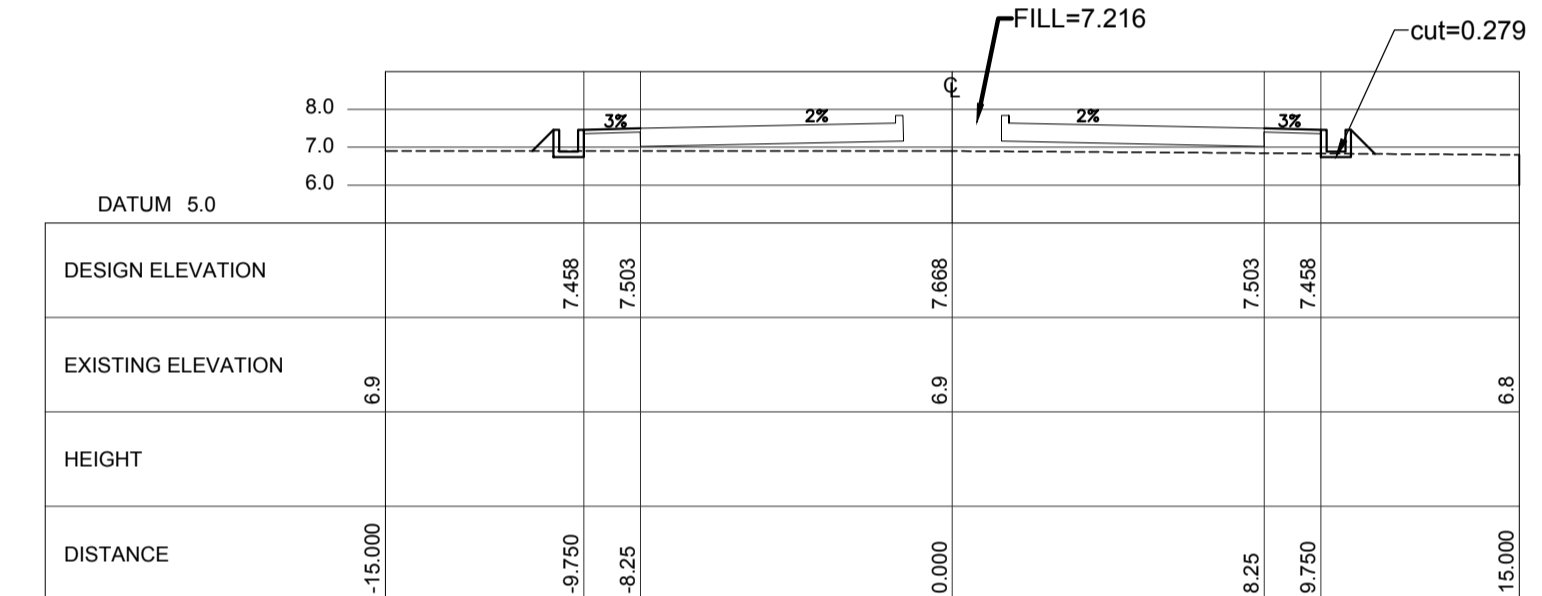
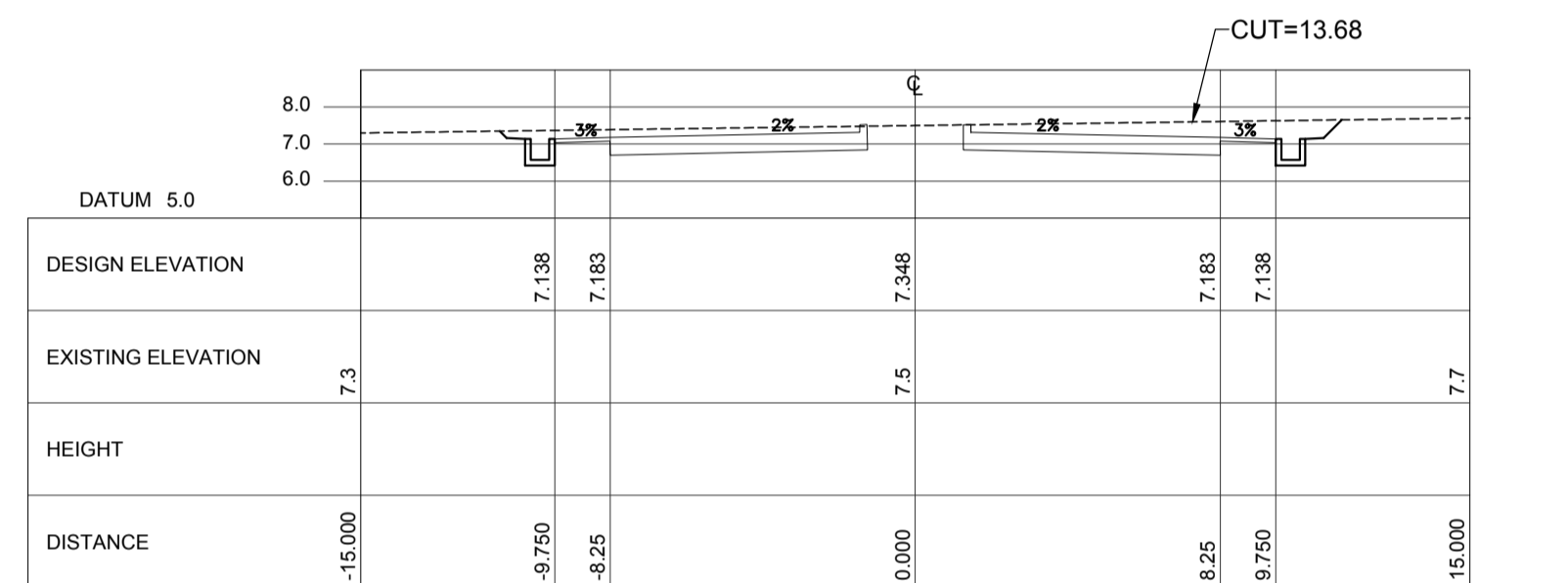
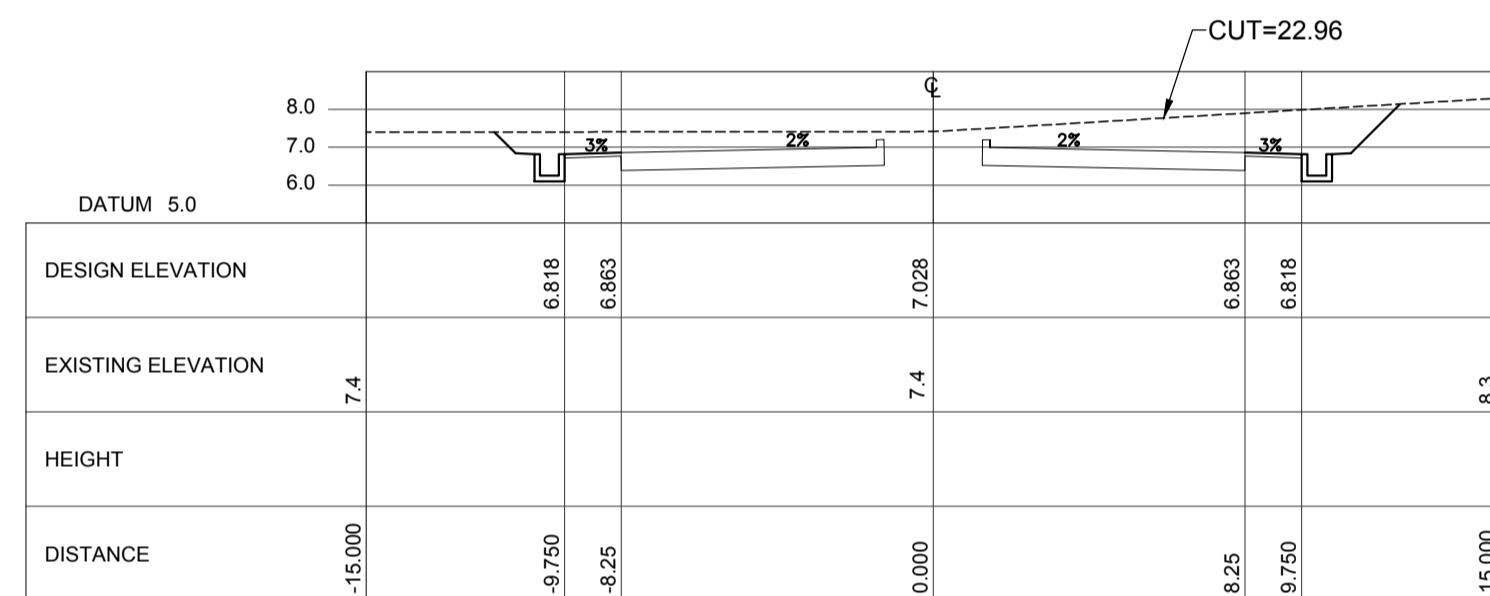
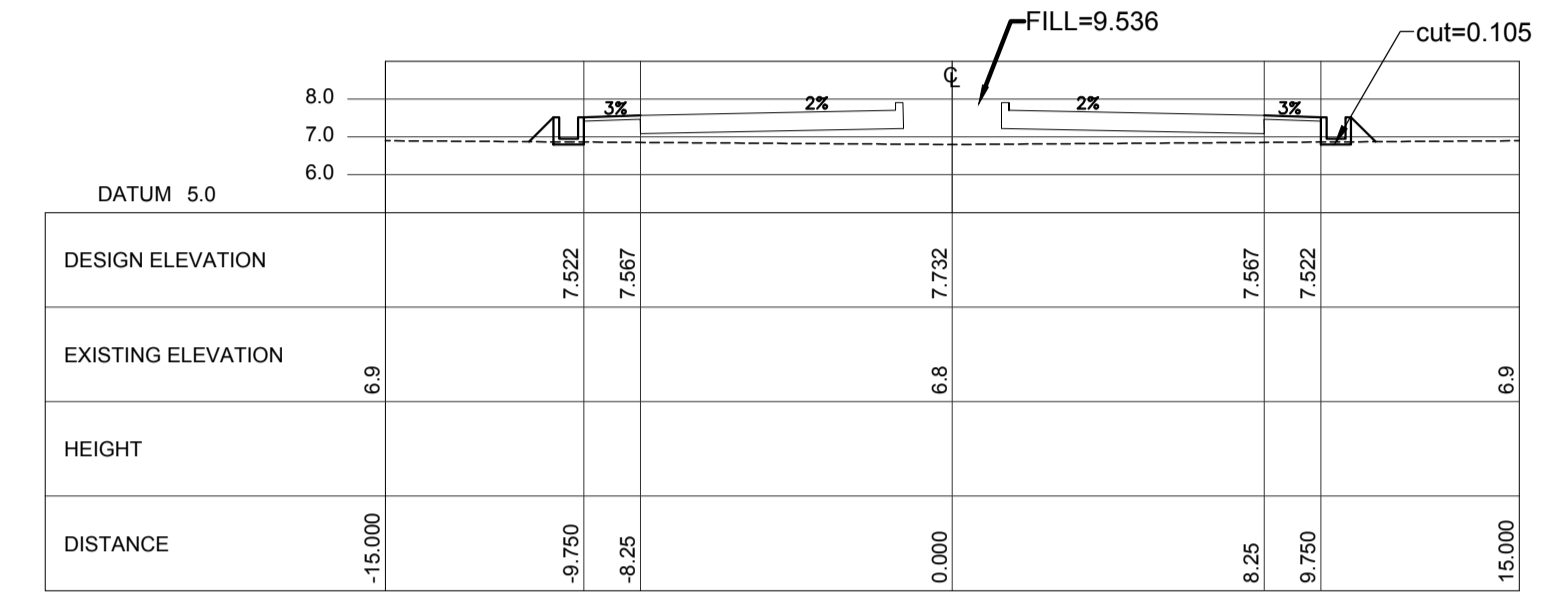
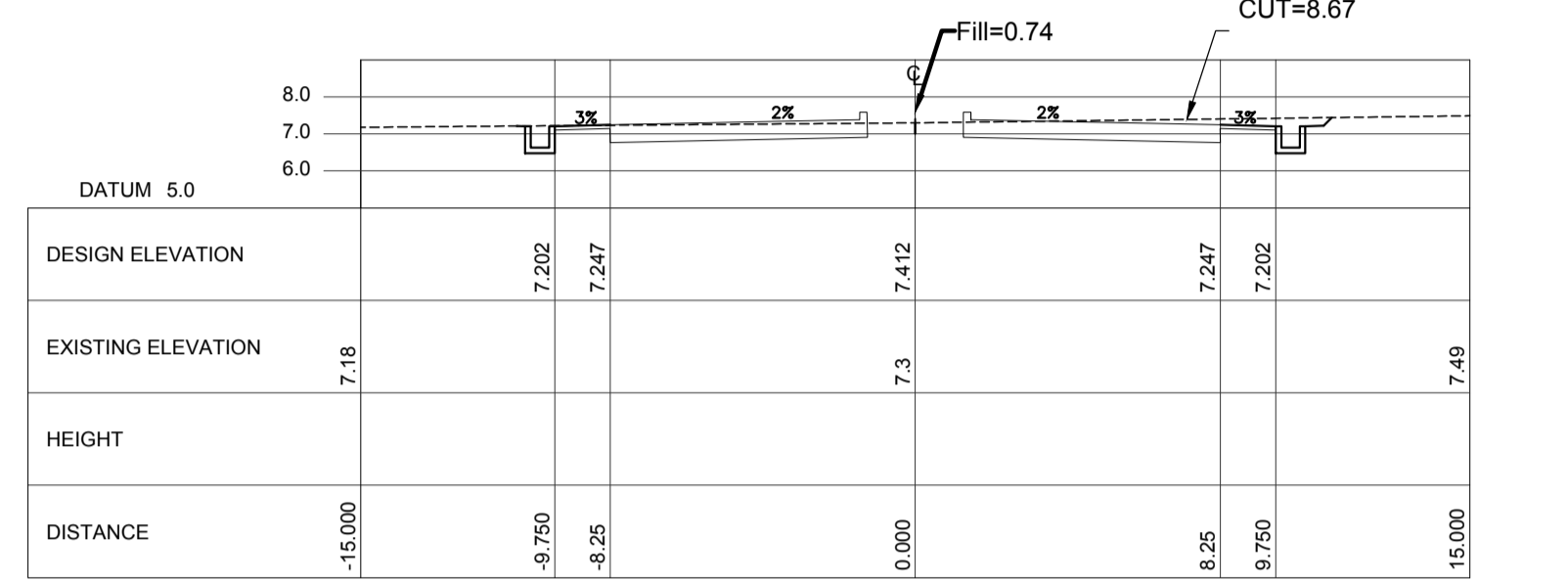
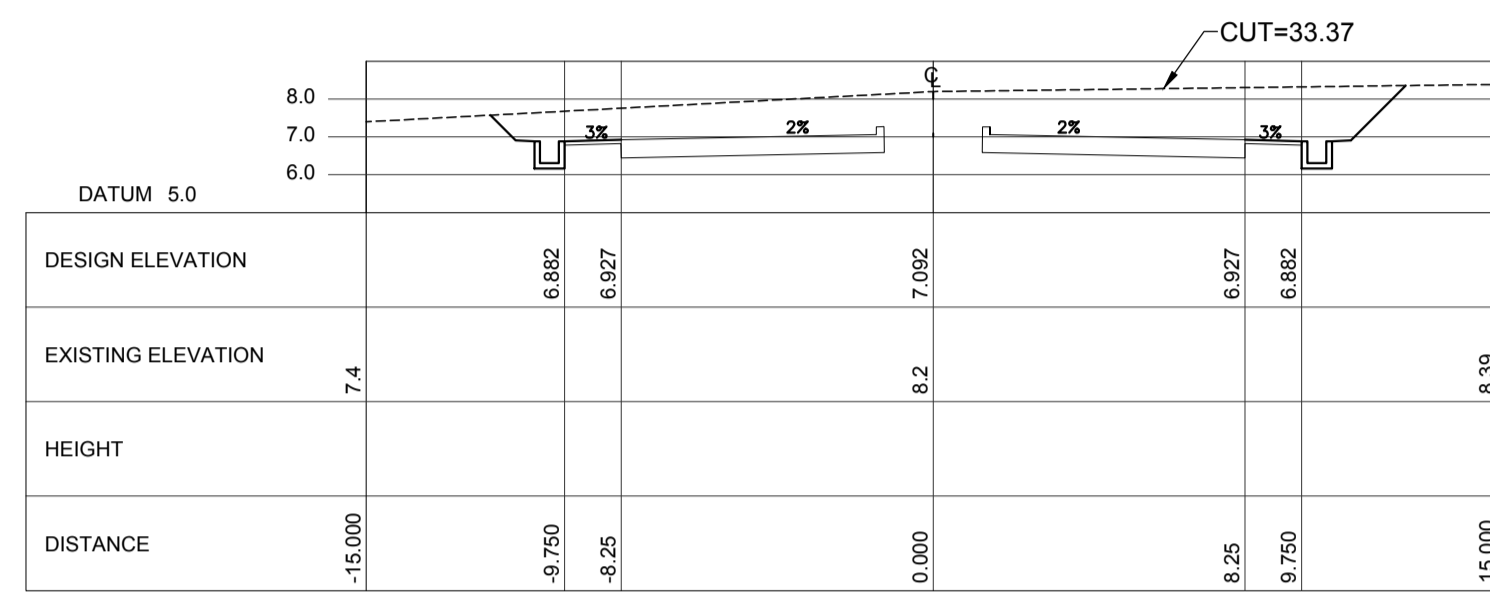
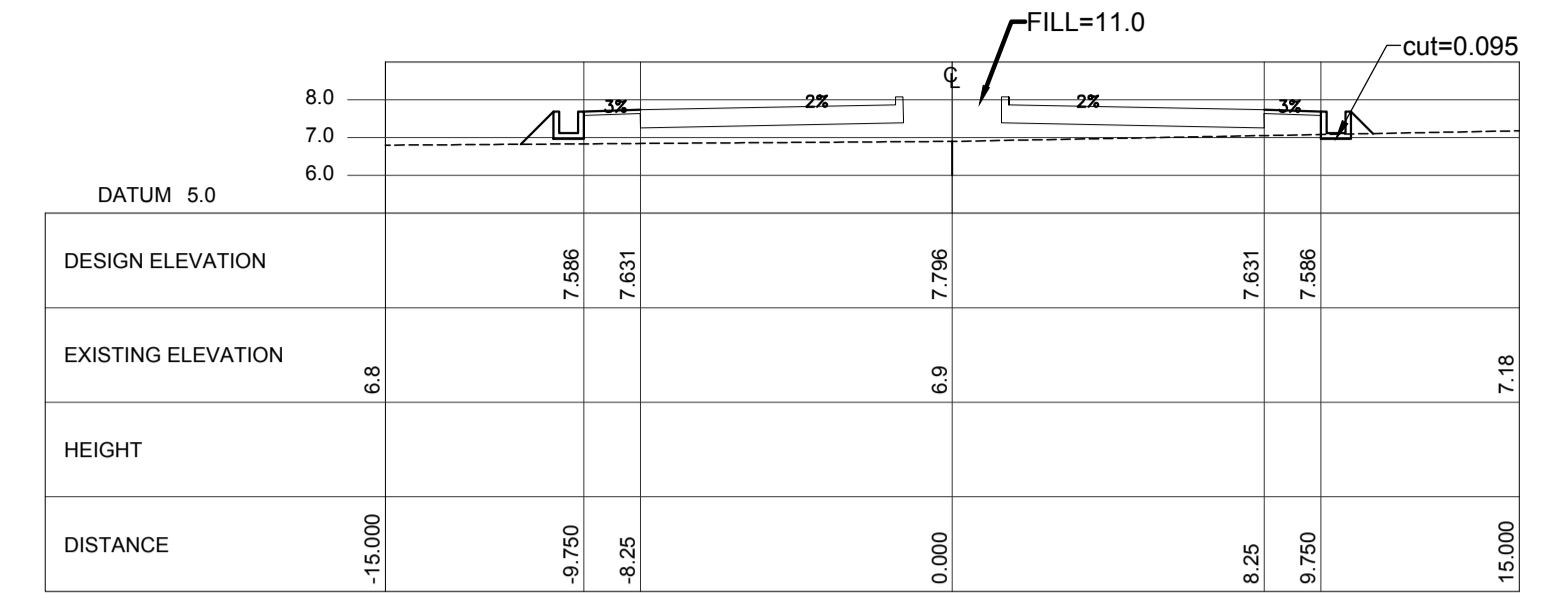
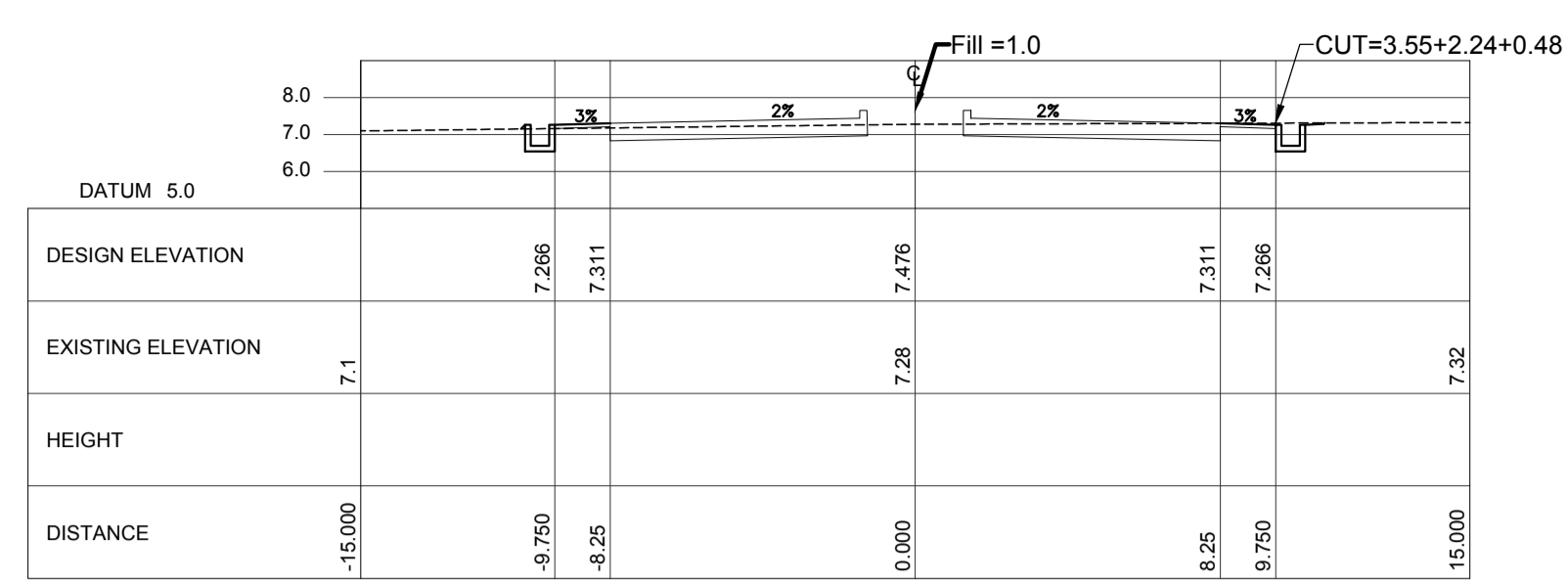
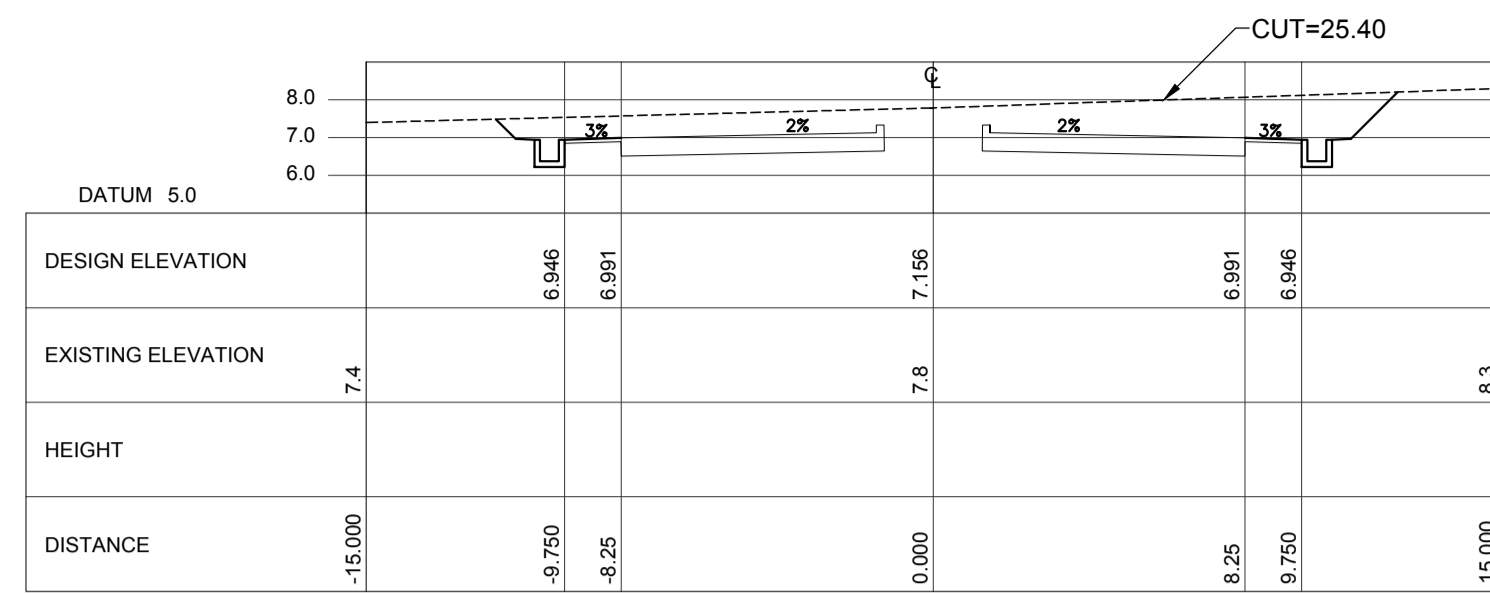


1 ACCESS ROAD PLAN & PROFILE Sta. 2+800.000 ~ Sta. 3+020.000
 VERTICAL SCALE 1:100 m.
 HORIZONTAL SCALE 1:1000 m.



STATION	2+800.000	2+820.000	2+840.000	2+860.000	2+880.000	2+900.000	2+920.000	2+940.000	2+960.000	2+980.000	3+000.000	3+020.000
DESIGN CENTERLINE ELEVATION	14.16	14.30	14.45	14.59	14.74	14.89	15.02	15.17	15.31	15.46	15.60	15.75
ORIGINAL GROUND CENTERLINE ELEVATION	13.54	13.00	13.26	13.47	13.85	14.10	14.23	14.45	14.65	14.80	14.90	14.90
HEIGHT												

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD PLAN AND PROFILE (5)	SHEET NO: C1-2100-08
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI Team Leader	JILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS Prepared by: WIM Checked by: HC Validated by:



ACCESS ROAD CROSS SECTION Sta. 0+000 ~Sta. 0+280

1
C1-2100-09

VERTICAL SCALE 1:5000 m.
HORIZONTAL SCALE 1:5000 m.

LEGEND:



PREPARED BY:
ERACIO T. PATDU
PROF. CIVIL ENGINEER PIR. 3158241
REG. NO.: 34252 DATE: JULY 18, 2013
TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY

TADASHI AOI
Team Leader

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
Assistant Secretary
for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
Undersecretary
for Project Implementation, DOTC

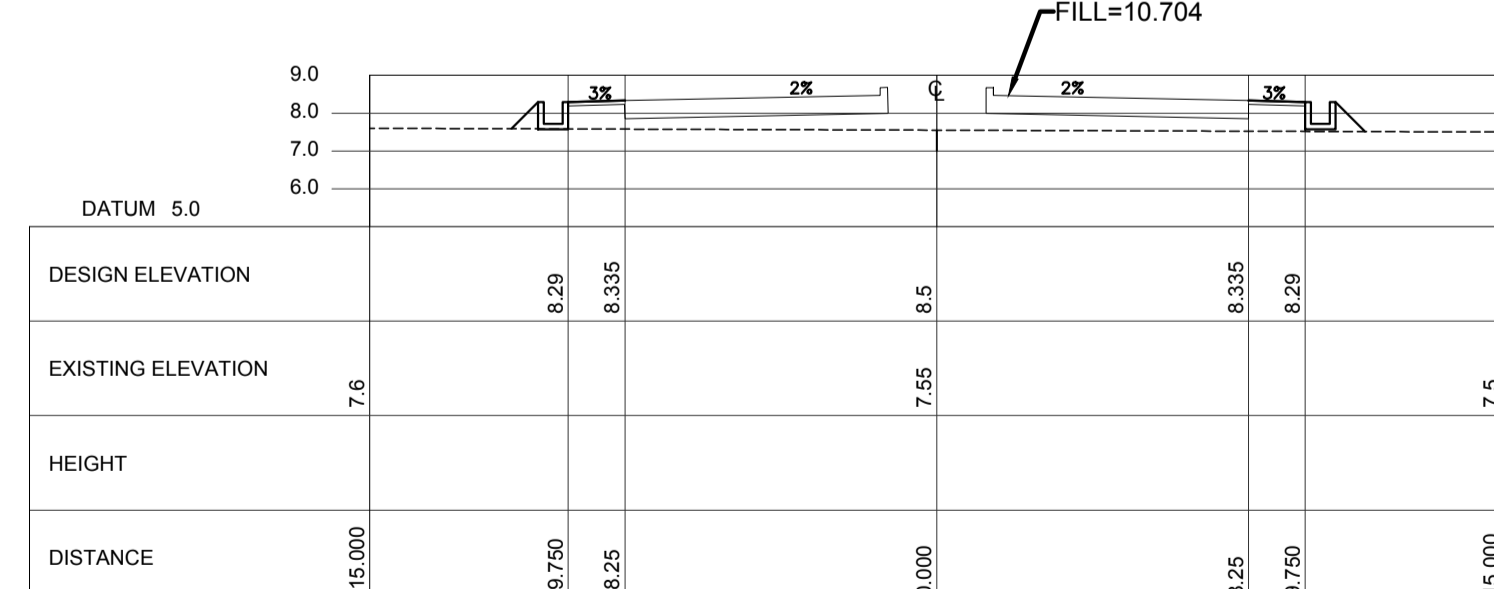
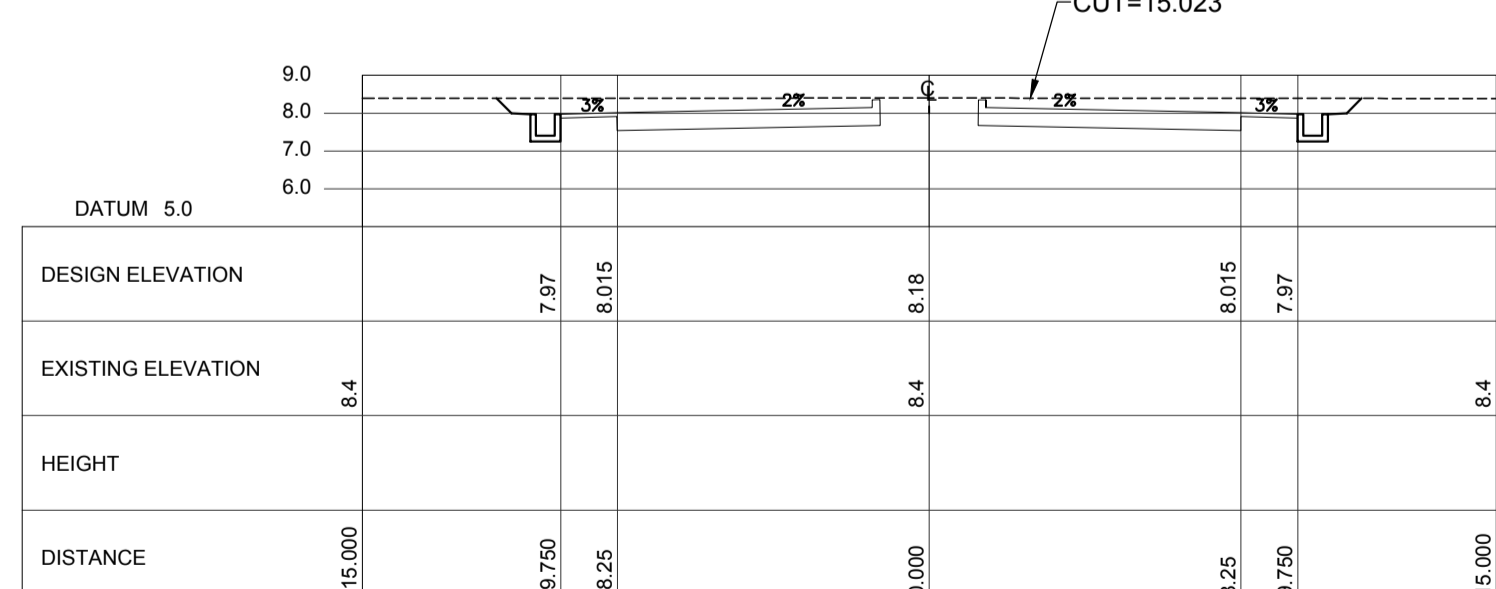
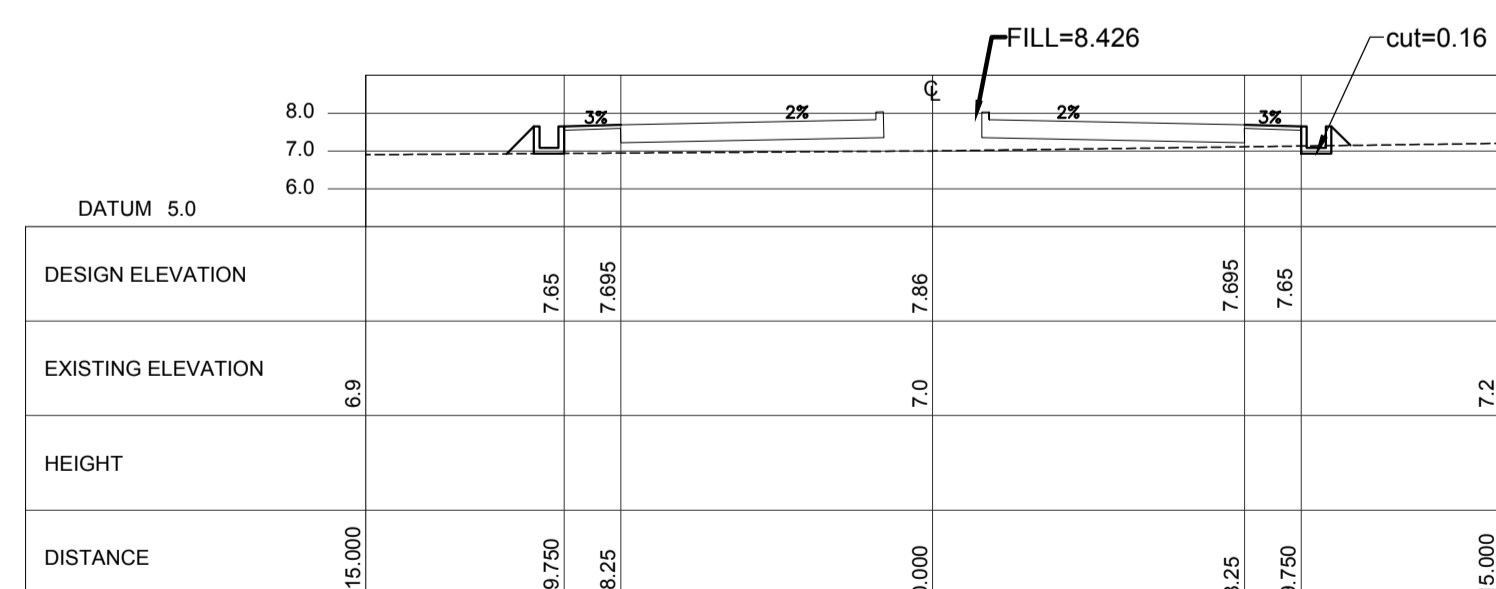
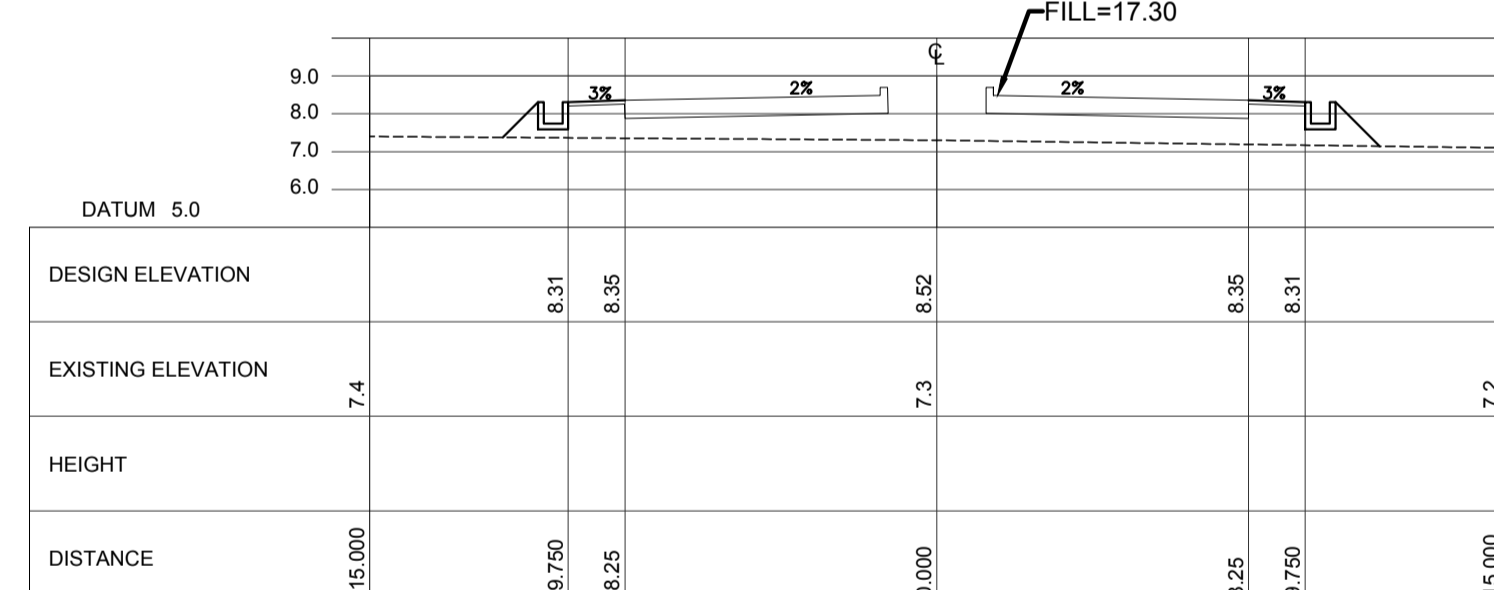
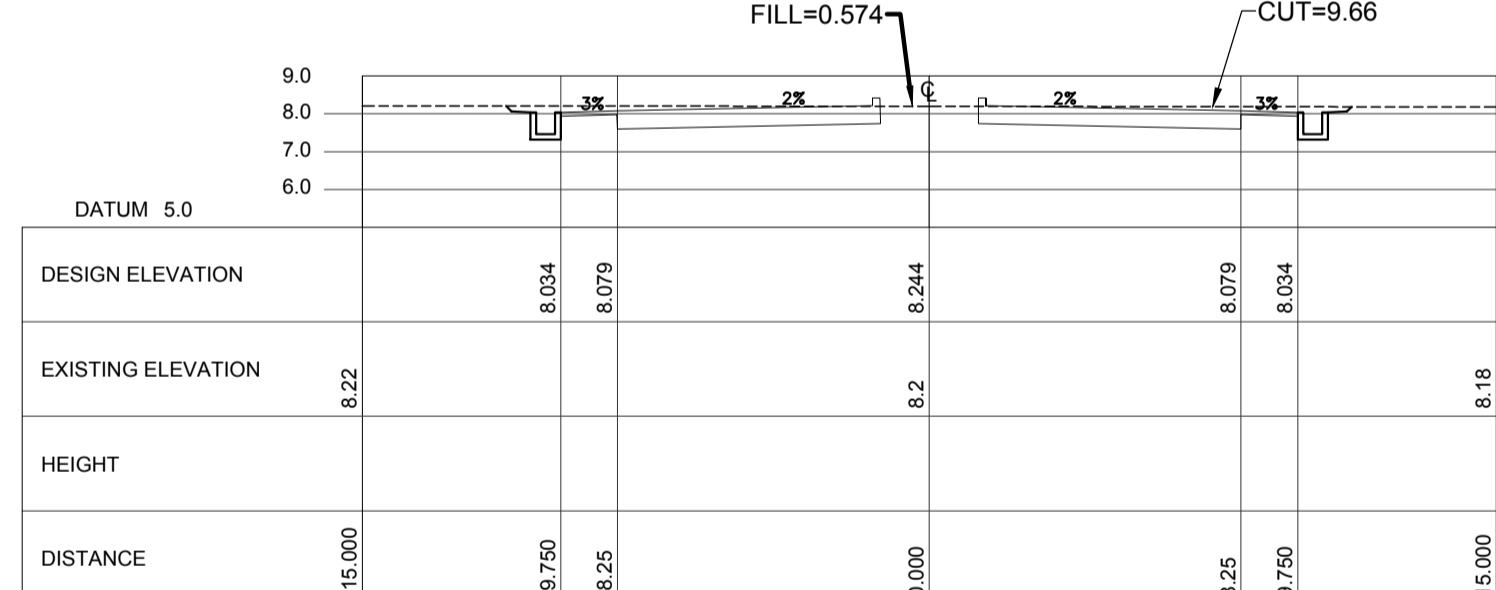
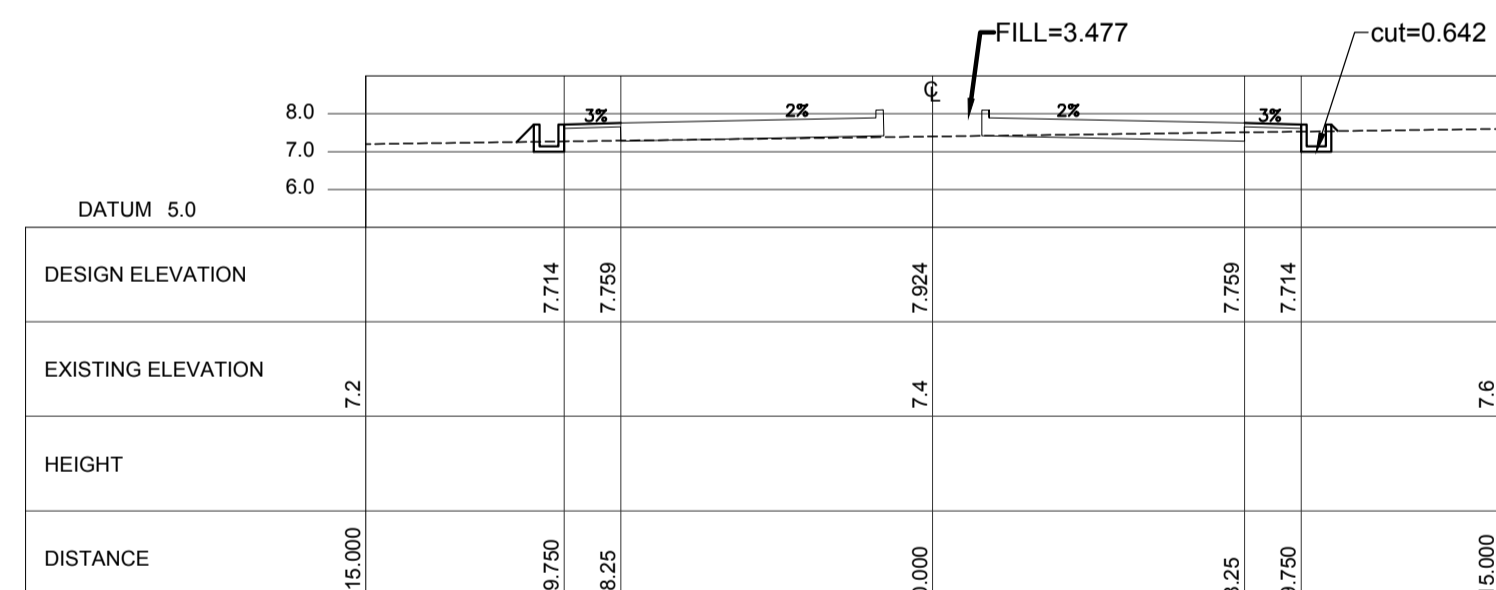
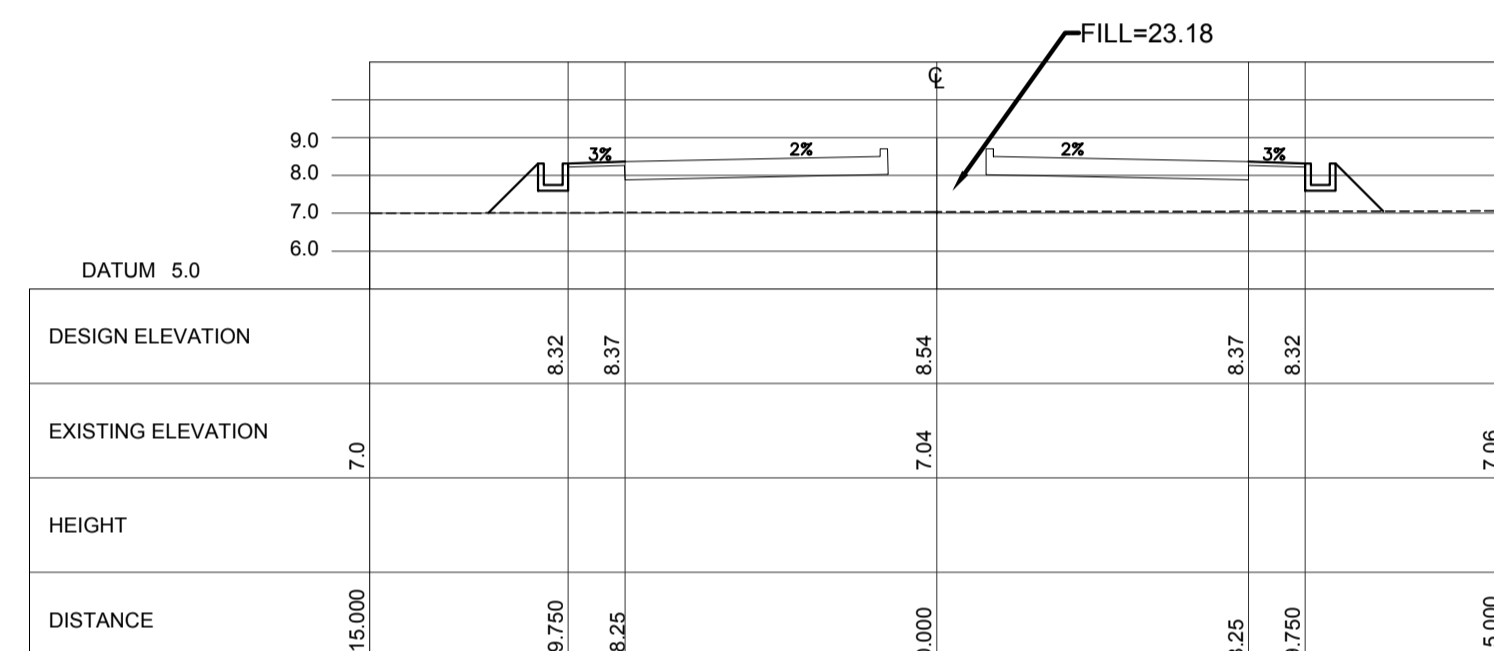
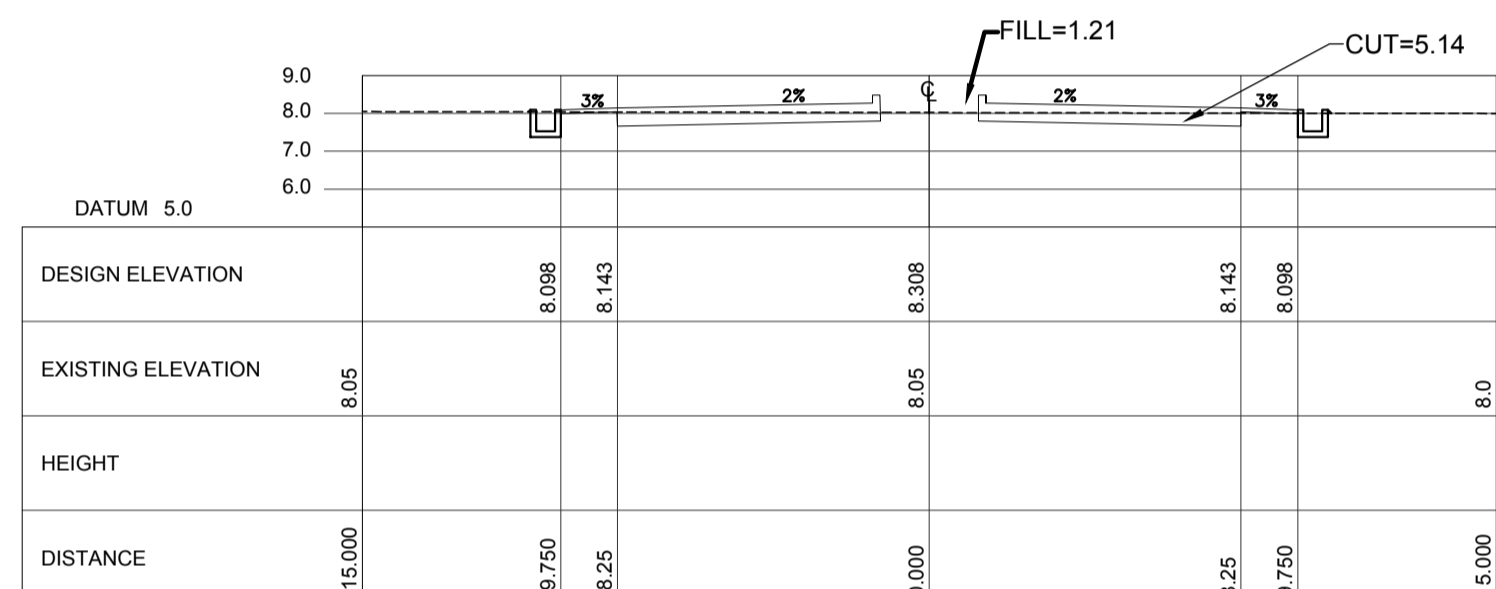
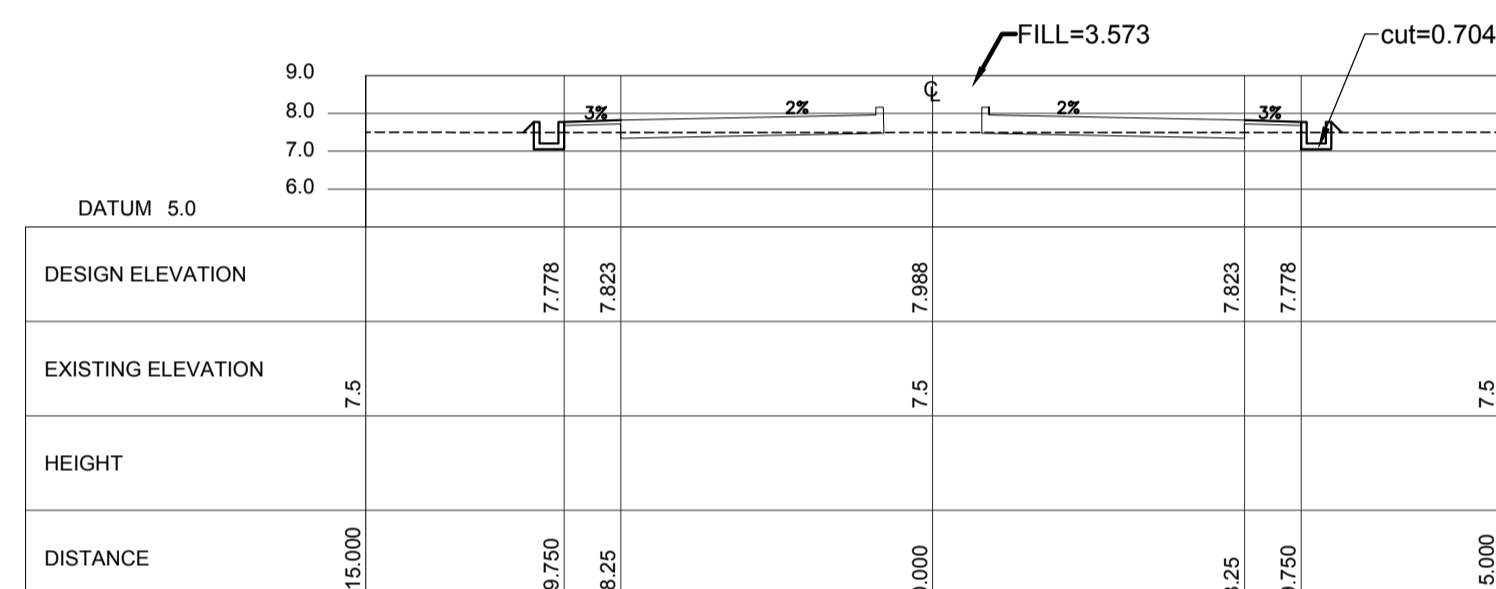
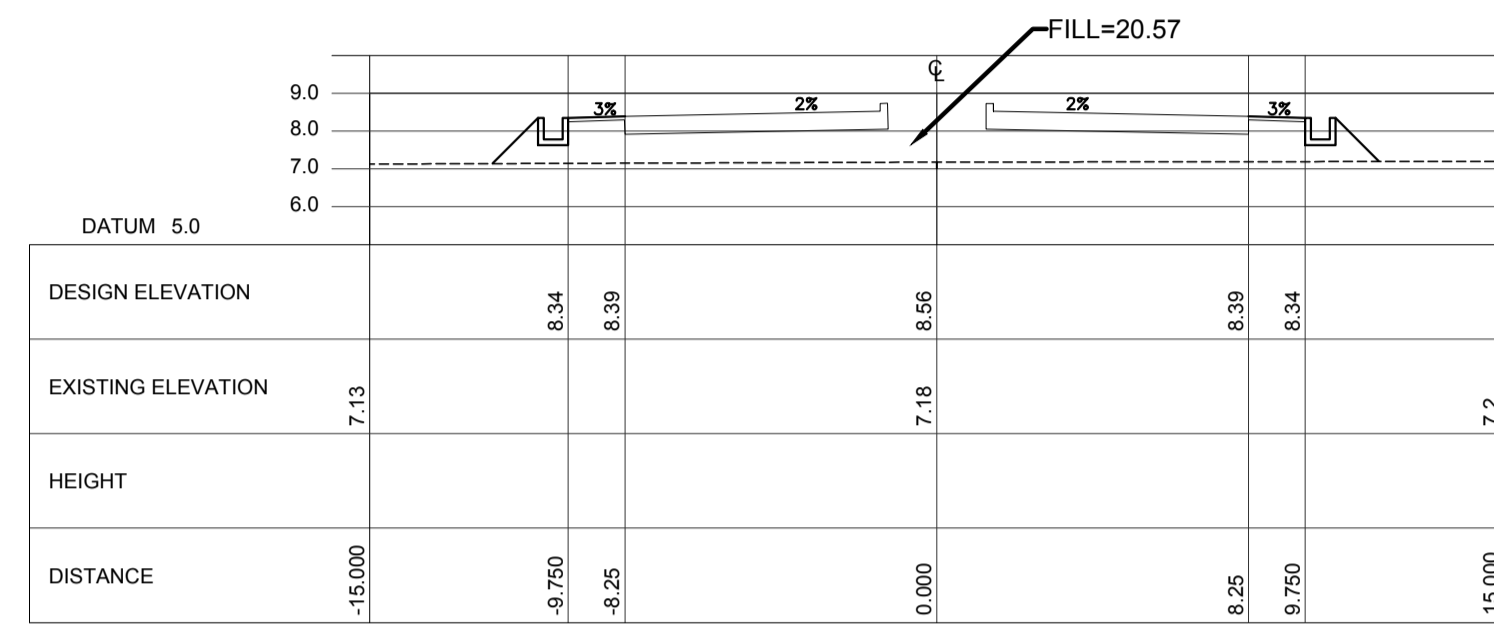
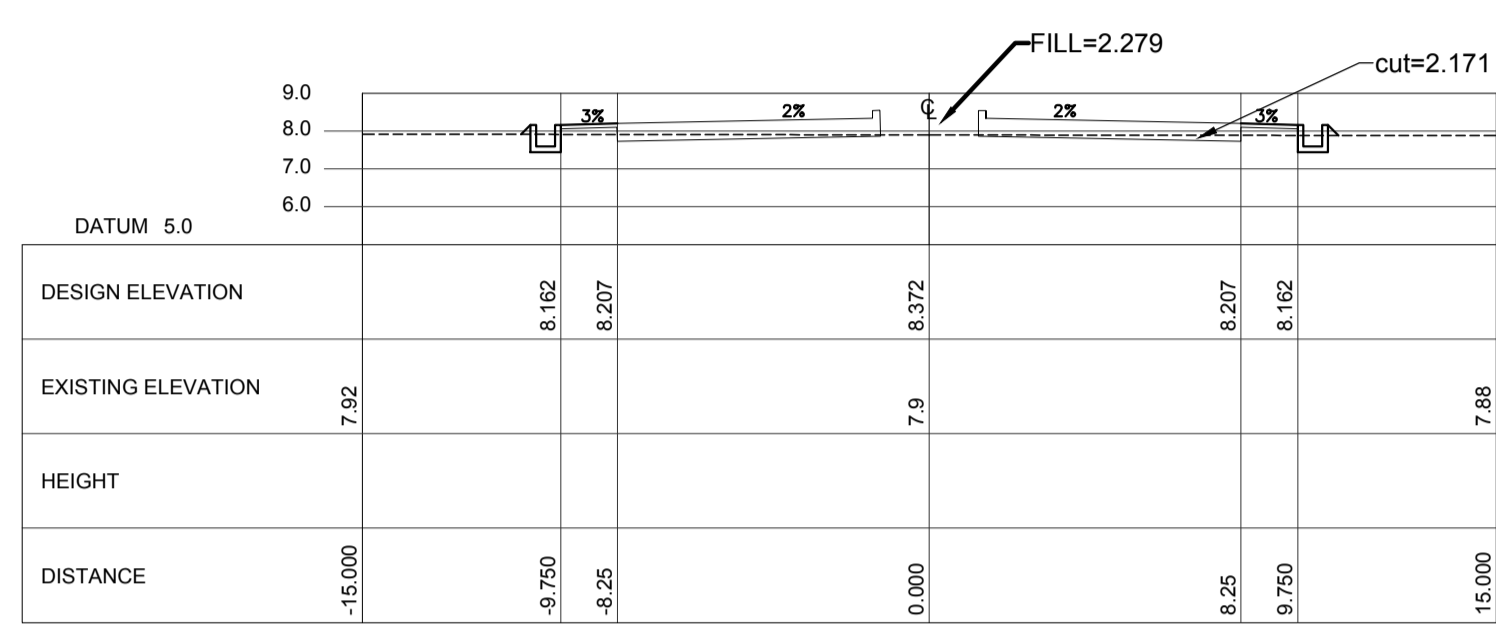
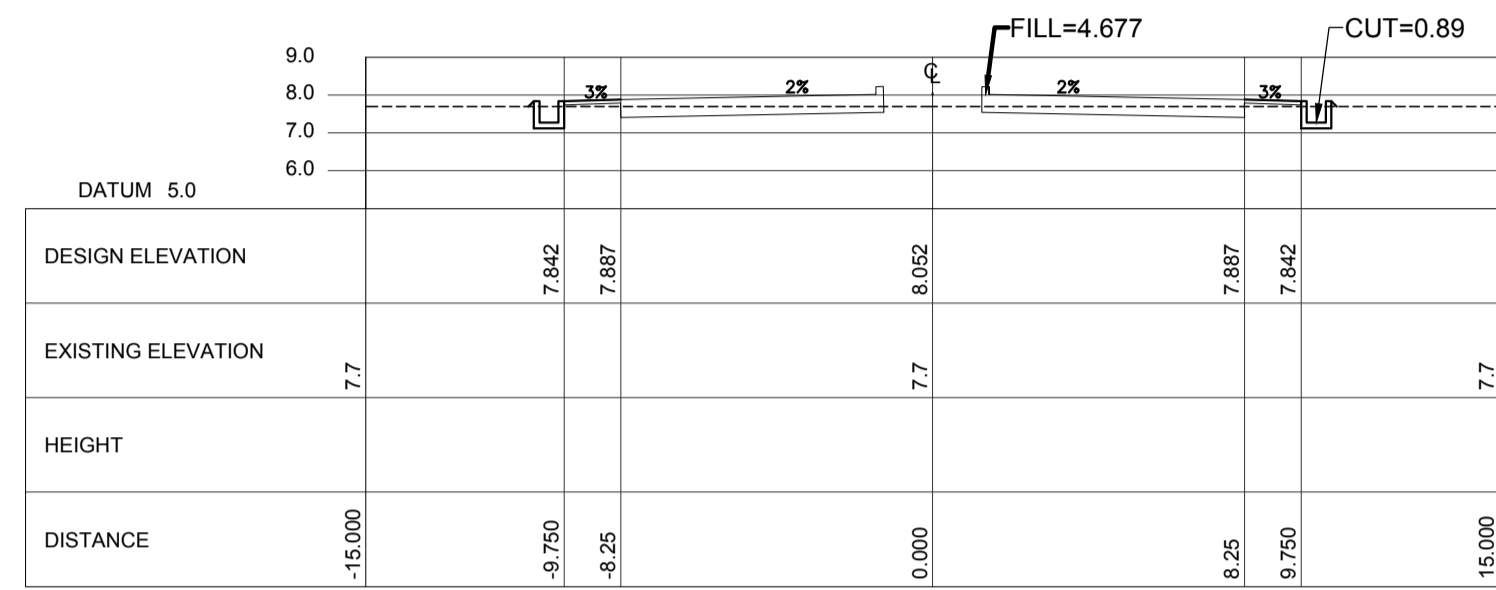
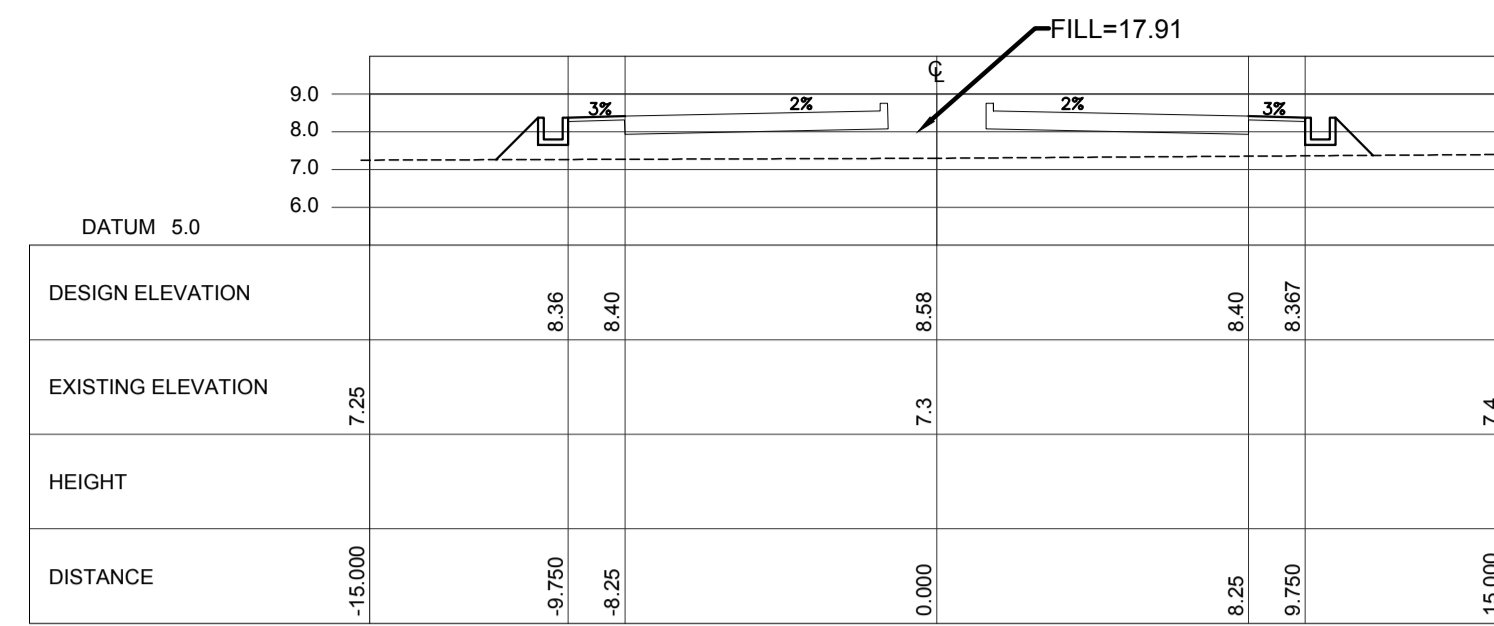
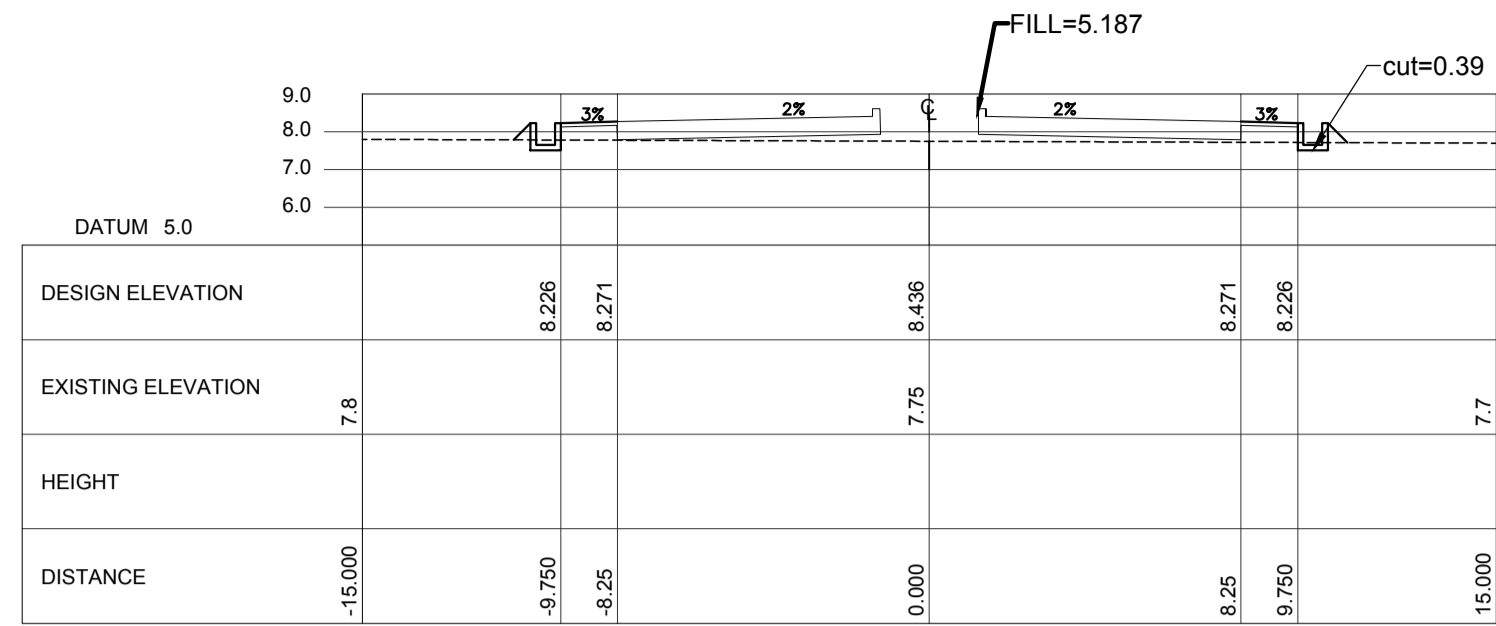
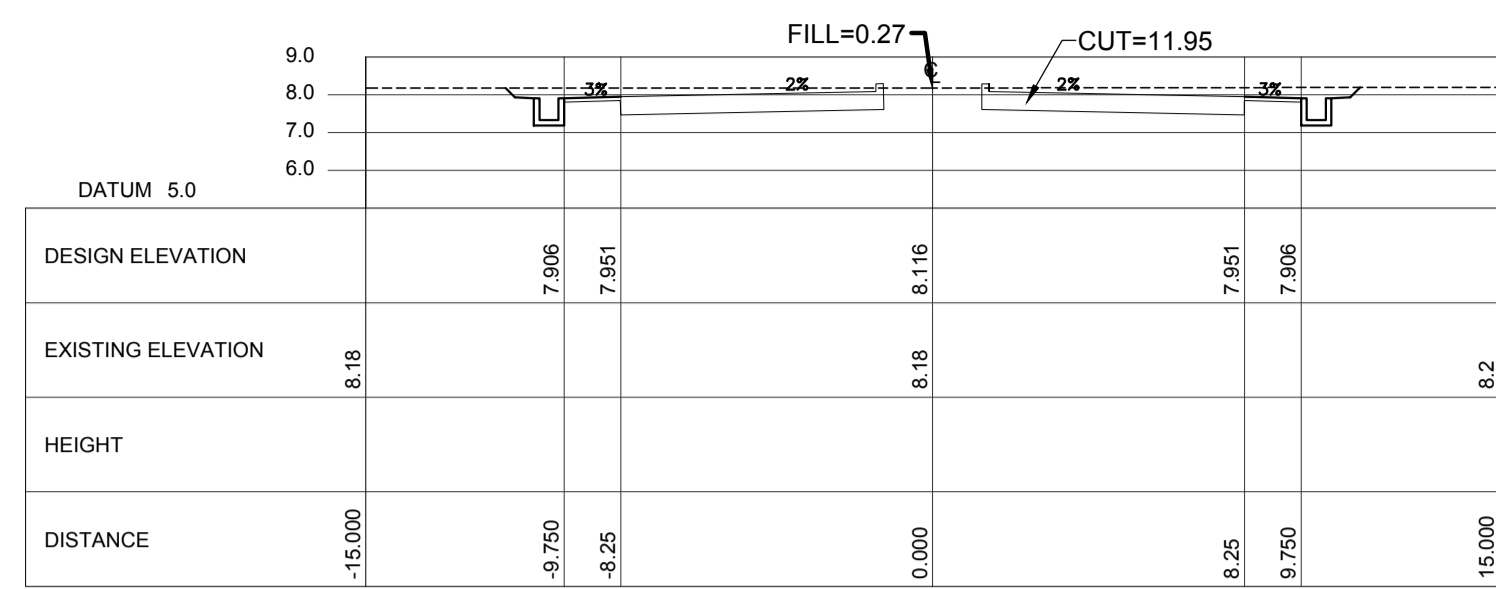
PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

SHEET CONTENTS:
COMPONENT-2 CIVIL WORKS (C)
SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
ACCESS ROAD CROSS SECTION (1)

SHEET NO:
C1-2100-09
DRAWING SCALE:
AS SHOWN



ACCESS ROAD CROSS SECTION Sta. 0+300 ~Sta. 0+580

1
C1-2100-10
SCALE

VERTICAL 1:5000 m.
HORIZONTAL 1:5000 m.

LEGEND:



JICA DESIGN CONSULTANT JOINT VENTURE
JAC JAPAN AIRPORT CONSULTANTS, INC.
NK NIPPON KOEI CO., LTD.
NIS NIS CONSULTANTS CO., LTD.

PREPARED BY:
ERACIO T. PATDU
 PROF. CIVIL ENGINEER PIR. 3158241
 REG. NO. 34252 DATE: JULY 18, 2013
 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY
TADASHI AOI
 Team Leader

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
 Assistant Secretary
 for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
 Undersecretary
 for Project Implementation, DOTC

PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

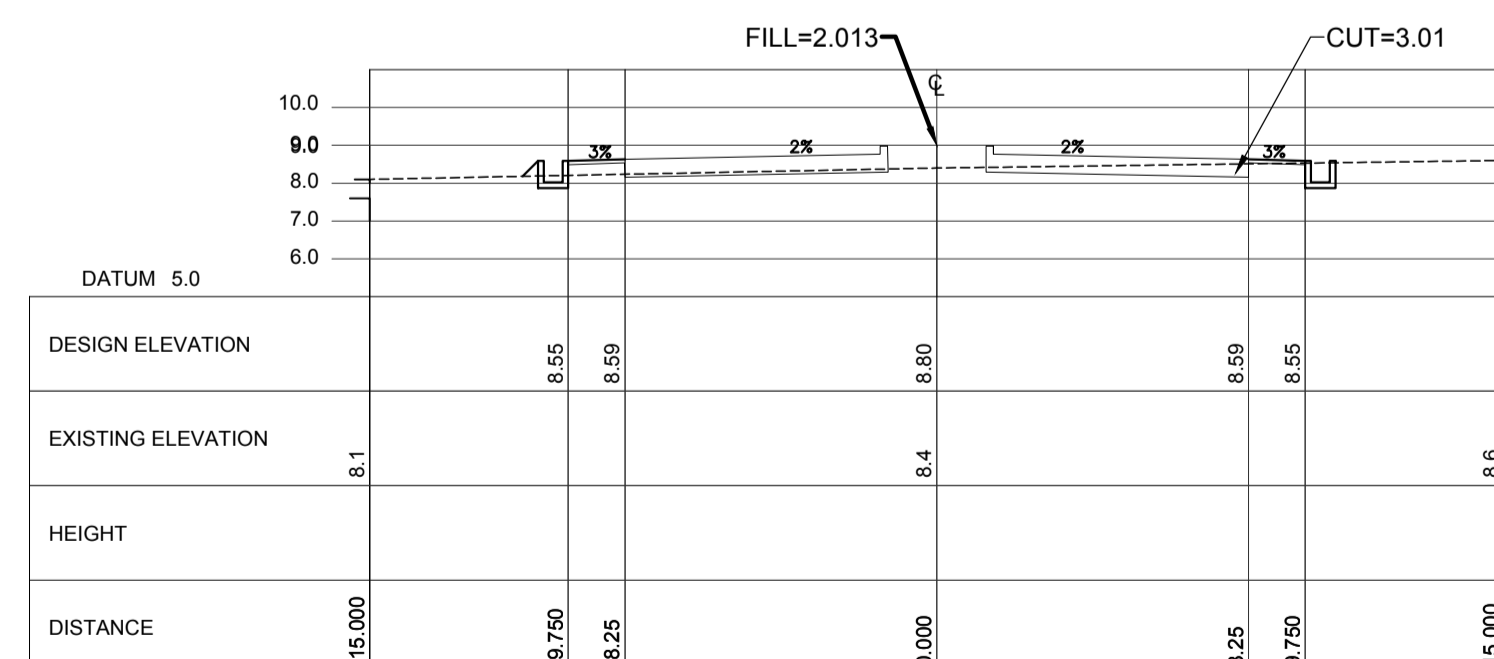
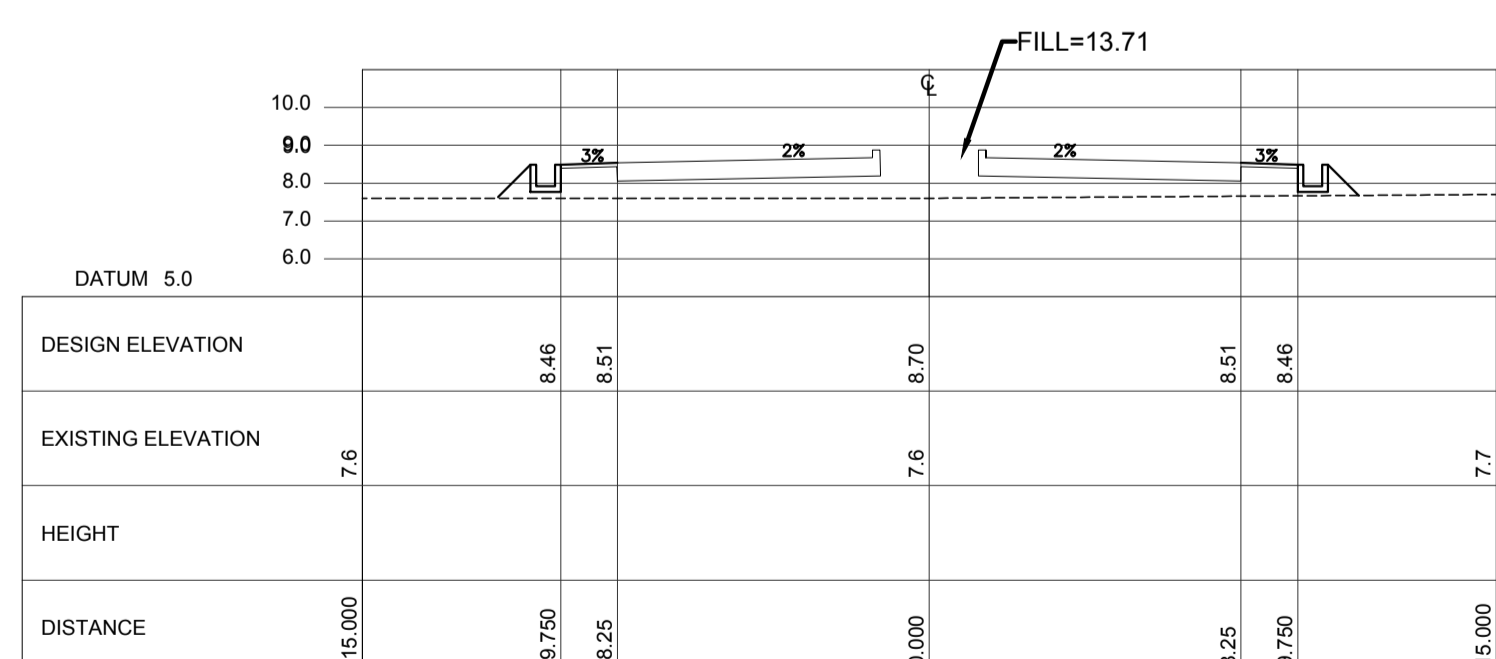
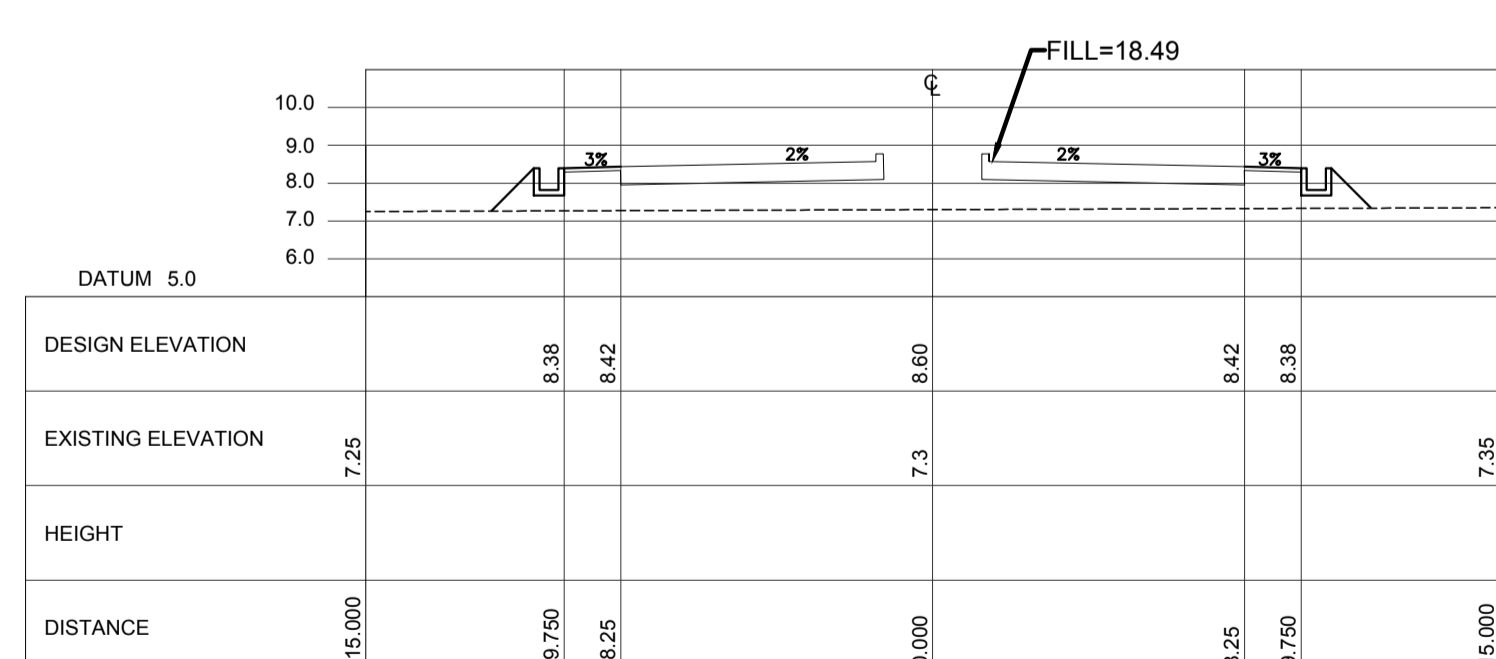
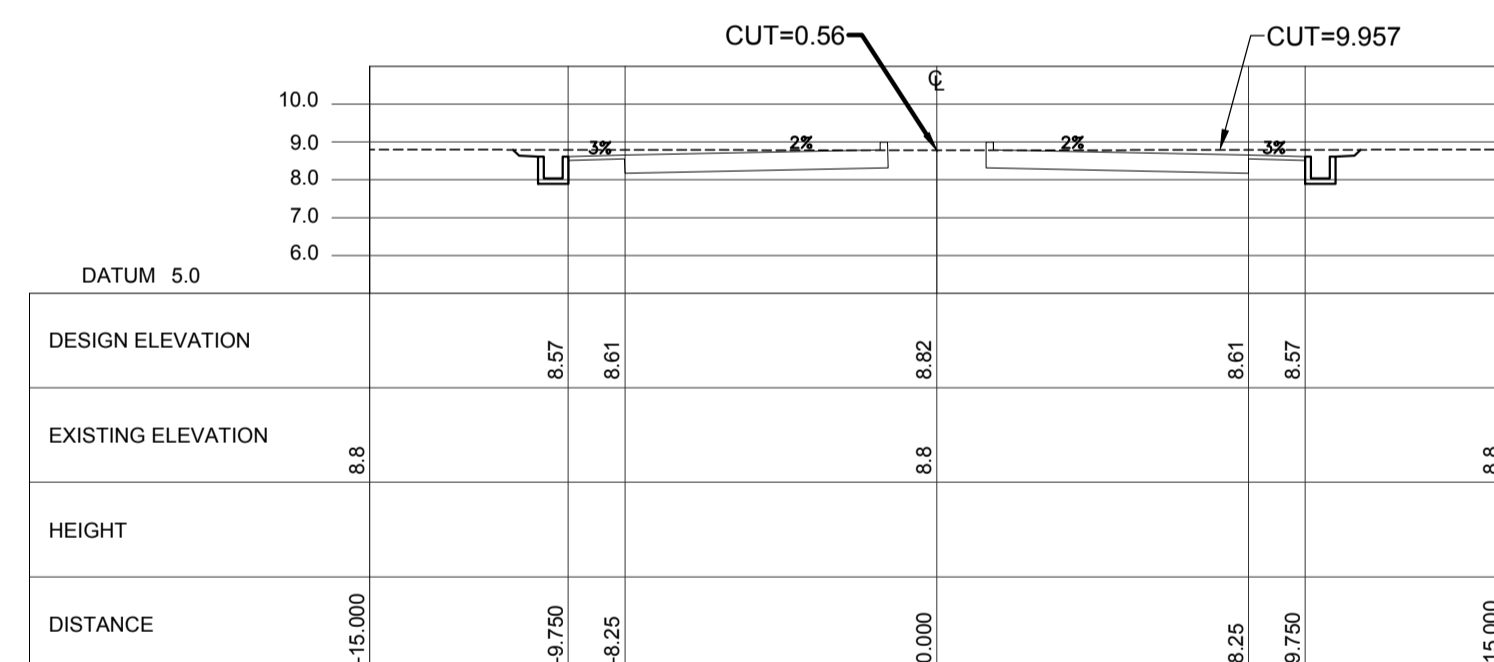
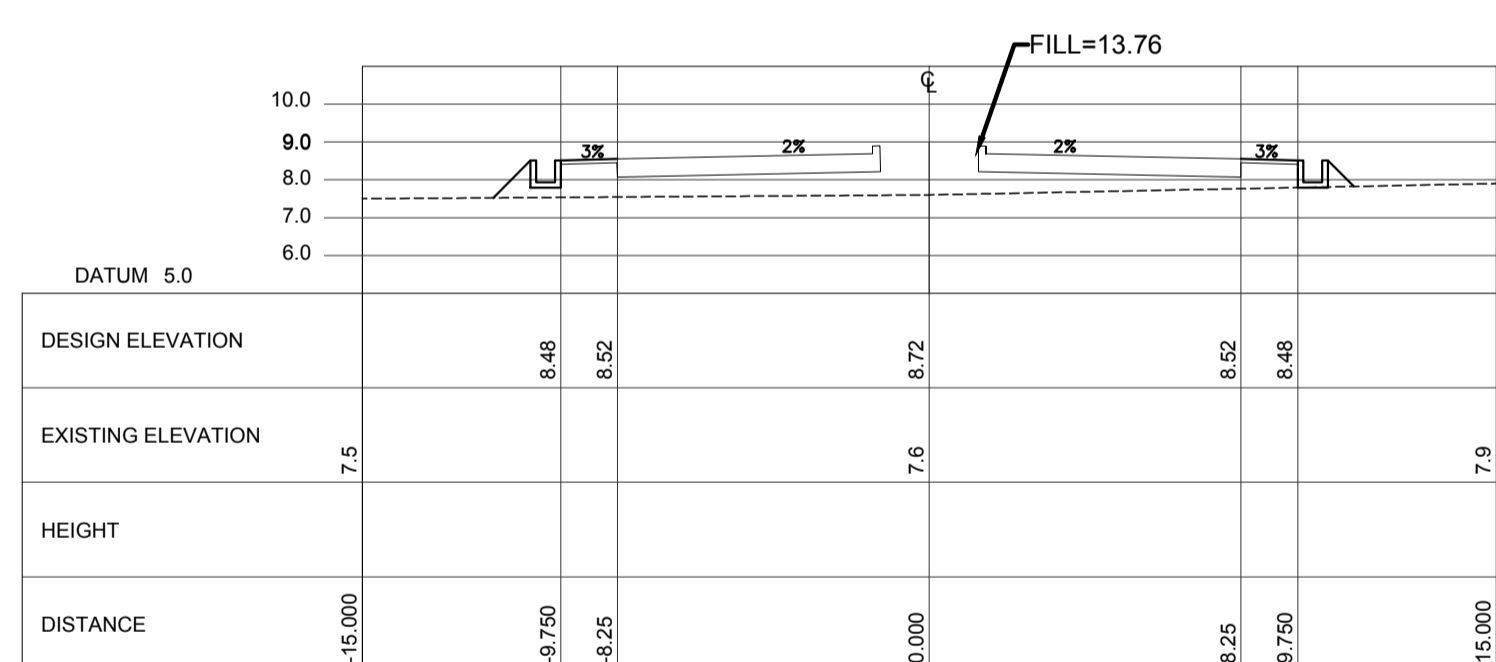
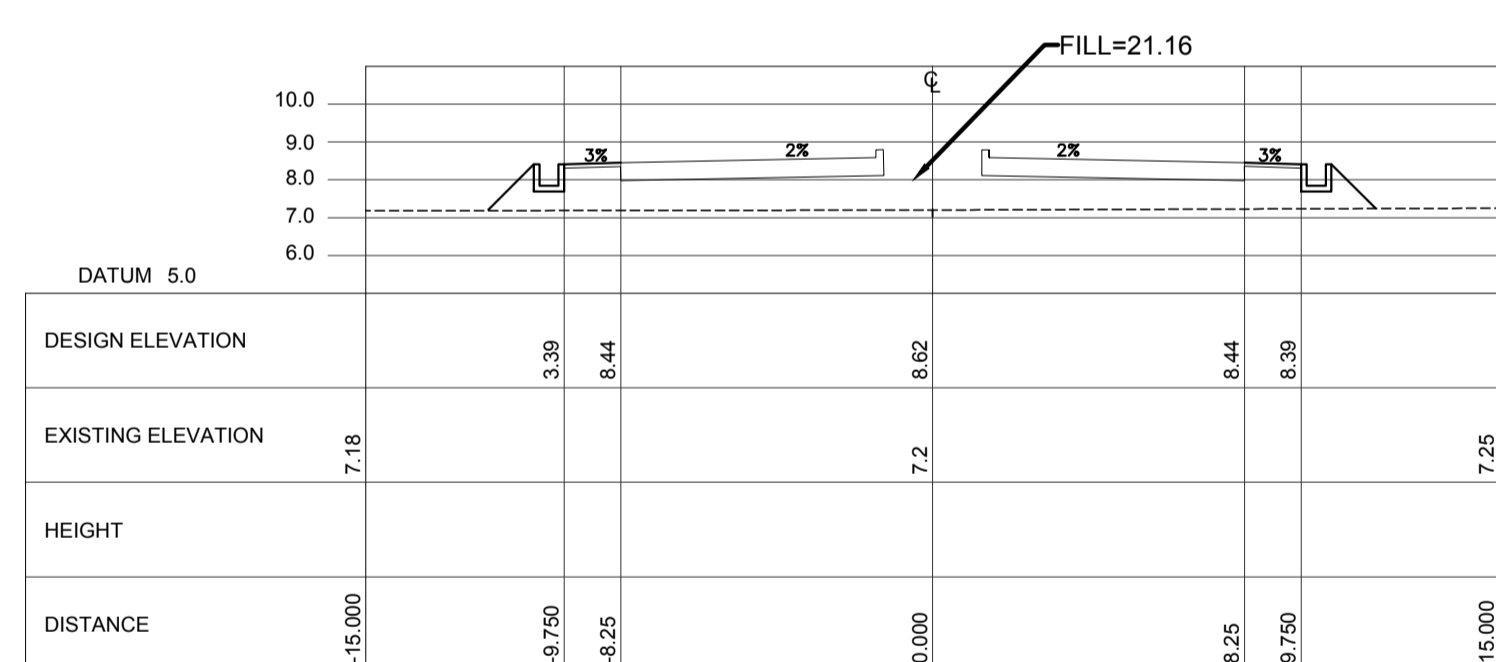
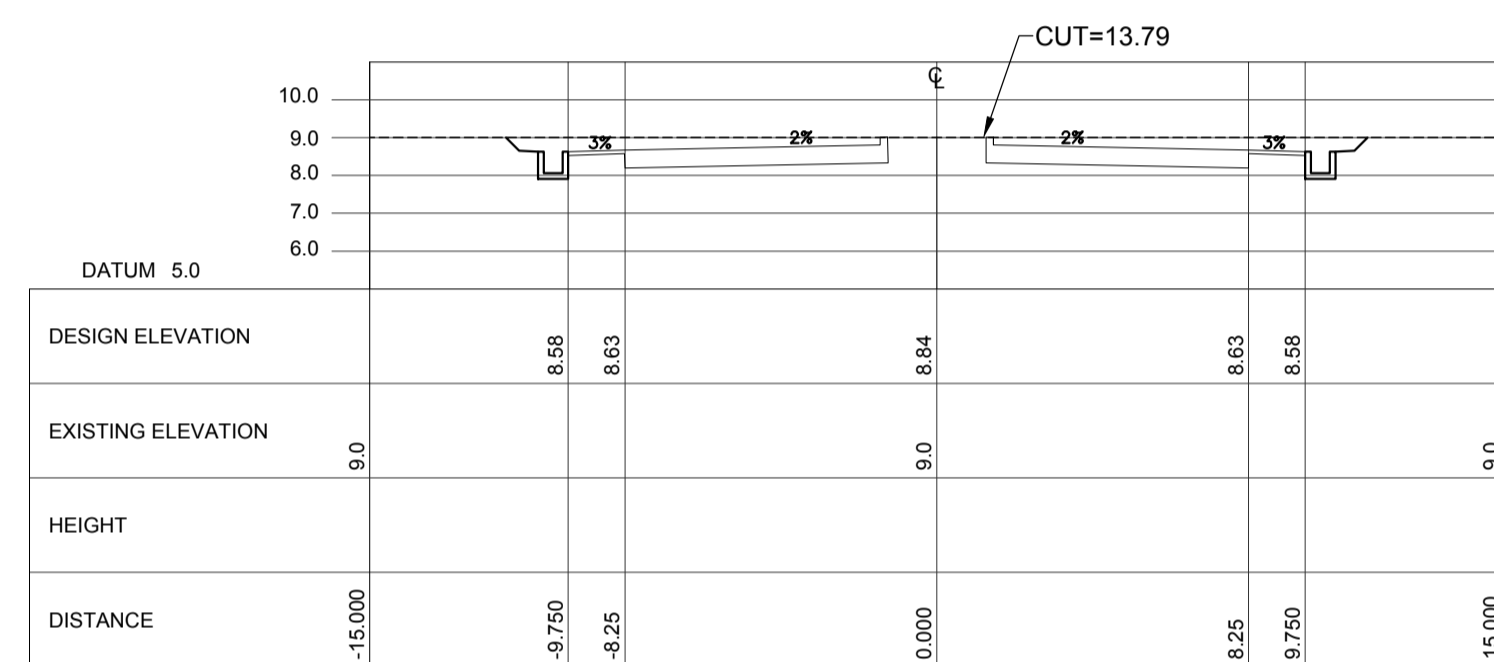
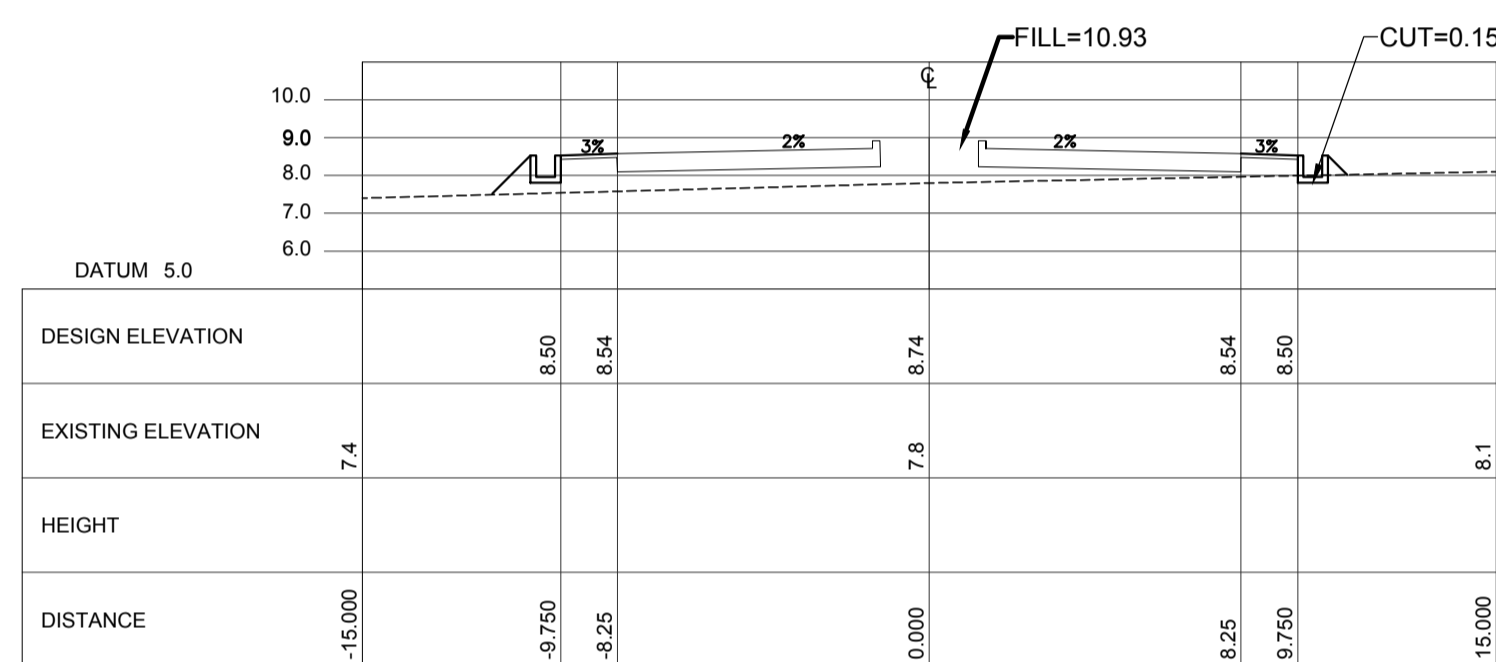
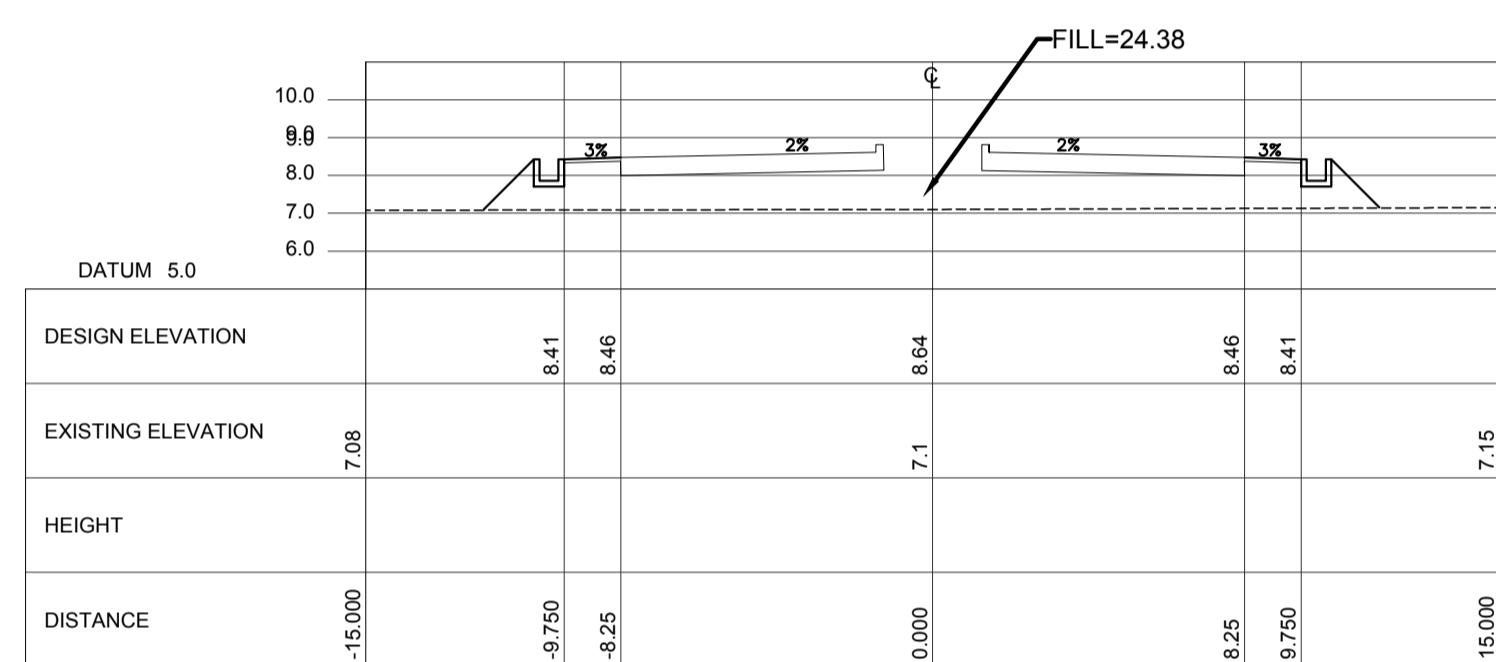
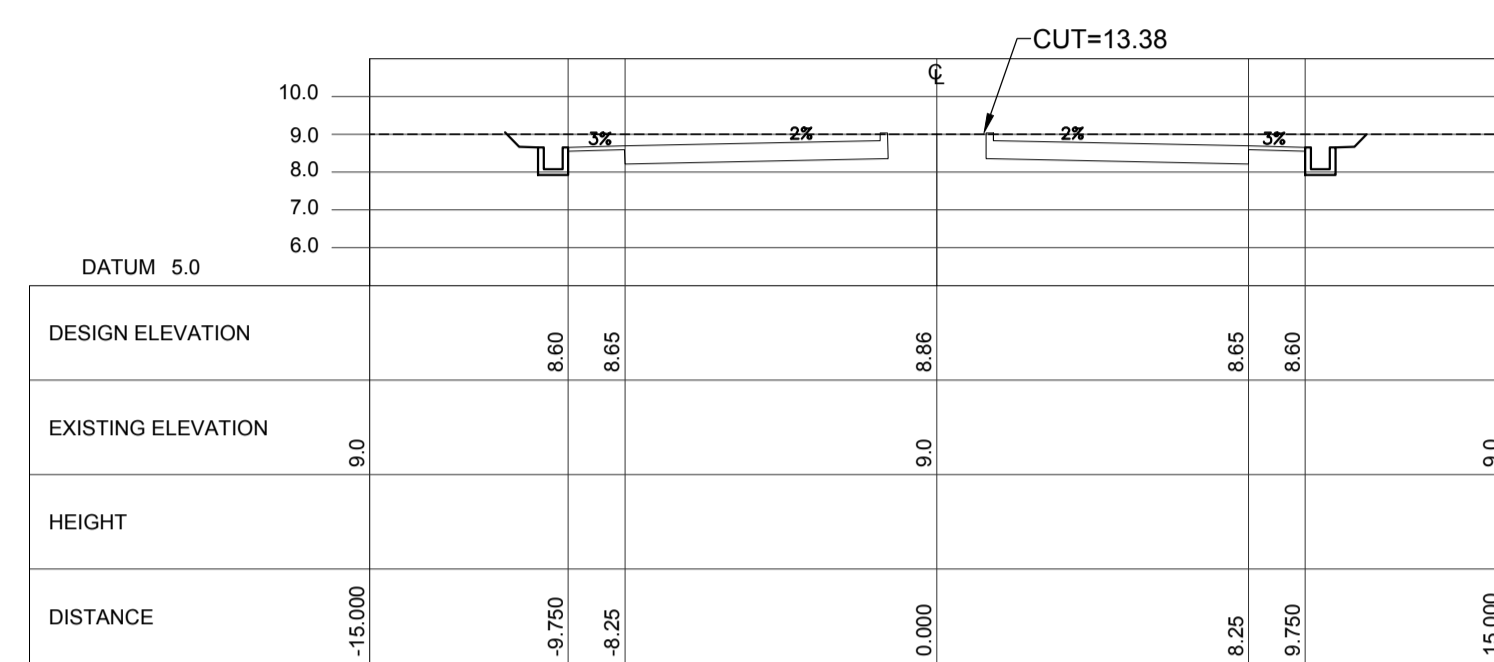
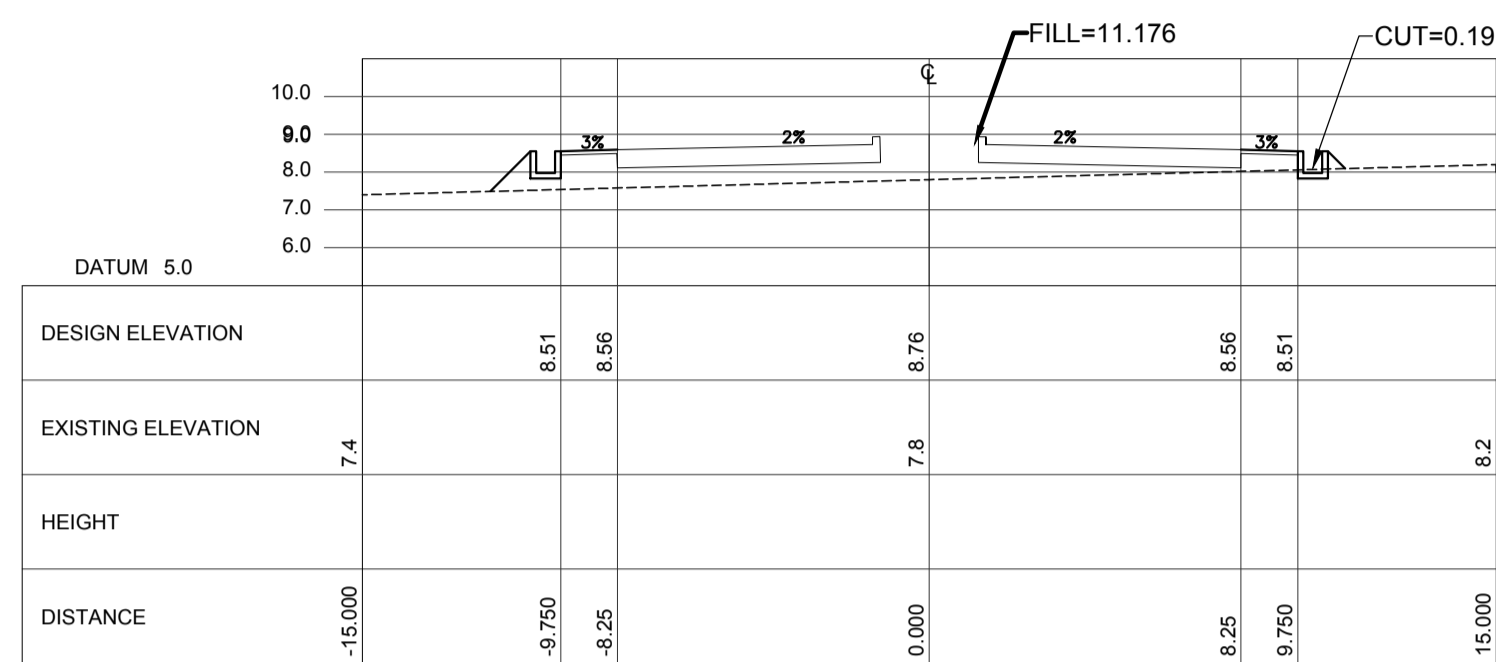
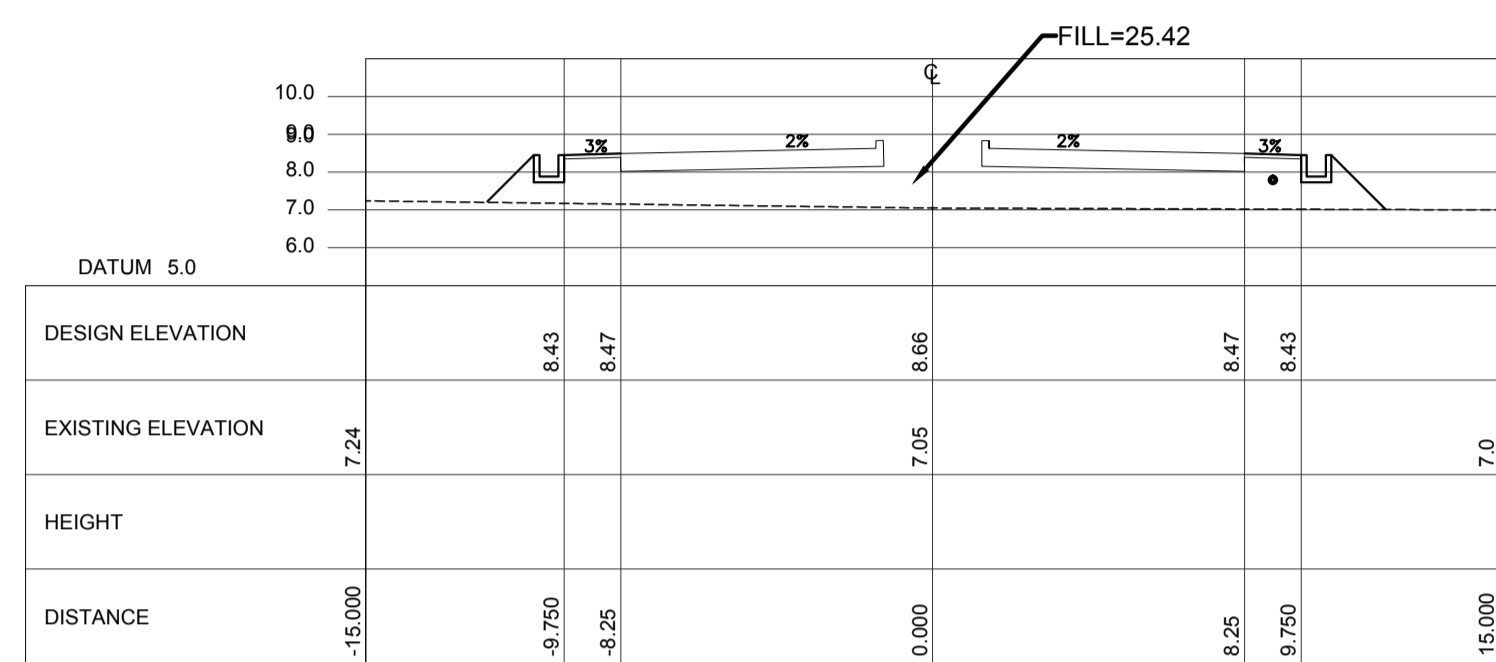
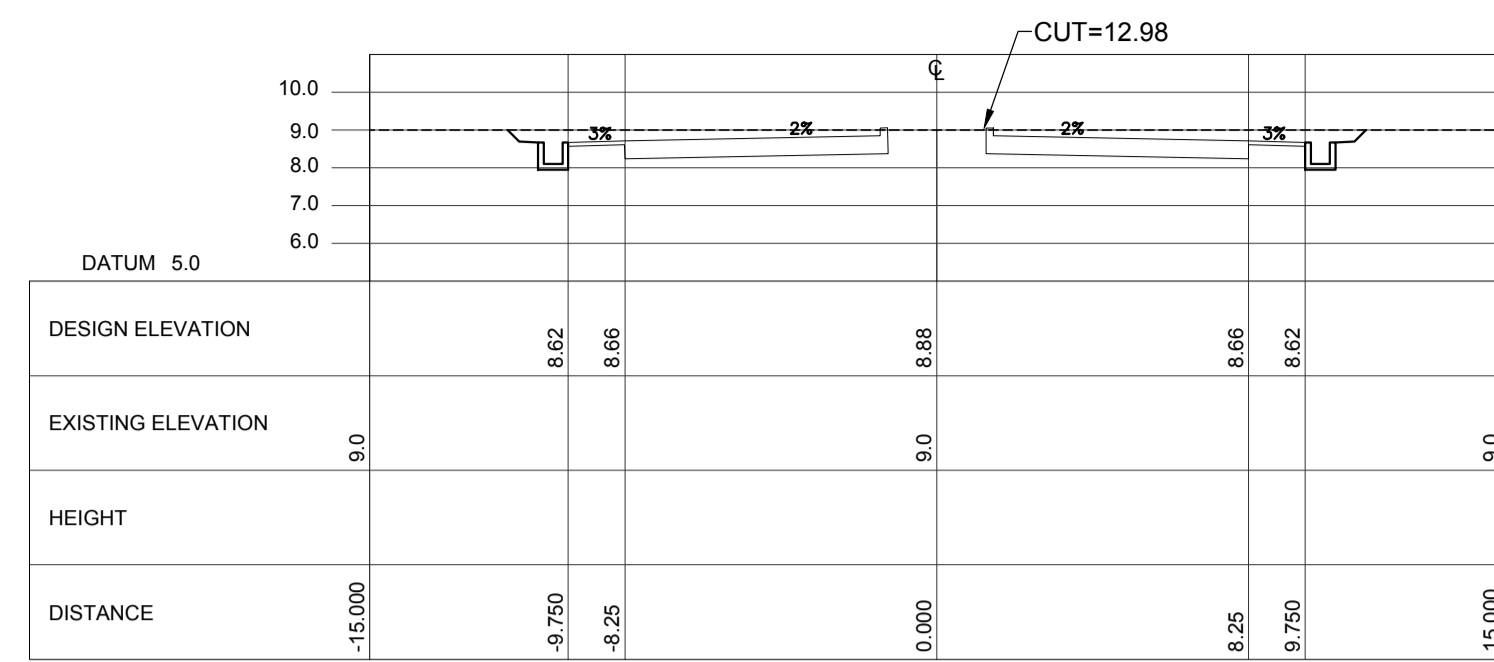
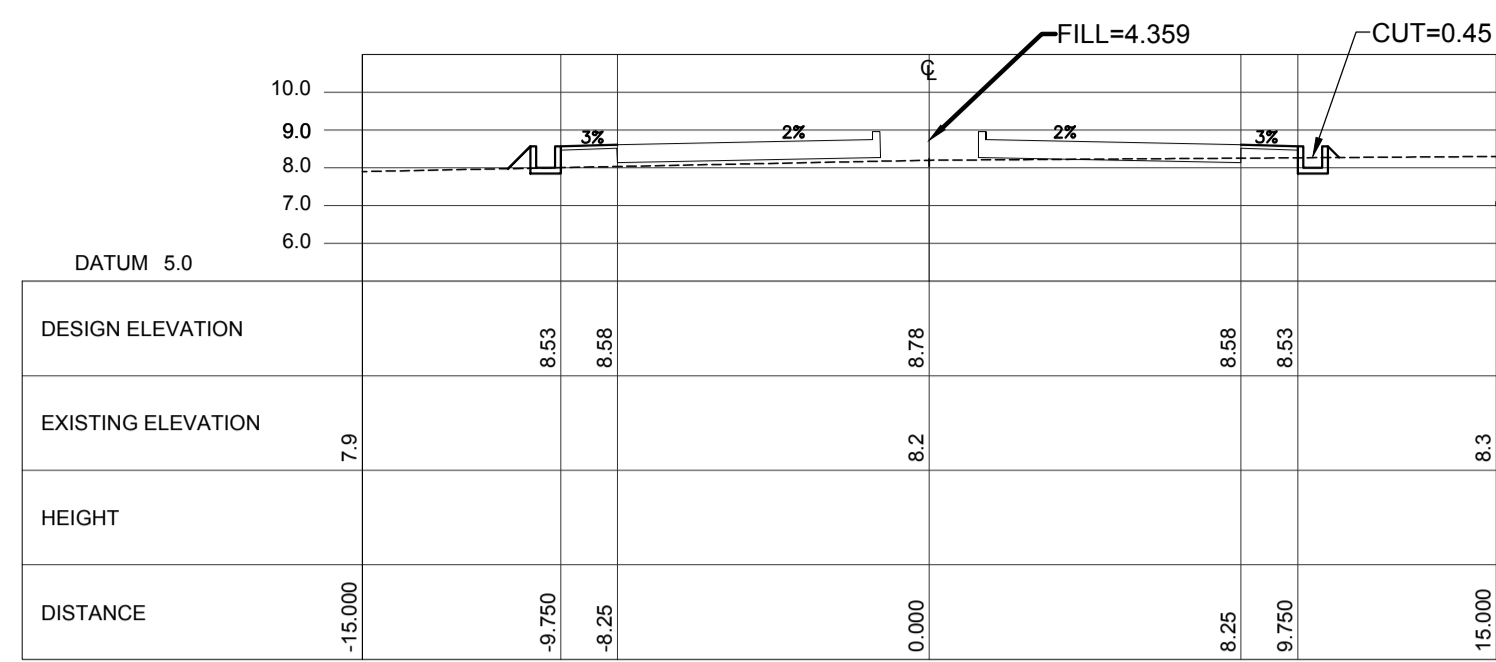
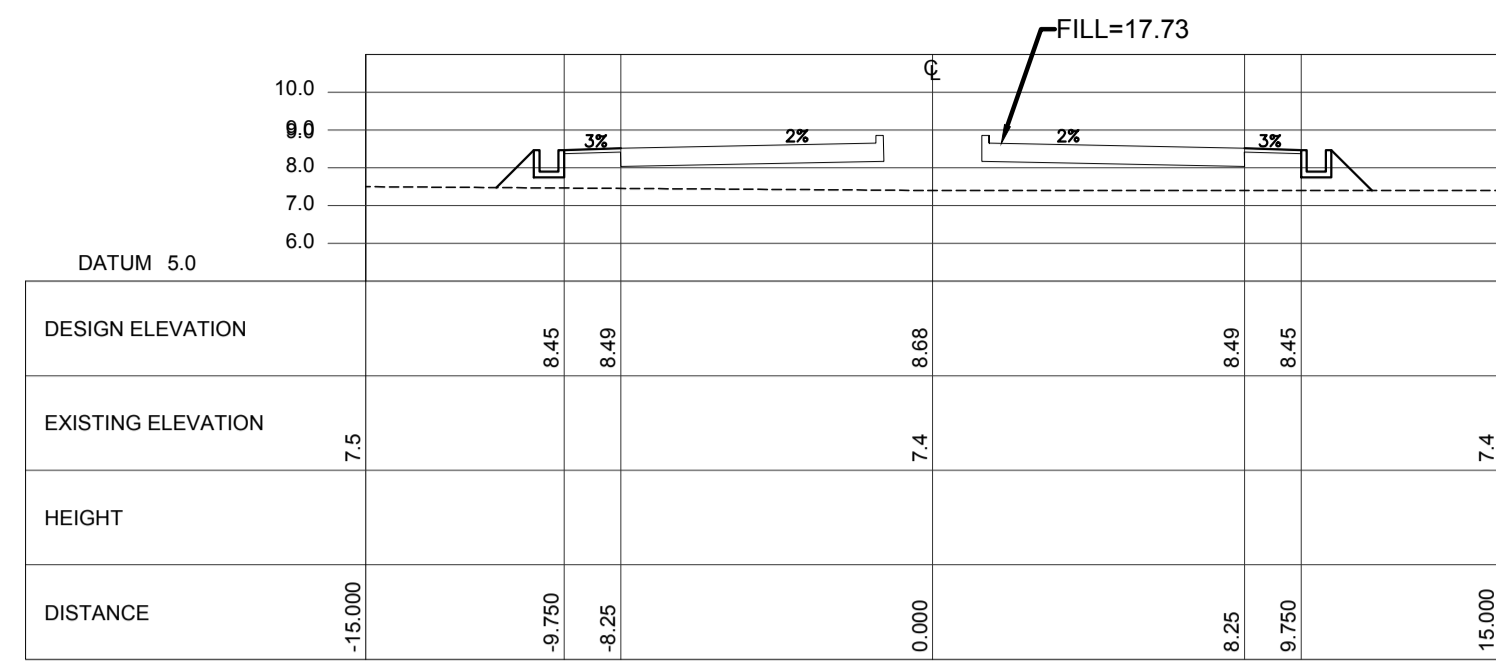
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

SHEET CONTENTS:
 COMPONENT-2 CIVIL WORKS (C)
 SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
 ACCESS ROAD CROSS SECTION (2)

SHEET NO:
C1-2100-10

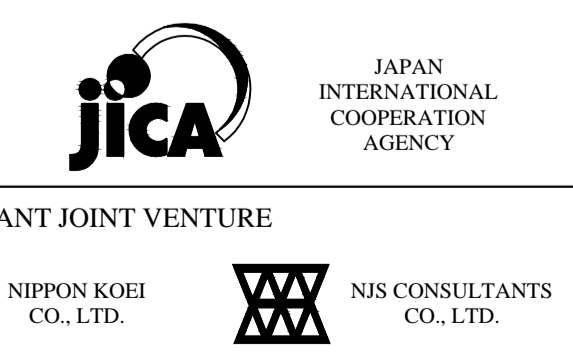
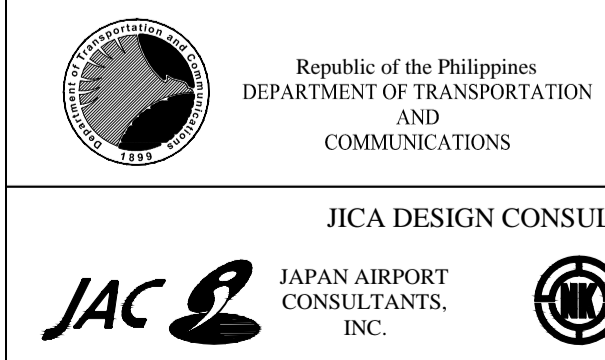
DRAWING SCALE:
 AS SHOWN



ACCESS ROAD CROSS SECTION Sta. 0+600 ~Sta. 0+880

VERTICAL SCALE: 1:50000 m. HORIZONTAL SCALE: 1:5000 m.

LEGEND:
 - - - - -
 - - - - -



PREPARED BY: ERACIO T. PATDU
 PROF: CIVIL ENGINEER PIR. 3158241
 REG. NO.: 34252 DATE: JULY 18, 2013
 TEL: 199-699-561 PLACE: CAGAYAN DE ORO CITY
 TADASHI AOI
 Team Leader

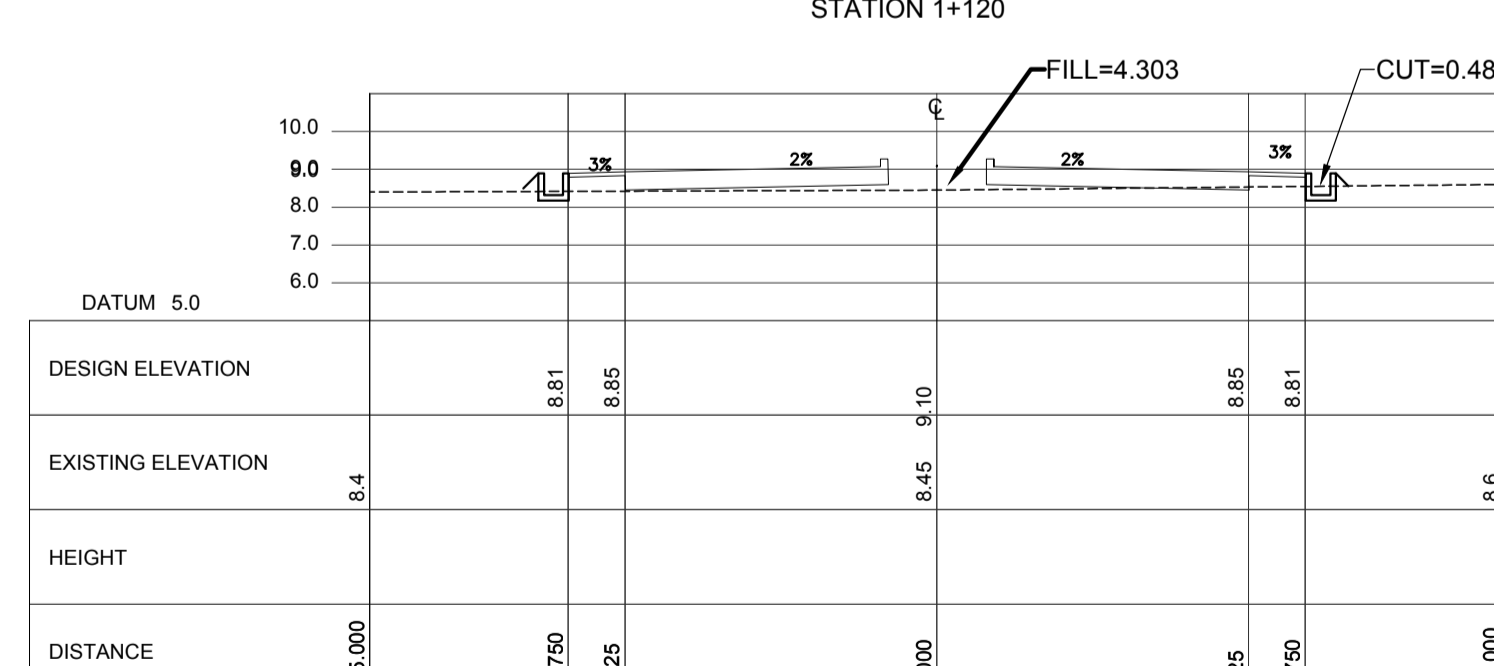
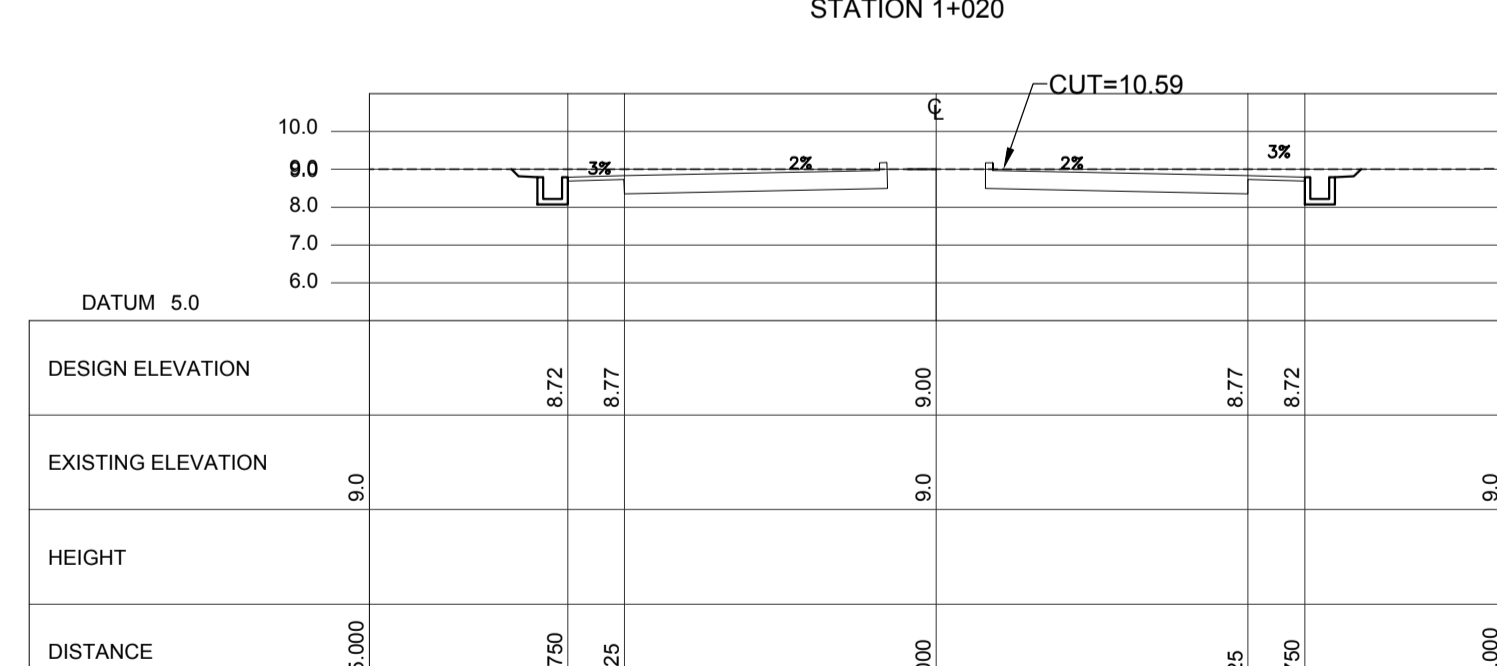
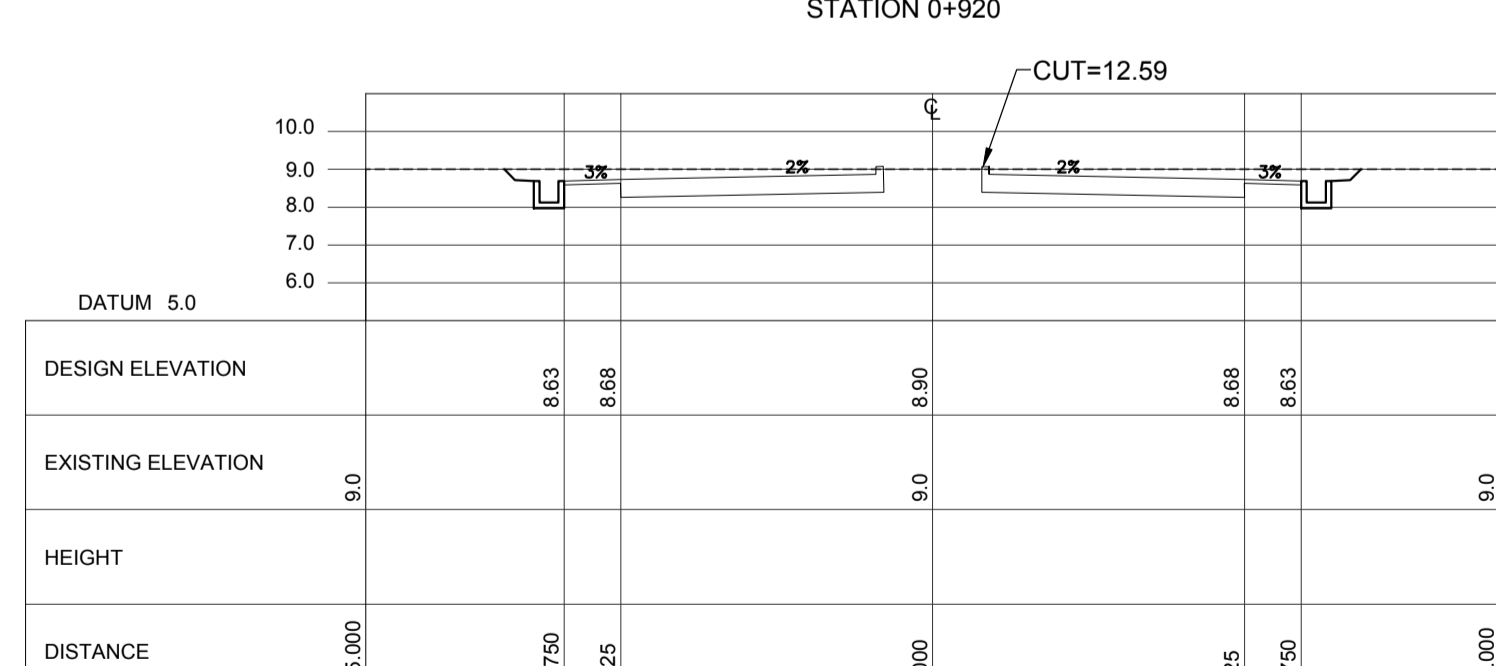
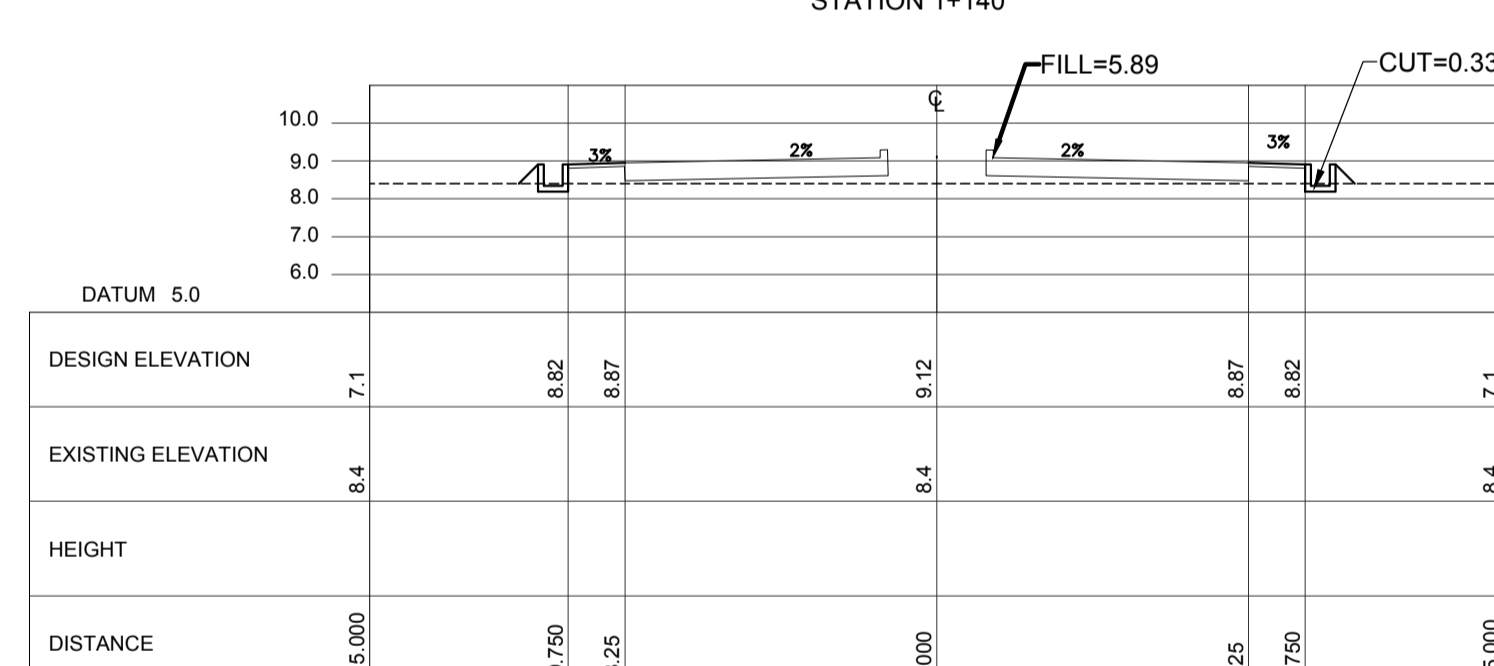
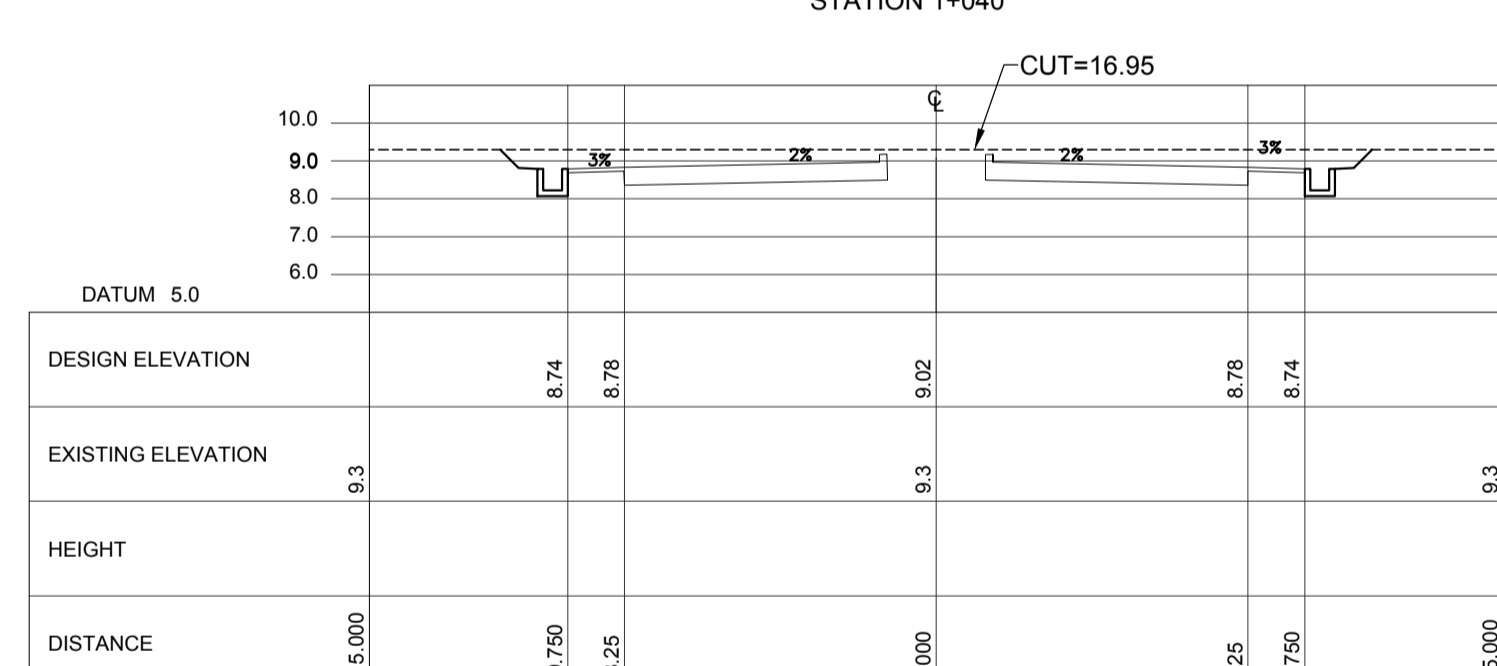
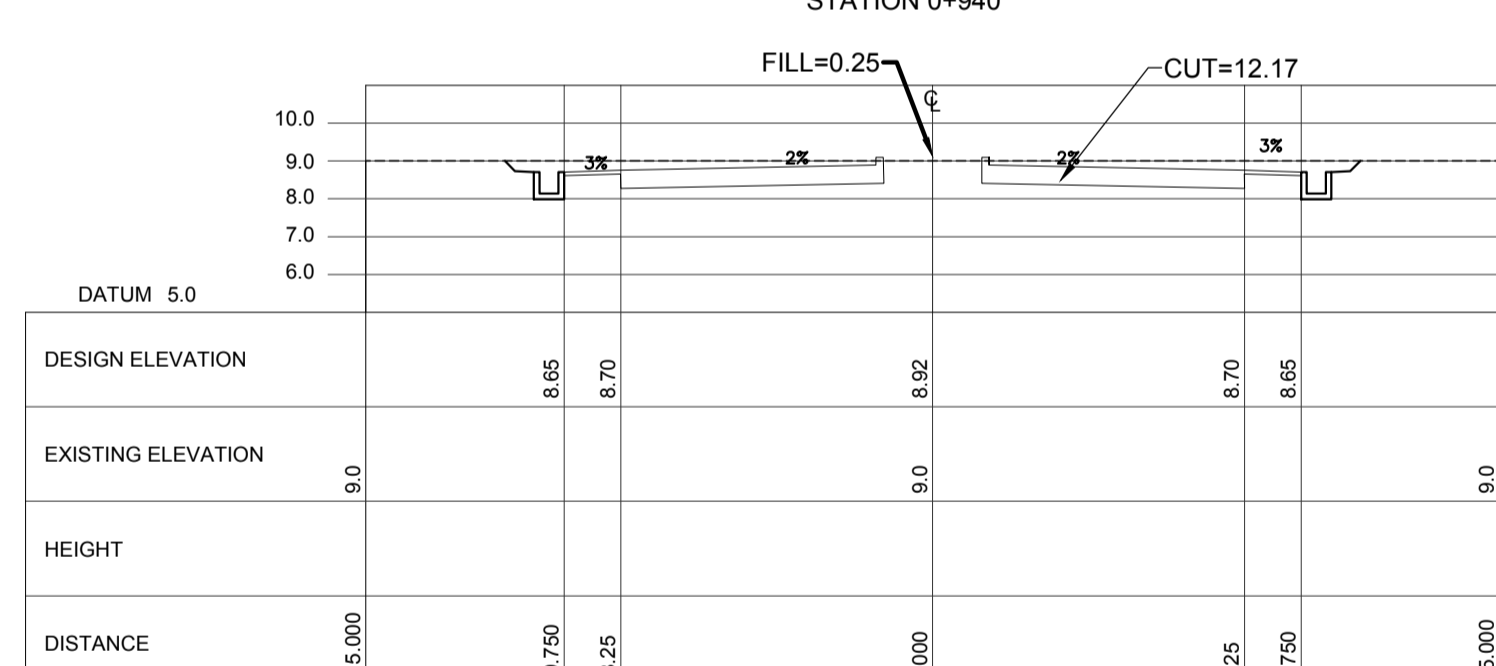
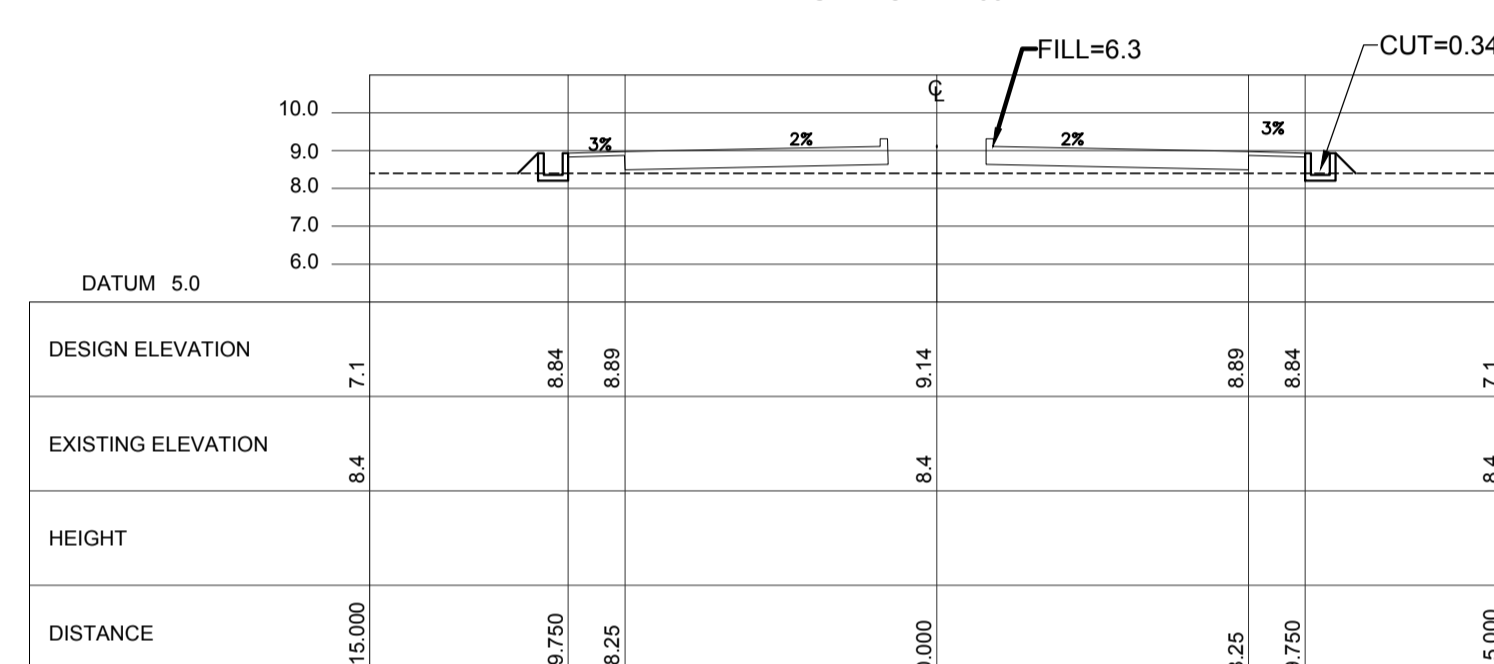
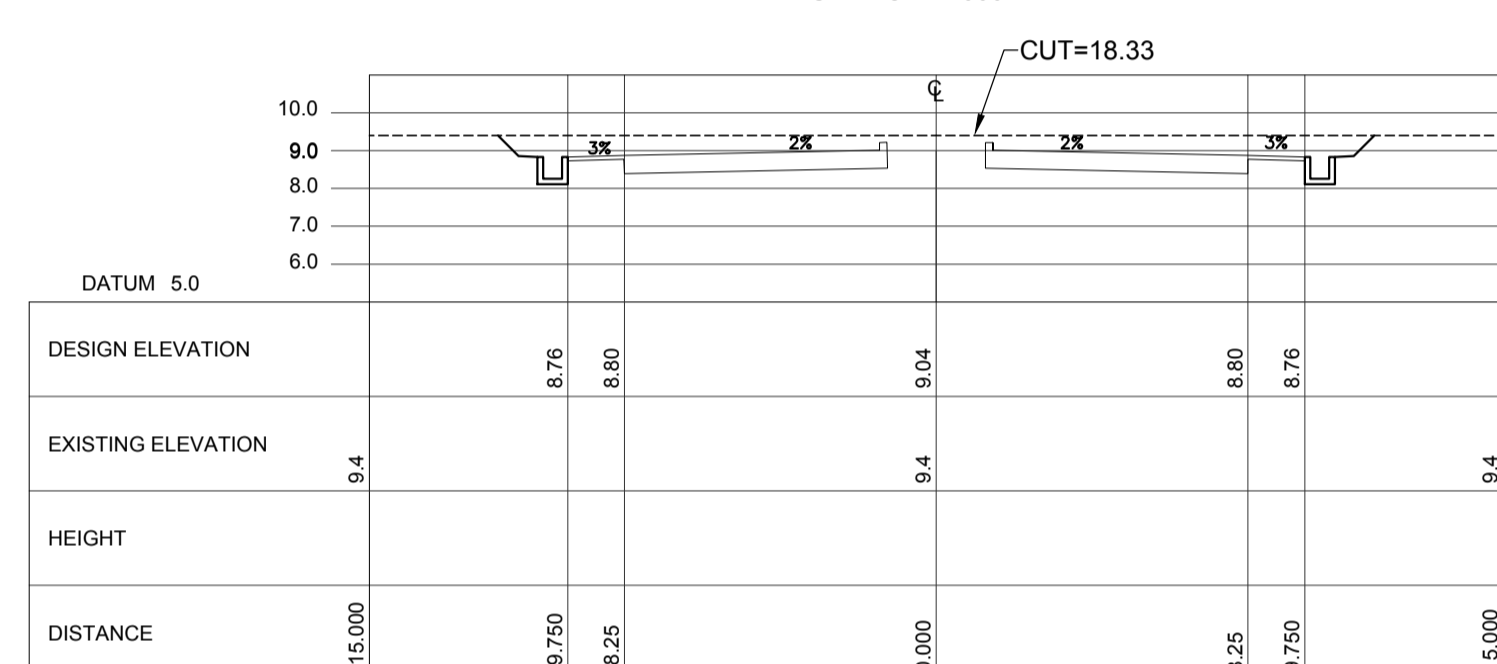
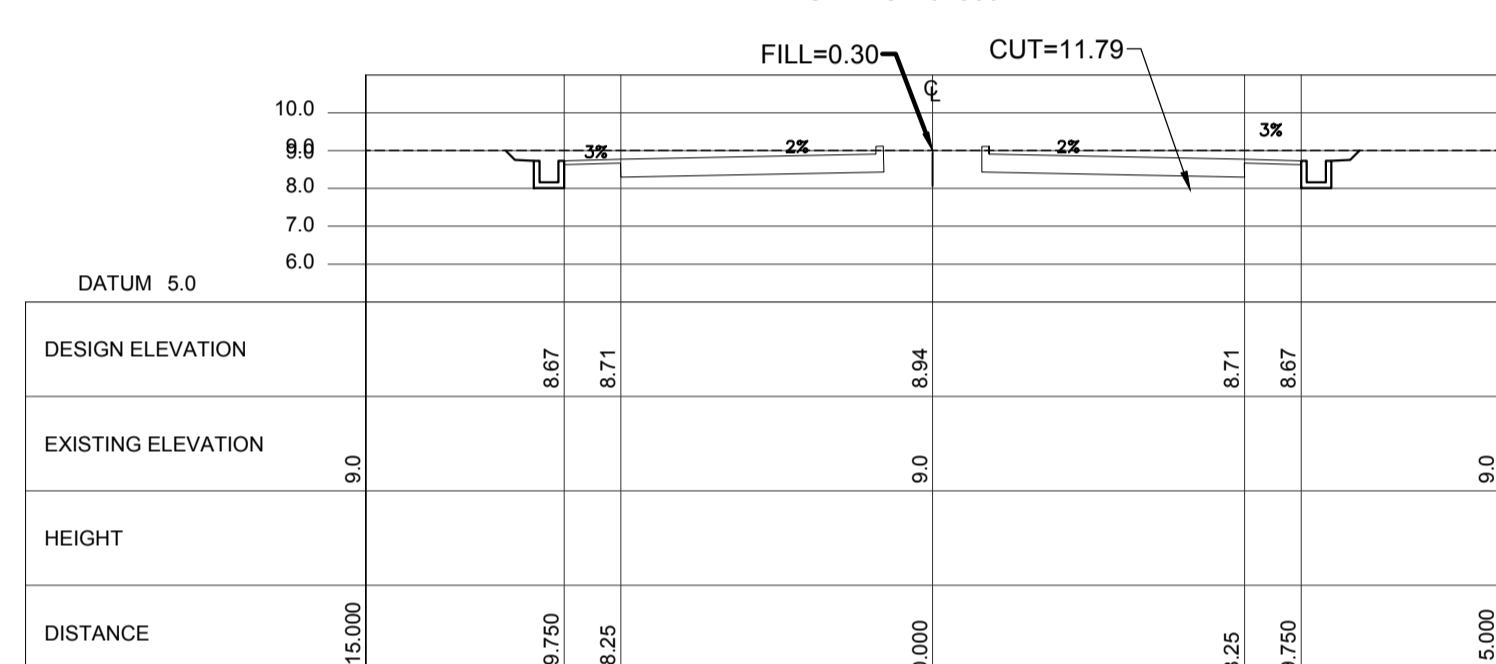
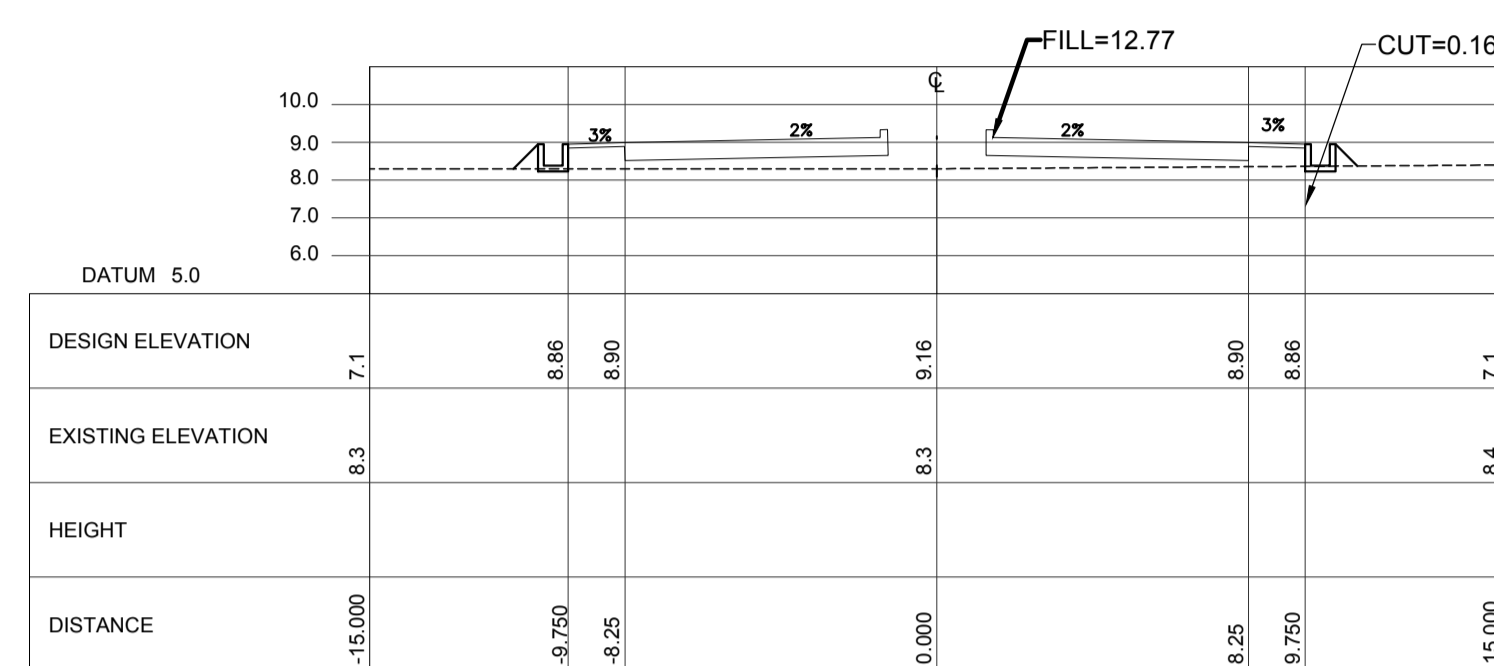
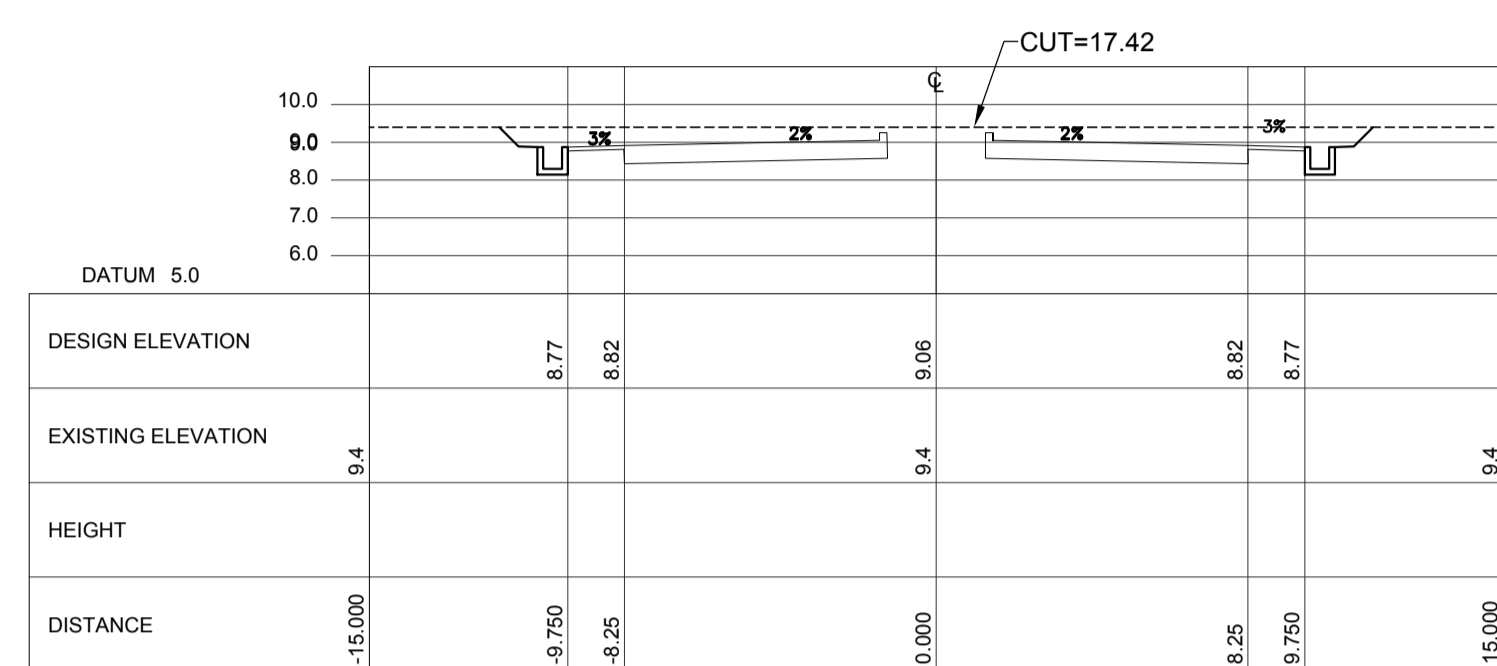
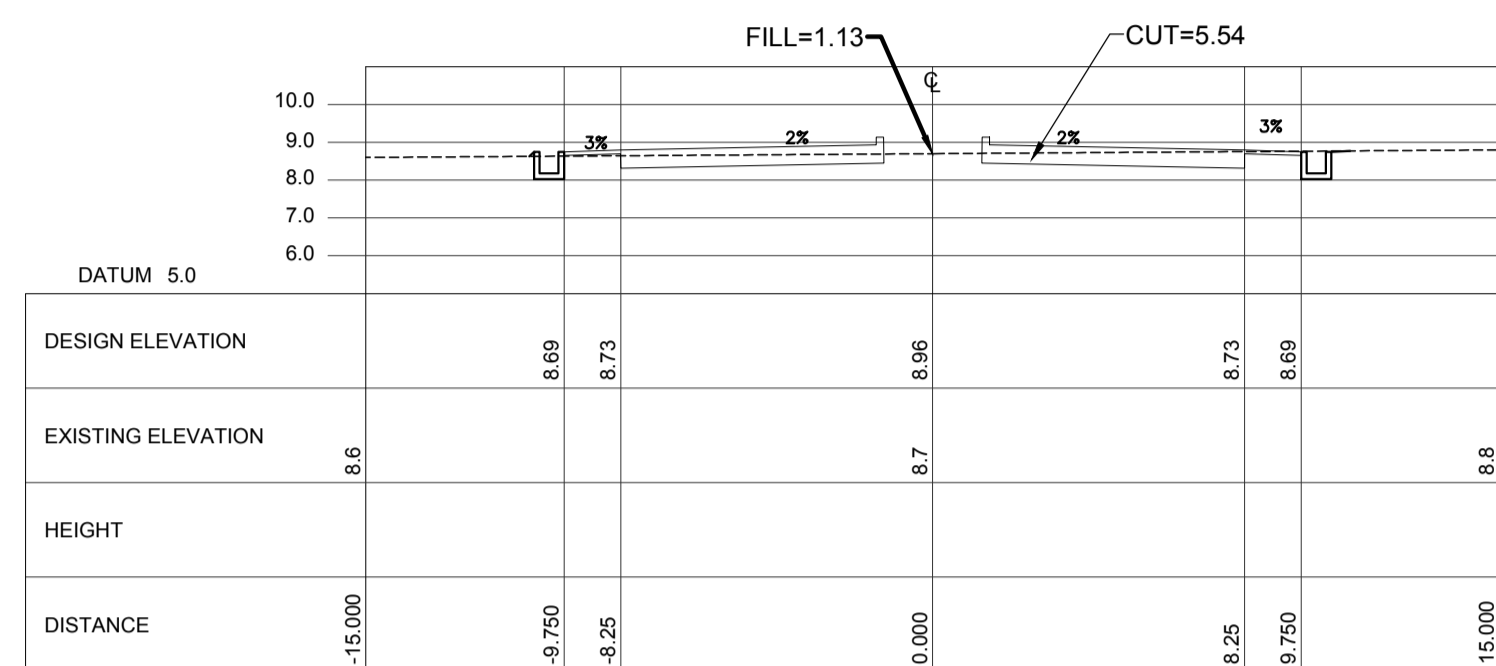
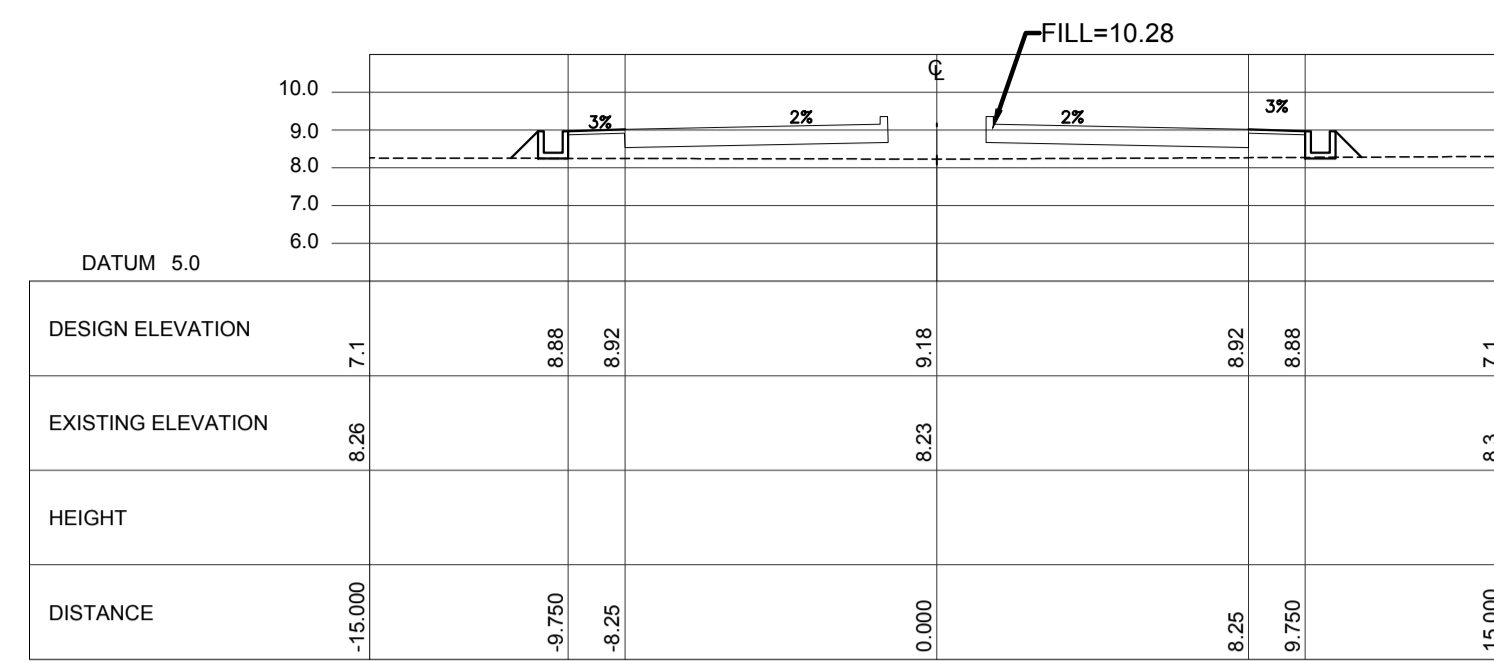
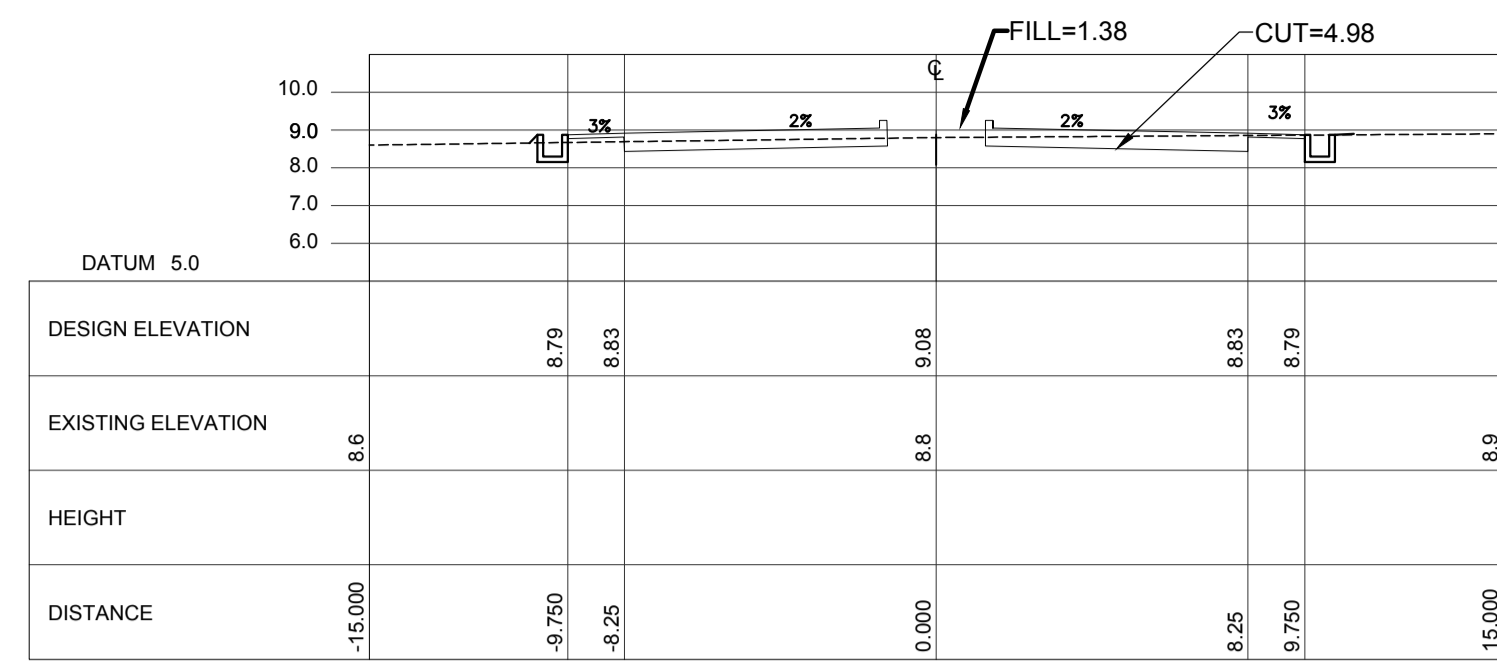
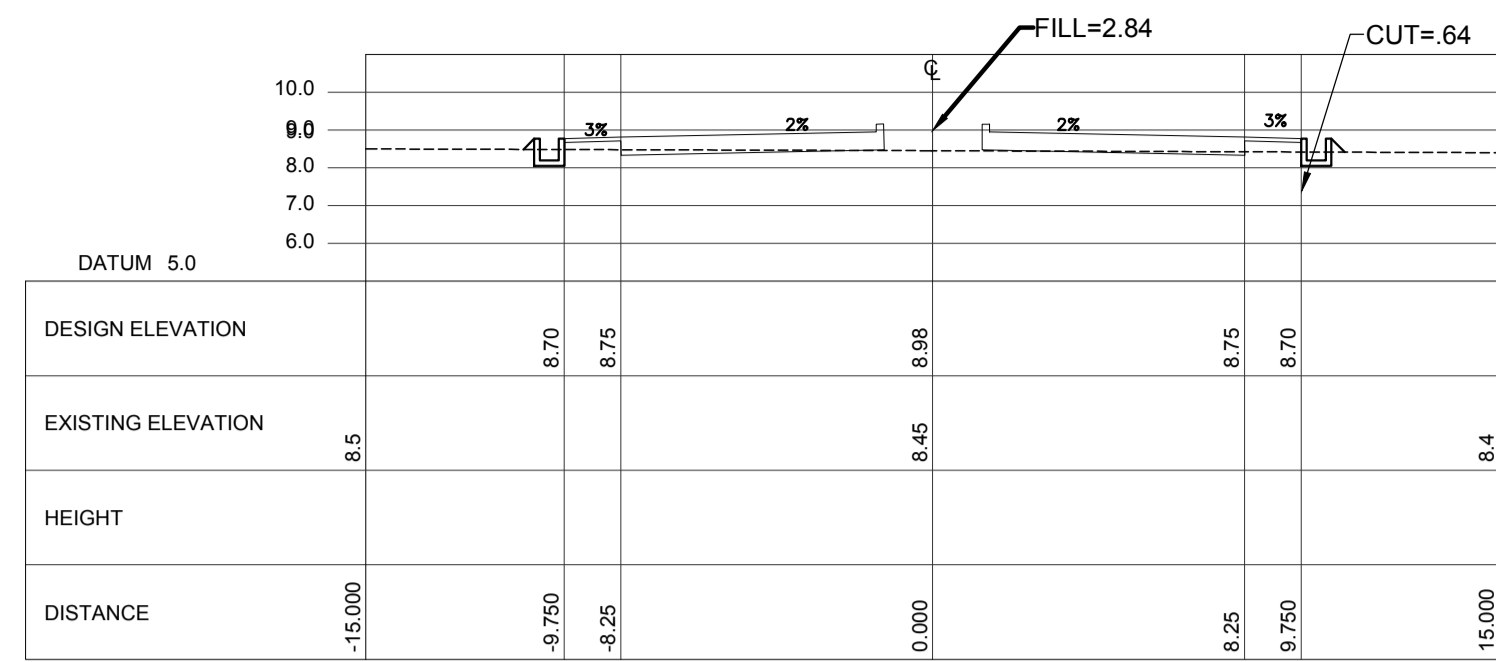
RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR.
 Assistant Secretary for Project Implementation, DOTC

APPROVED: JULIANITO G. BUCAYAN, JR.
 Undersecretary for Project Implementation, DOTC

PROJECT TITLE:	NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT		
LOCATION:	MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES		
DATE:	JUNE 2013	INDEX:	
AMENDMENTS:		Prepared by:	WIM
		Checked by:	HC
		Validated by:	

SHEET CONTENTS:
 COMPONENT-2 CIVIL WORKS (C)
 SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
 ACCESS ROAD CROSS SECTION (3)

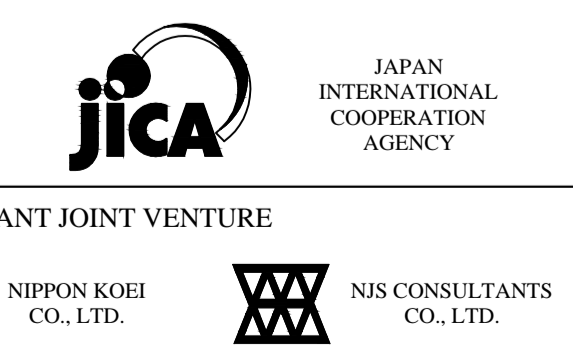
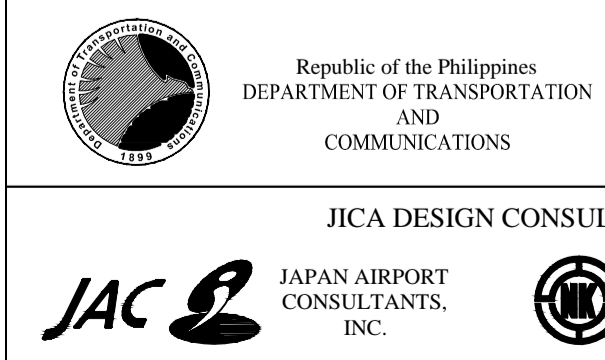
SHEET NO: C1-2100-11
 DRAWING SCALE: AS SHOWN



ACCESS ROAD CROSS SECTION Sta. 0+900 ~Sta. 1+180

VERTICAL SCALE 1:5000 m. HORIZONTAL SCALE 1:5000 m.

LEGEND:
 - - - - -
 - - - - -



PREPARED BY:
ERACIO T. PATDU
 CIVIL ENGINEER
 TADASHI AOI
 Team Leader

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
 Assistant Secretary
 for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
 Undersecretary
 for Project Implementation, DOTC

PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

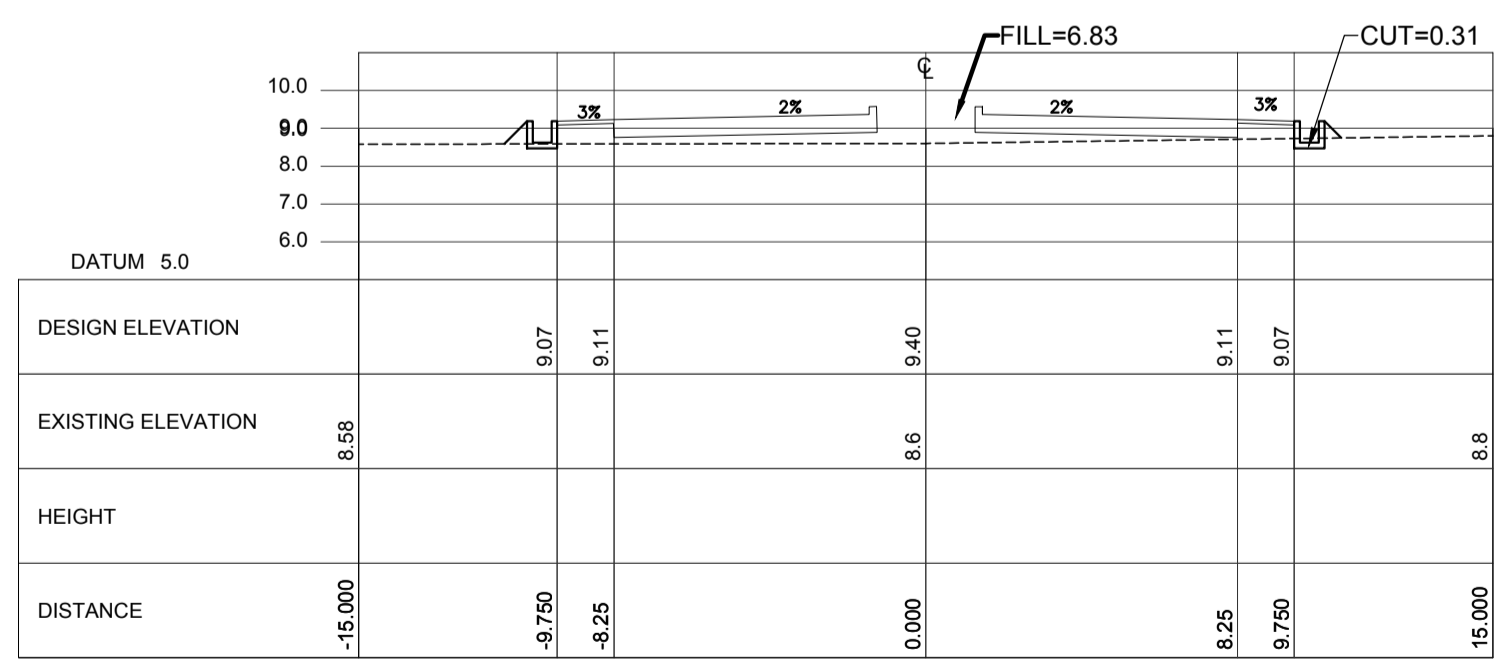
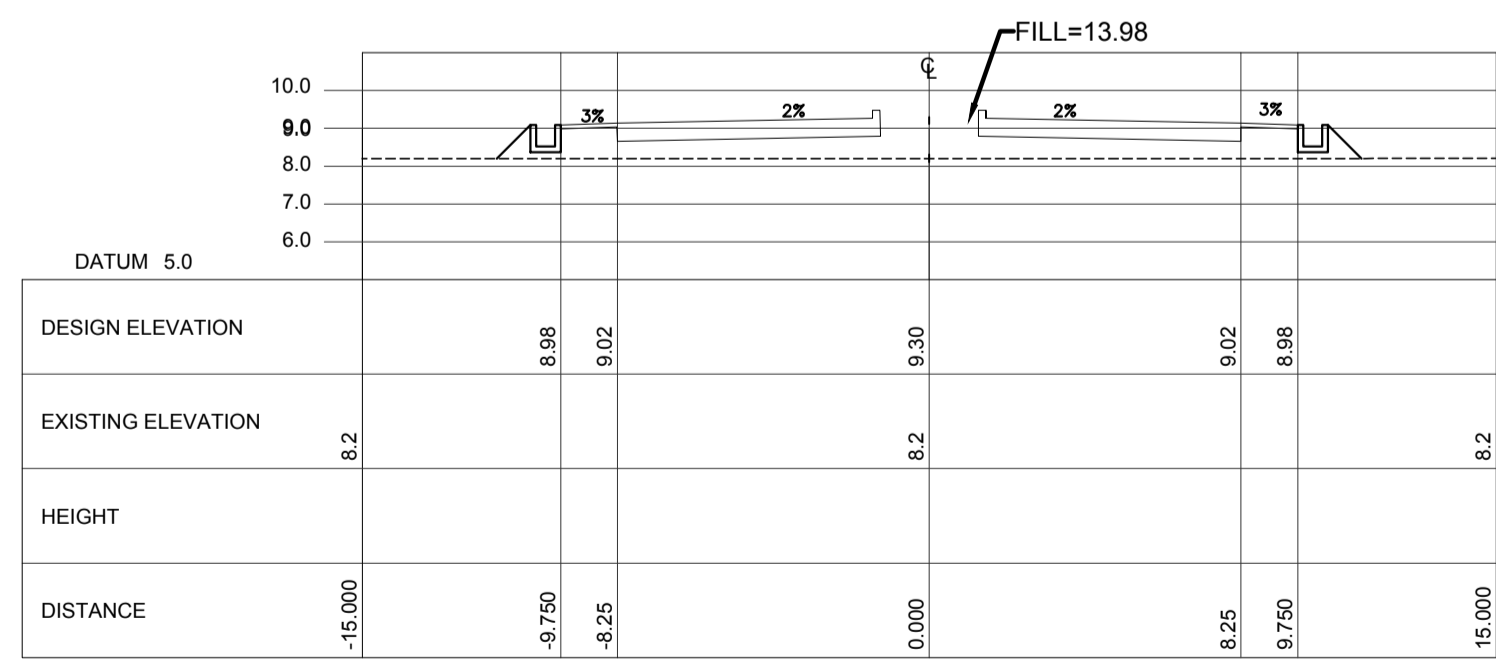
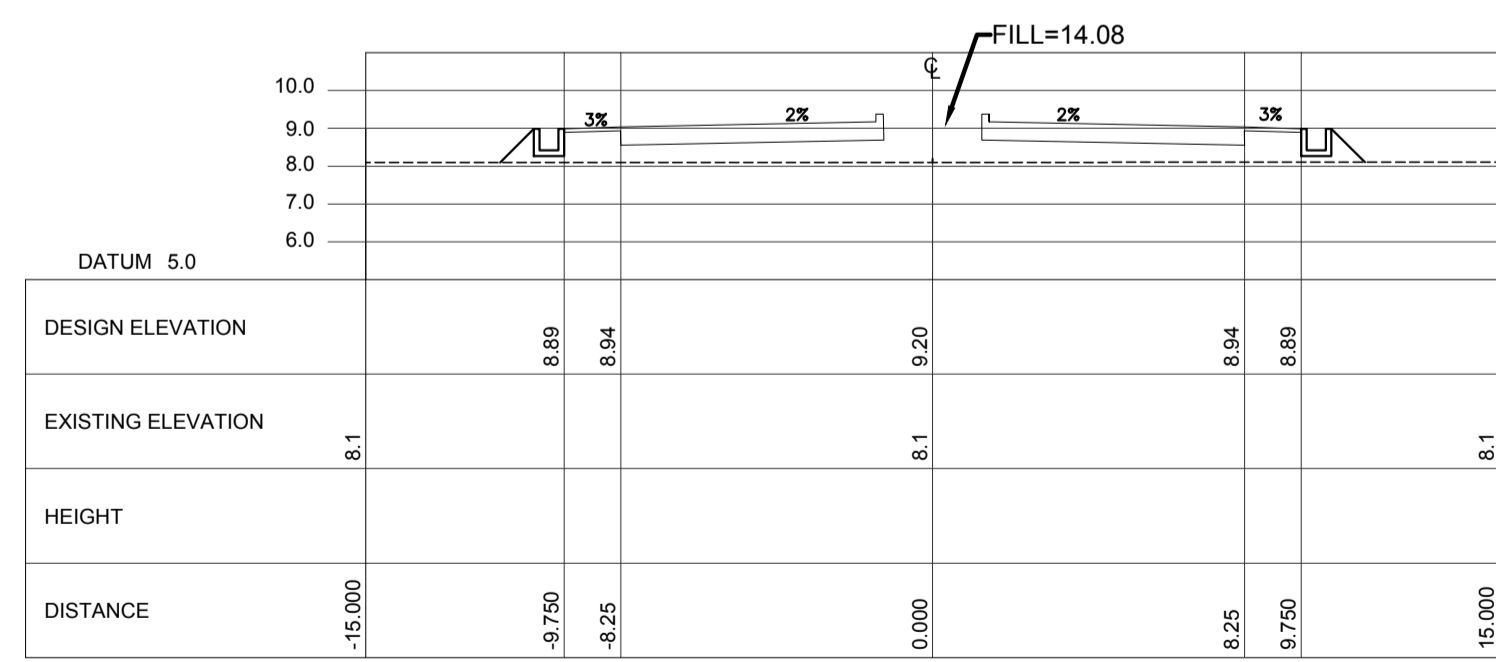
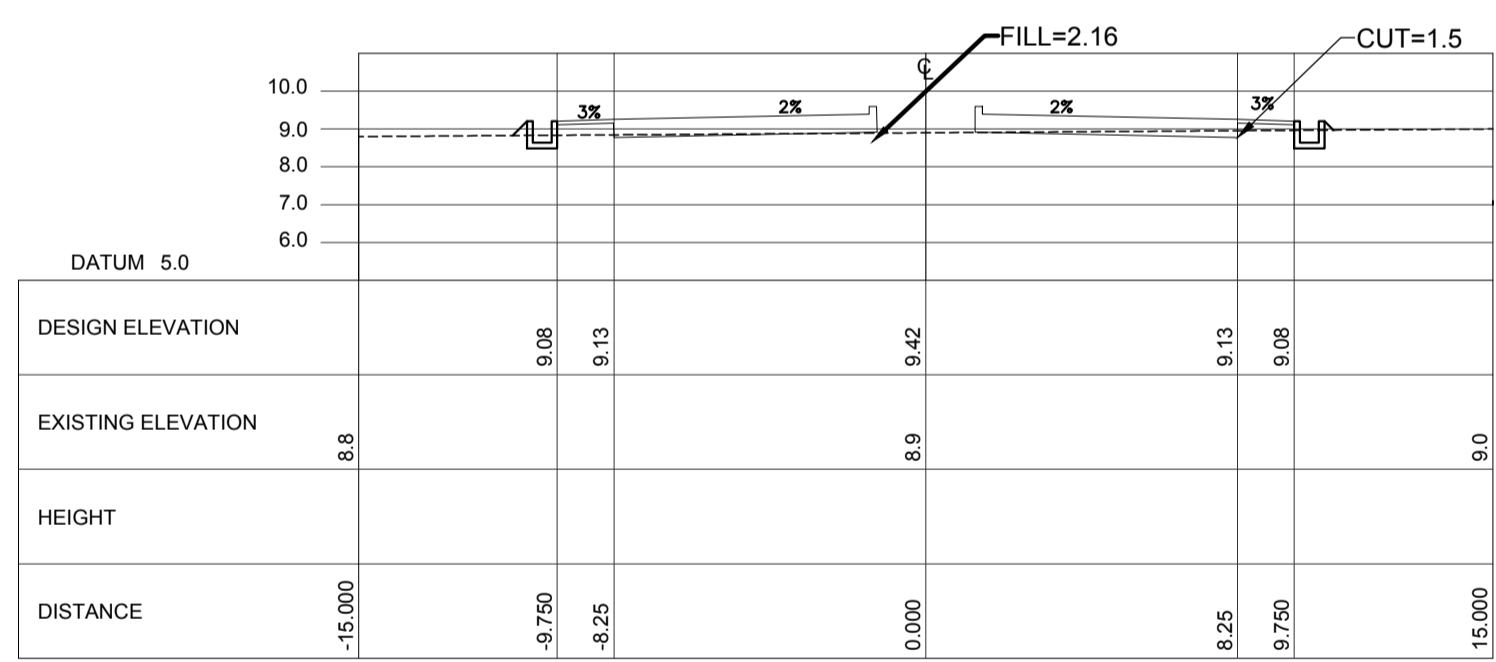
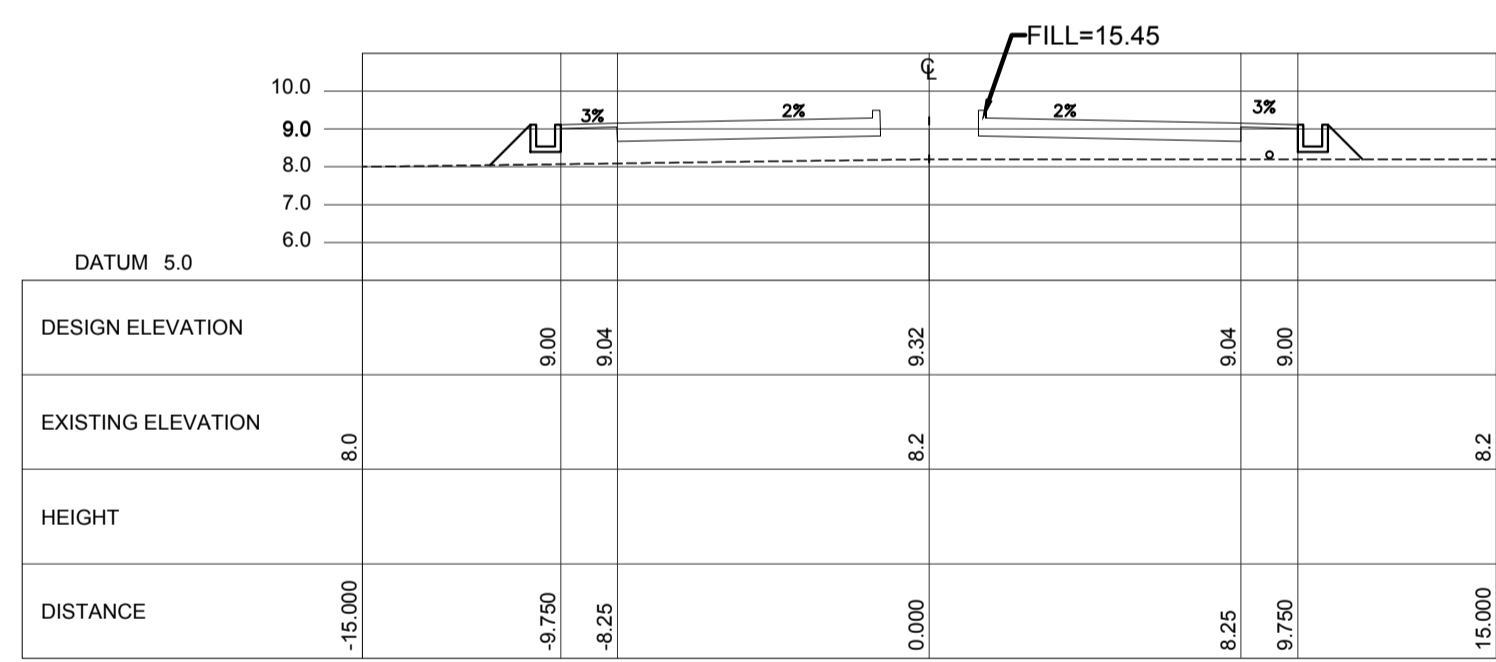
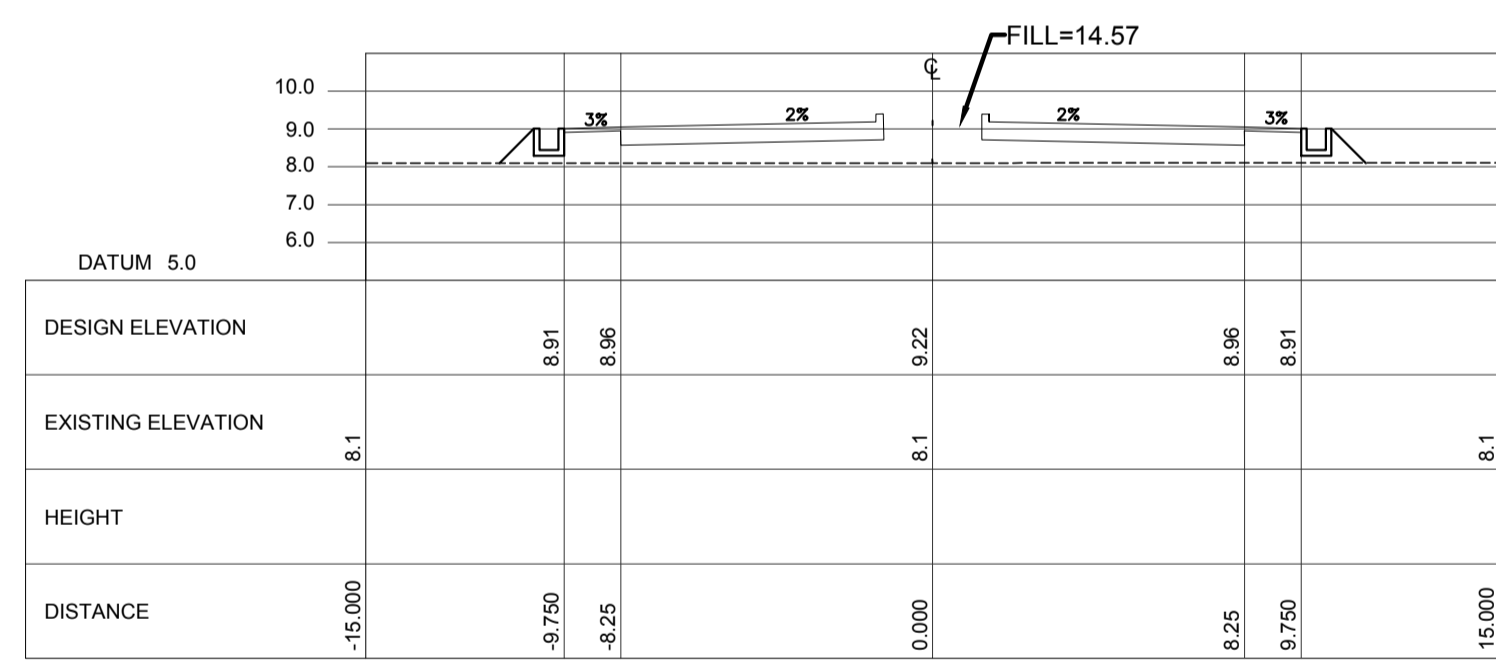
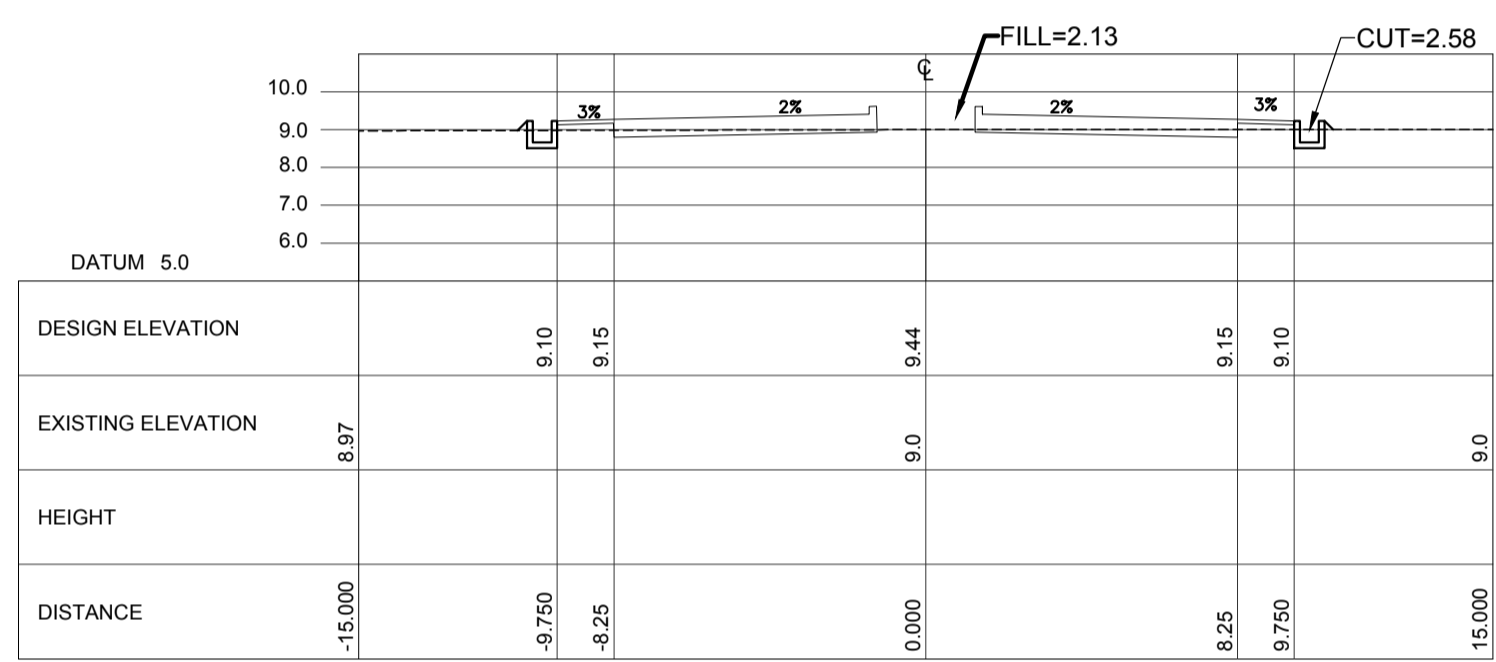
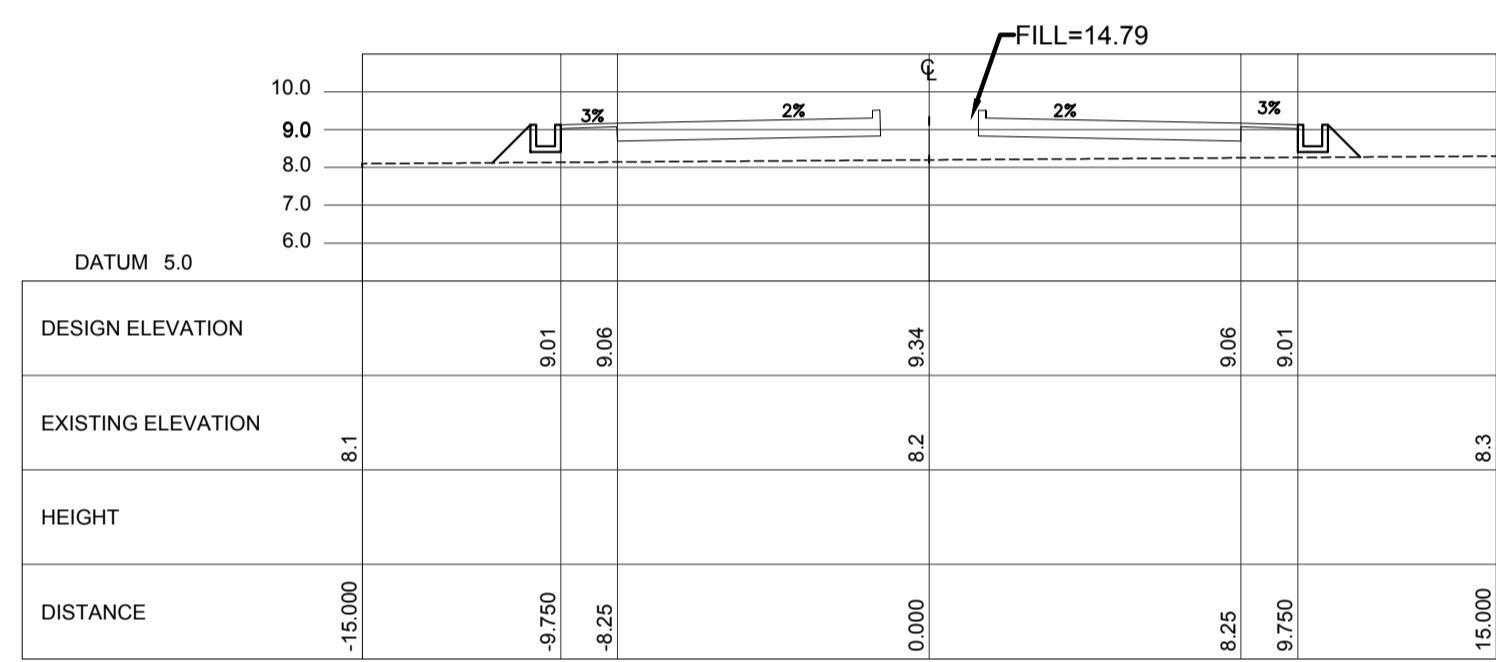
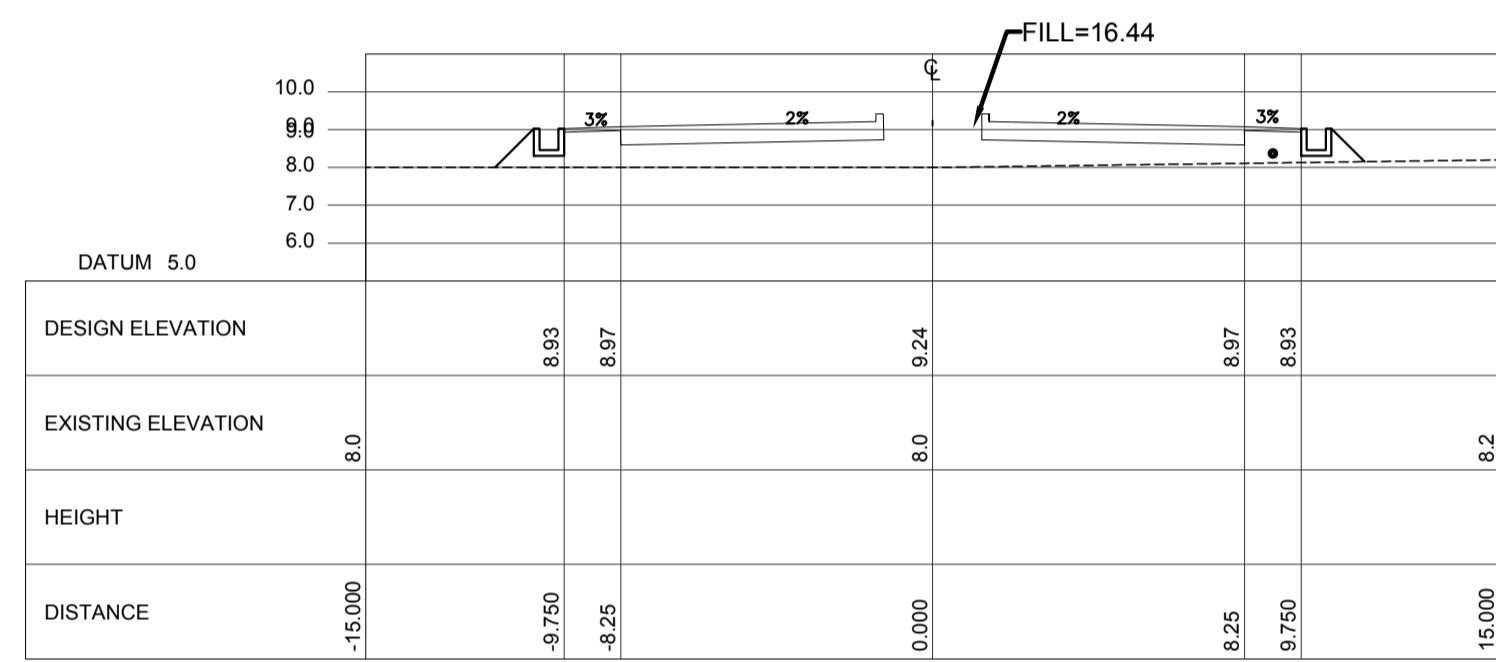
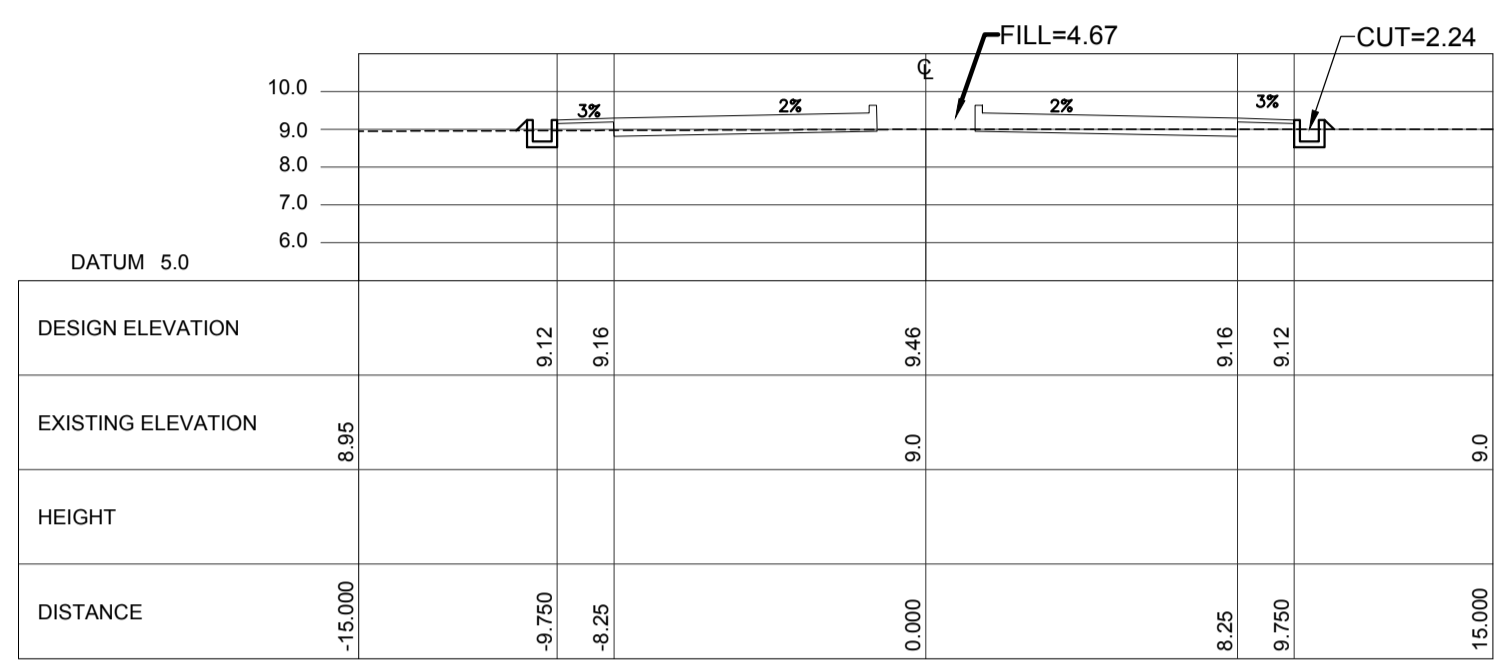
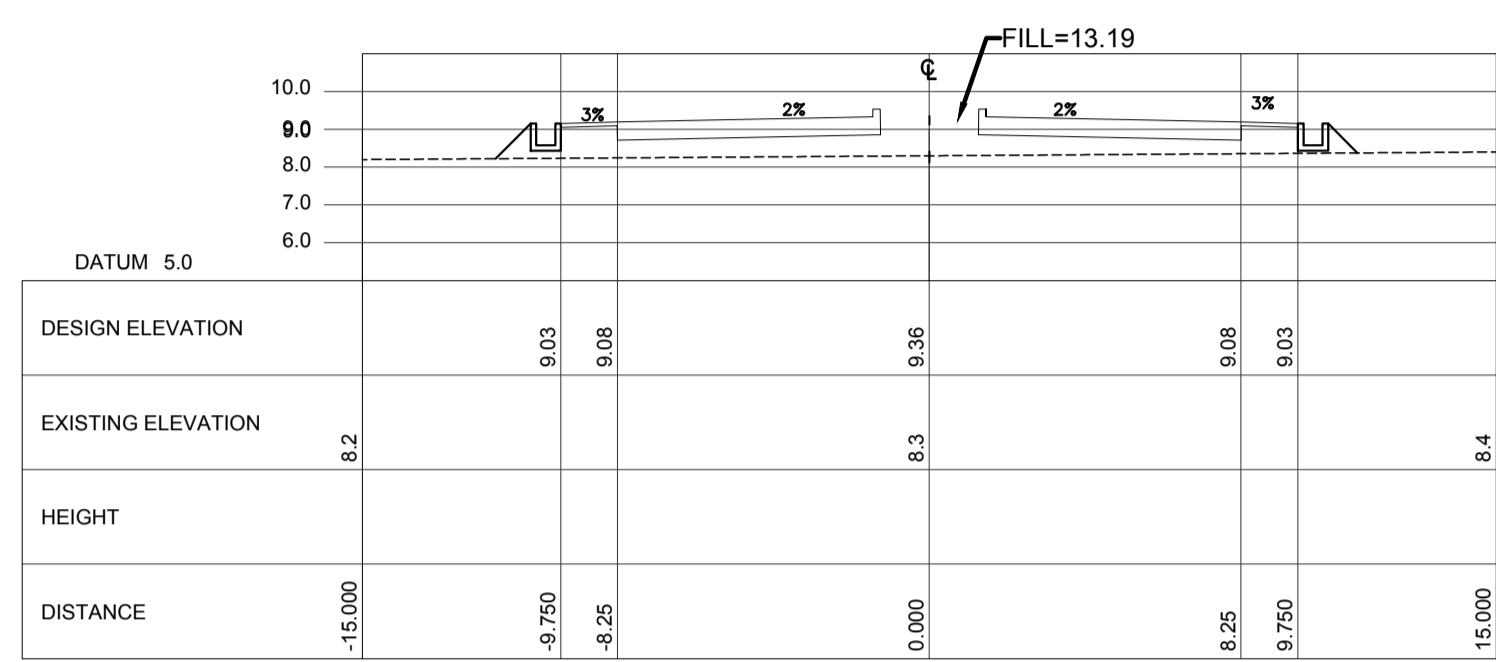
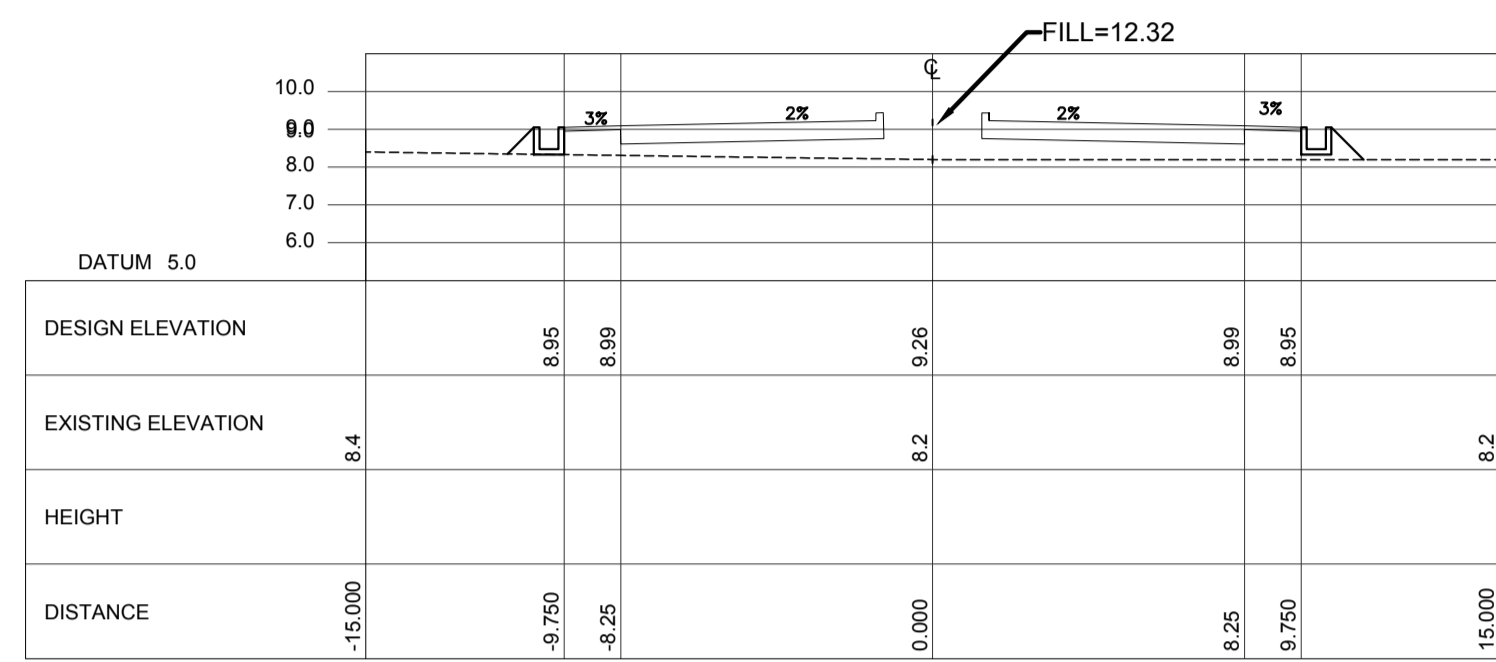
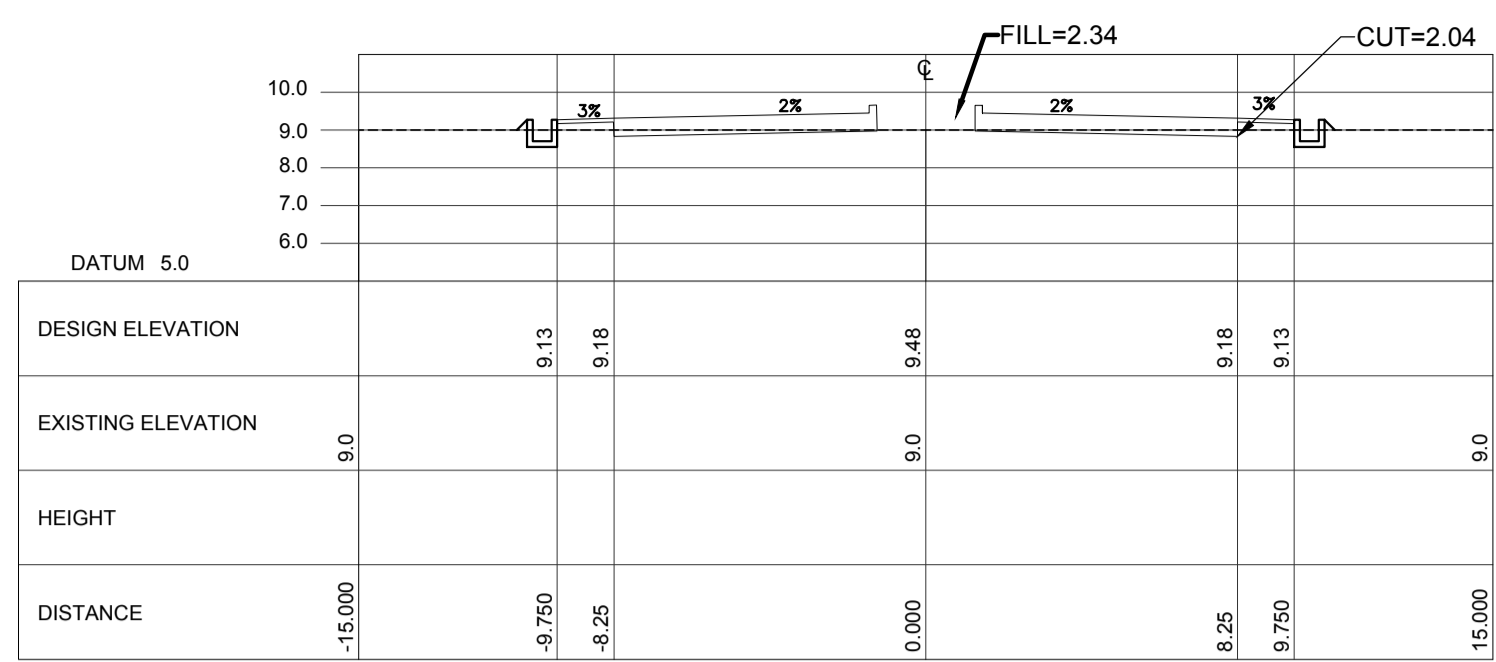
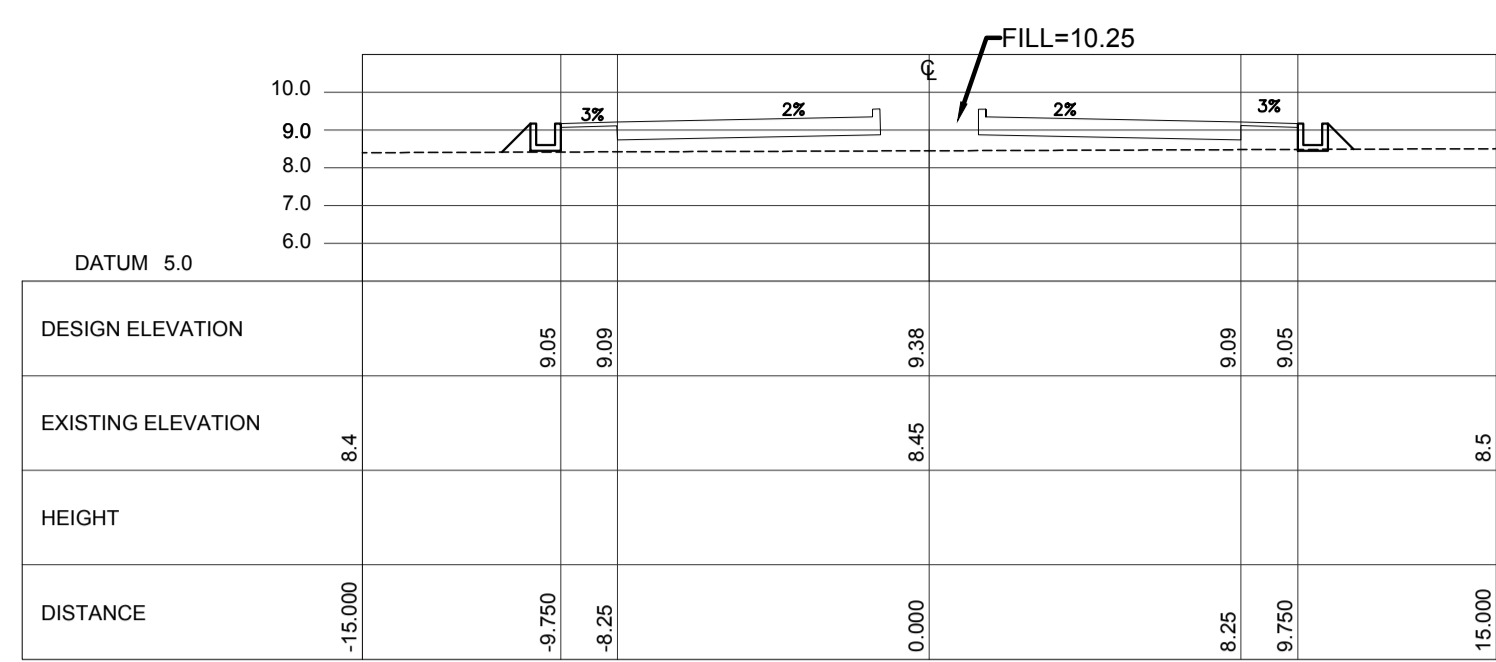
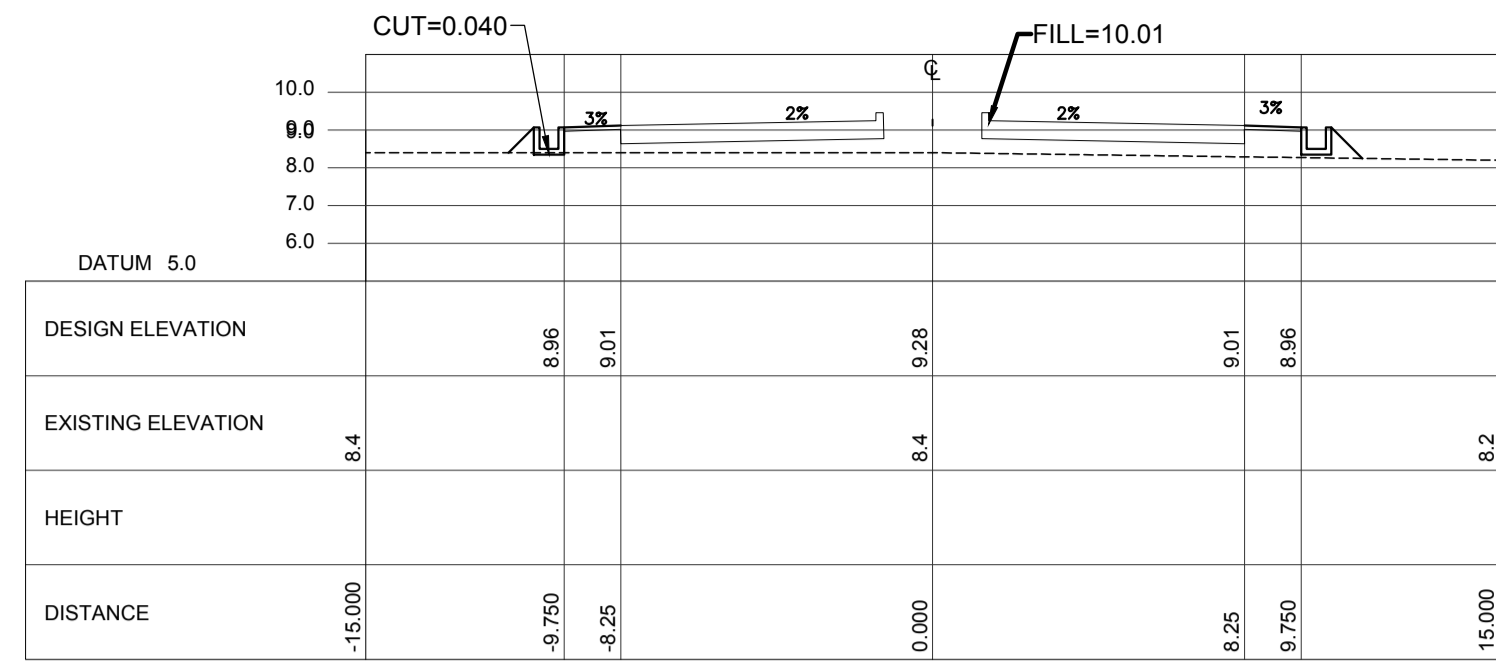
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

SHEET CONTENTS:
 COMPONENT-2 CIVIL WORKS (C)
 SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
 ACCESS ROAD CROSS SECTION (4)

SHEET NO:
C1-2100-12

DRAWING SCALE:
 AS SHOWN

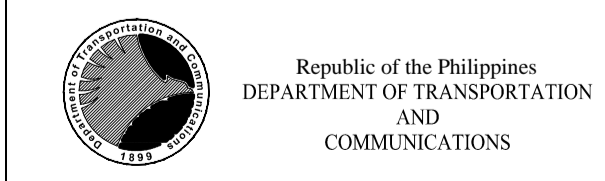
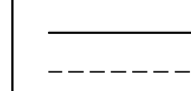


ACCESS ROAD CROSS SECTION Sta. 1+200 ~Sta. 1+480

1
C1-2100-13
SCALE

VERTICAL 1:5000 m.
HORIZONTAL 1:5000 m.

LEGEND:



PREPARED BY:
ERACIO T. PATDU
PROF. CIVIL ENGINEER PIR. 3158241
REG. NO.: 34252 DATE: JULY 18, 2013
TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY
TADASHI AOI
Team Leader

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
Assistant Secretary
for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
Undersecretary
for Project Implementation, DOTC

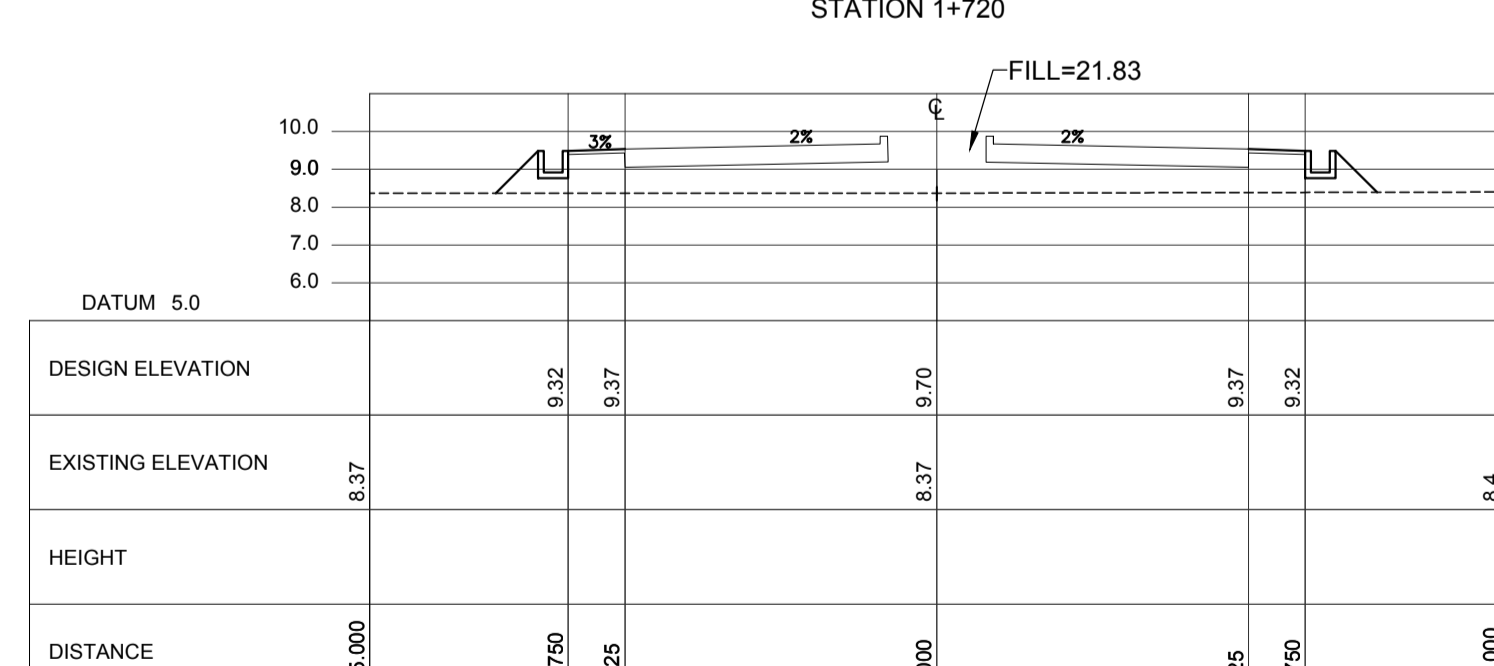
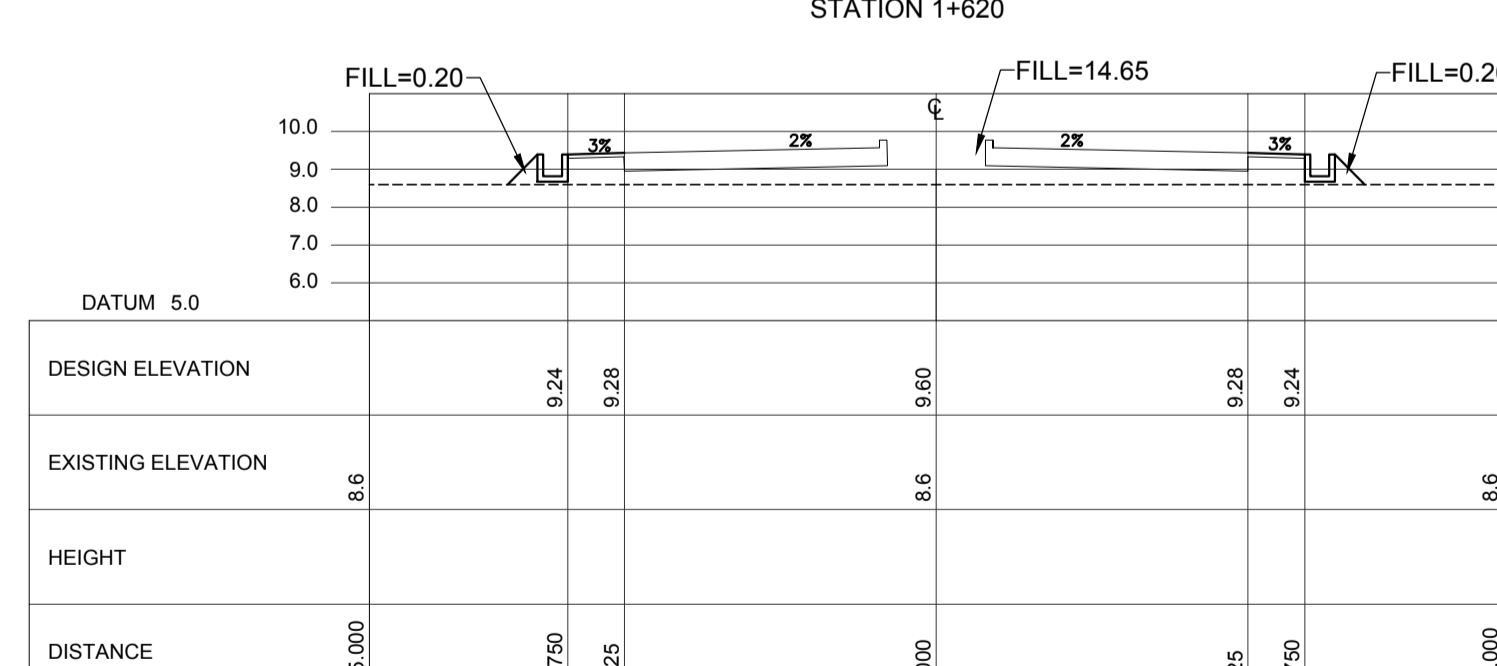
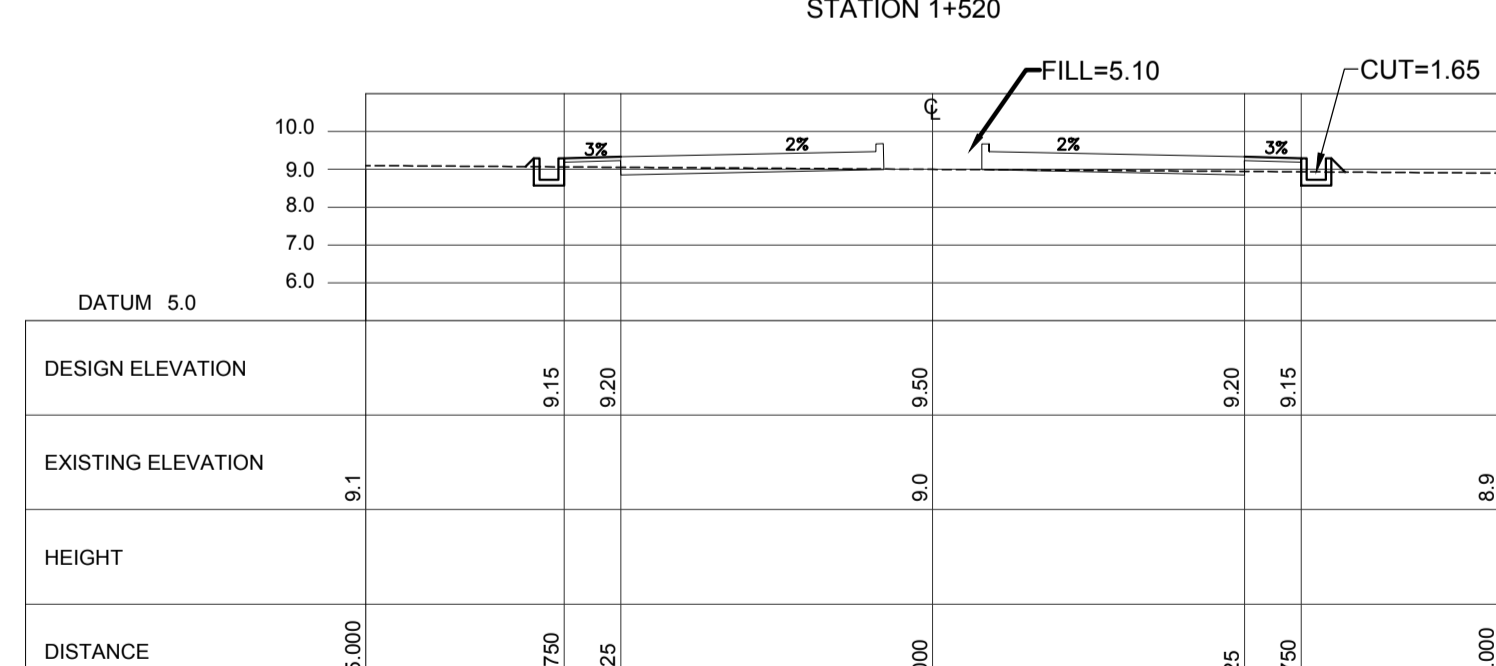
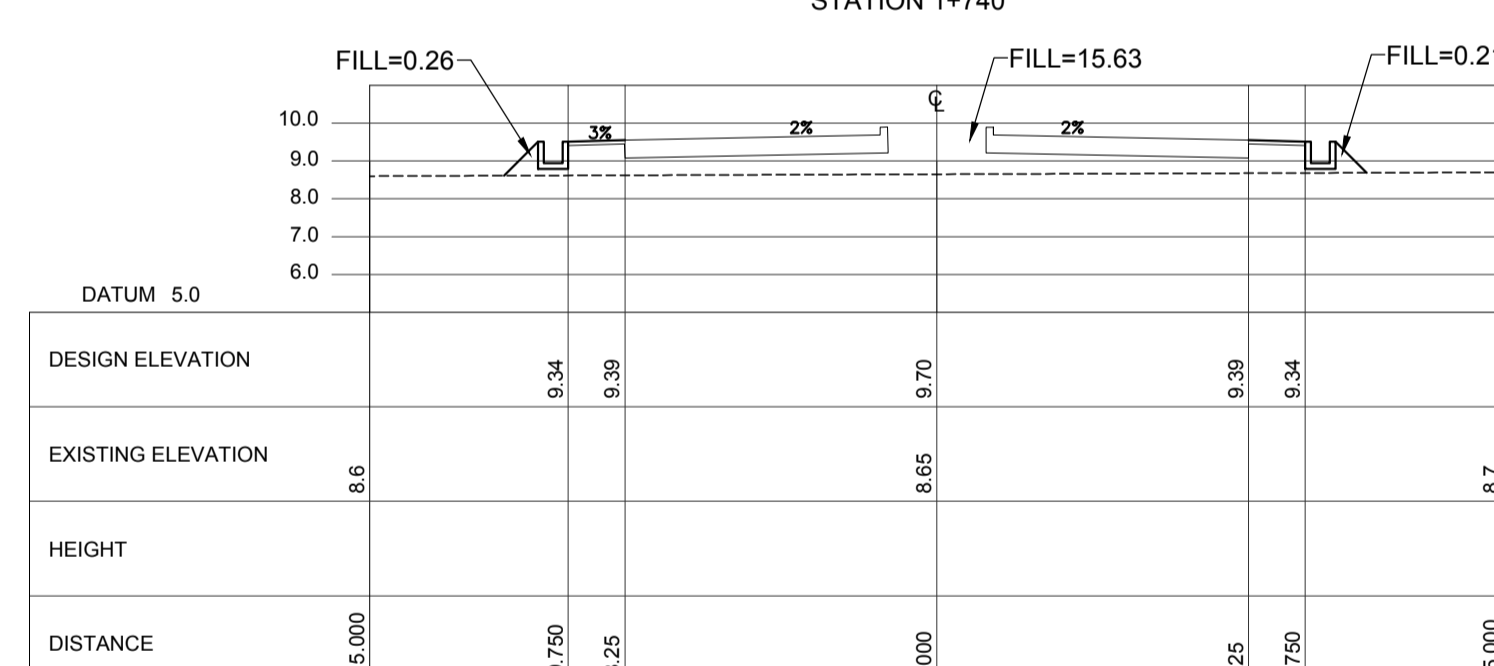
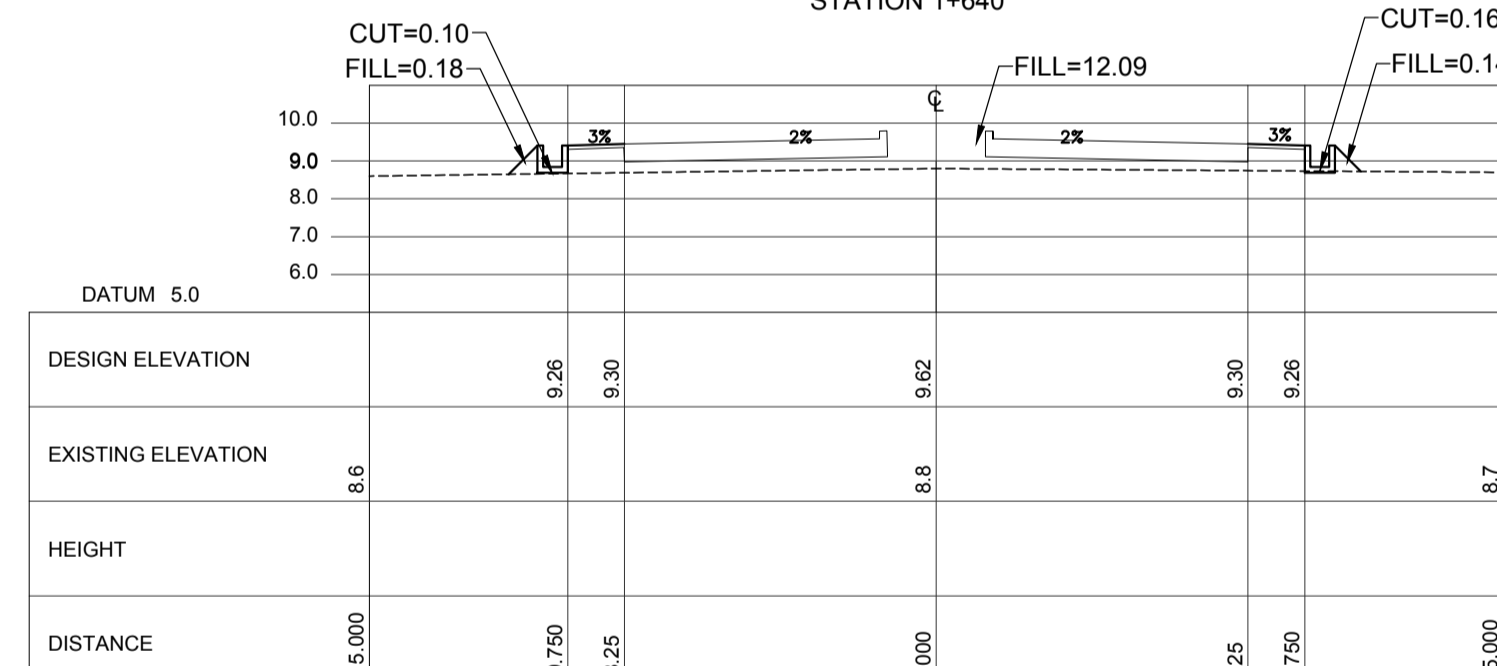
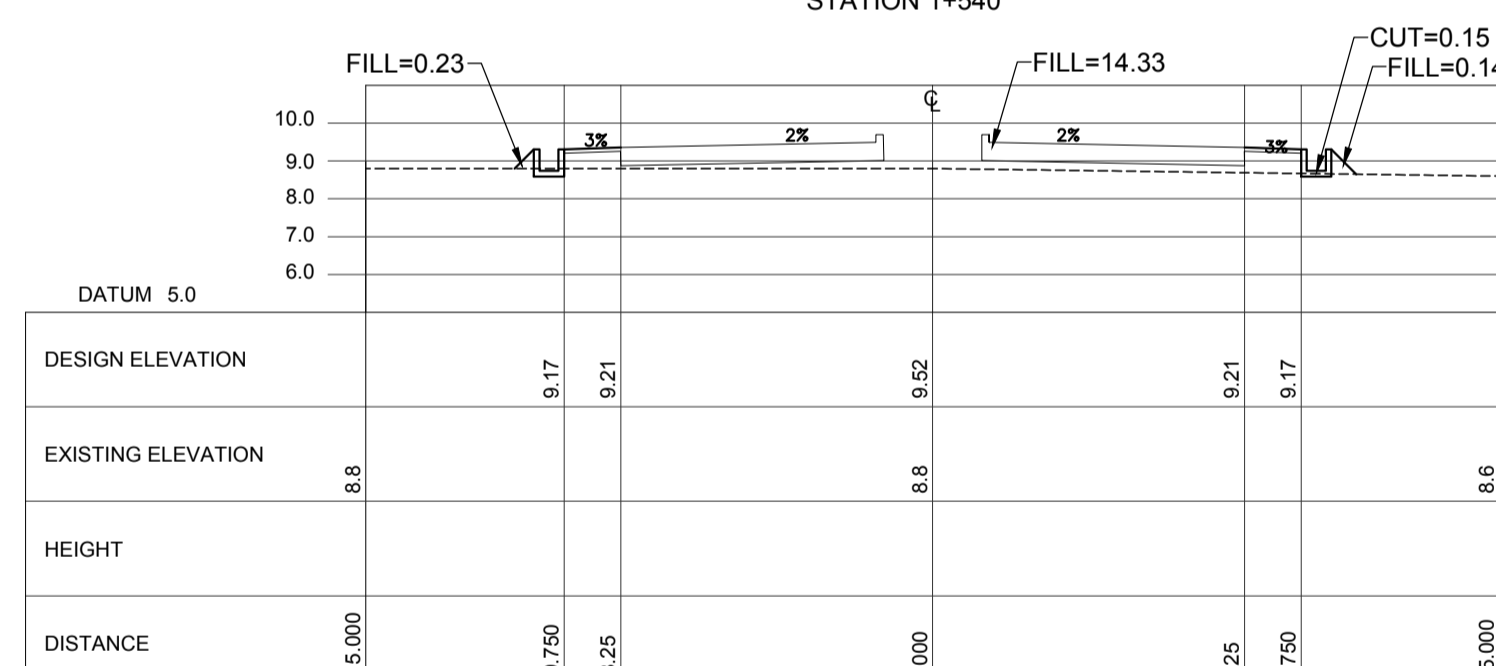
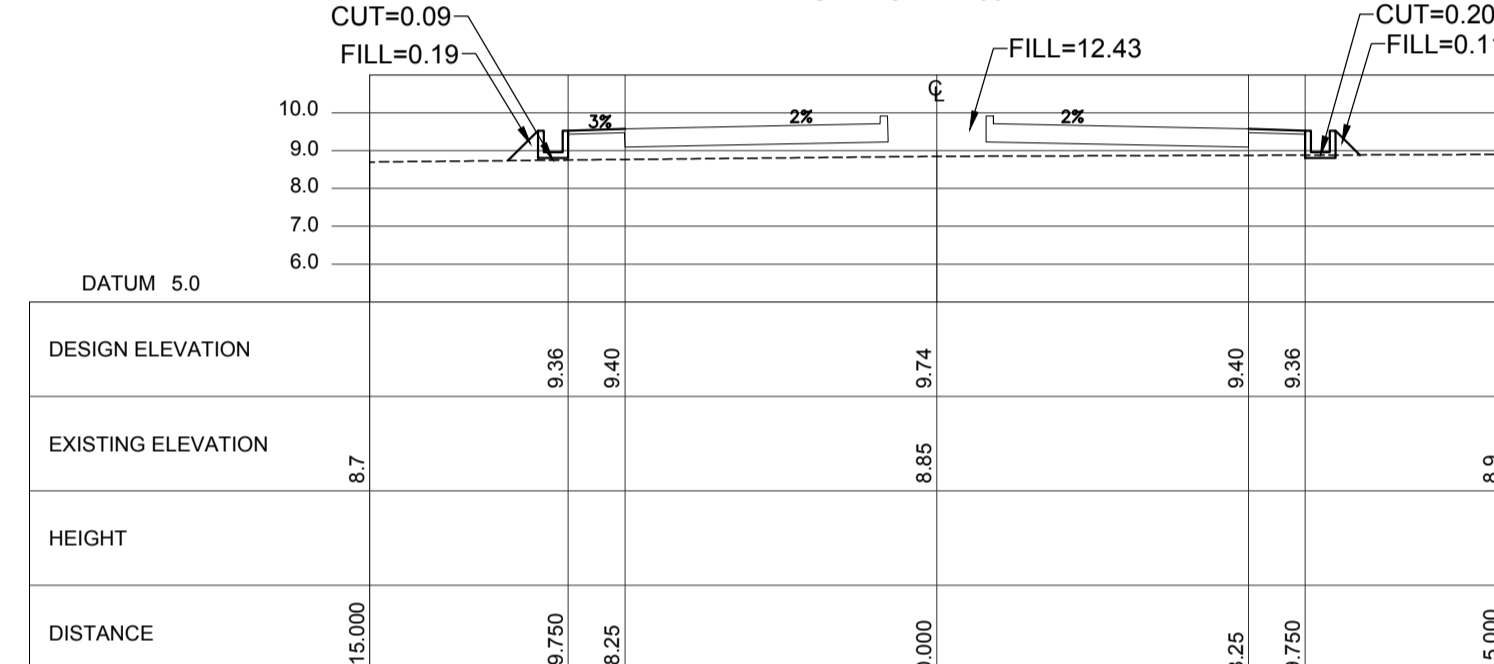
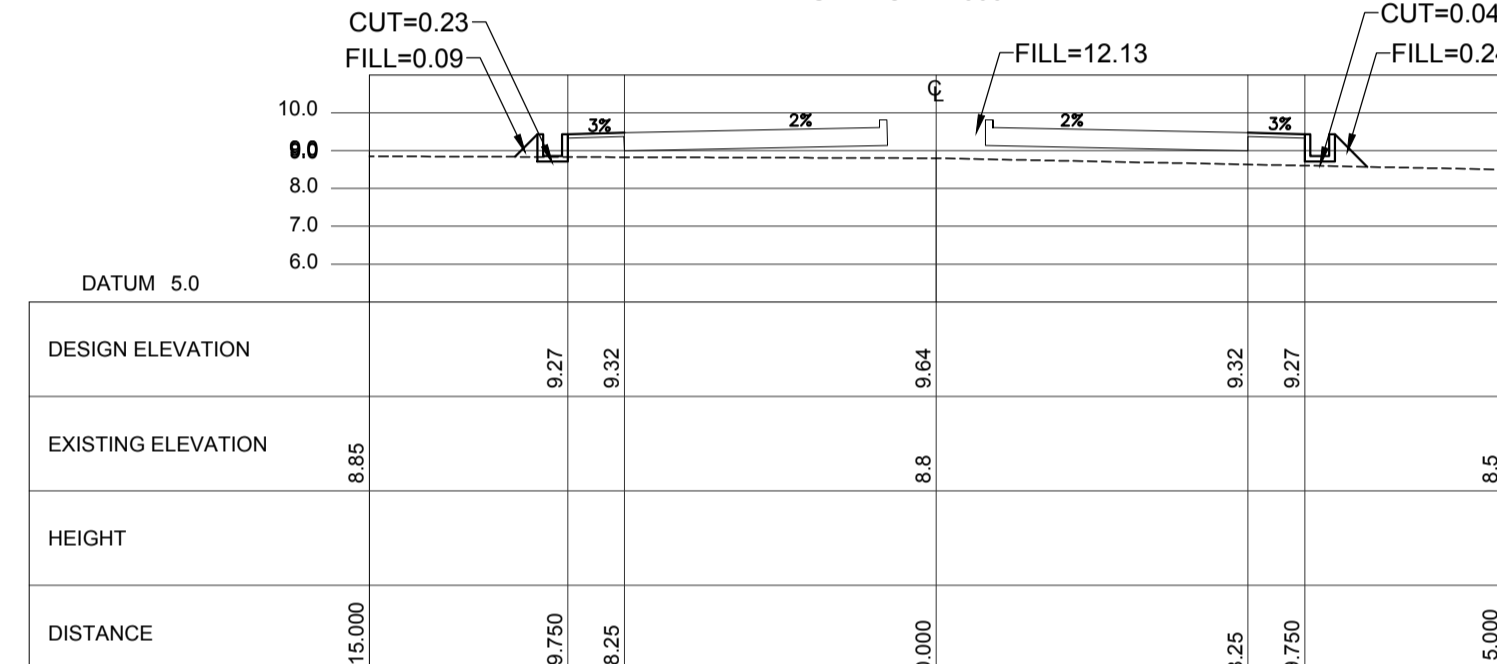
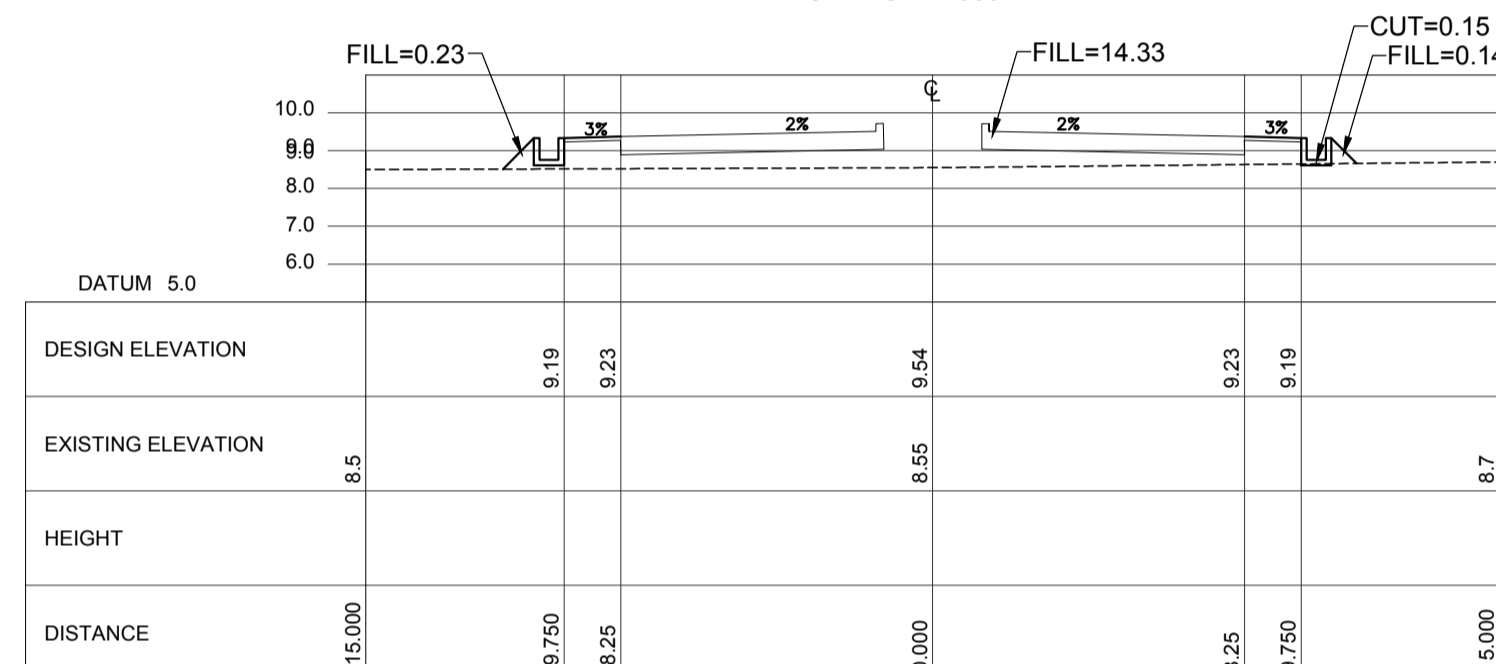
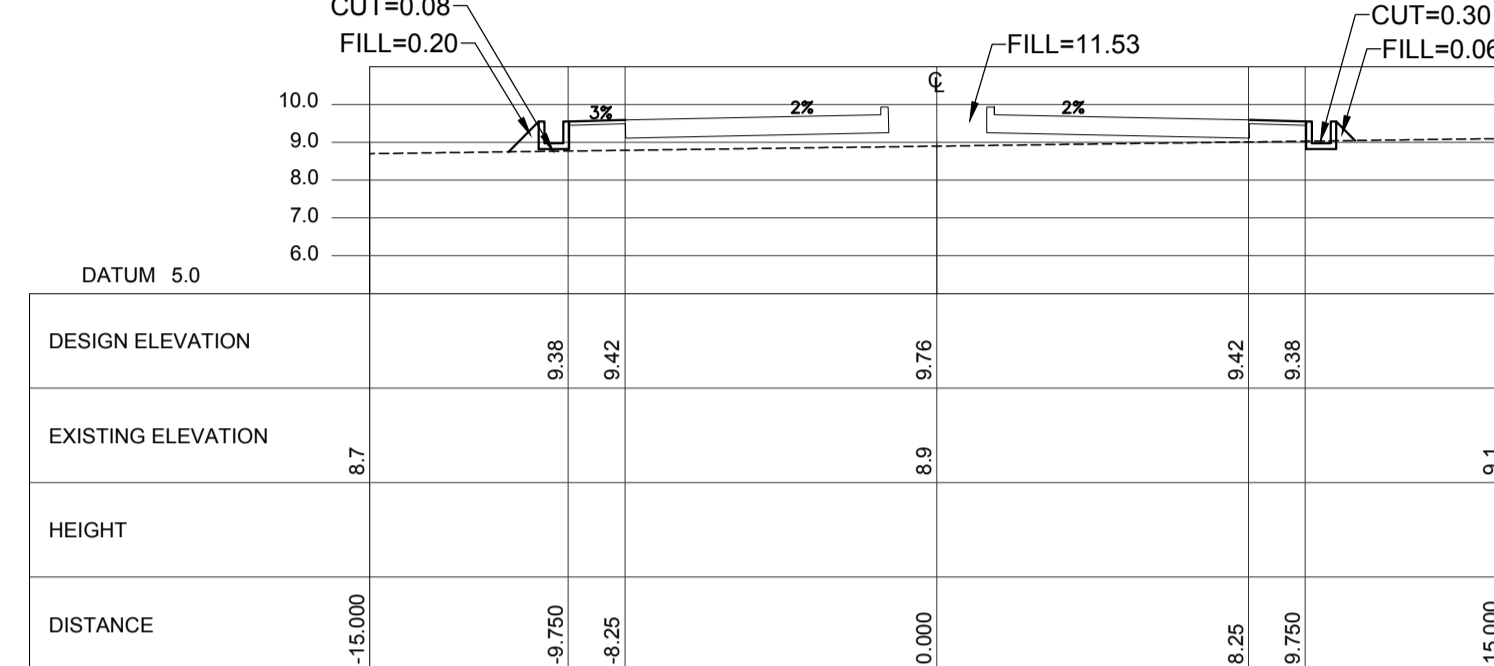
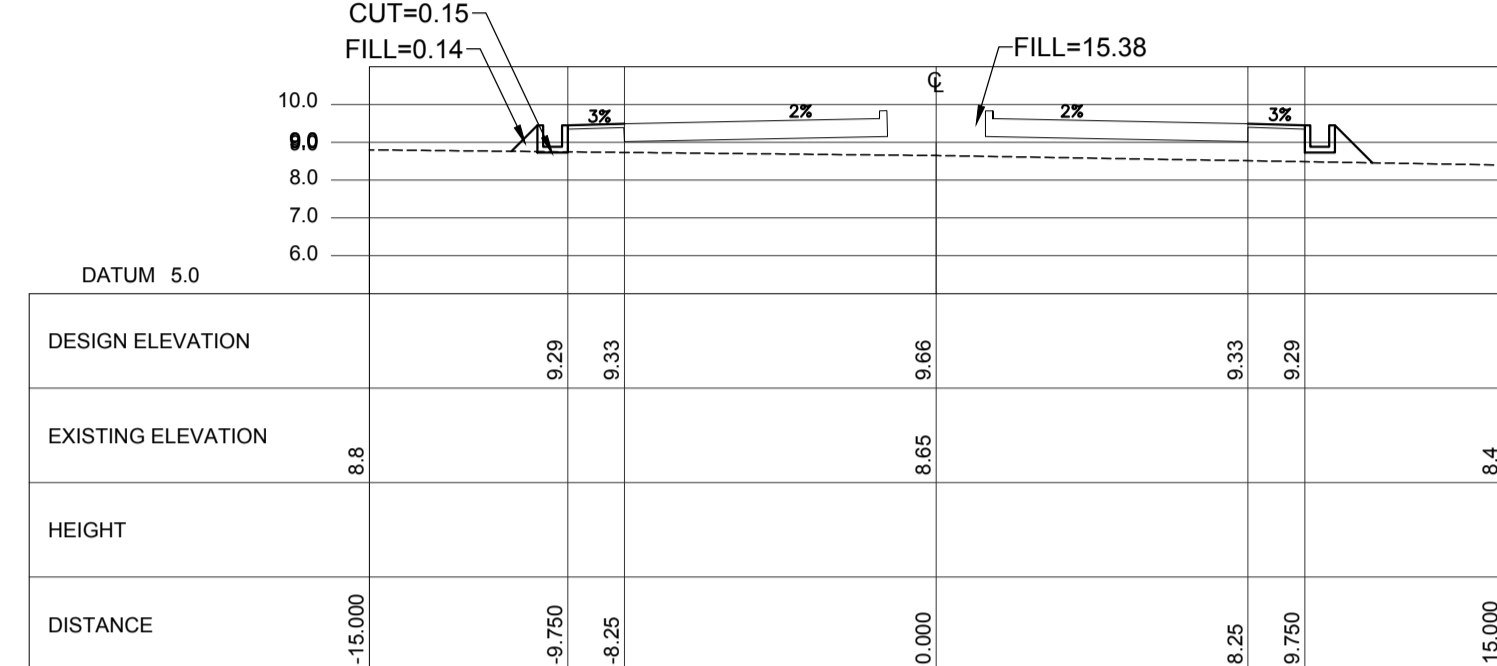
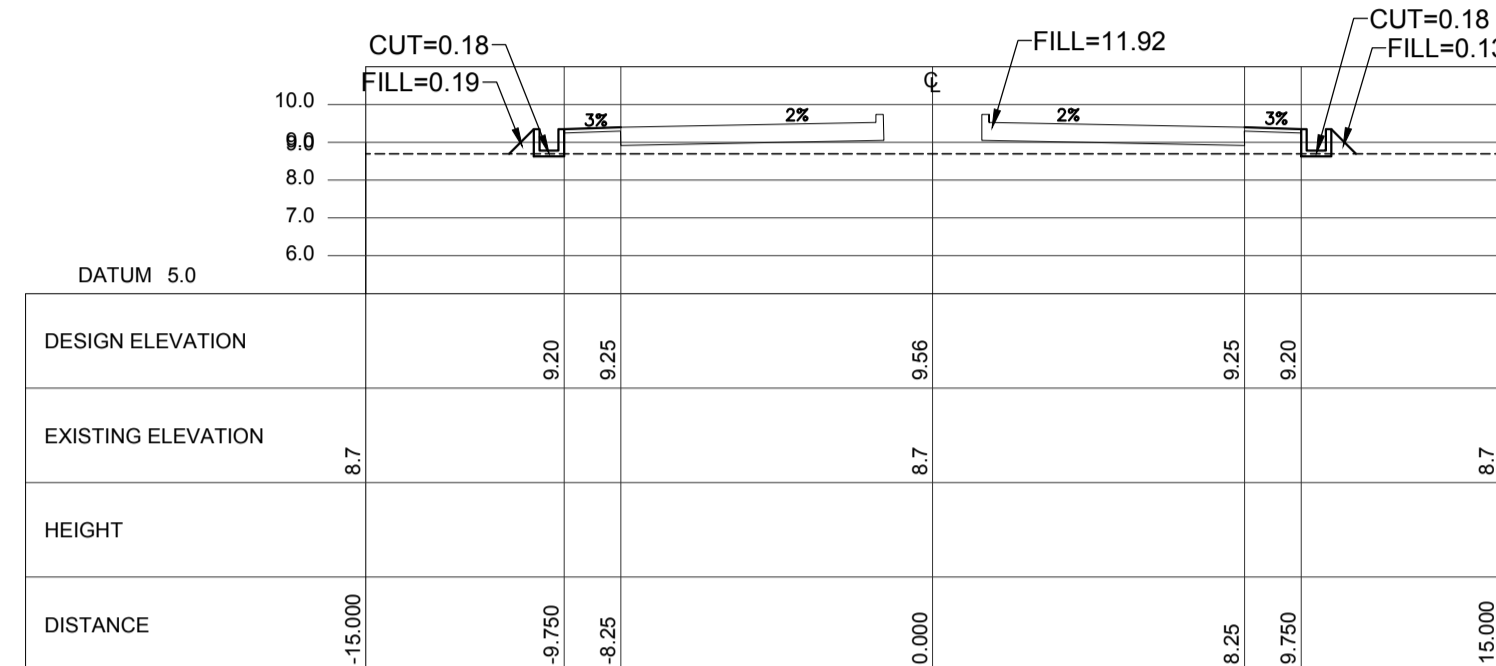
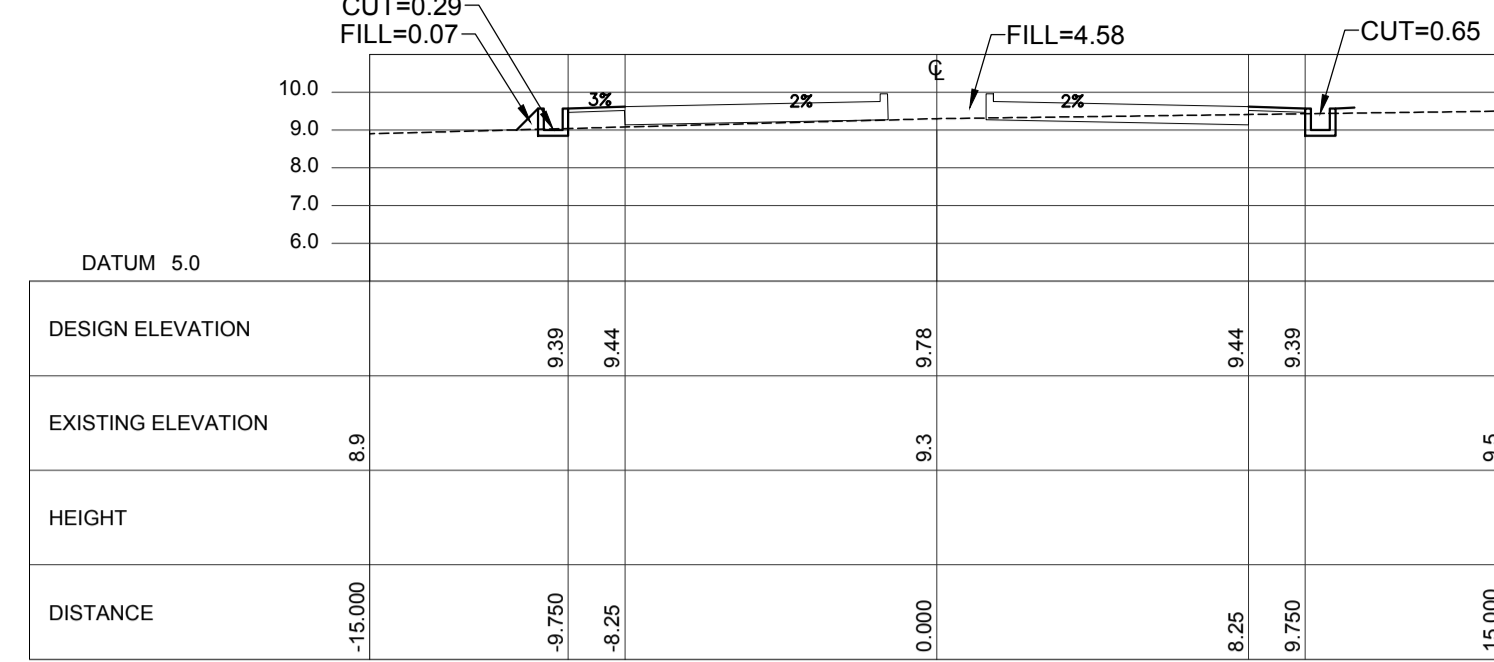
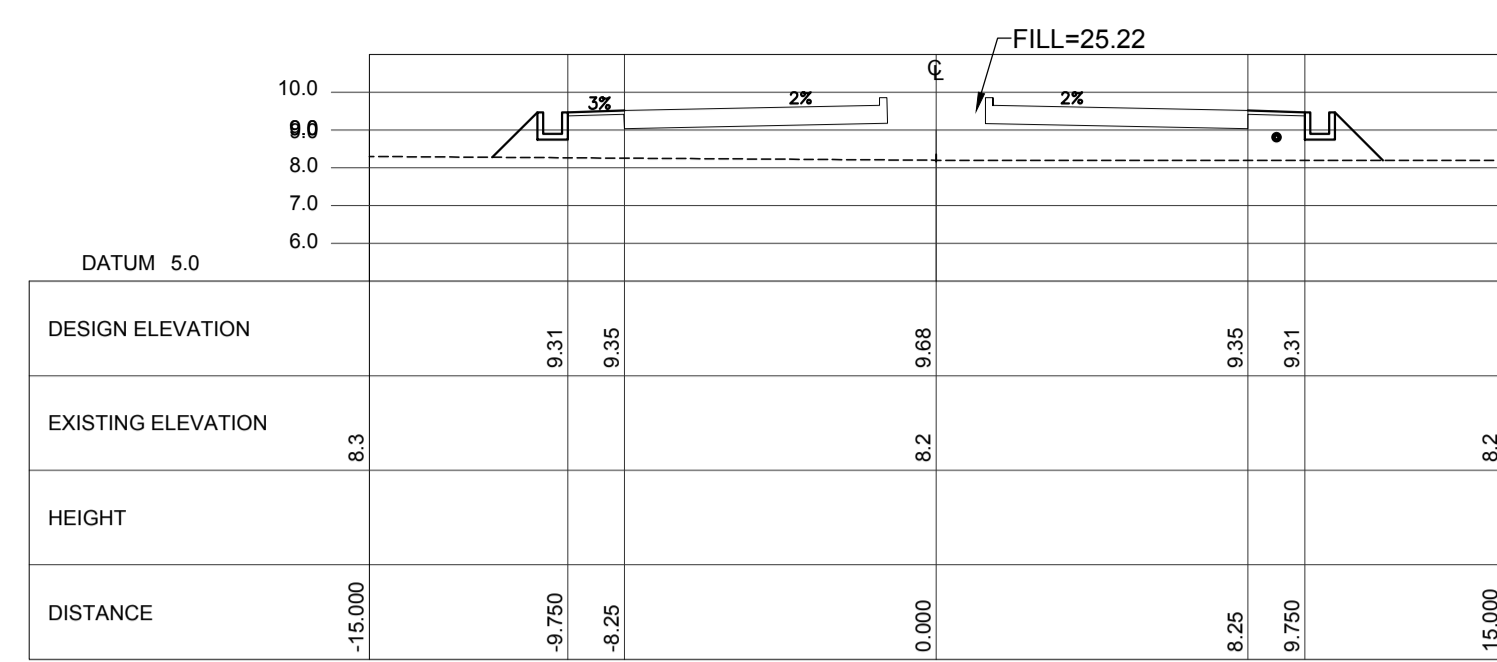
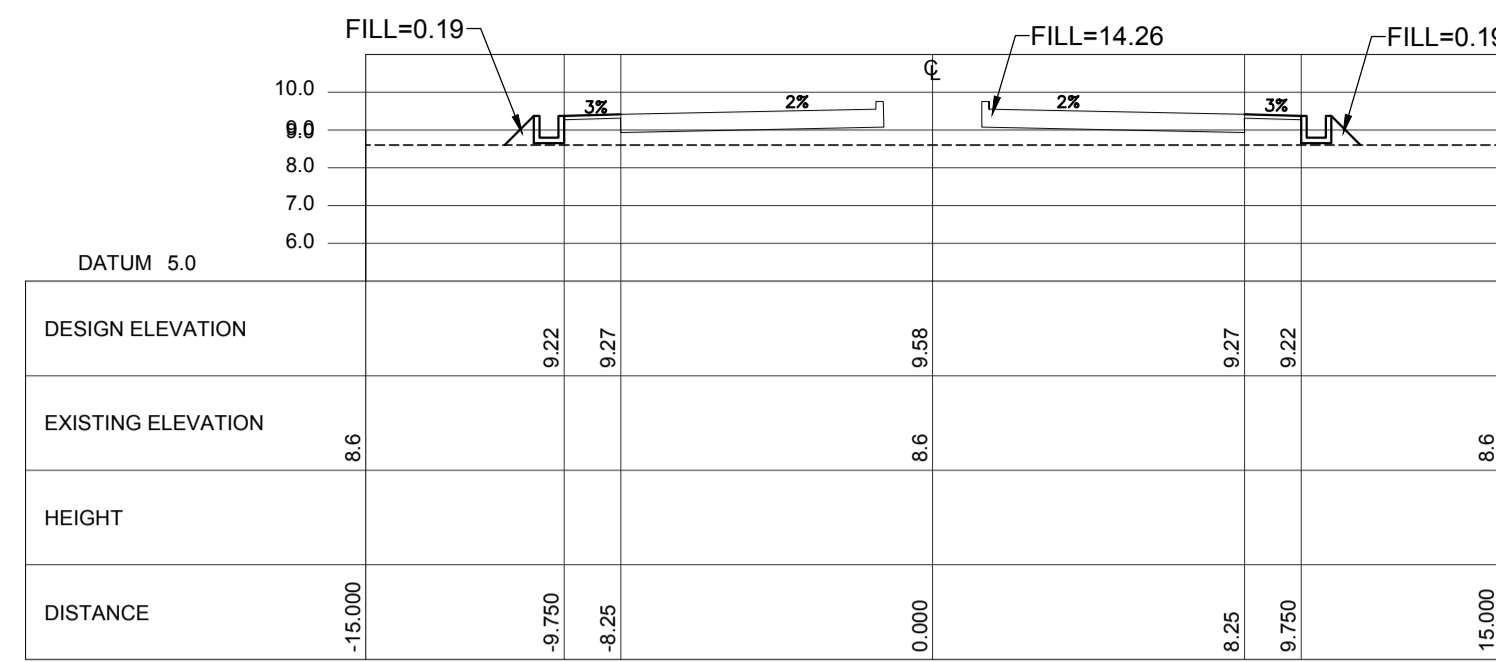
PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

SHEET CONTENTS:
COMPONENT-2 CIVIL WORKS (C)
SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
ACCESS ROAD CROSS SECTION (5)

SHEET NO:
C1-2100-13
DRAWING SCALE:
AS SHOWN



ACCESS ROAD CROSS SECTION Sta. 1+500 ~Sta. 1+780

VERTICAL SCALE: 1:5000 m. HORIZONTAL SCALE: 1:5000 m.

LEGEND:

---	---
-----	-----



PREPARED BY: ERACIO T. PATDU
 PROF: CIVIL ENGINEER PIR. 3158241
 REG. NO.: 34252 DATE: JULY 18, 2013
 TEL: 199-699-561 PLACE: CAGAYAN DE ORO CITY
 TADASHI AOI
 Team Leader

RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR.
 Assistant Secretary for Project Implementation, DOTC

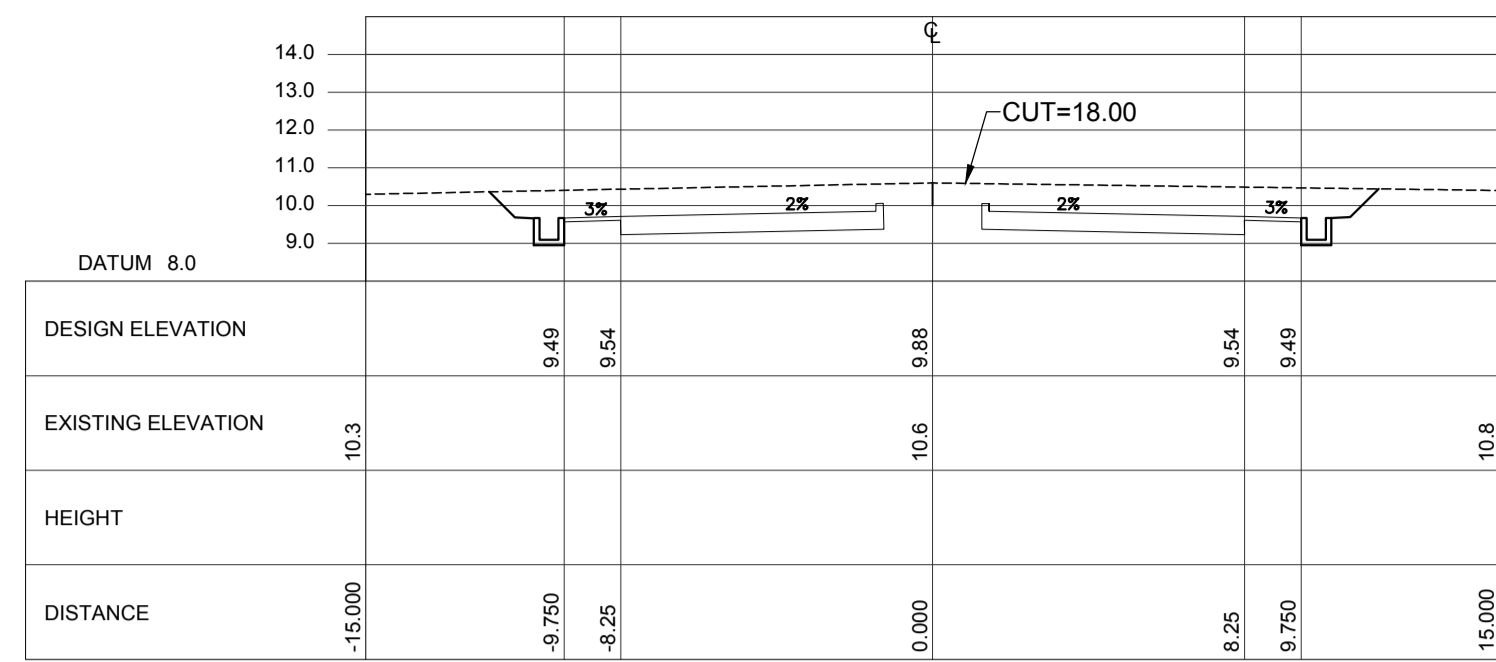
APPROVED: JULIANITO G. BUCAYAN, JR.
 Undersecretary for Project Implementation, DOTC

PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT
 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

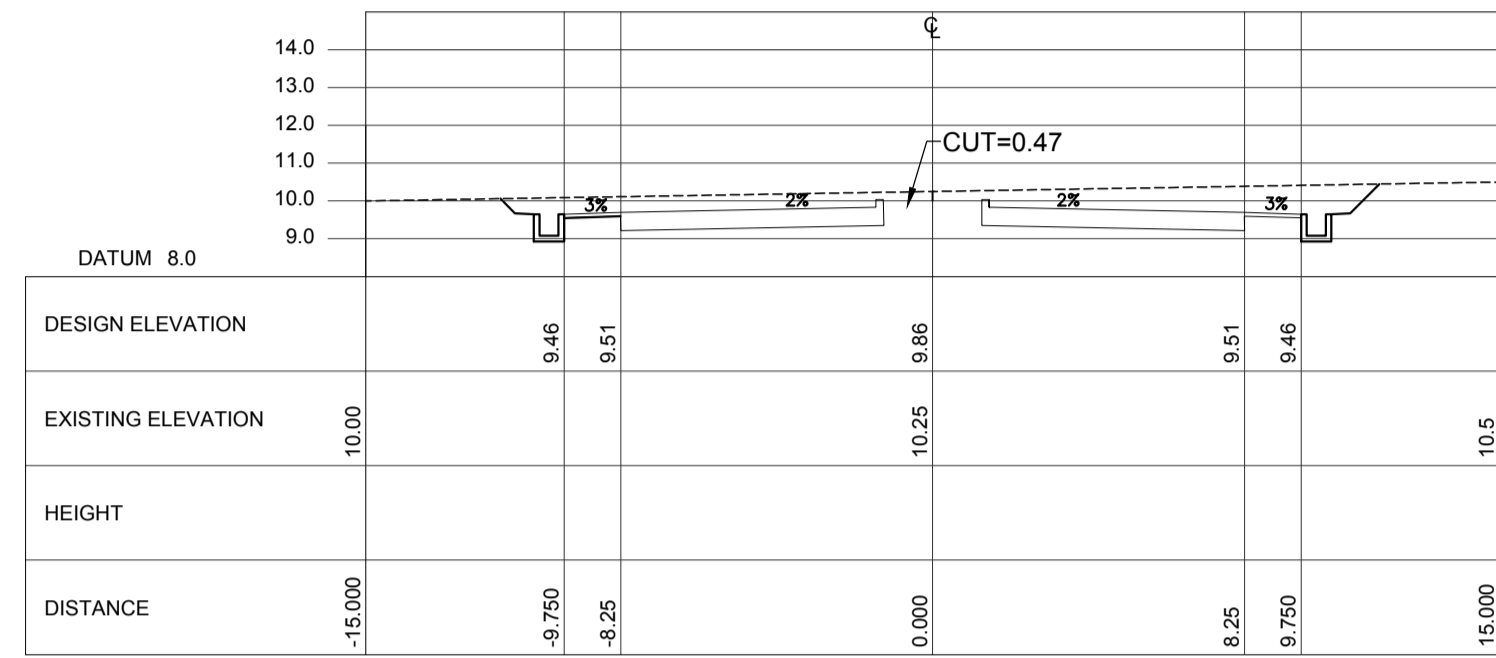
DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
 ACCESS ROAD CROSS SECTION (6)

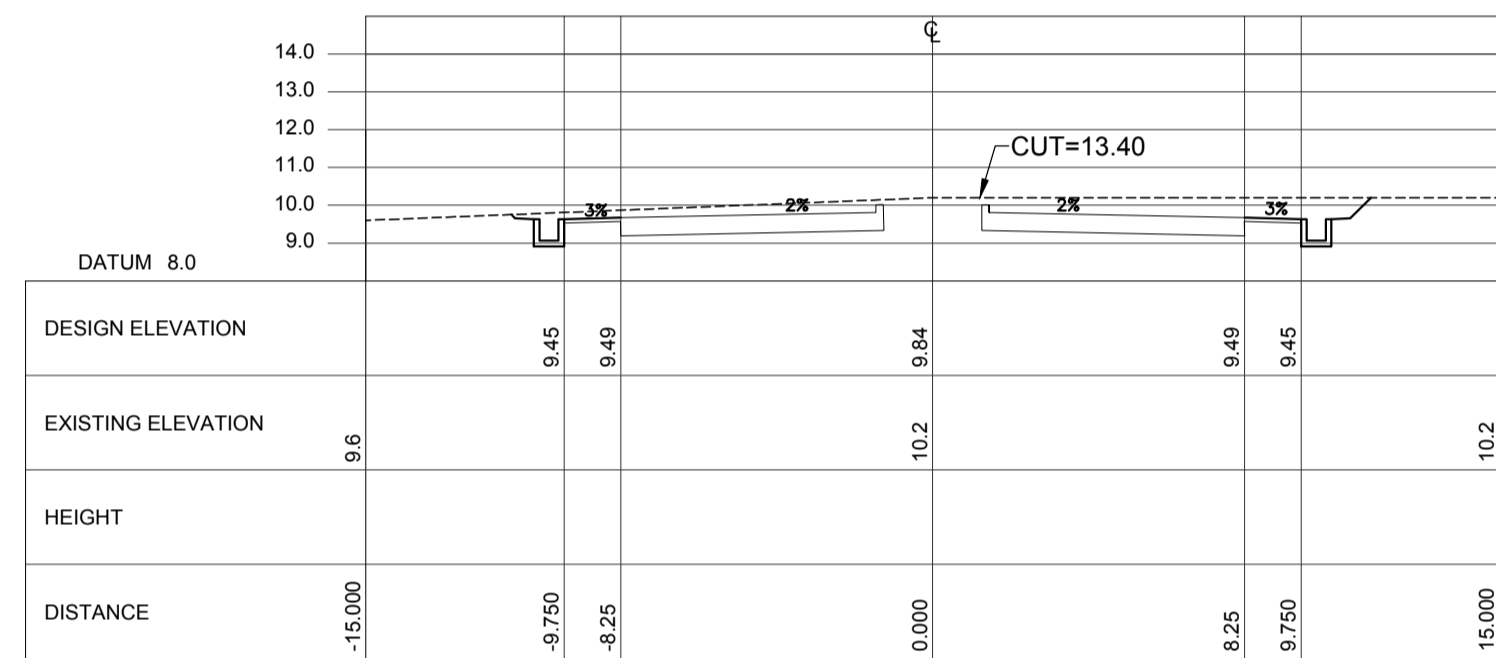
SHEET NO: C1-2100-14
 DRAWING SCALE: AS SHOWN



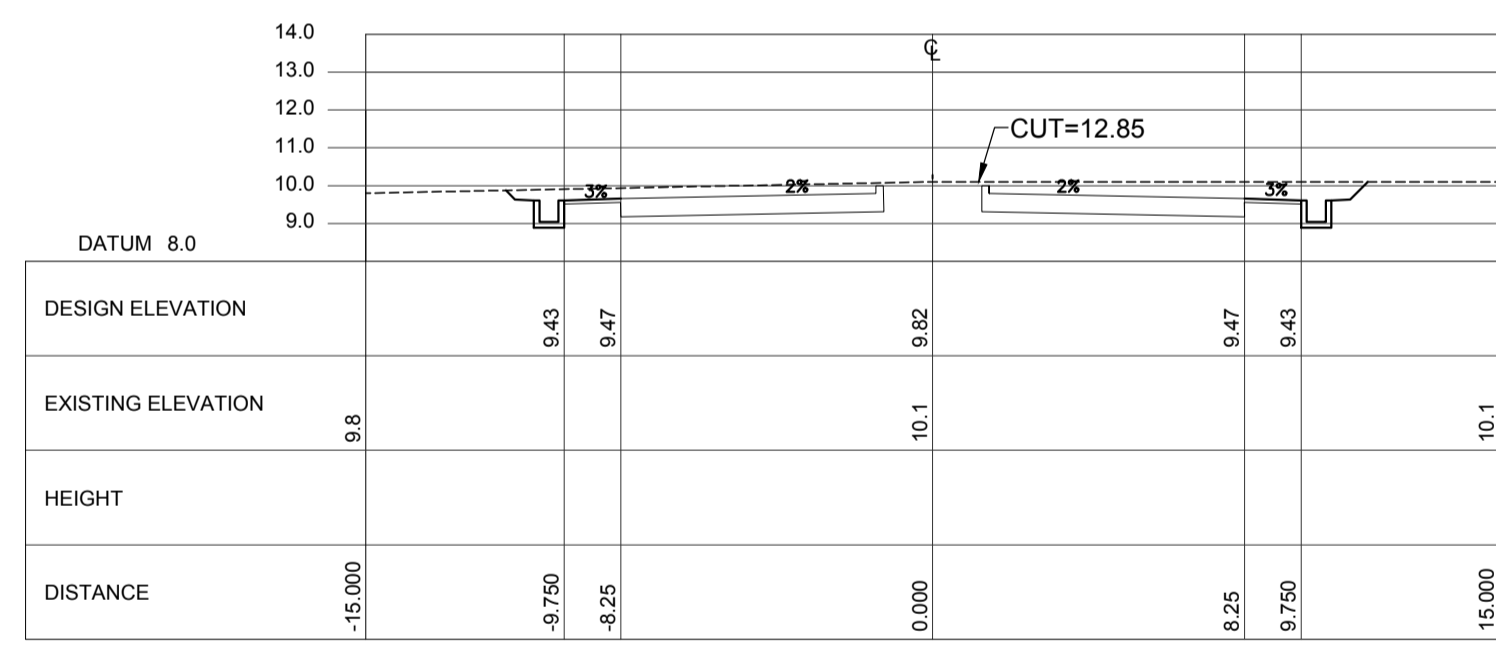
STATION 1+880



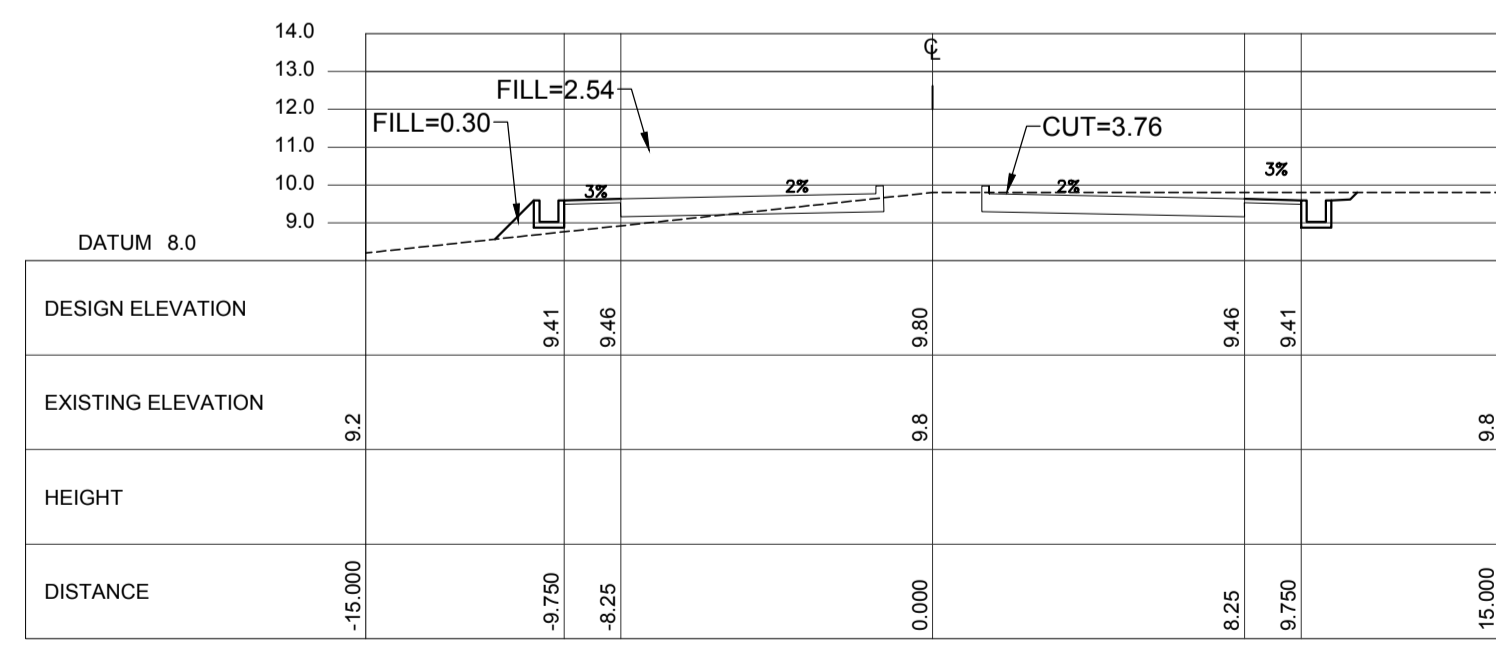
STATION 1+860



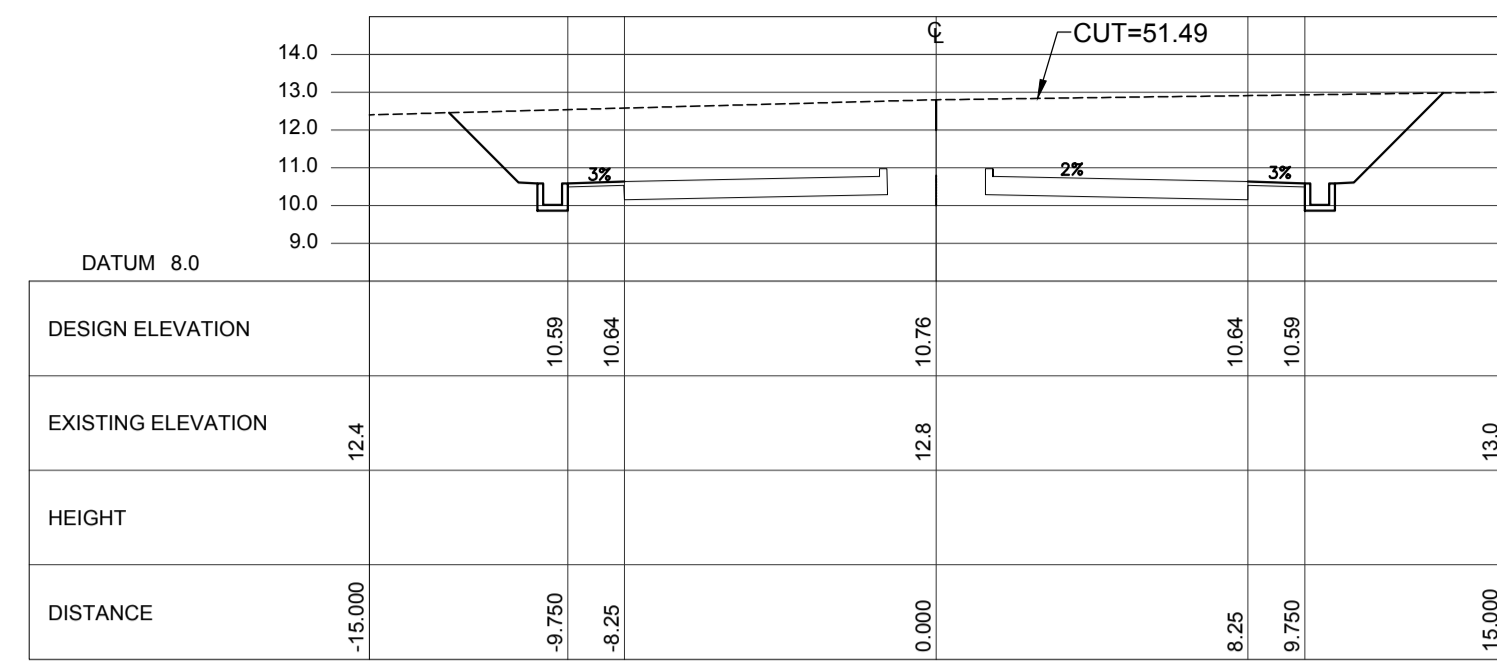
STATION 1+840



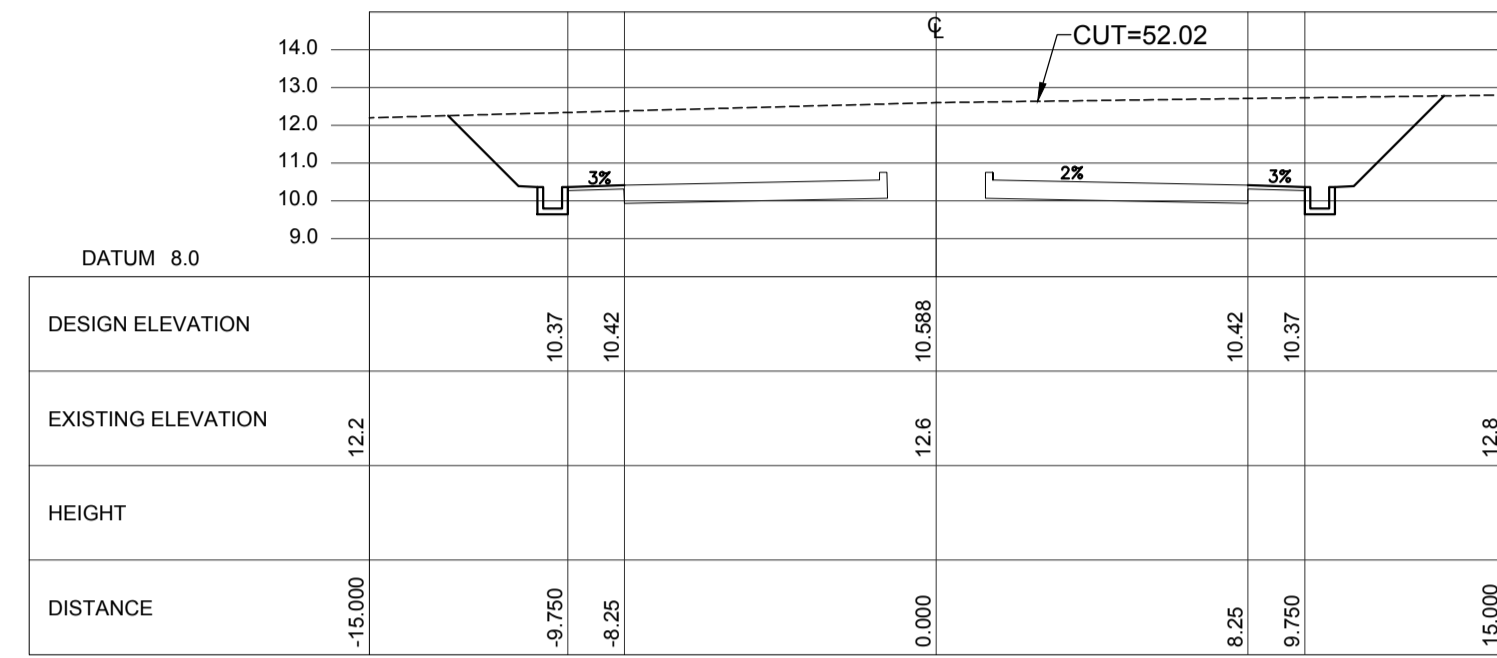
STATION 1+820



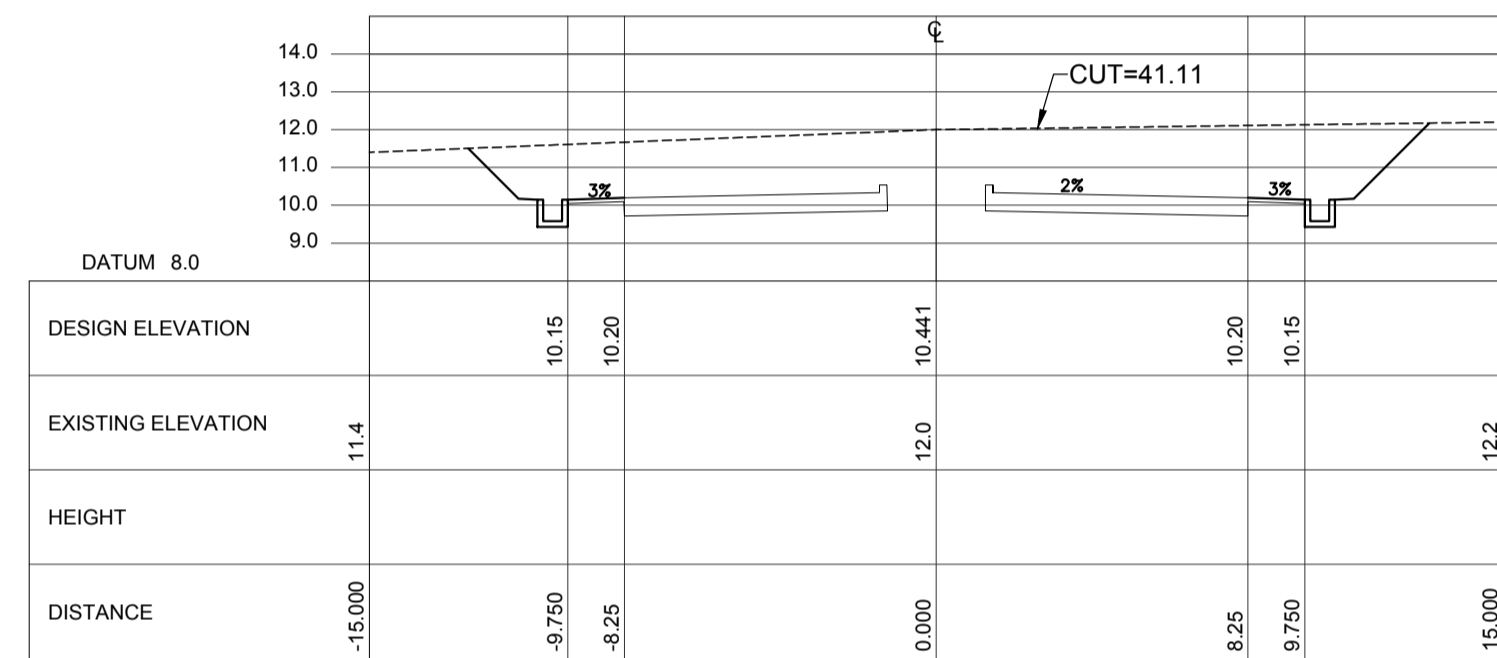
STATION 1+800



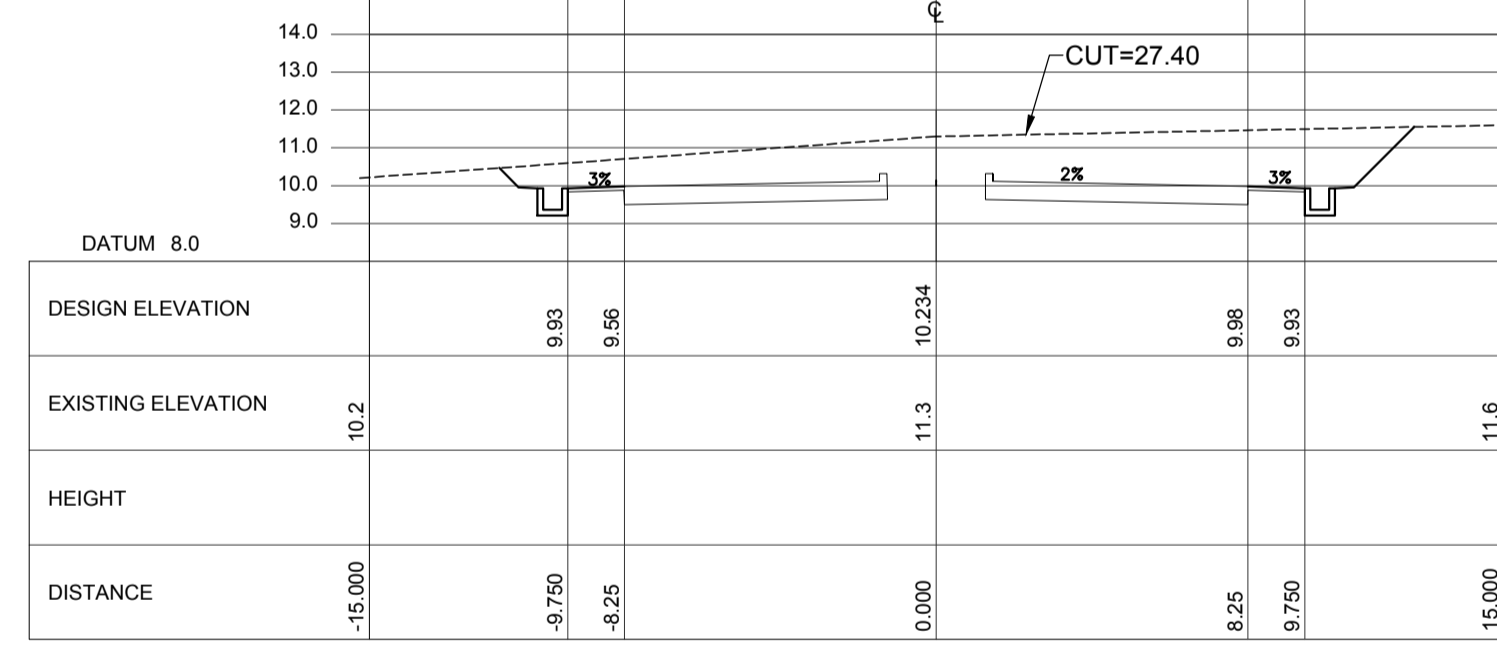
STATION 1+980



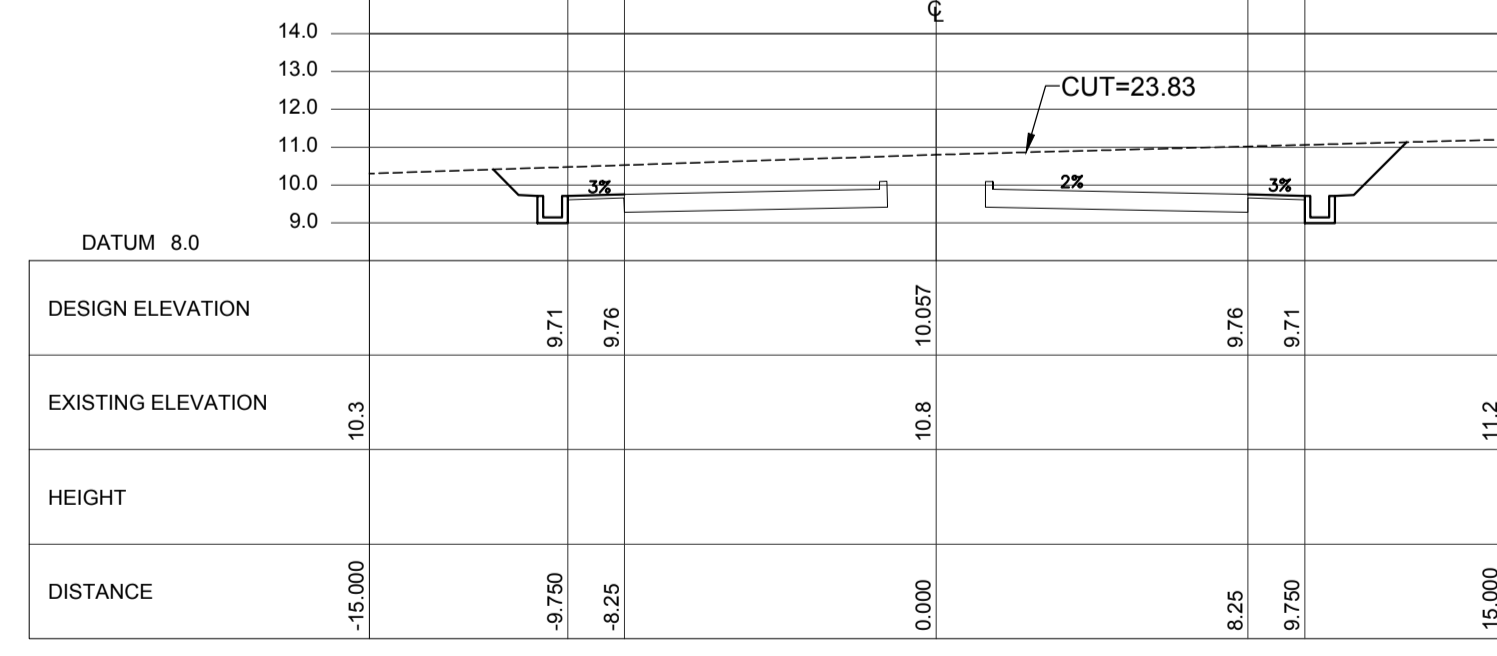
STATION 1+960



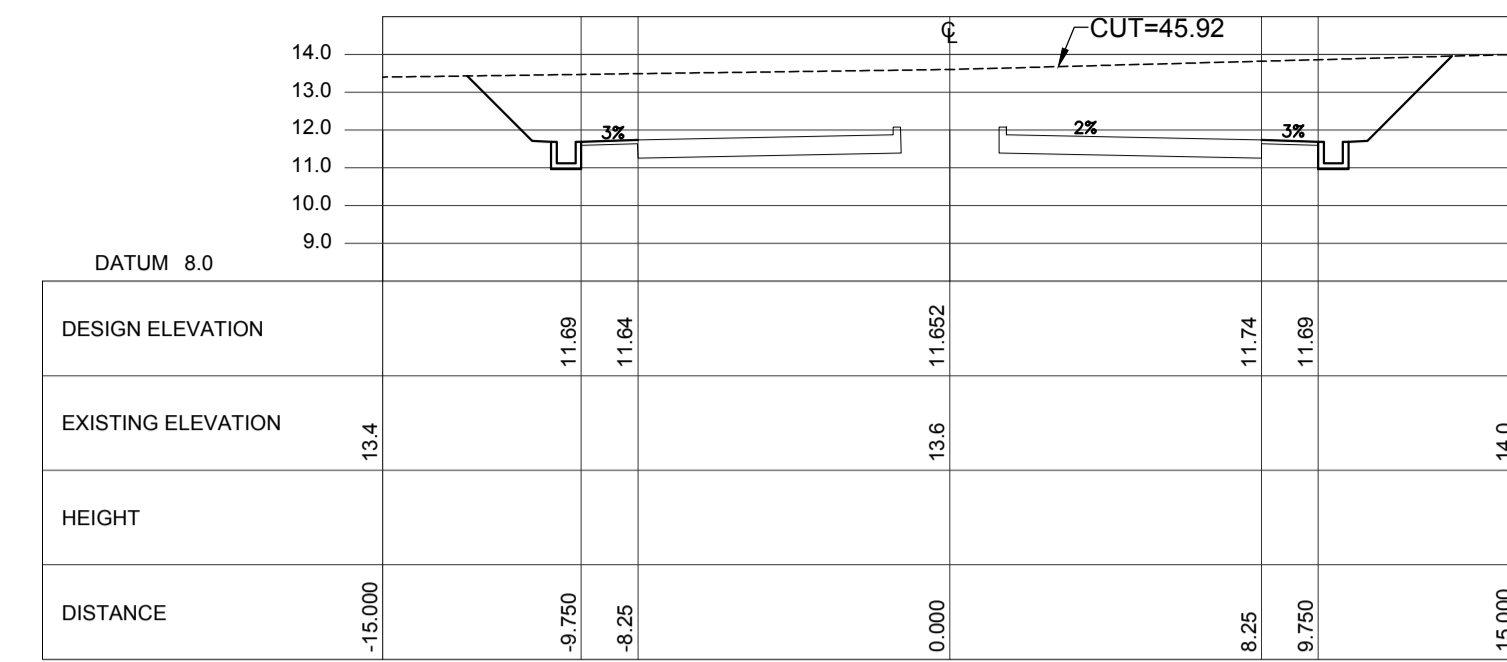
STATION 1+940



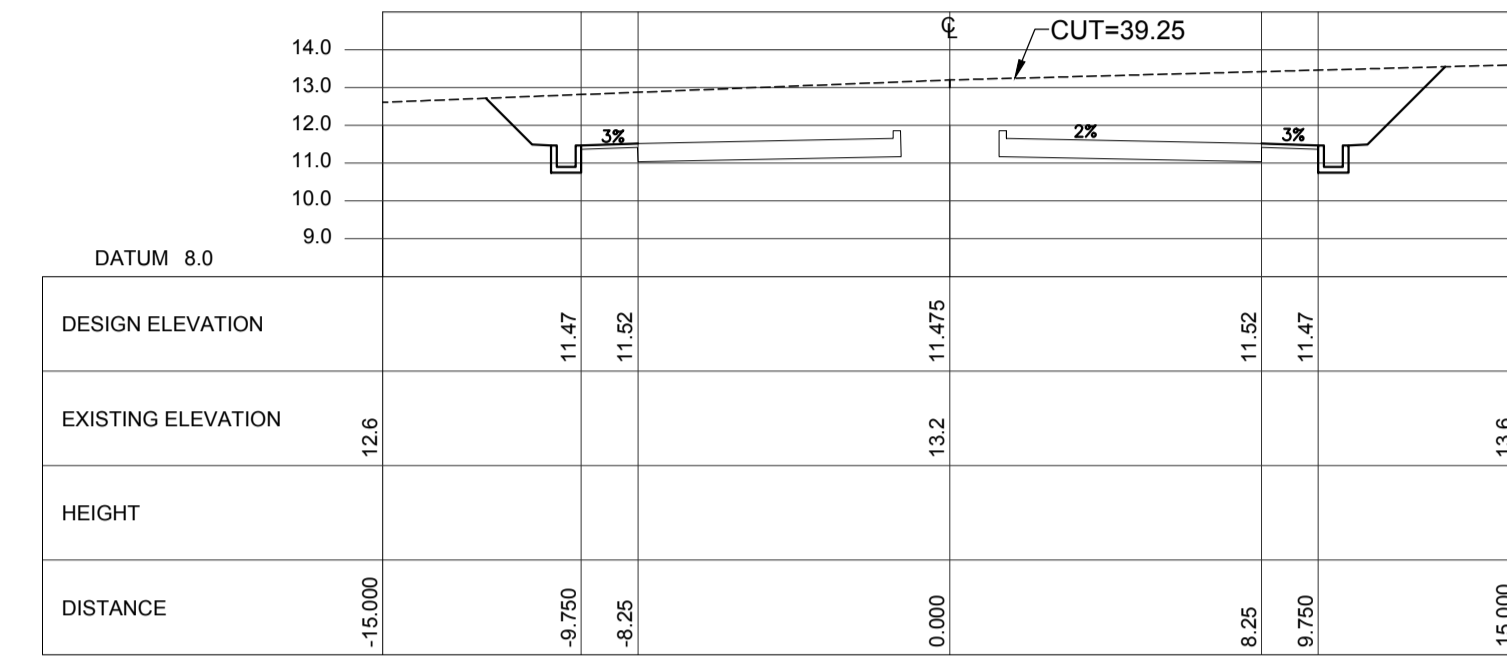
STATION 1+920



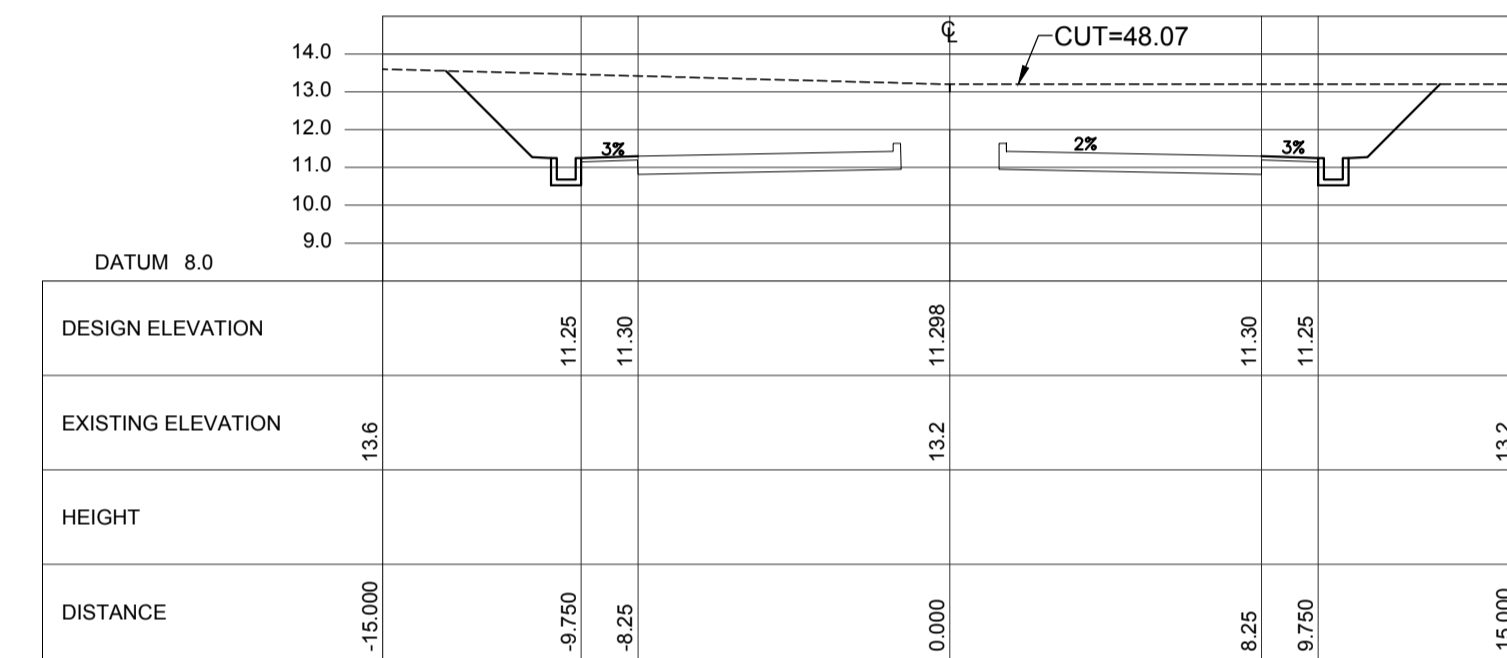
STATION 1+900



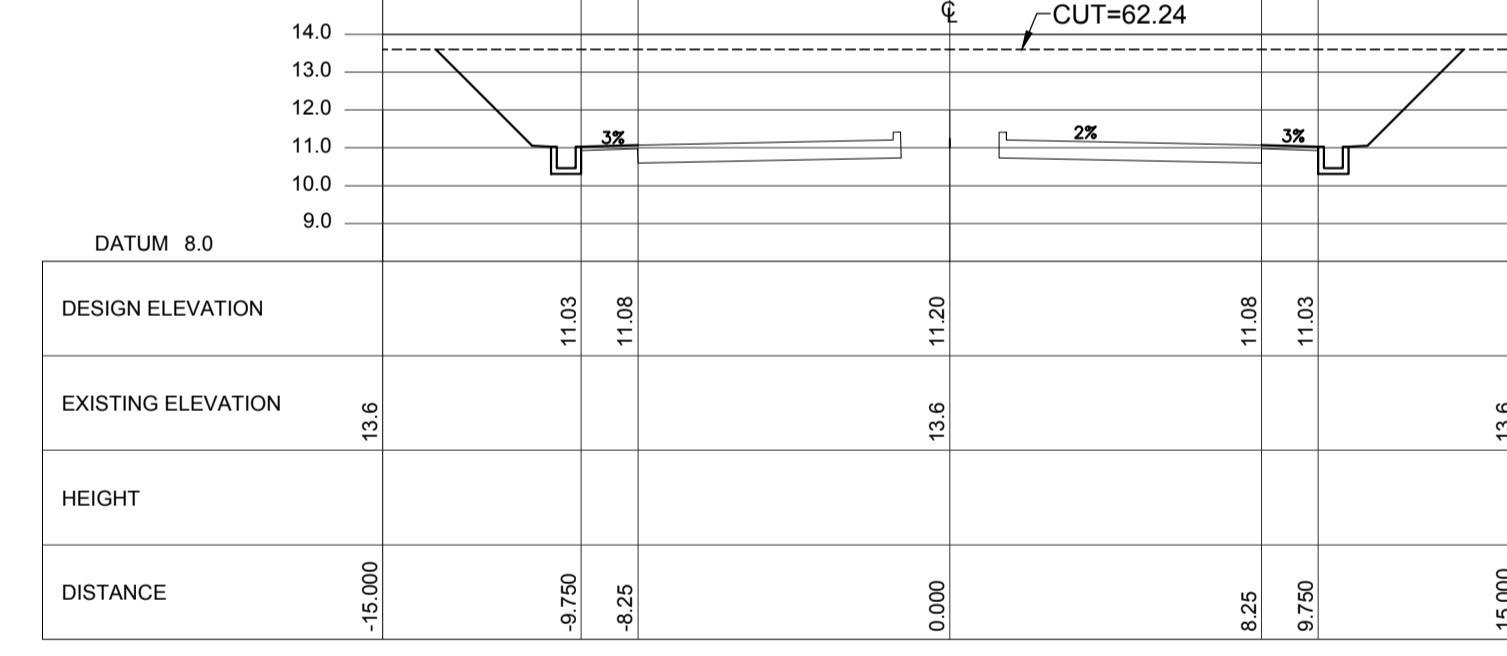
STATION 2+080



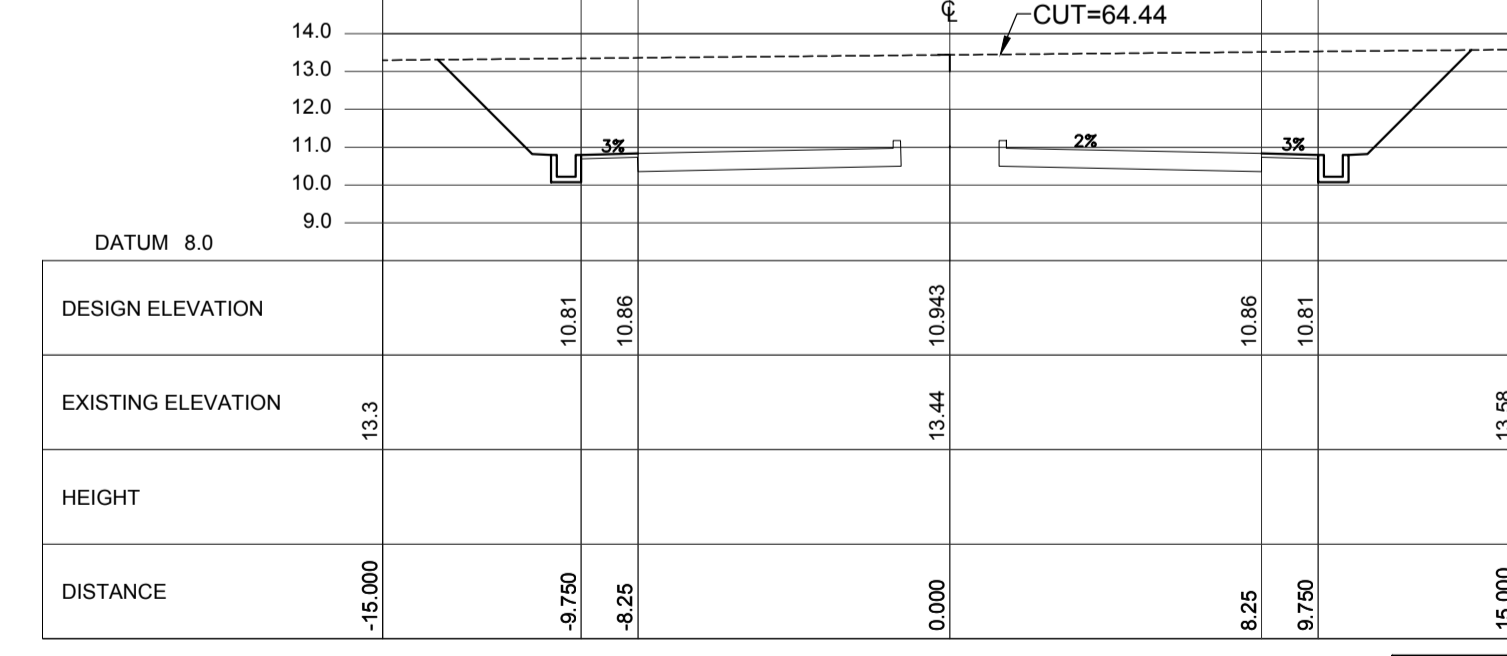
STATION 2+060



STATION 2+040



STATION 2+020



STATION 2+000

ACCESS ROAD CROSS SECTION Sta. 1+800 ~Sta. 2+080

VERTICAL SCALE: 1:5000 m. HORIZONTAL SCALE: 1:5000 m.

LEGEND:

---	---
---	---

Republic of the Philippines
DEPARTMENT OF TRANSPORTATION
AND COMMUNICATIONS

JICA DESIGN CONSULTANT JOINT VENTURE

JAC JAPAN AIRPORT CONSULTANTS, INC.

NIPPON KOEI CO., LTD.

NIS CONSULTANTS CO., LTD.

JAPAN INTERNATIONAL COOPERATION AGENCY

ERACIO T. PATDU
Team Leader

TADASHI AOI
Team Leader

PREPARED BY: ERACIO T. PATDU

RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR.
Assistant Secretary for Project Implementation, DOTC

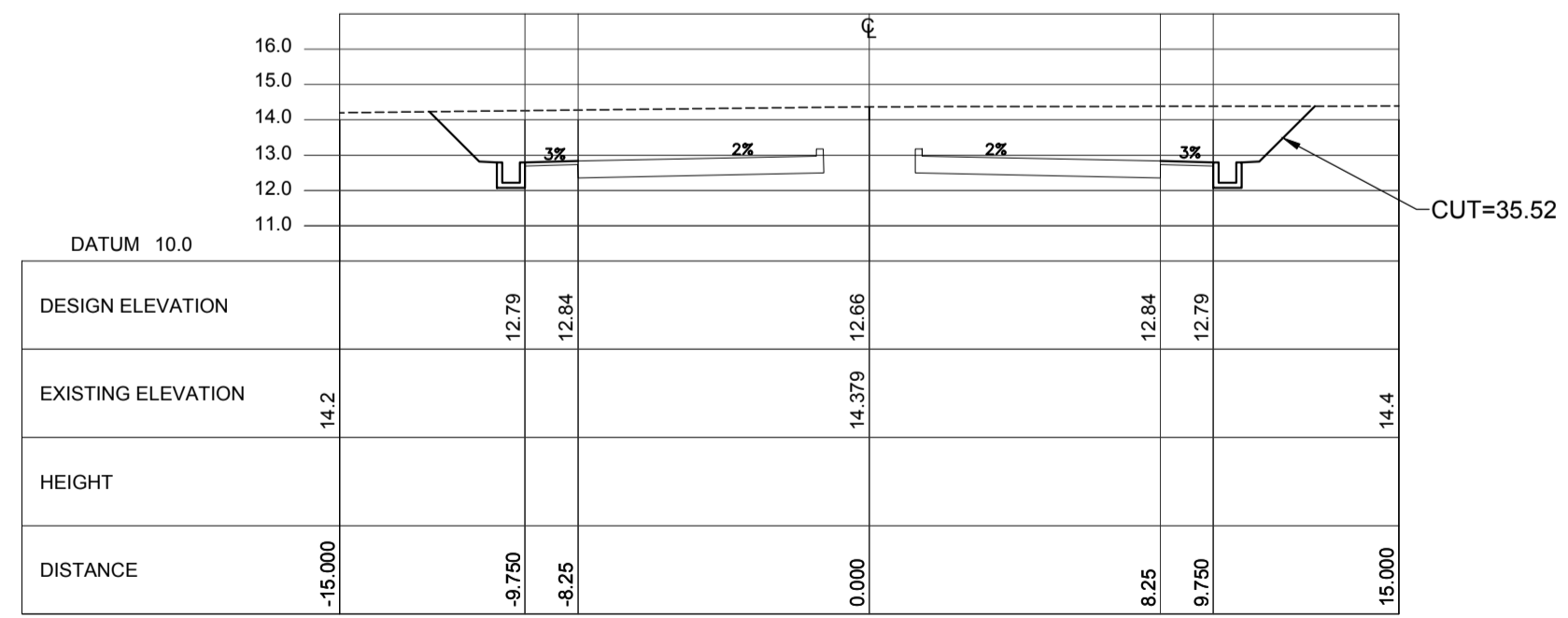
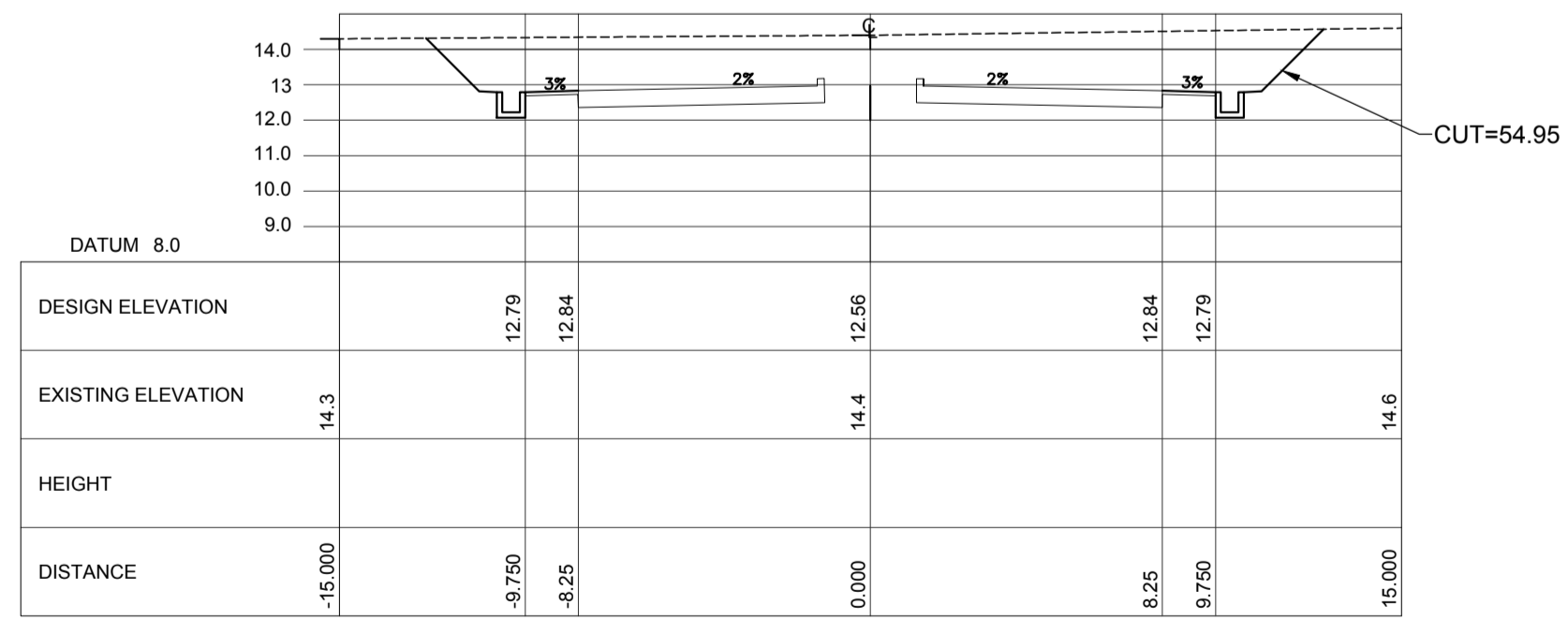
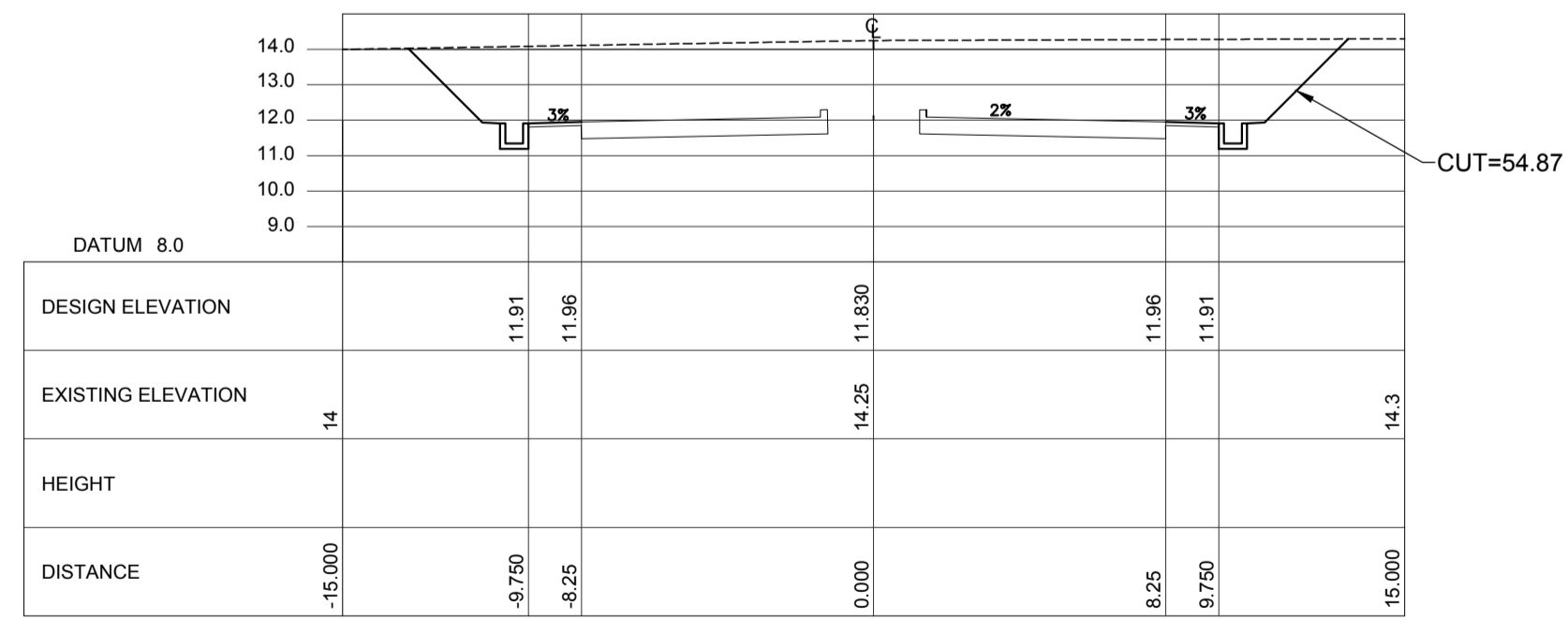
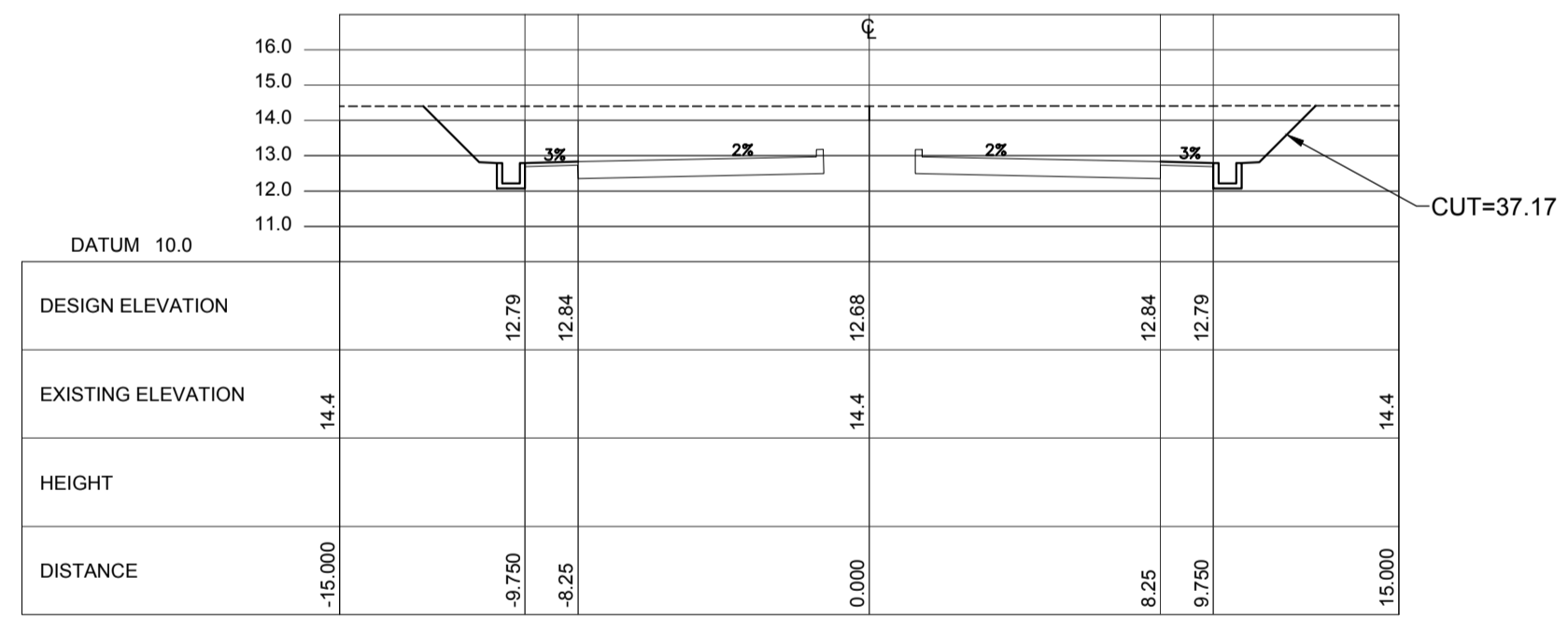
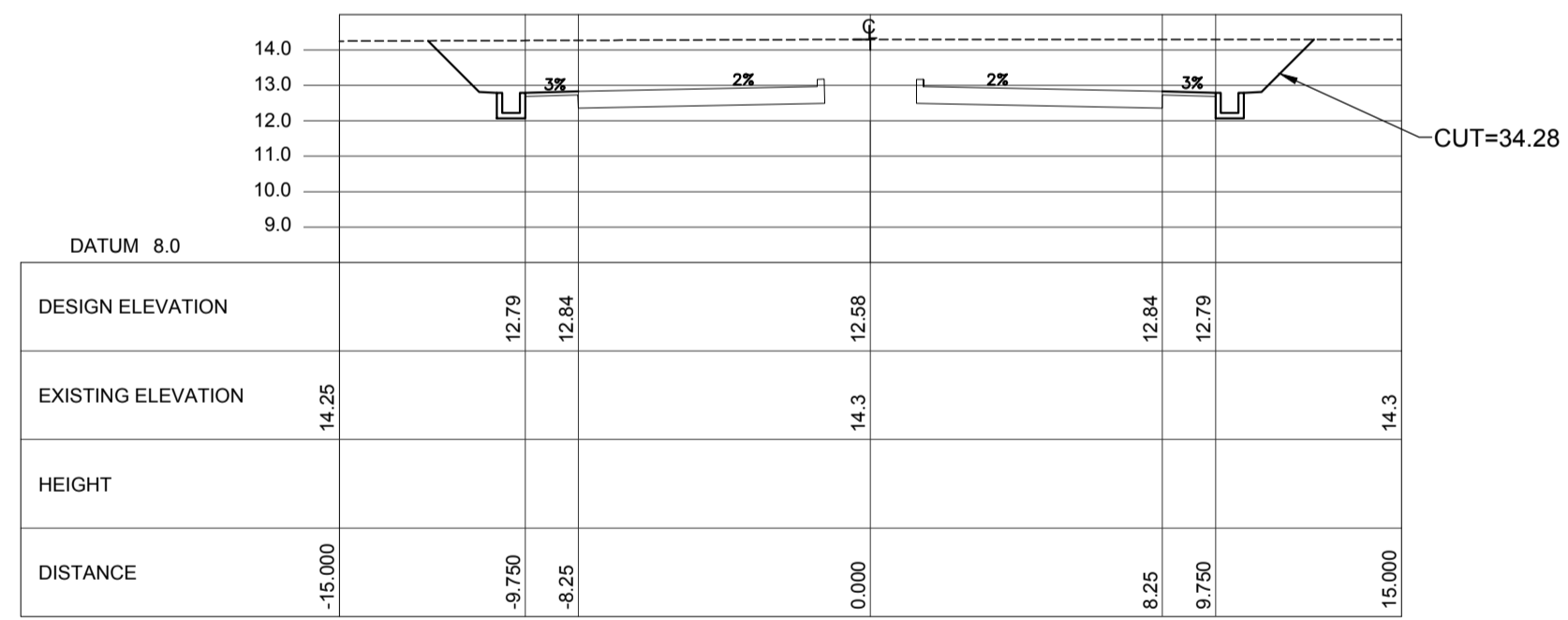
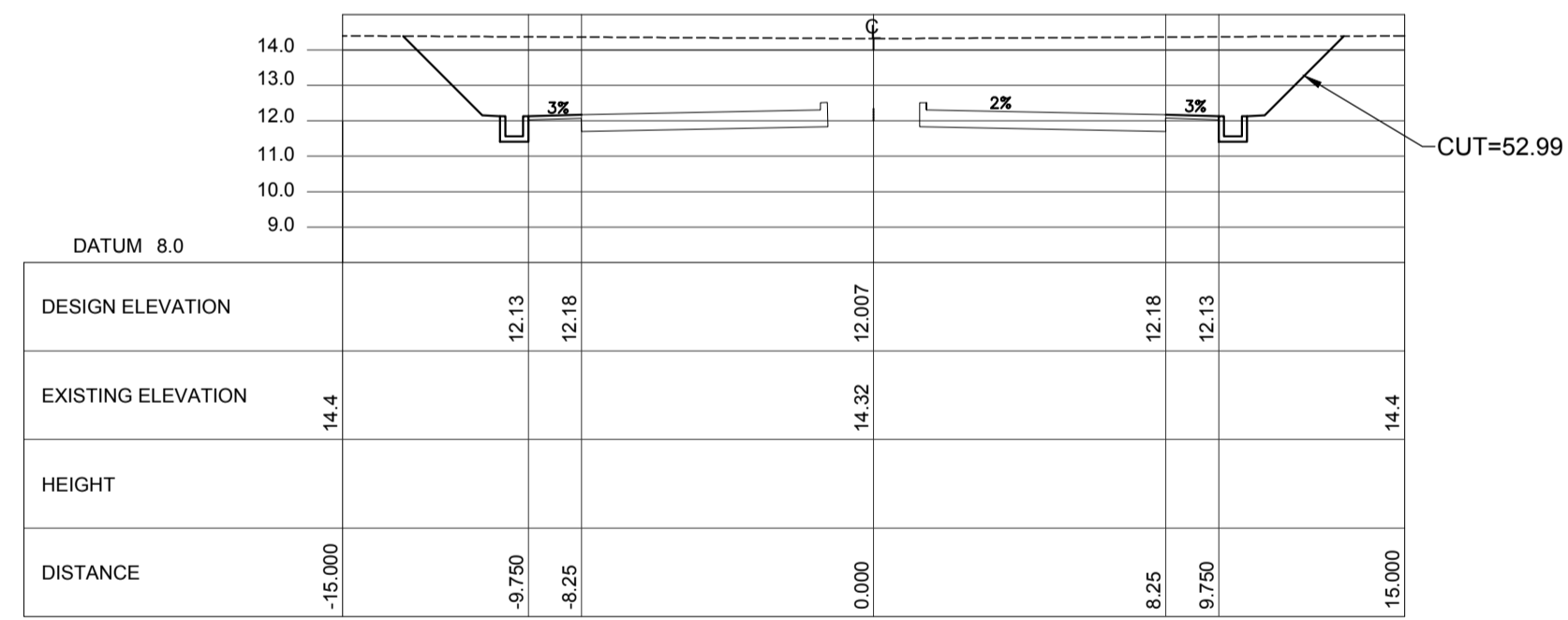
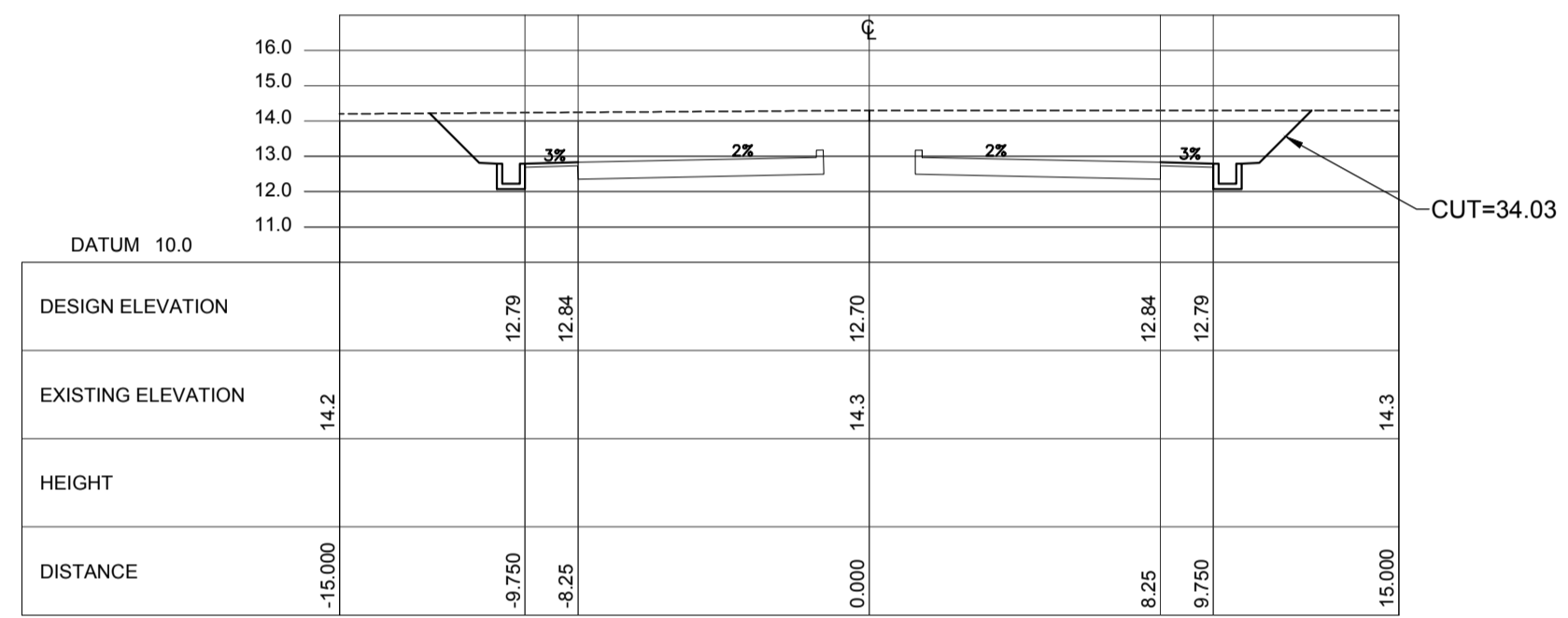
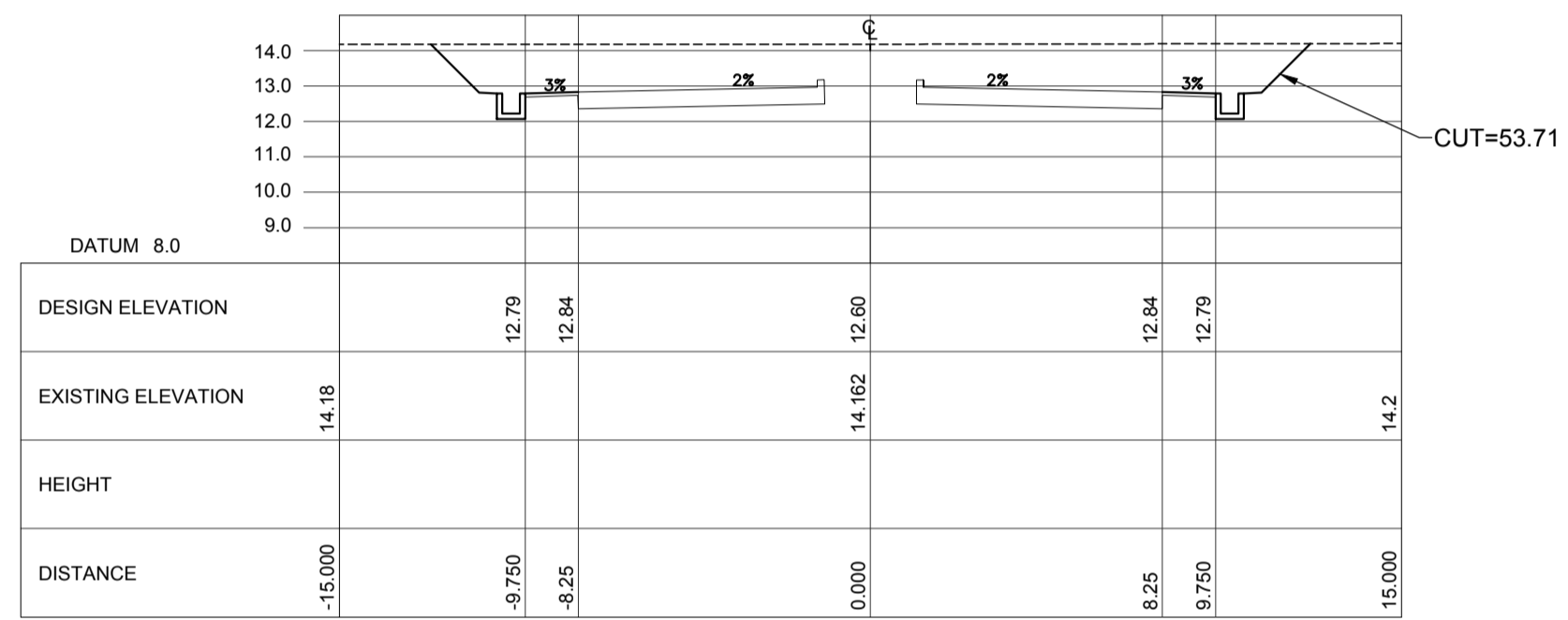
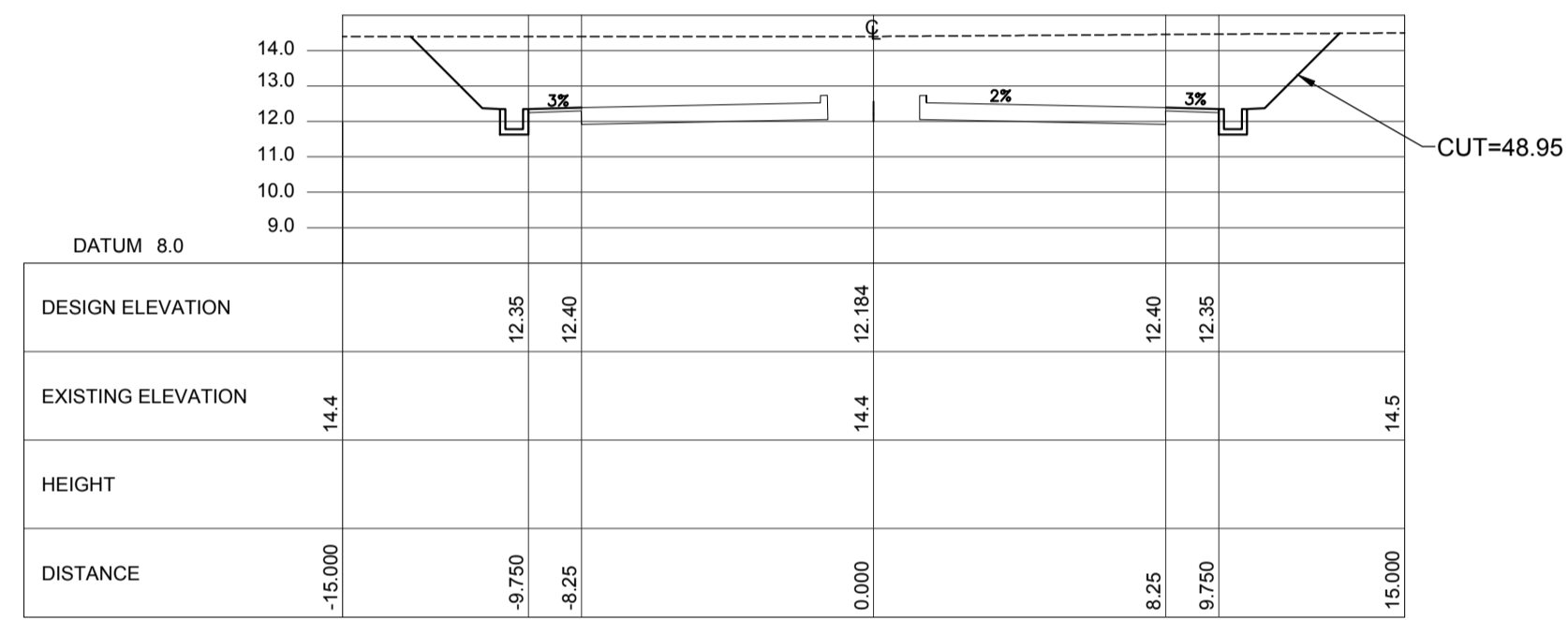
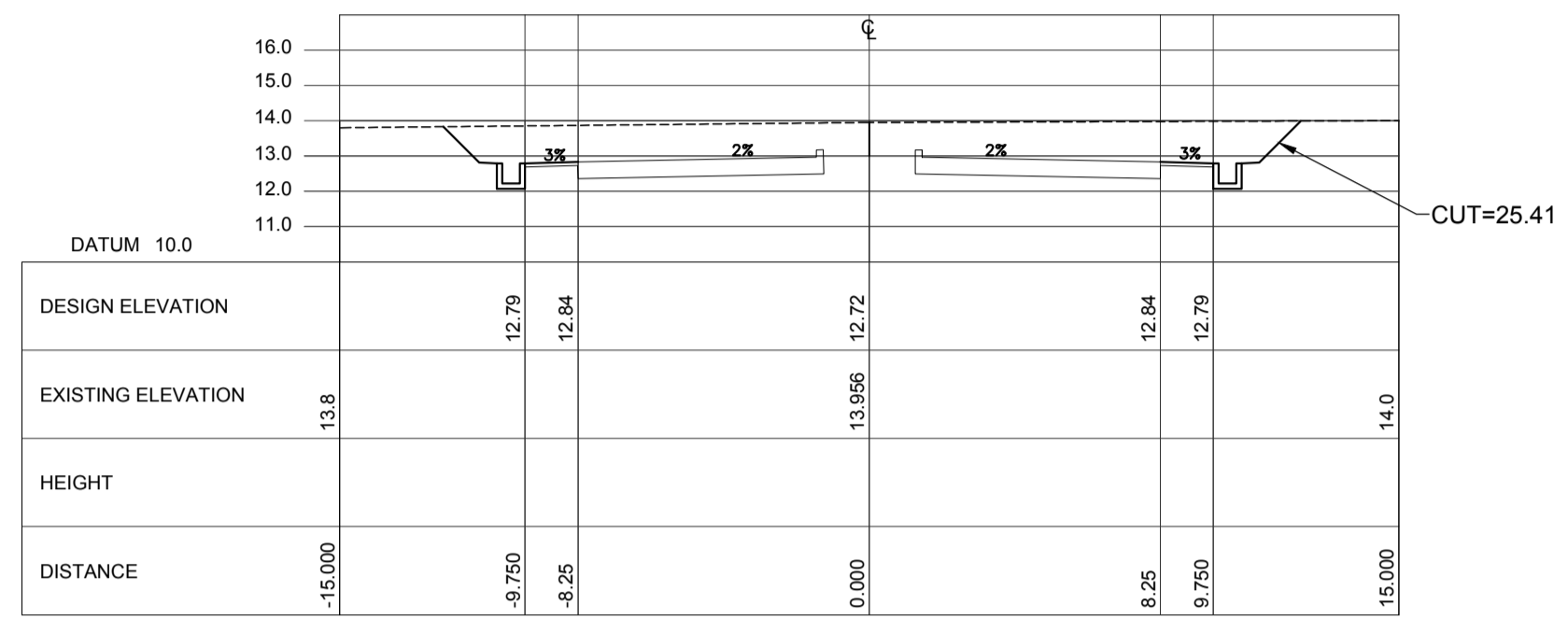
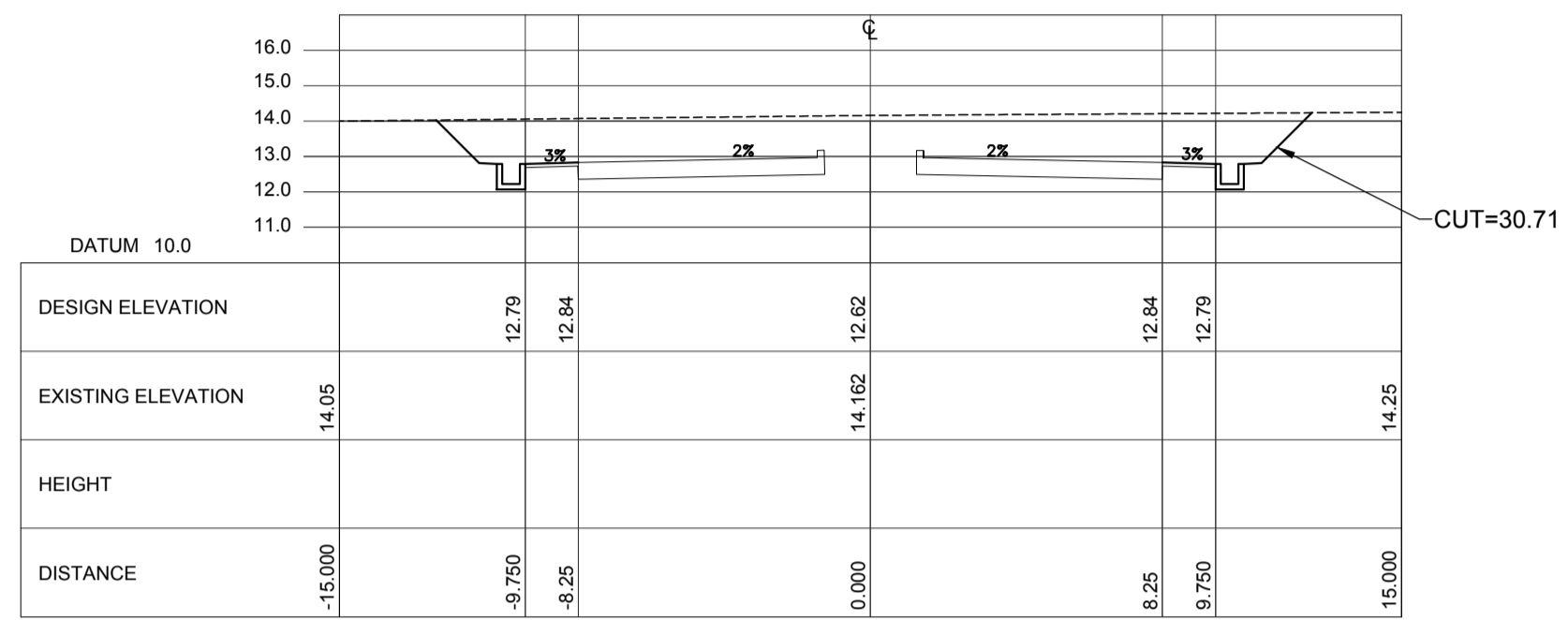
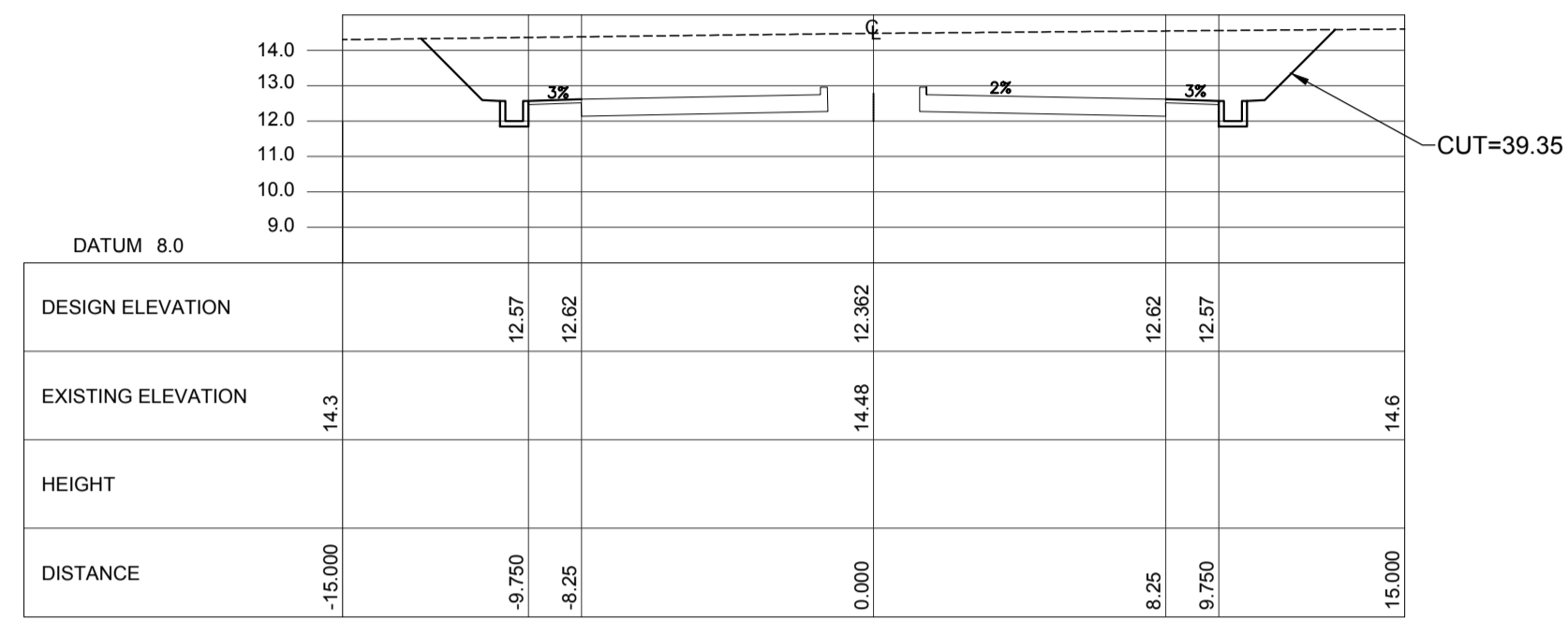
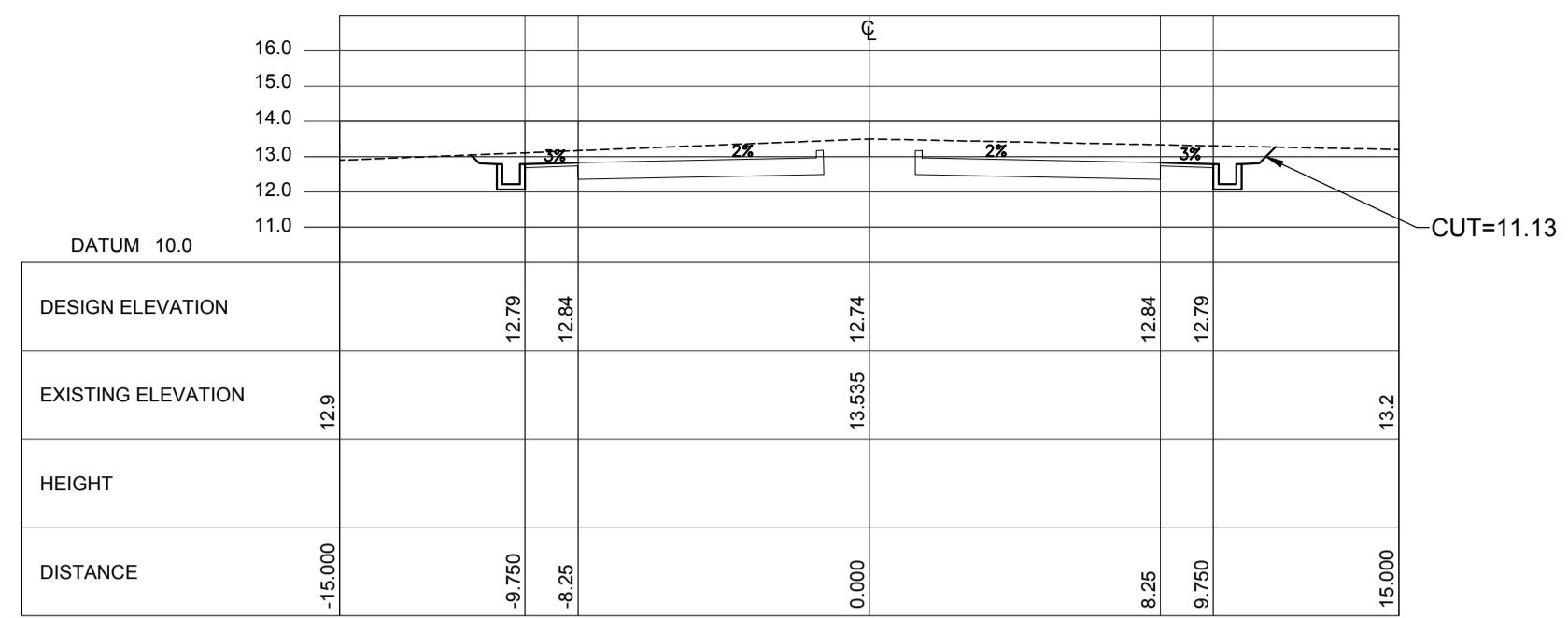
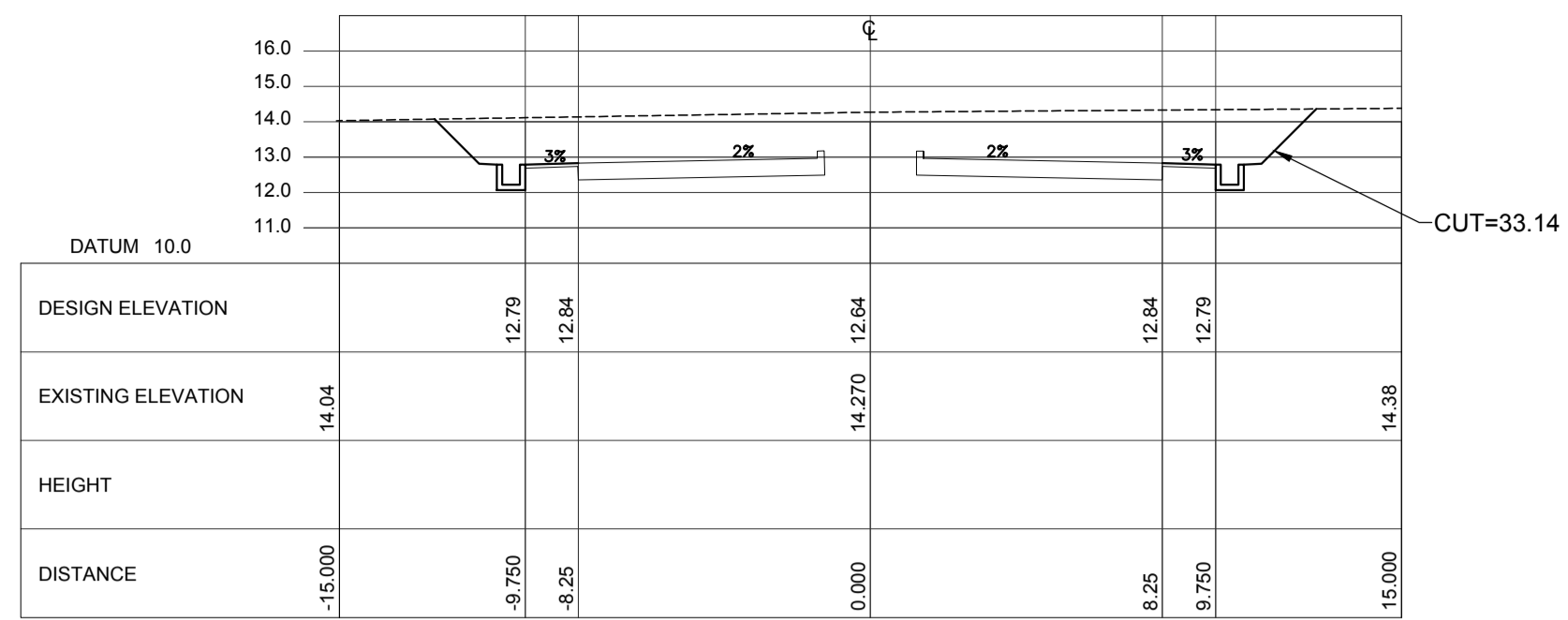
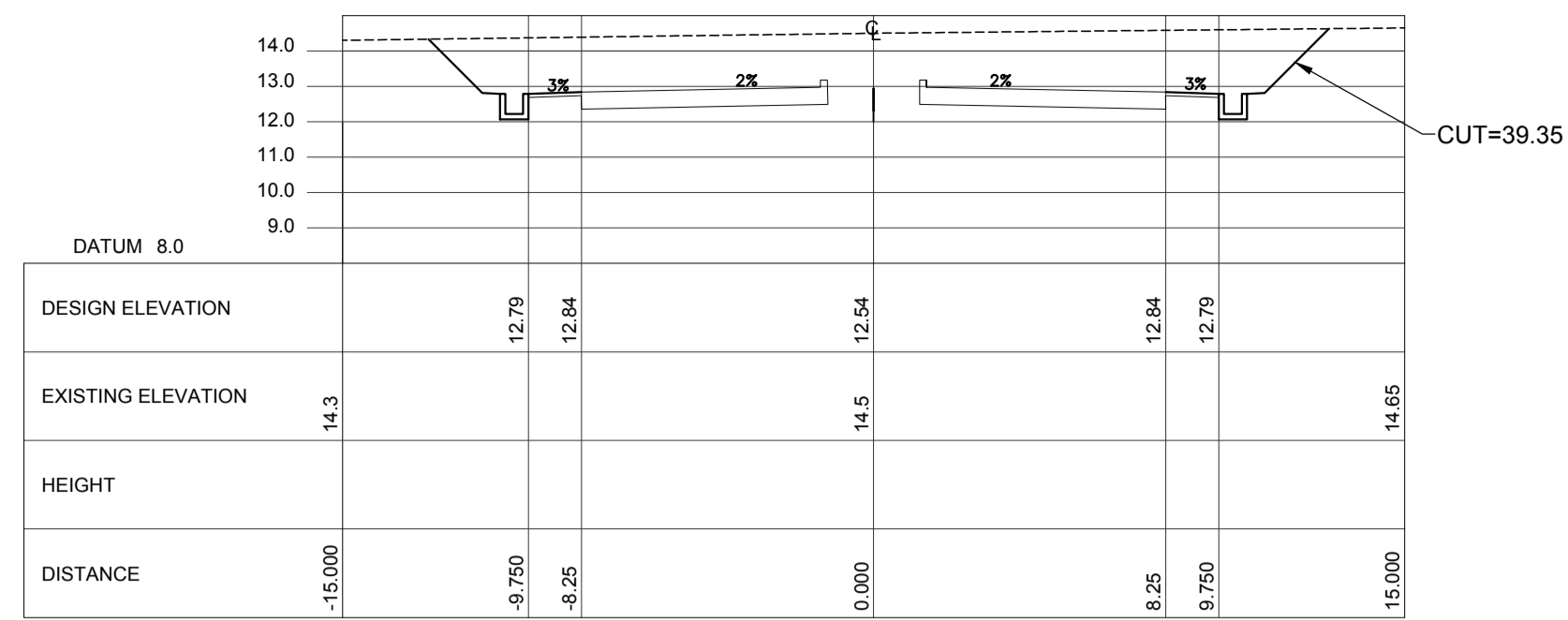
APPROVED: JULIANITO G. BUCAYAN, JR.
Undersecretary for Project Implementation, DOTC

PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

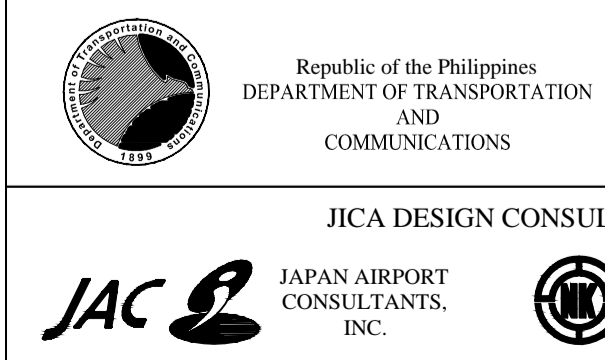
SHEET CONTENTS:		SHEET NO:	
COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS		C1-2100-15	
ACCESS ROAD CROSS SECTION (7)		DRAWING SCALE:	
		AS SHOWN	



ACCESS ROAD CROSS SECTION Sta. 2+100 ~Sta. 2+380

VERTICAL SCALE: 1:5000 m. HORIZONTAL SCALE: 1:5000 m.

LEGEND:
 - - - - -



JICA DESIGN CONSULTANT JOINT VENTURE
 JAPAN INTERNATIONAL COOPERATION AGENCY
 JAC JAPAN AIRPORT CONSULTANTS, INC.
 NIPON KOEI CO., LTD.
 NIS CONSULTANTS CO., LTD.

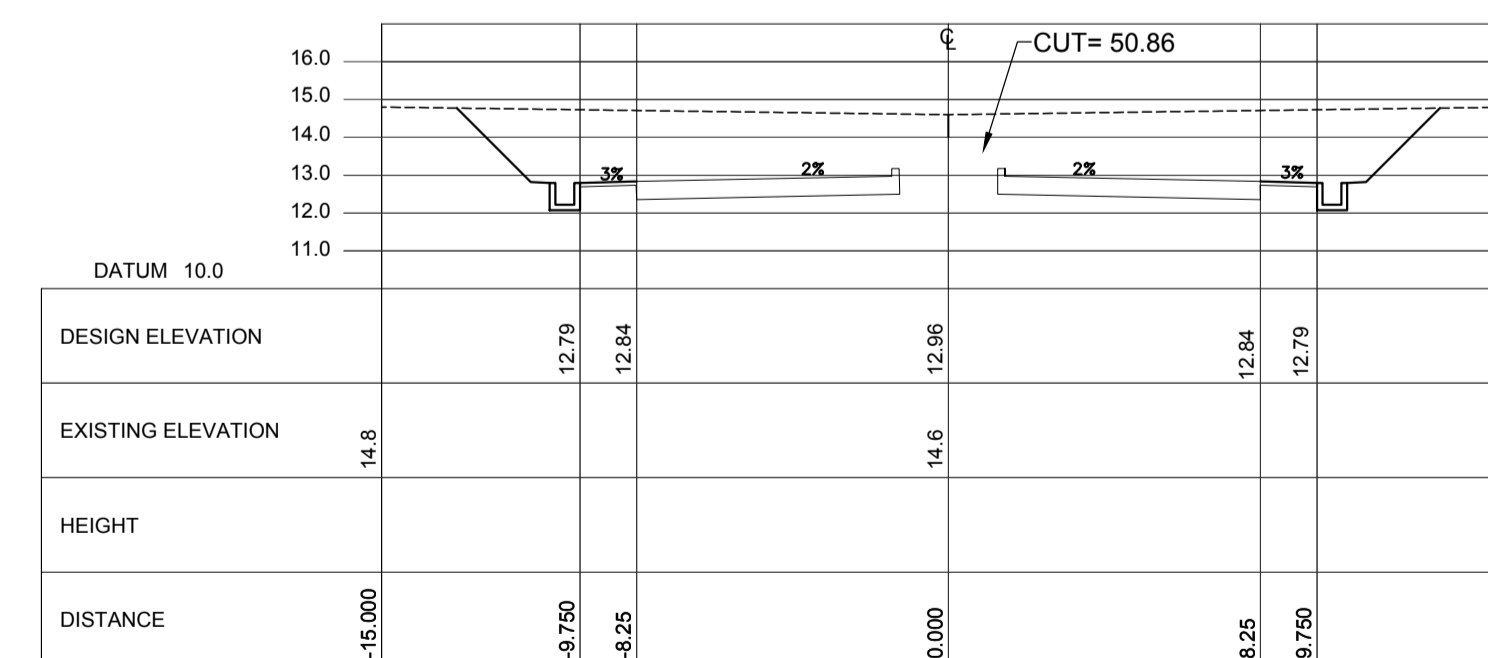
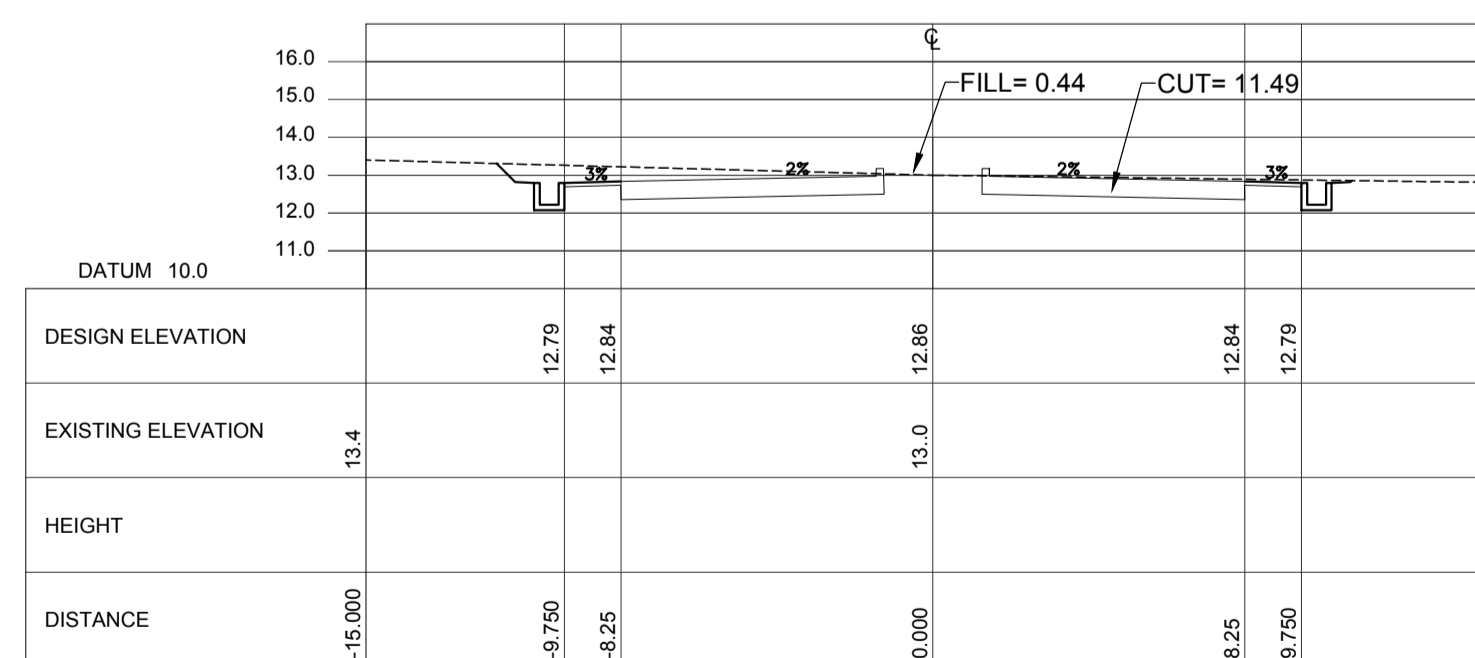
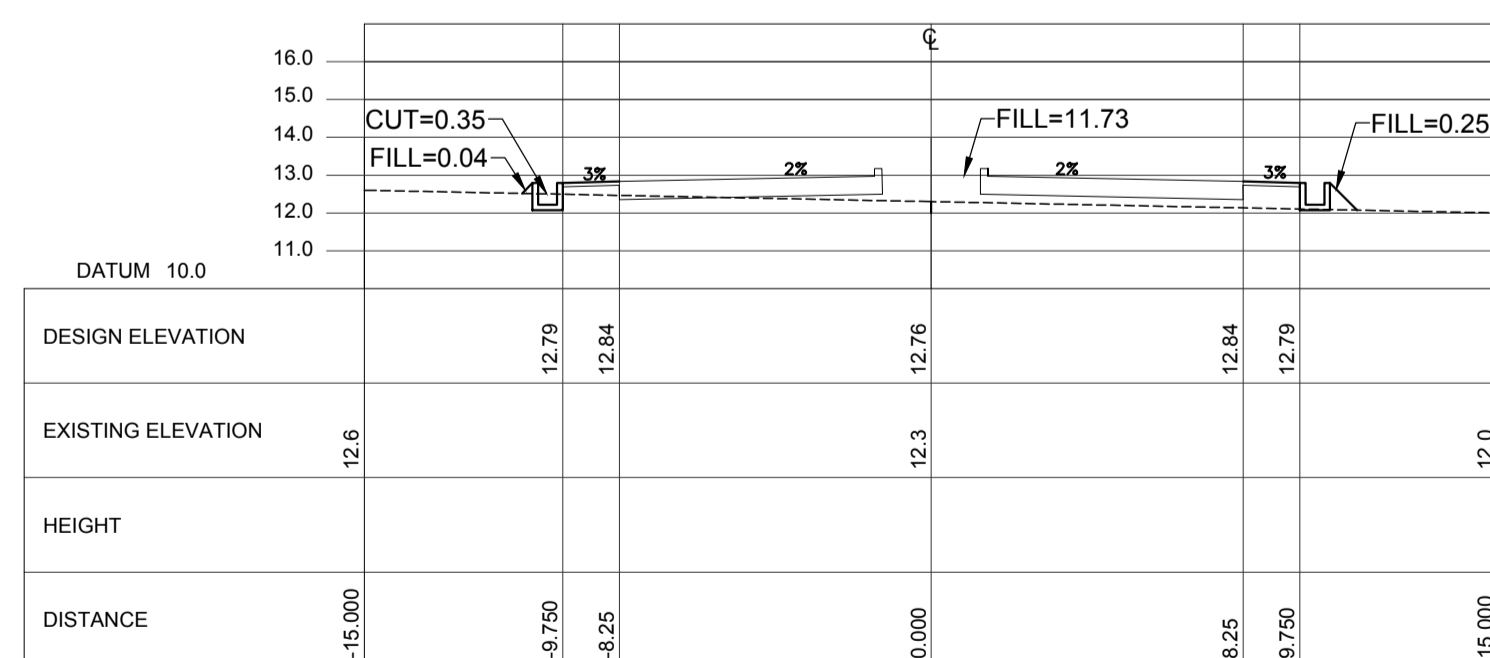
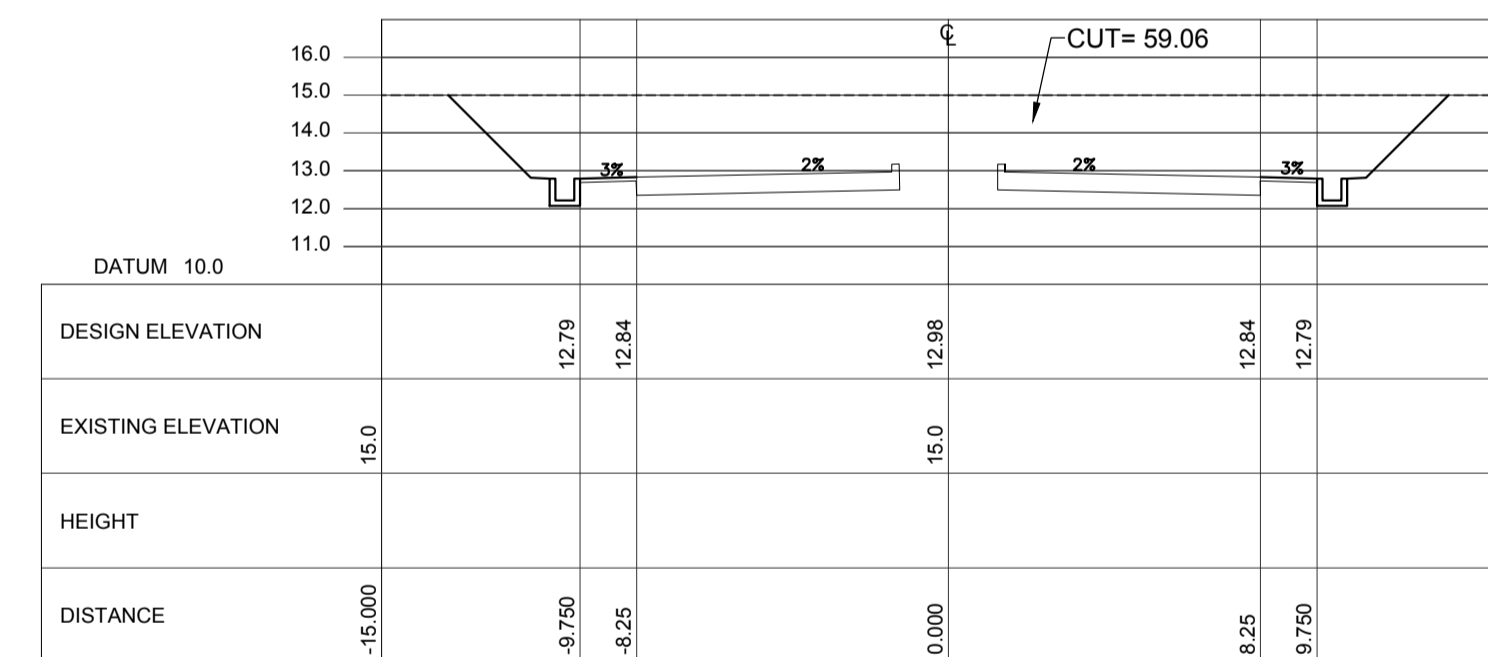
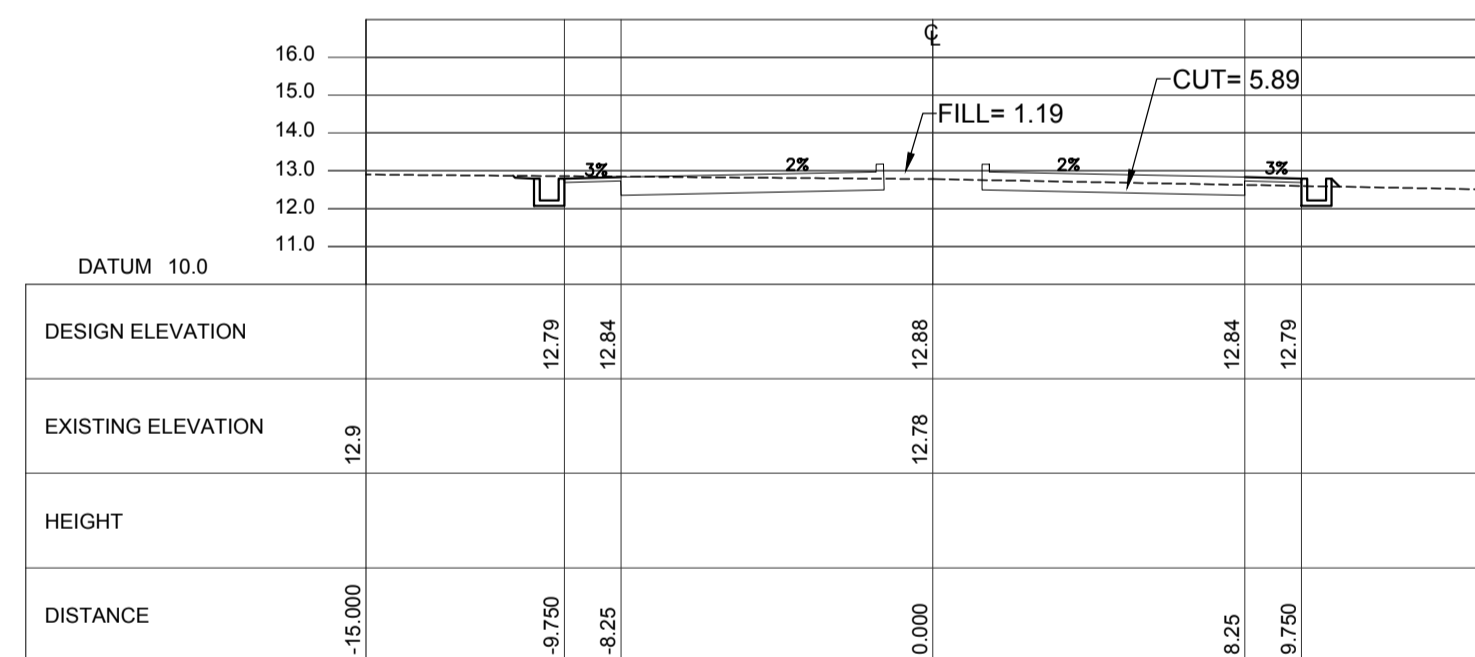
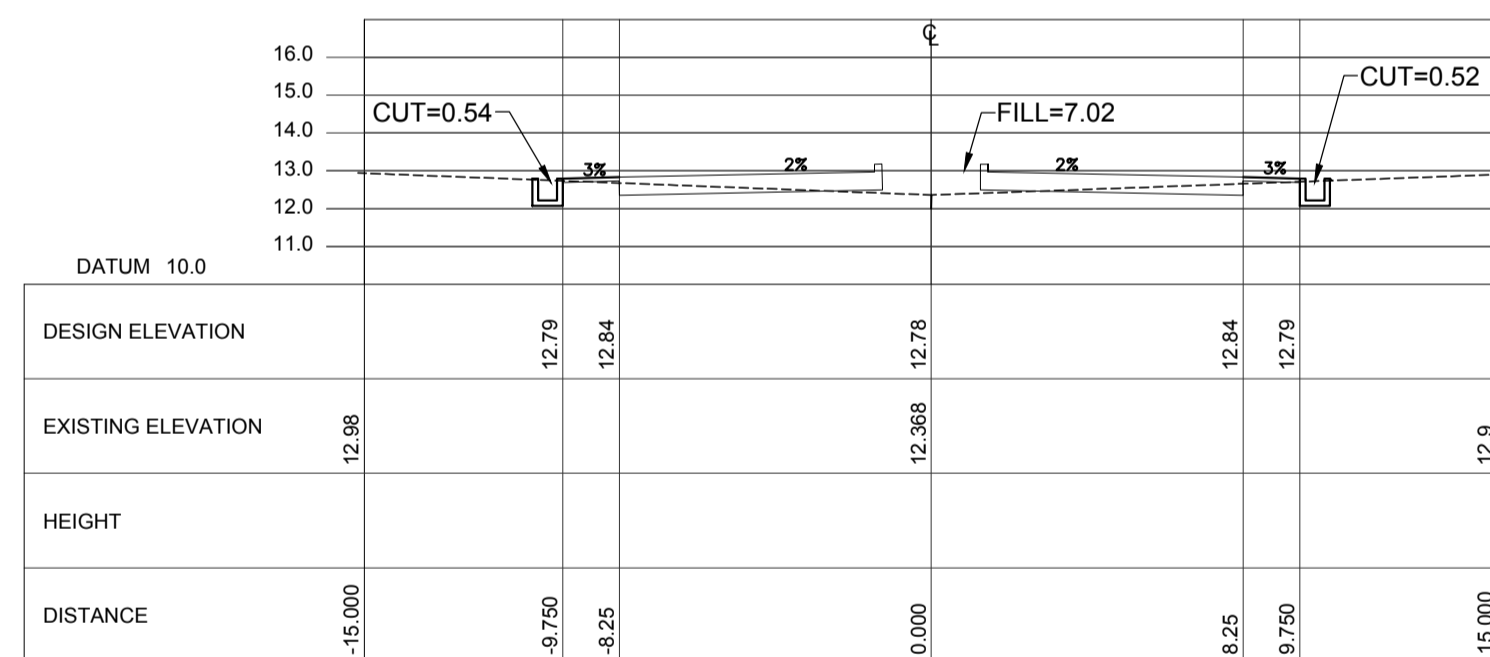
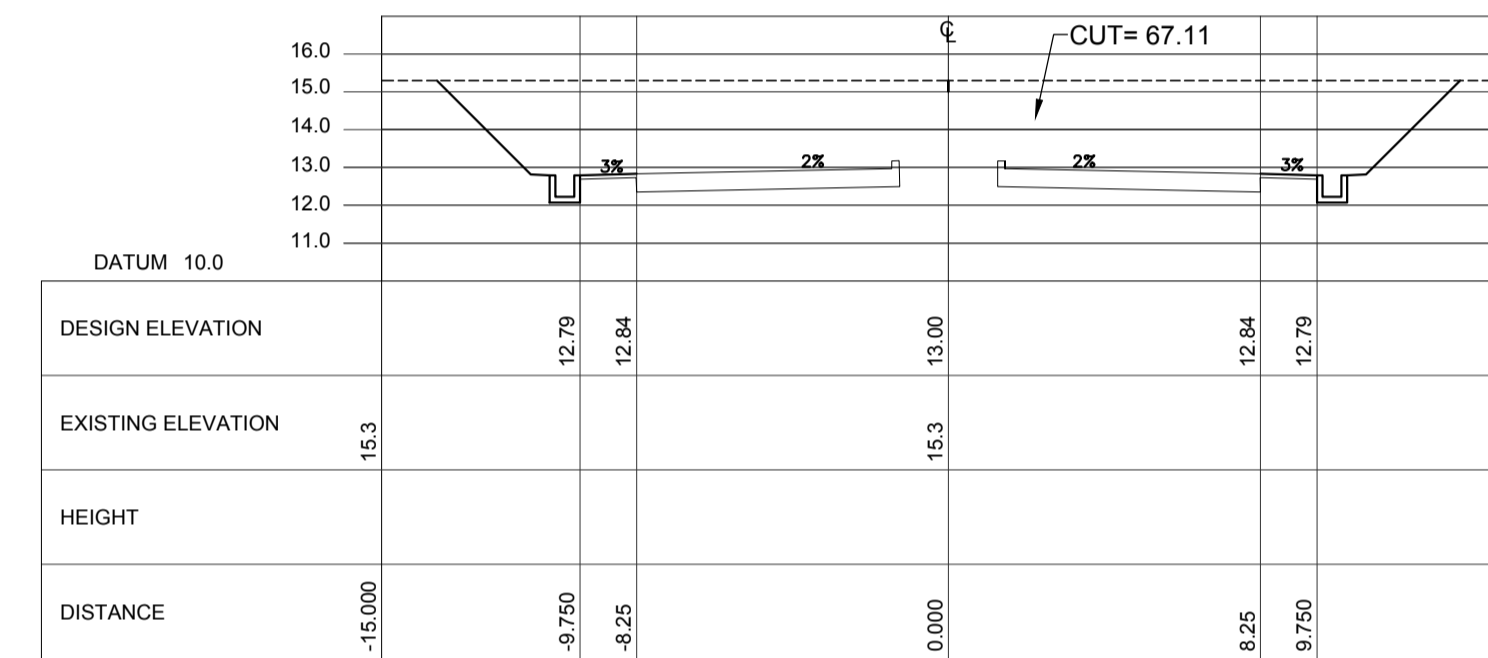
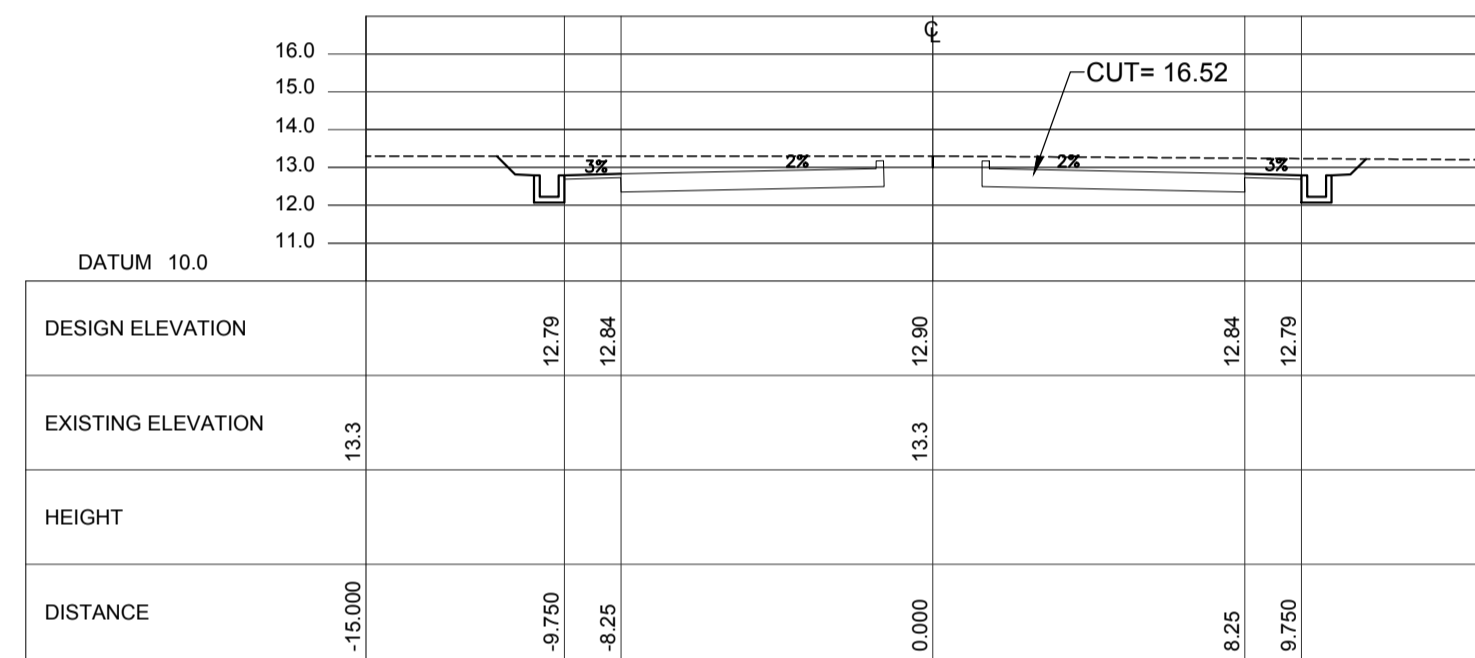
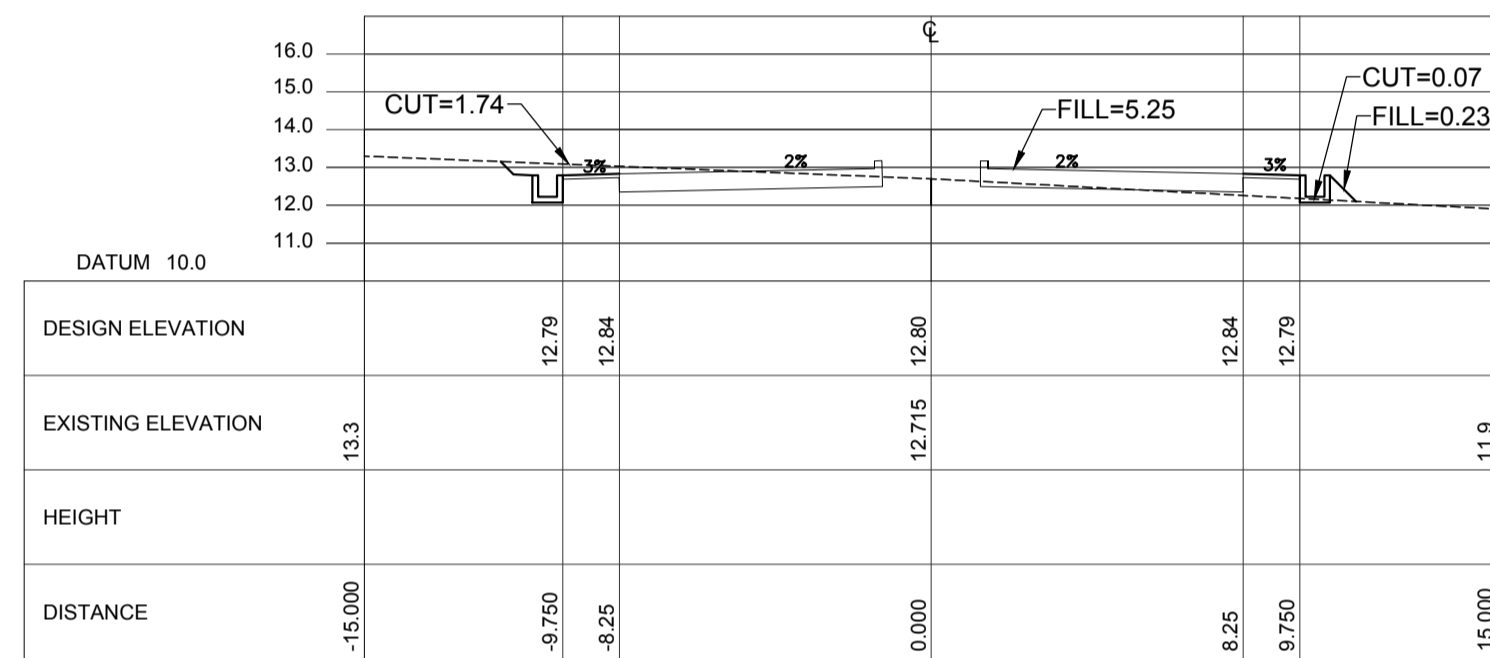
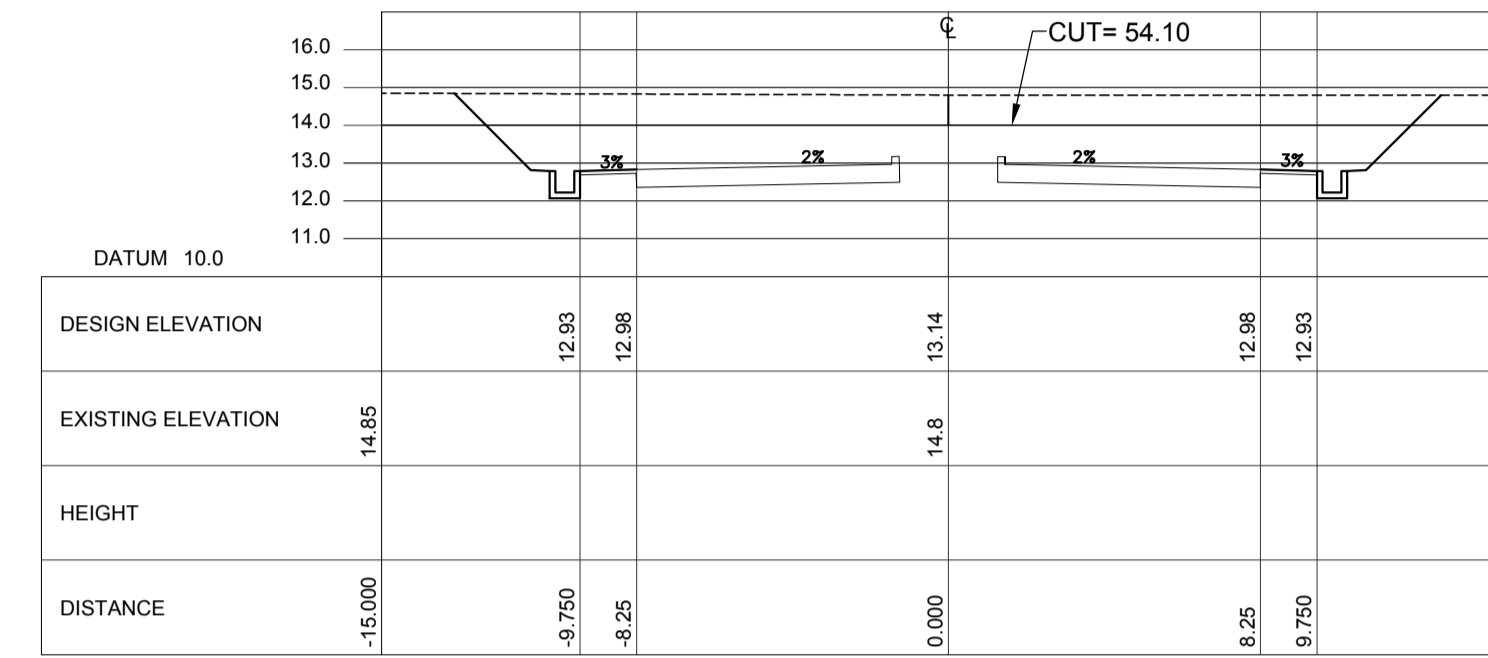
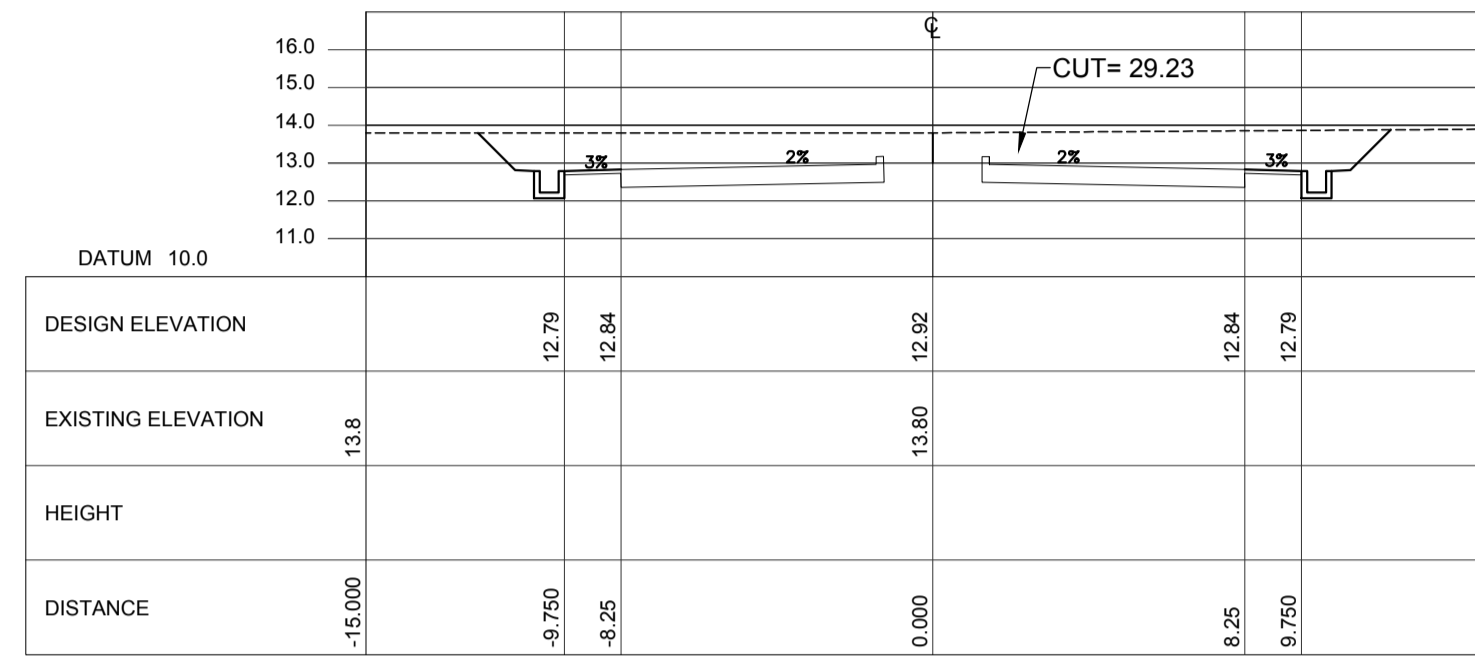
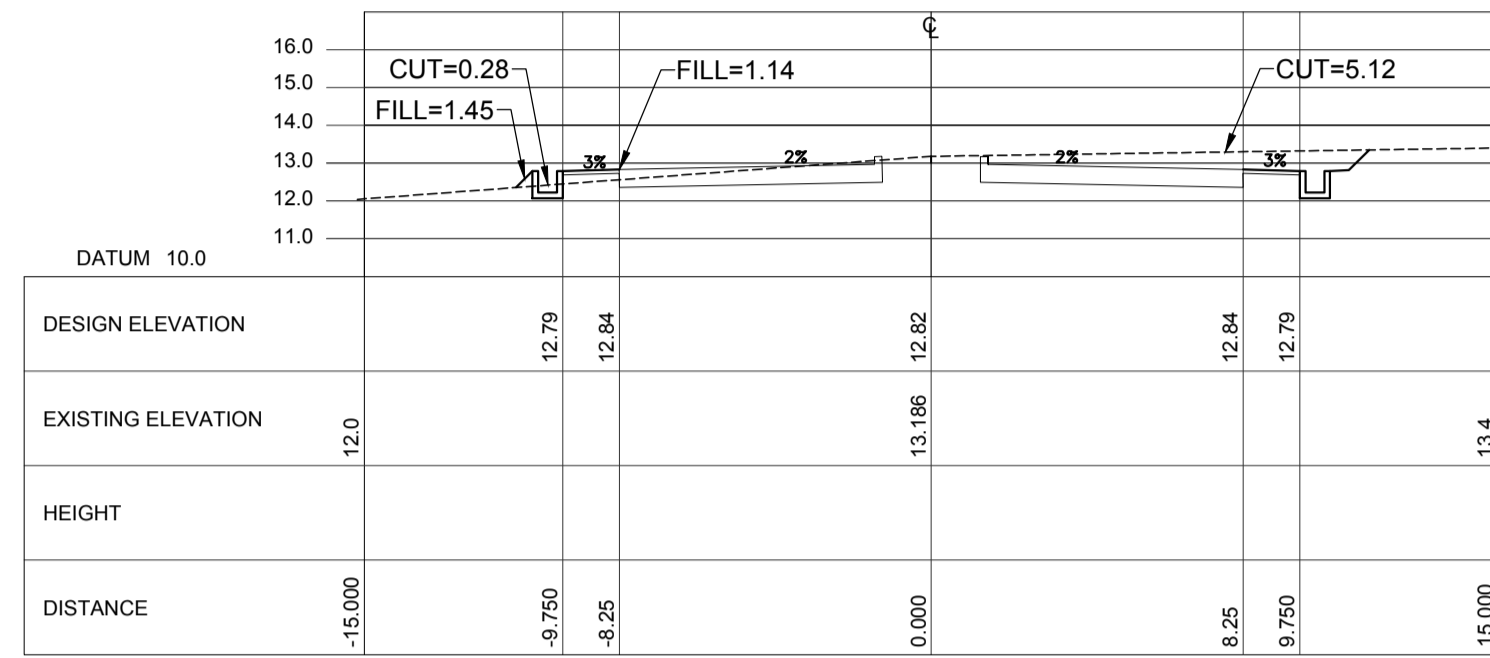
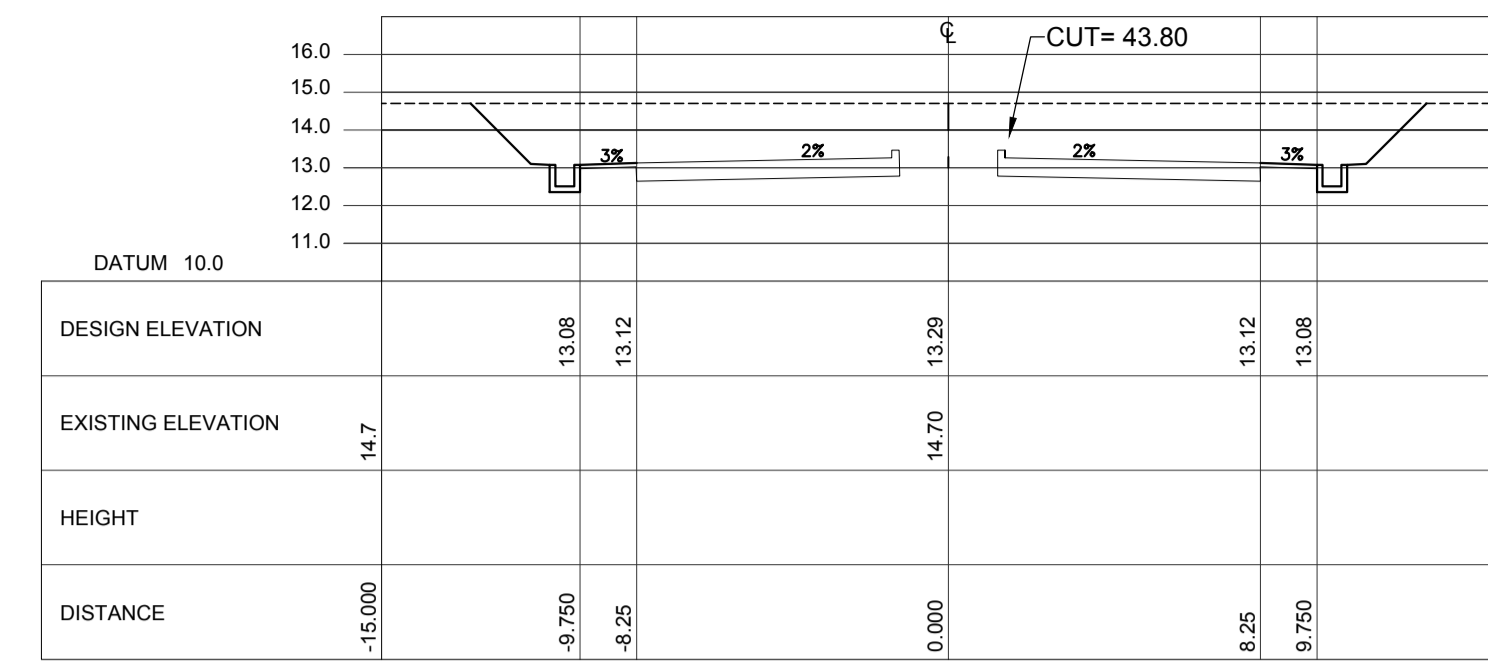
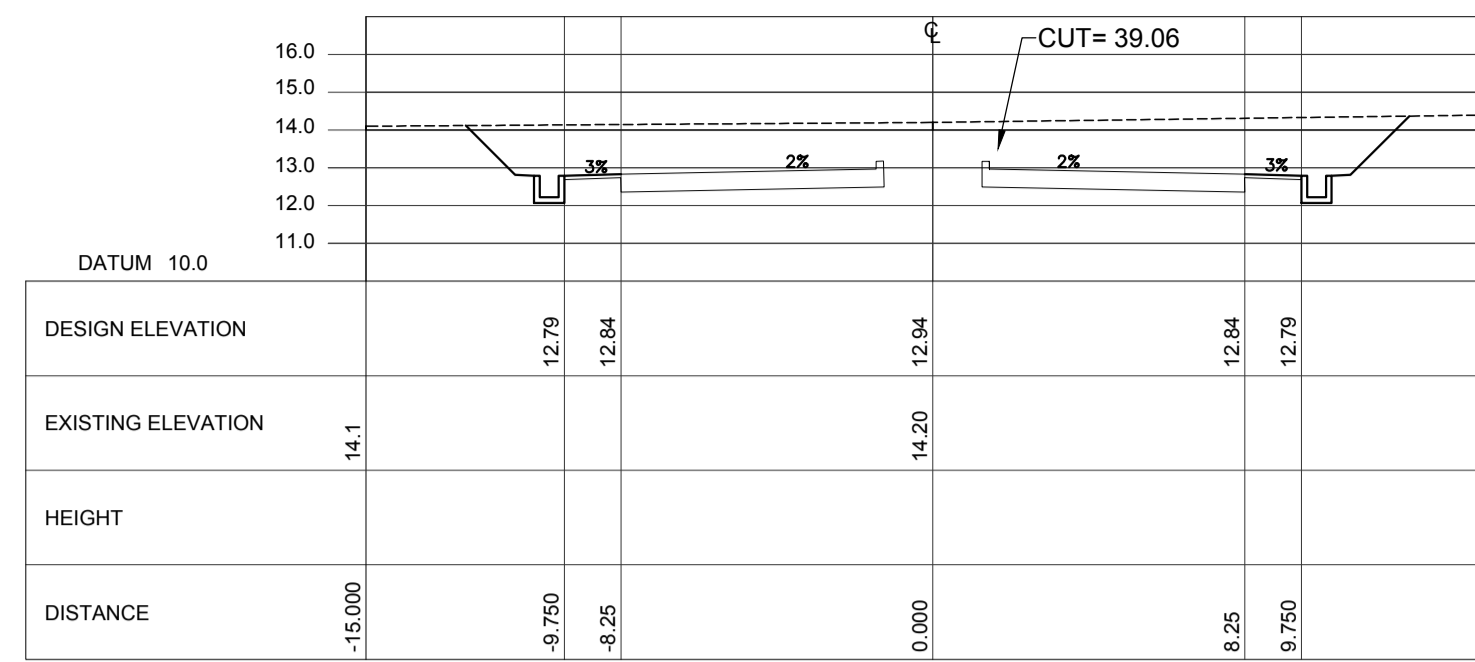
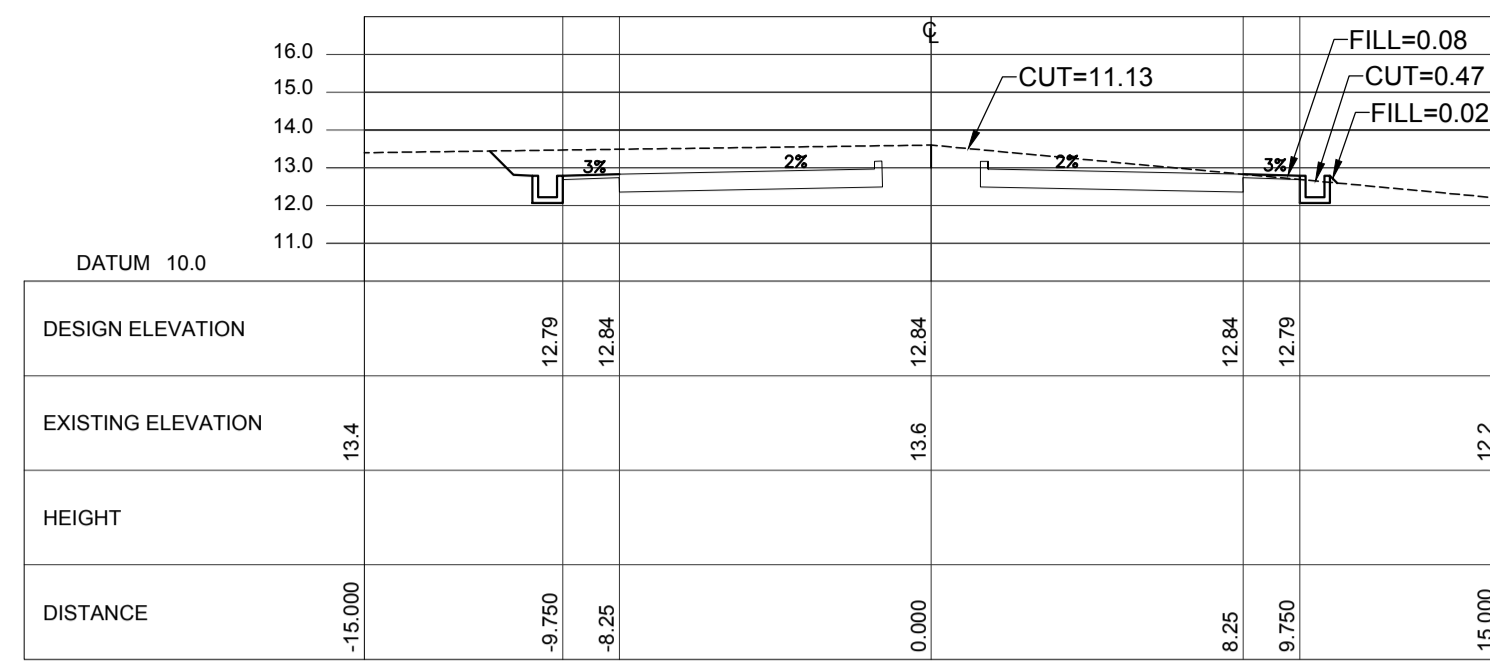
PREPARED BY: ERACIO T. PATDU
 PROF. CIVIL ENGINEER PIR. 3158241
 REG. NO.: 34252 DATE: JULY 18, 2013
 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY
 TADASHI AOI Team Leader

RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC

APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC
 PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT
 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

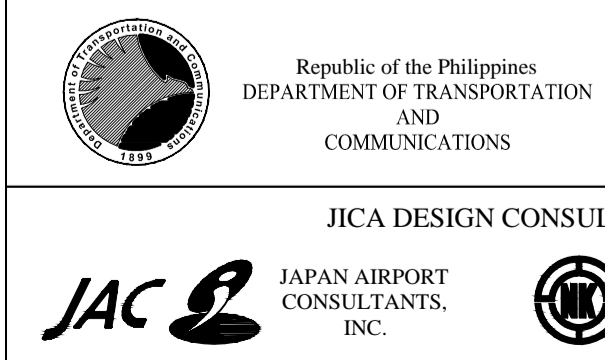
SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD CROSS SECTION (8)
 SHEET NO: C1-2100-16
 DRAWING SCALE: AS SHOWN



ACCESS ROAD CROSS SECTION Sta. 2+400 ~Sta. 2+680

VERTICAL SCALE: 1:5000 m. HORIZONTAL SCALE: 1:5000 m.

LEGEND:



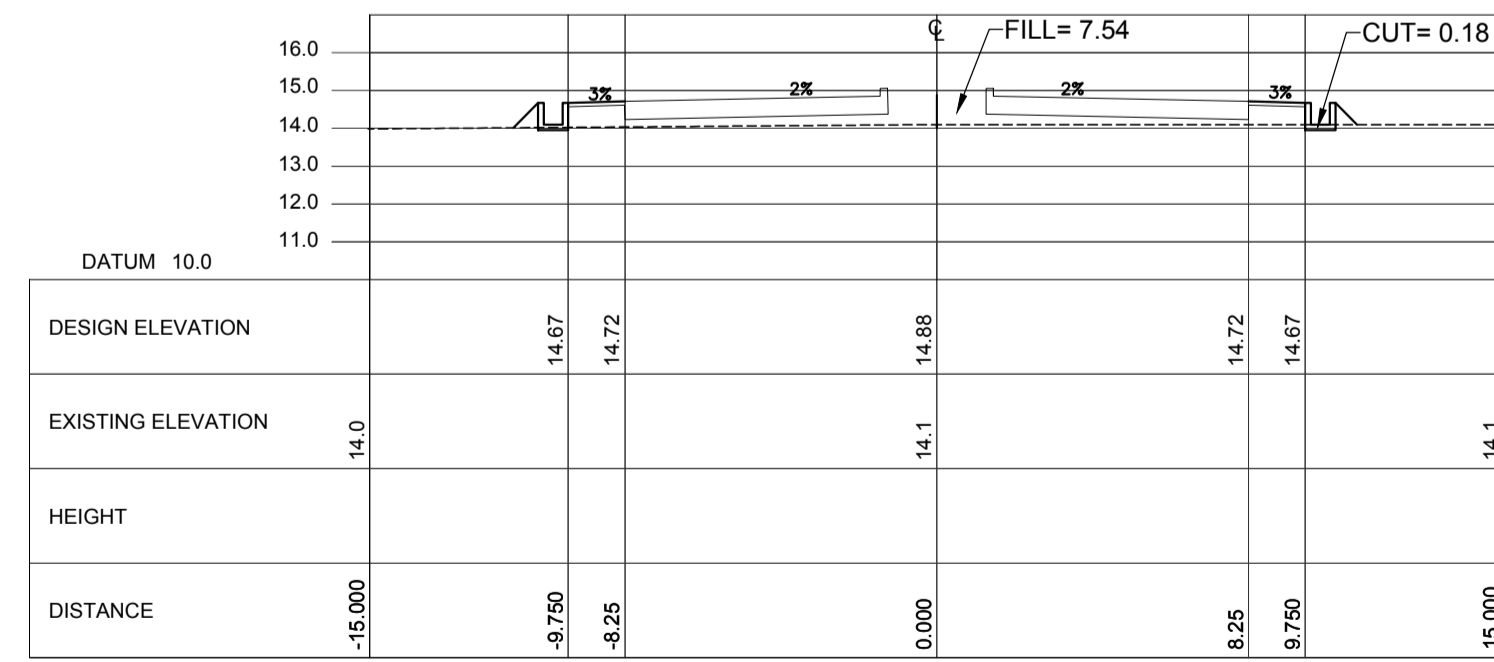
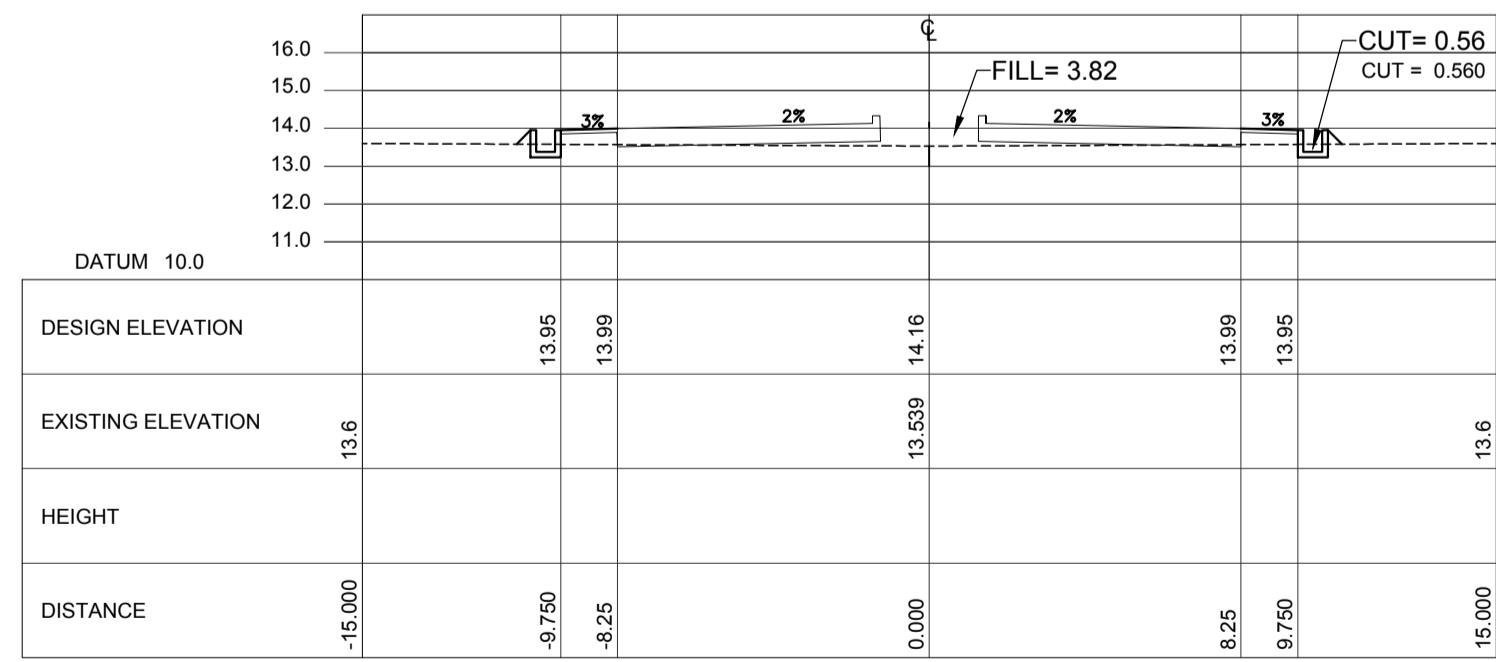
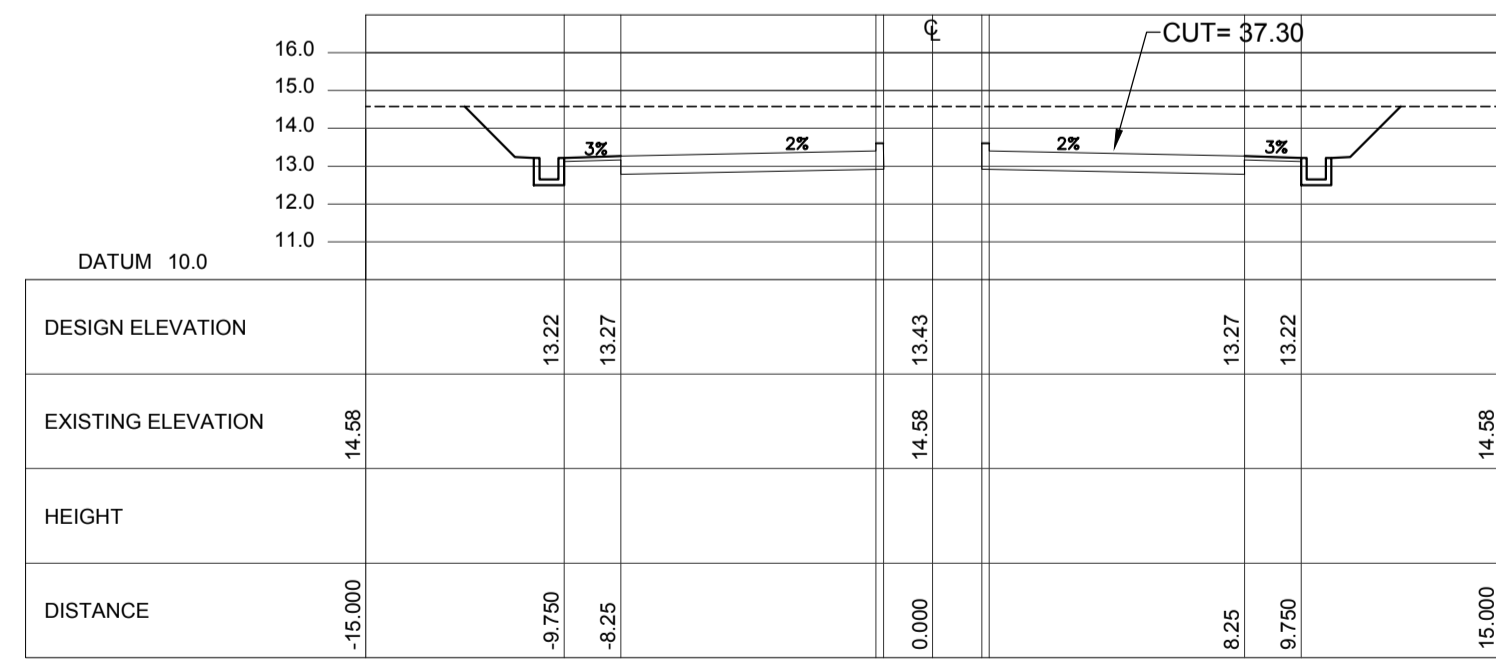
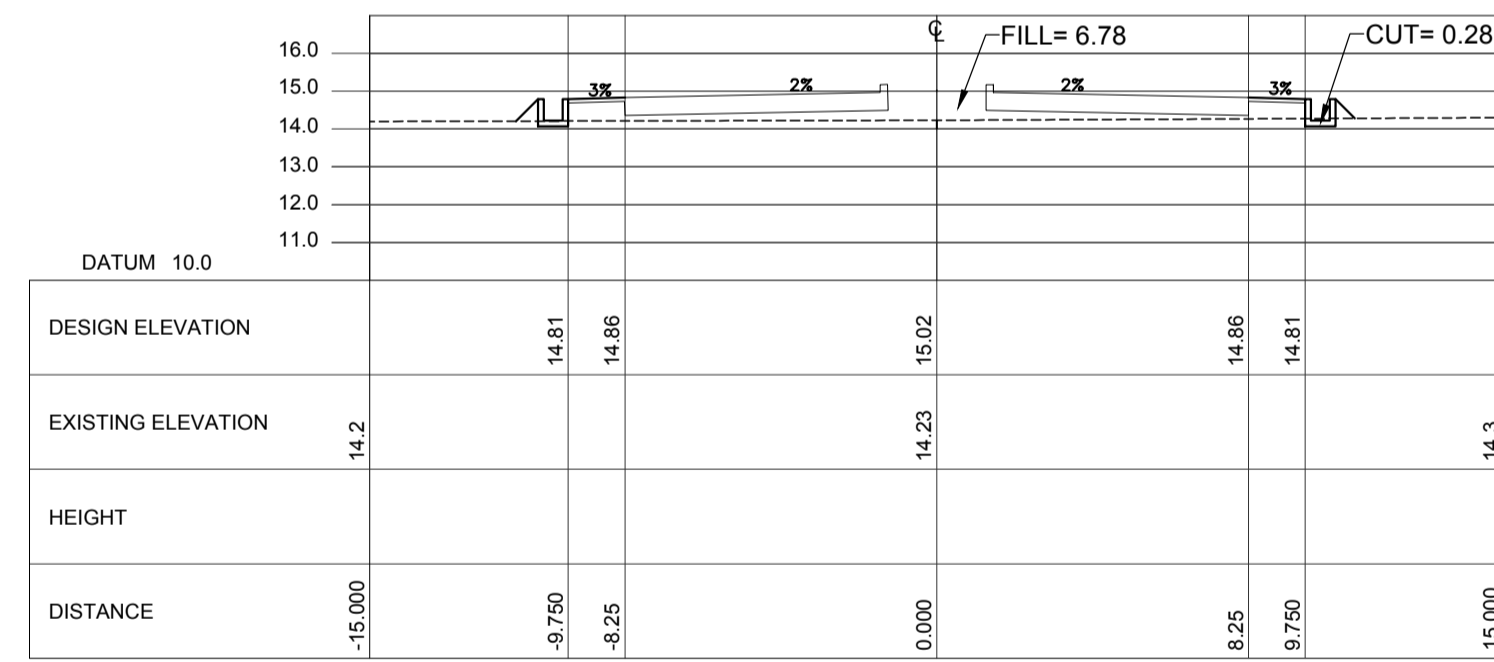
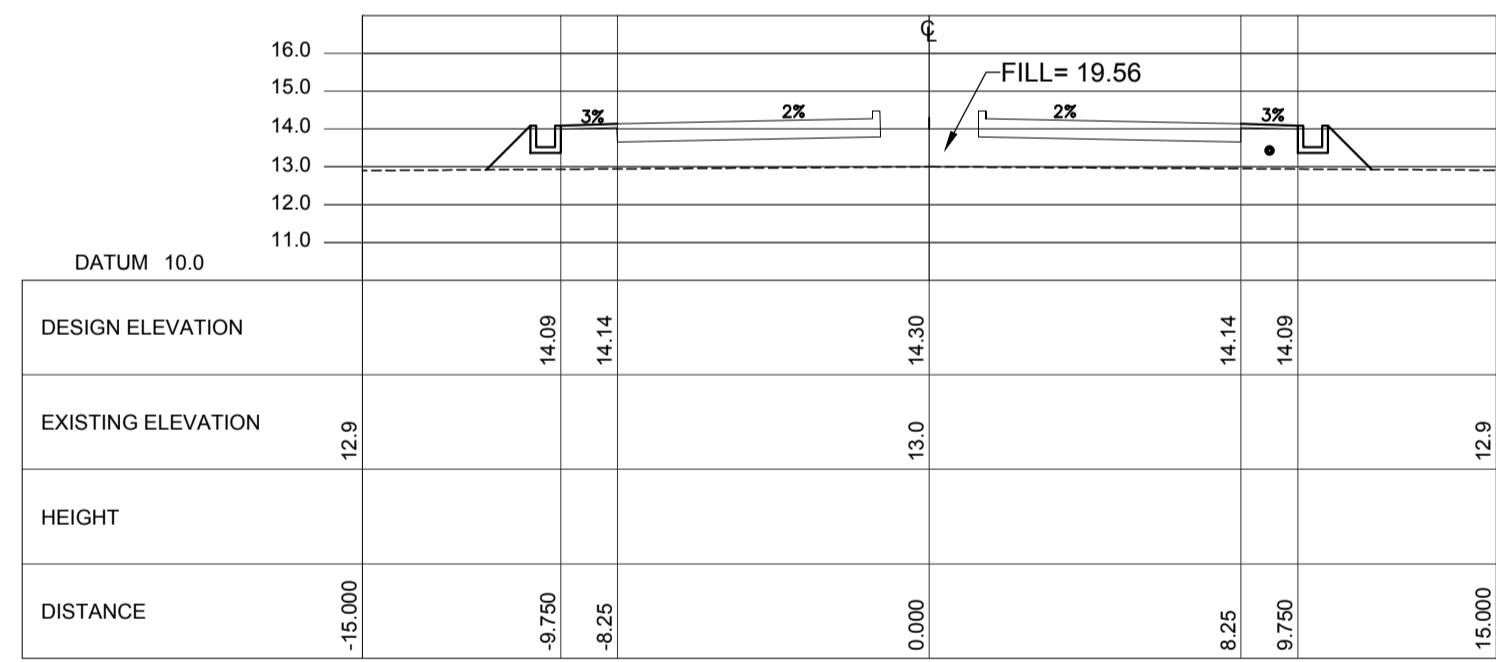
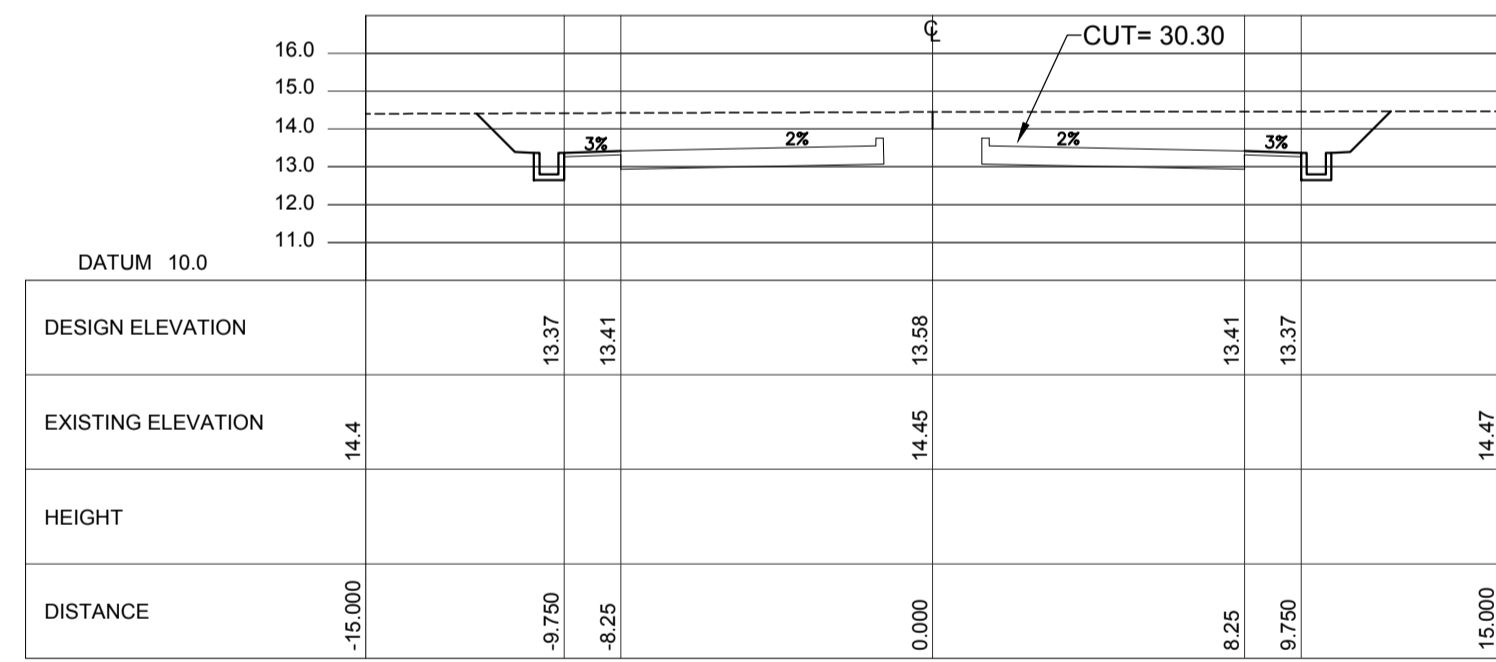
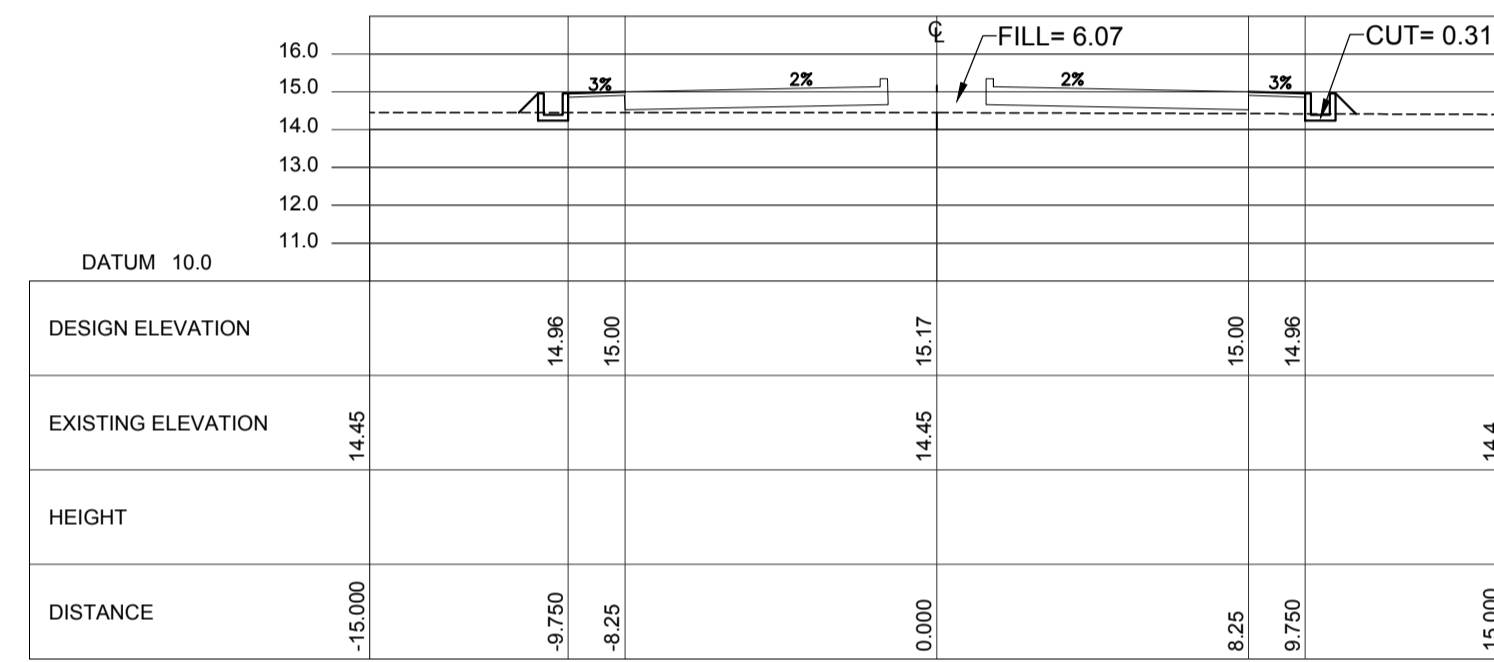
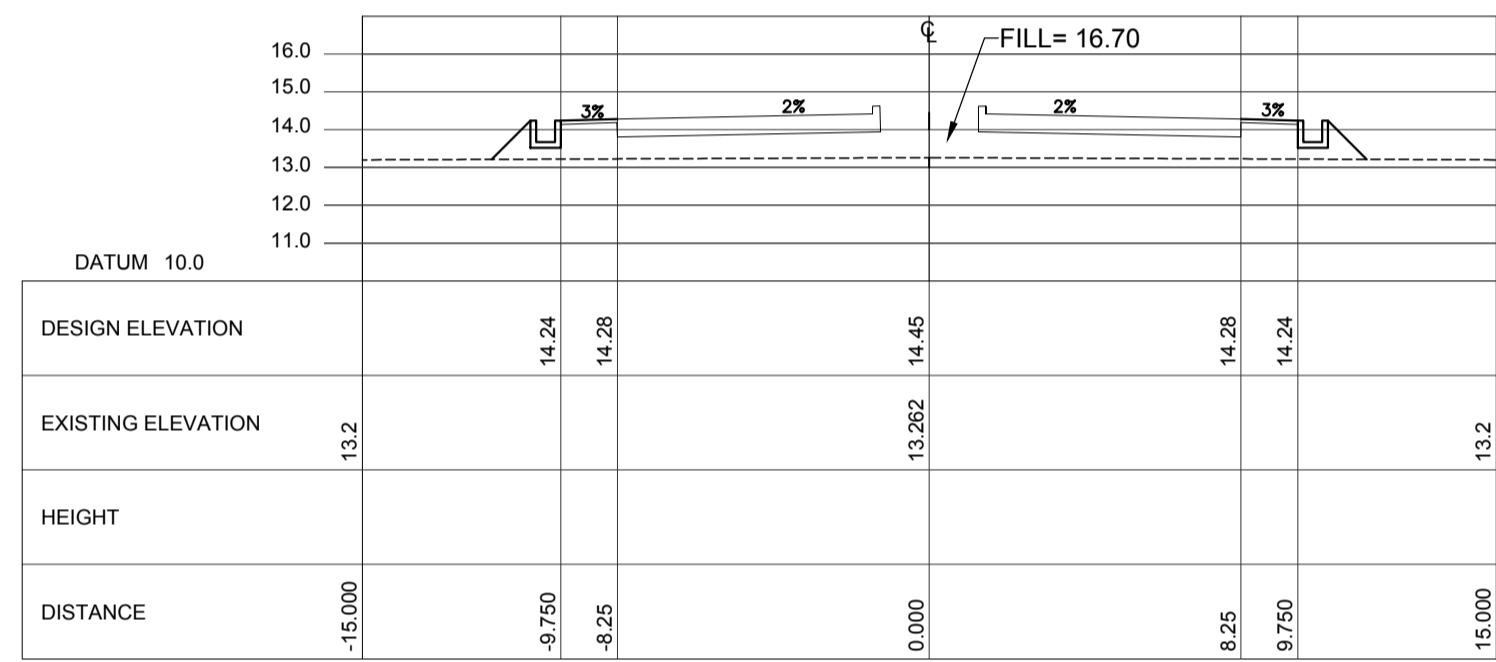
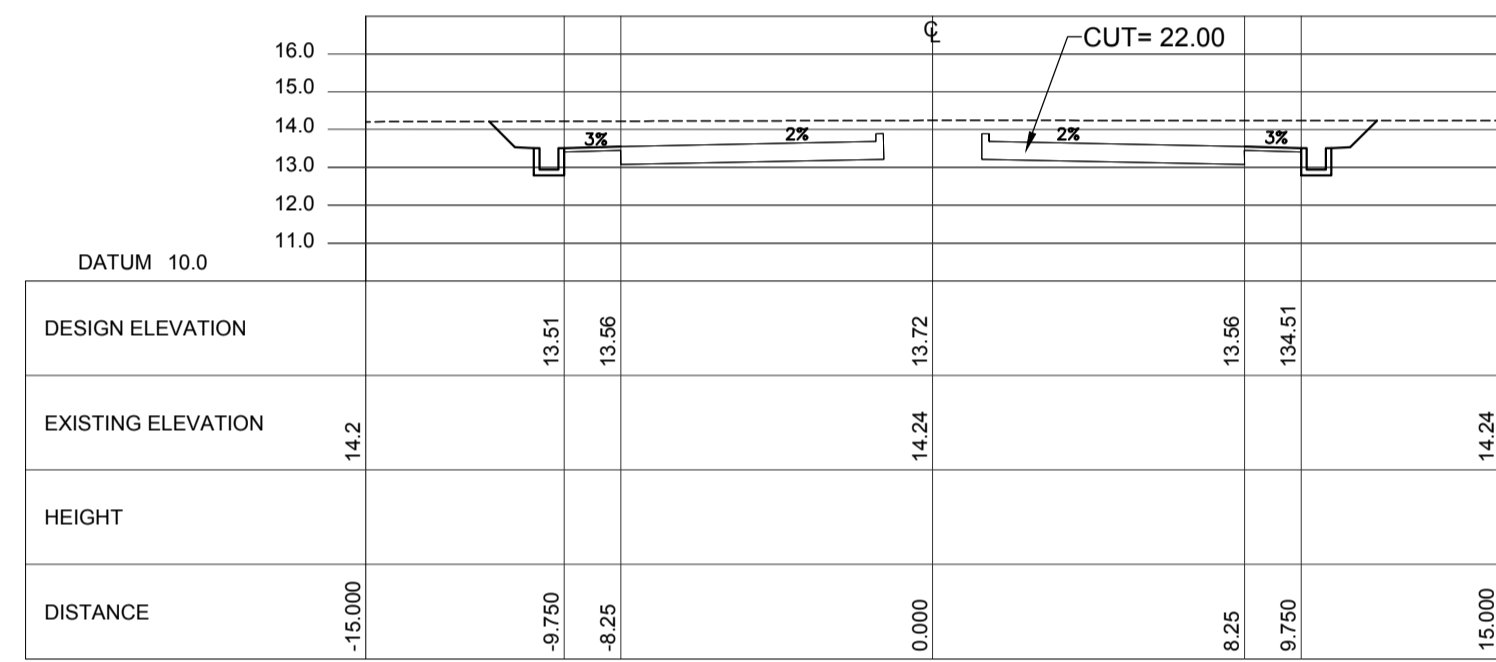
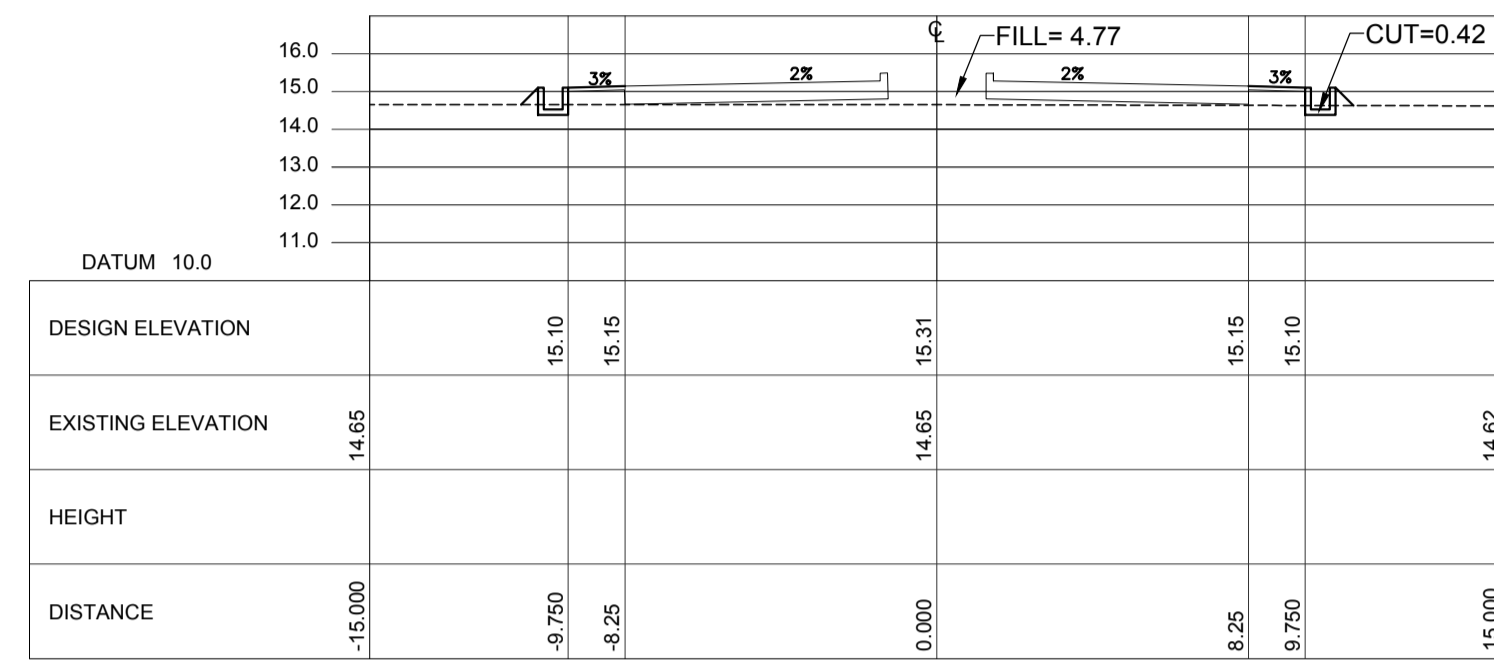
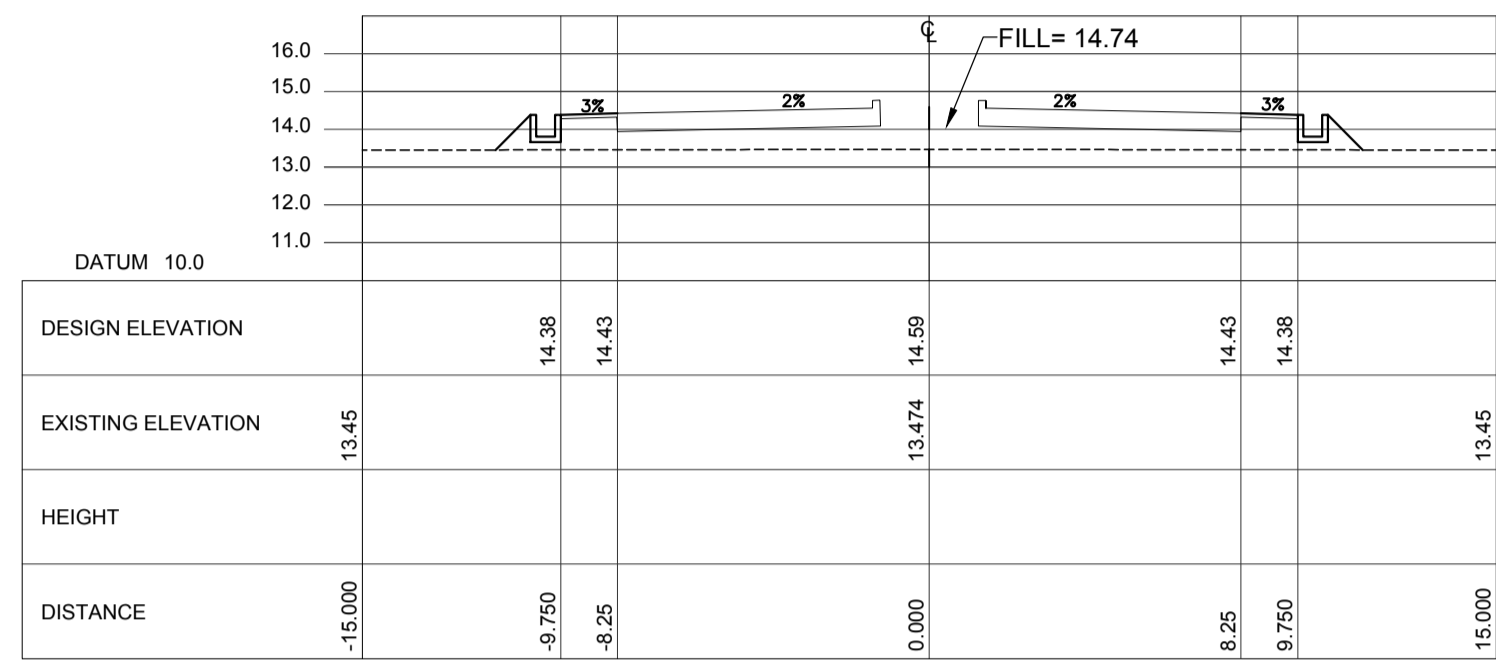
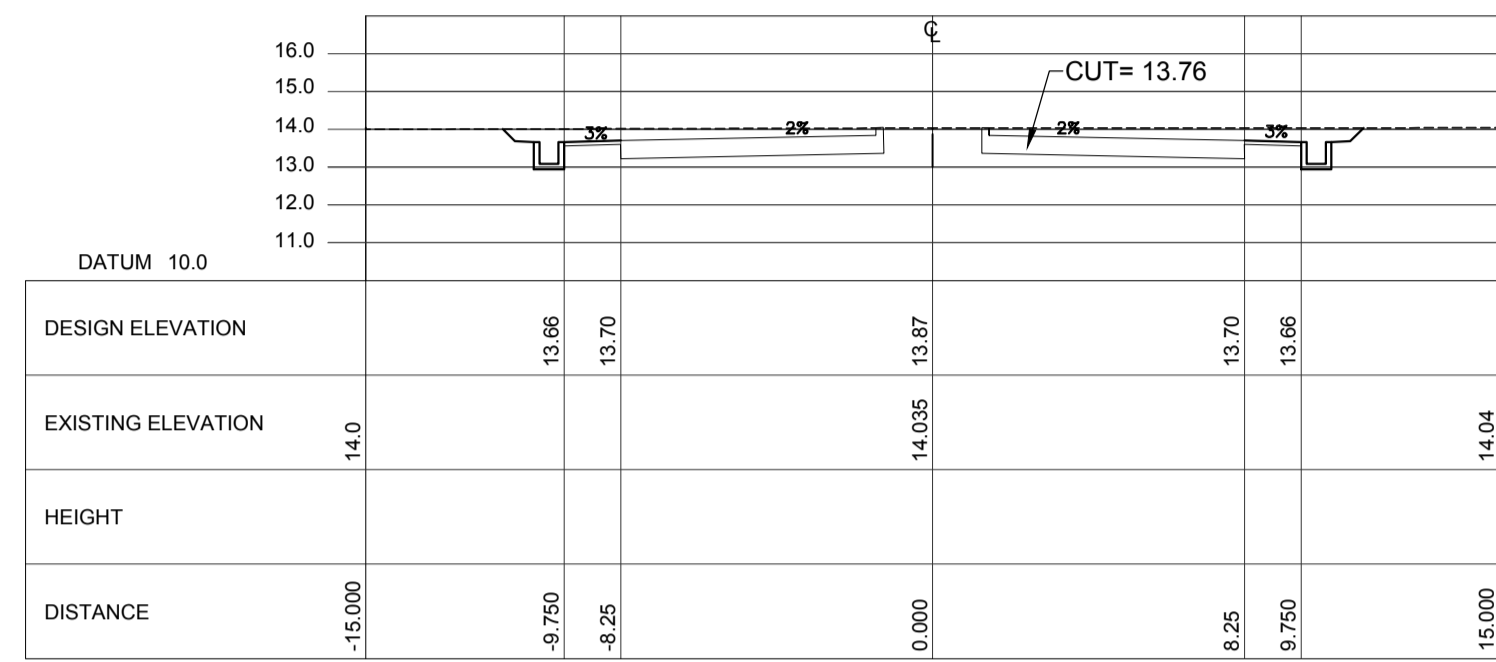
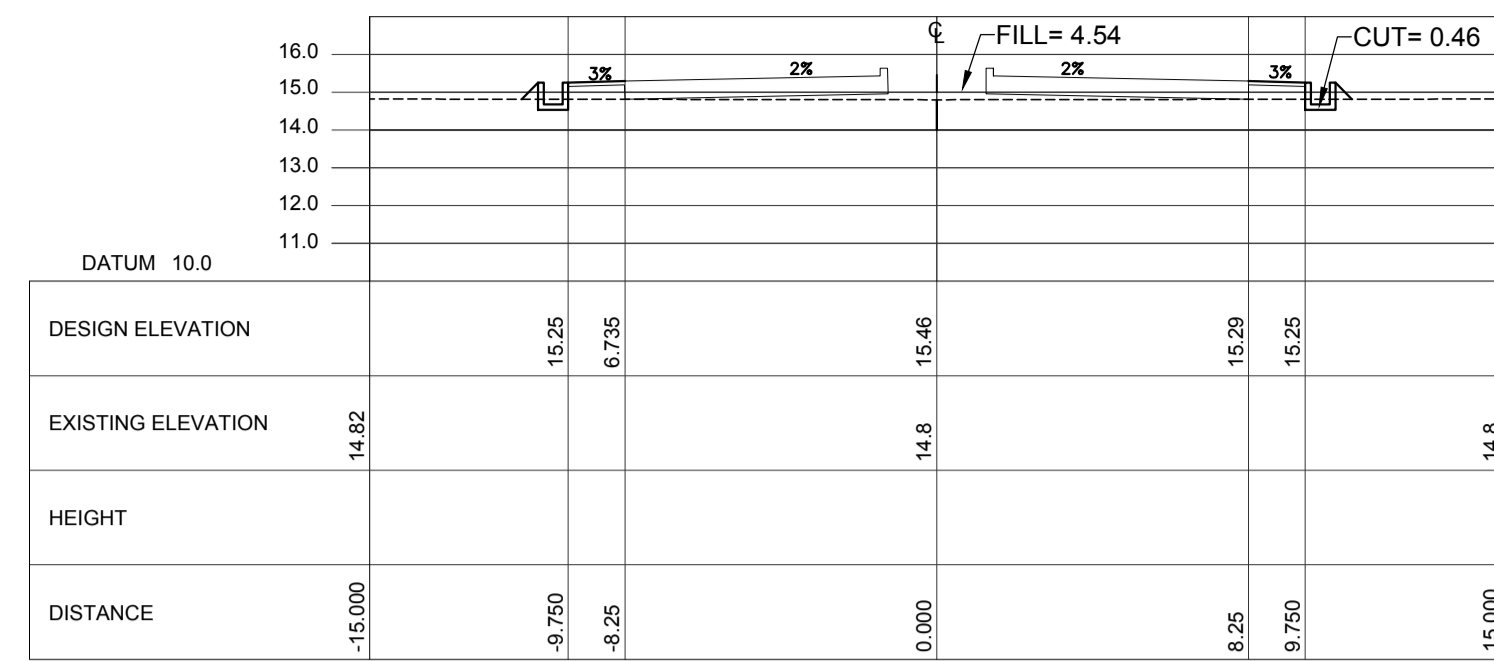
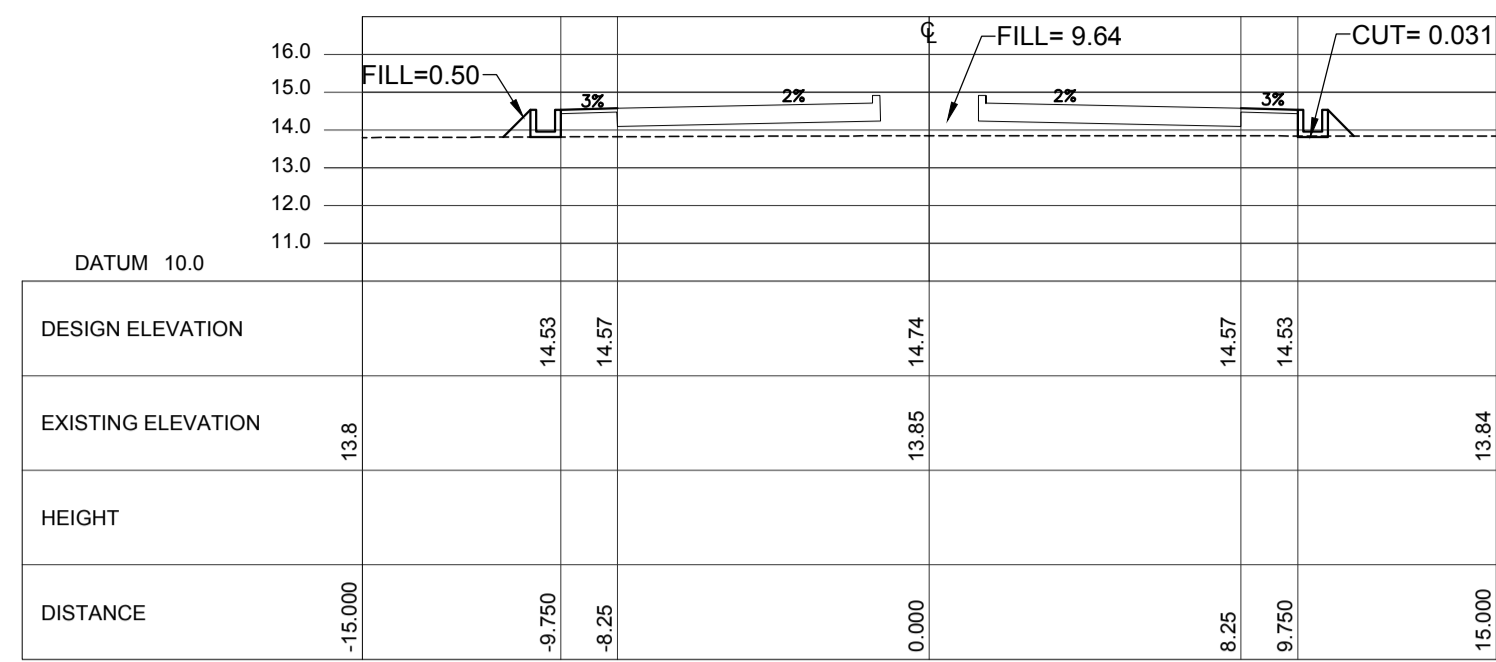
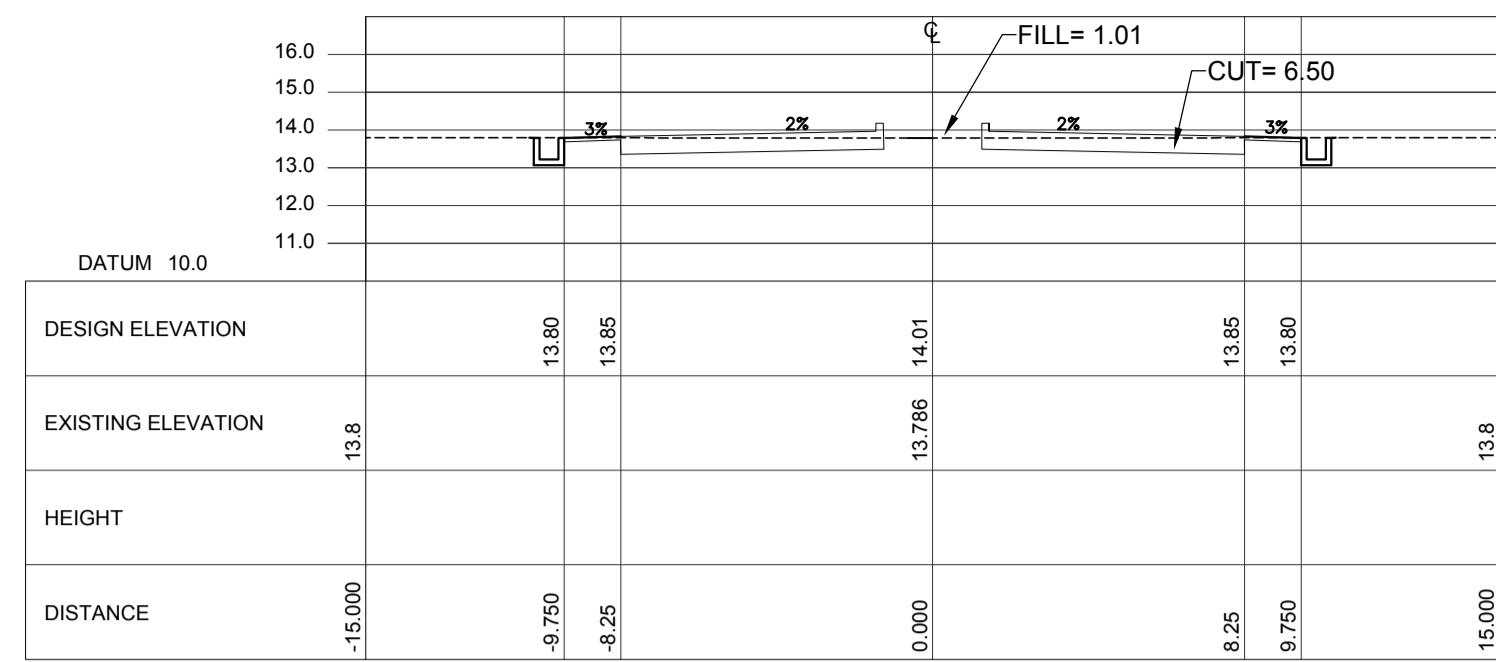
PREPARED BY: ERACIO T. PATDU
 RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC
 APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC

PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT
 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD CROSS SECTION (9)

SHEET NO: C1-2100-17
 DRAWING SCALE: AS SHOWN



ACCESS ROAD CROSS SECTION Sta. 2+700 ~Sta. 2+980

VERTICAL SCALE: 1:5000 m. HORIZONTAL SCALE: 1:5000 m.

LEGEND:
 - - - - -
 - - - - -

Republic of the Philippines
 DEPARTMENT OF TRANSPORTATION
 AND
 COMMUNICATIONS

JICA
 JAPAN INTERNATIONAL COOPERATION AGENCY

JICA DESIGN CONSULTANT JOINT VENTURE

JAC JAPAN AIRPORT CONSULTANTS, INC.
NK NIPPON KOEI CO., LTD.
NIS NIS CONSULTANTS CO., LTD.

PREPARED BY:
ERACIO T. PATDU
 PROF. CIVIL ENGINEER PIR. 3158241
 REG. NO.: 34252 DATE: JULY 18, 2013
 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY

TADASHI AOI
 Team Leader

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
 Assistant Secretary
 for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
 Undersecretary
 for Project Implementation, DOTC

PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

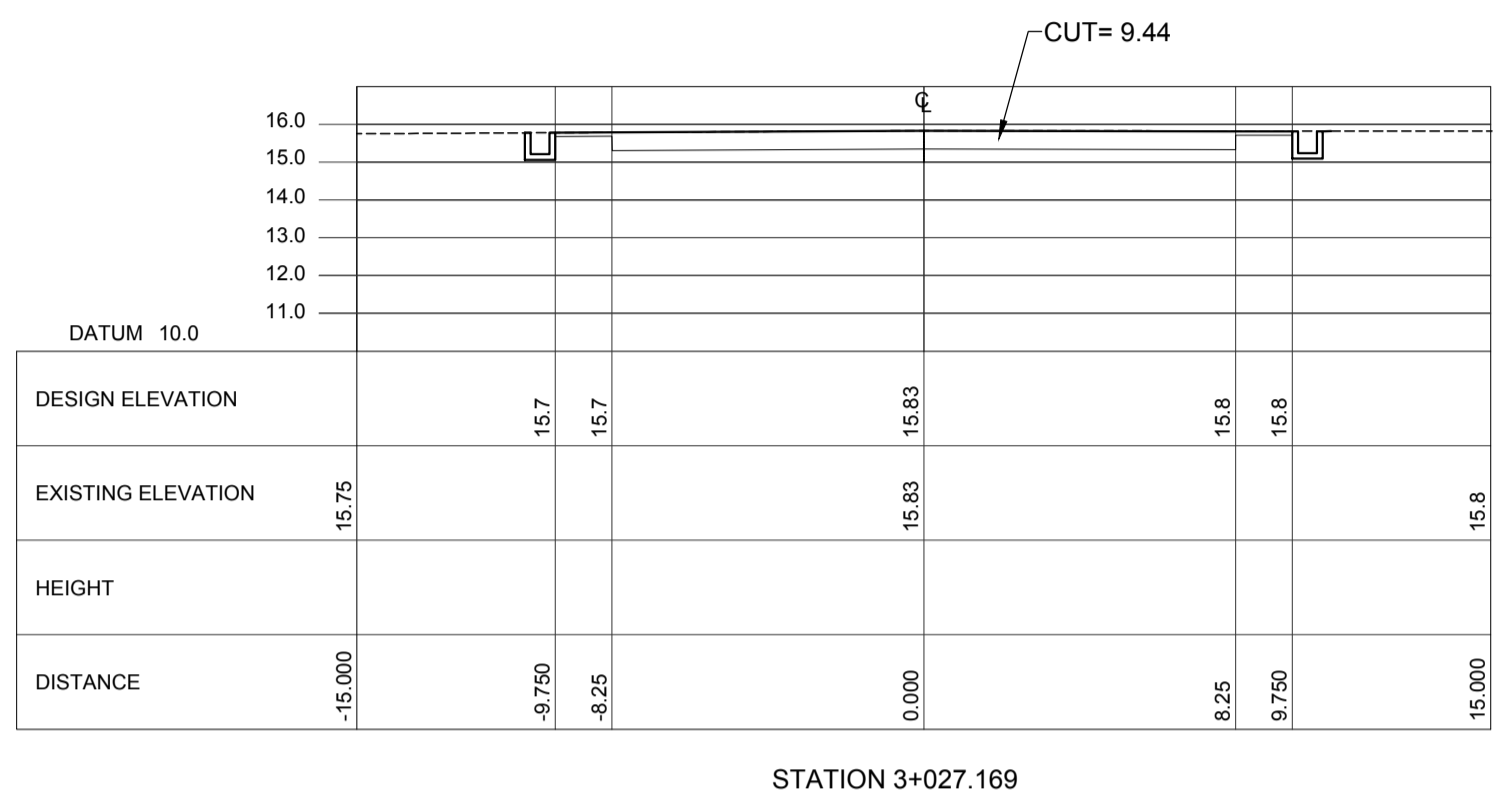
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

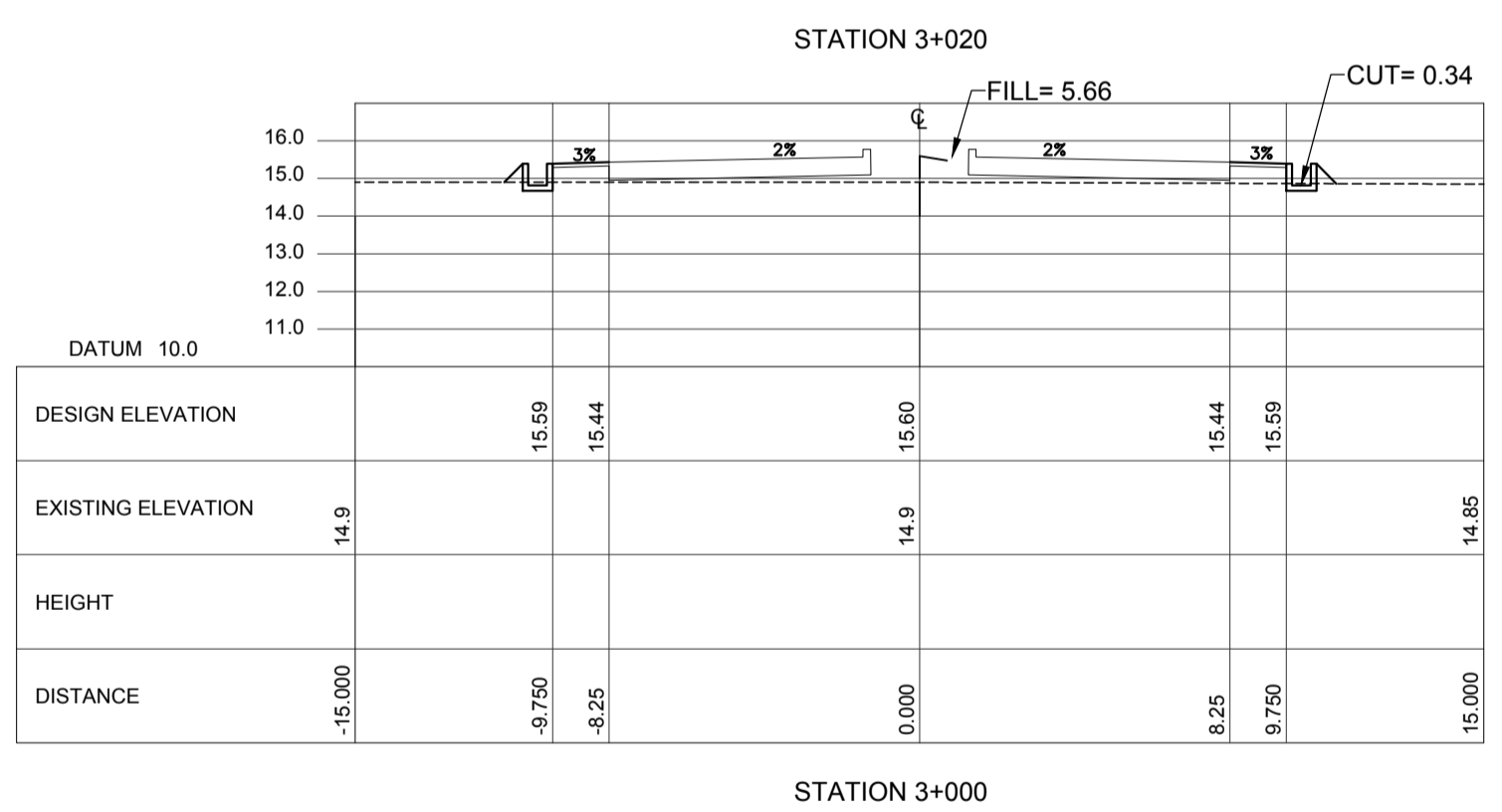
SHEET CONTENTS:
 COMPONENT-2 CIVIL WORKS (C)
 SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS
 ACCESS ROAD CROSS SECTION (10)

SHEET NO:
C1-2100-18

DRAWING SCALE:
 AS SHOWN



STATION 3+027.169



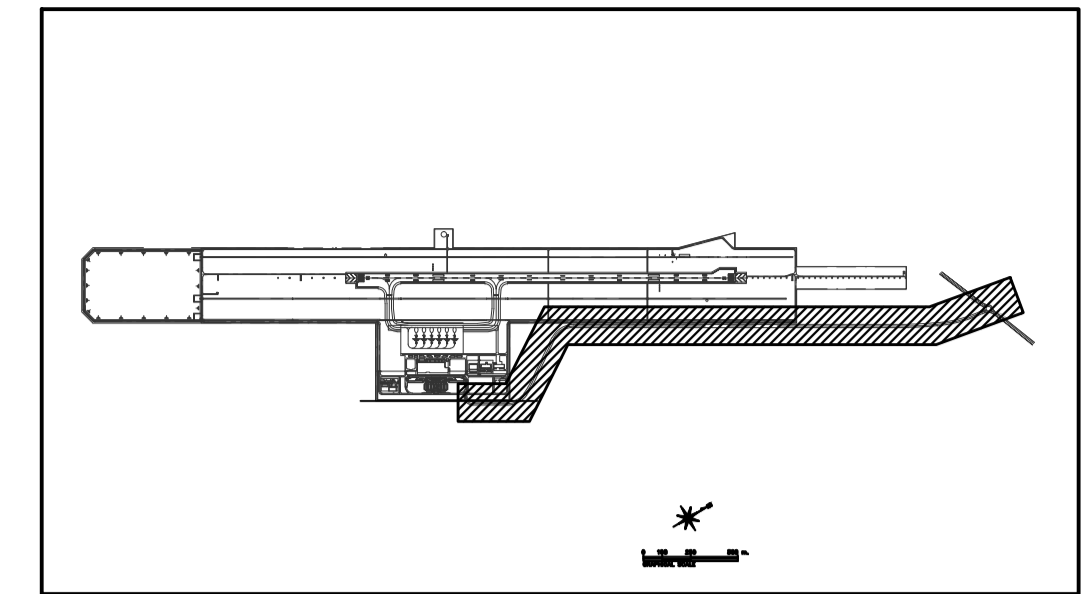
STATION 3+000

ACCESS ROAD CROSS SECTION Sta. 3+000 ~Sta. 3+027.169

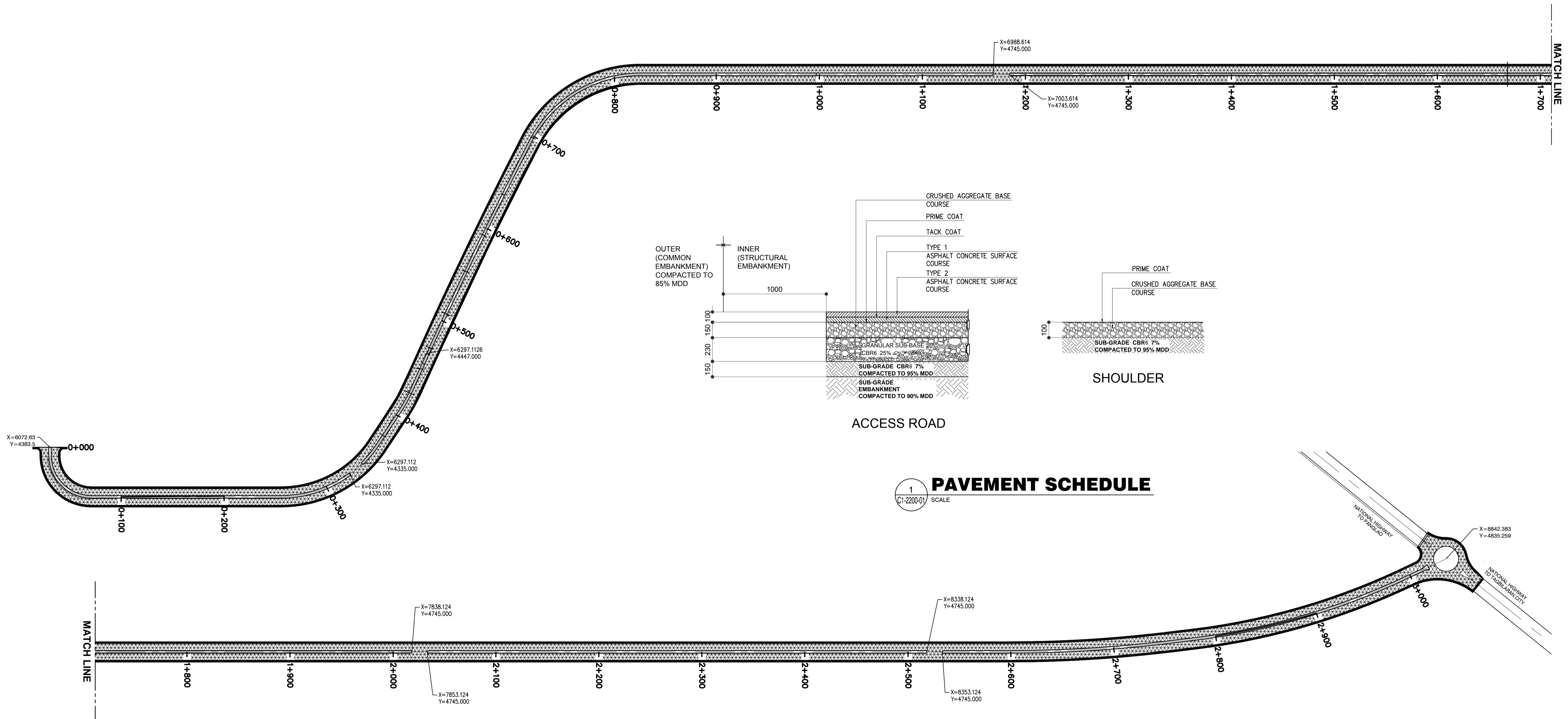
LEGEND:

 - - - - -

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241</small> <small>REG. NO. 34252 DATE: JULY 18, 2013</small> <small>T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD EARTH WORKS ACCESS ROAD CROSS SECTION (11)	SHEET NO: C1-2100-19
	JICA DESIGN CONSULTANT JOINT VENTURE TADASHI AOI <small>Team Leader</small>	JICA DESIGN CONSULTANT JOINT VENTURE JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	JUNE 2013 DATE INDEX AMENDMENTS Prepared by Checked by Validated by	DRAWING SCALE: AS SHOWN			



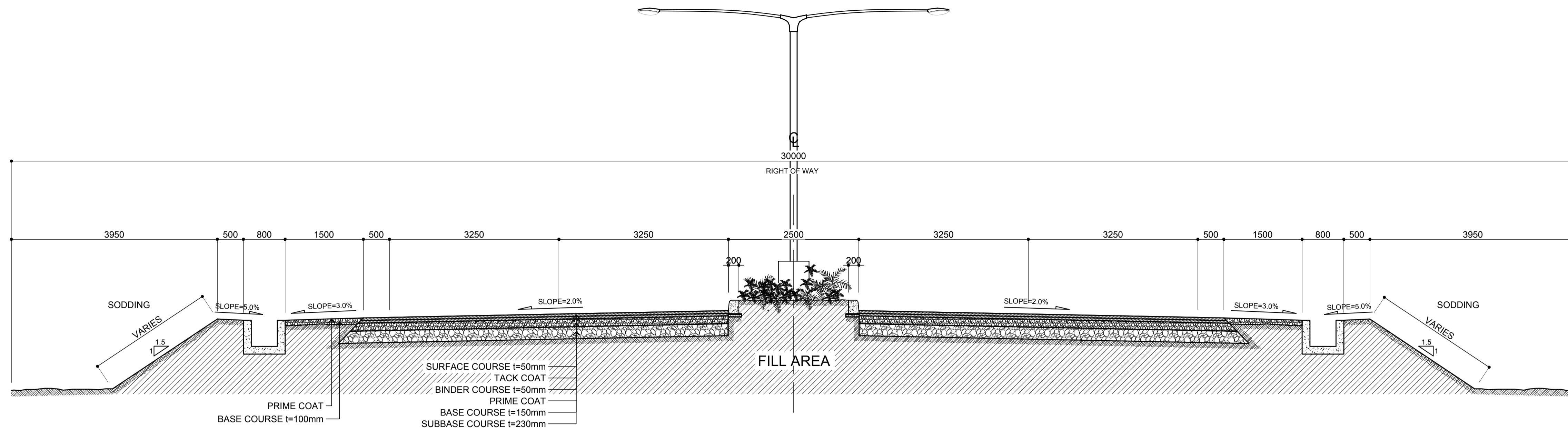
KEY PLAN



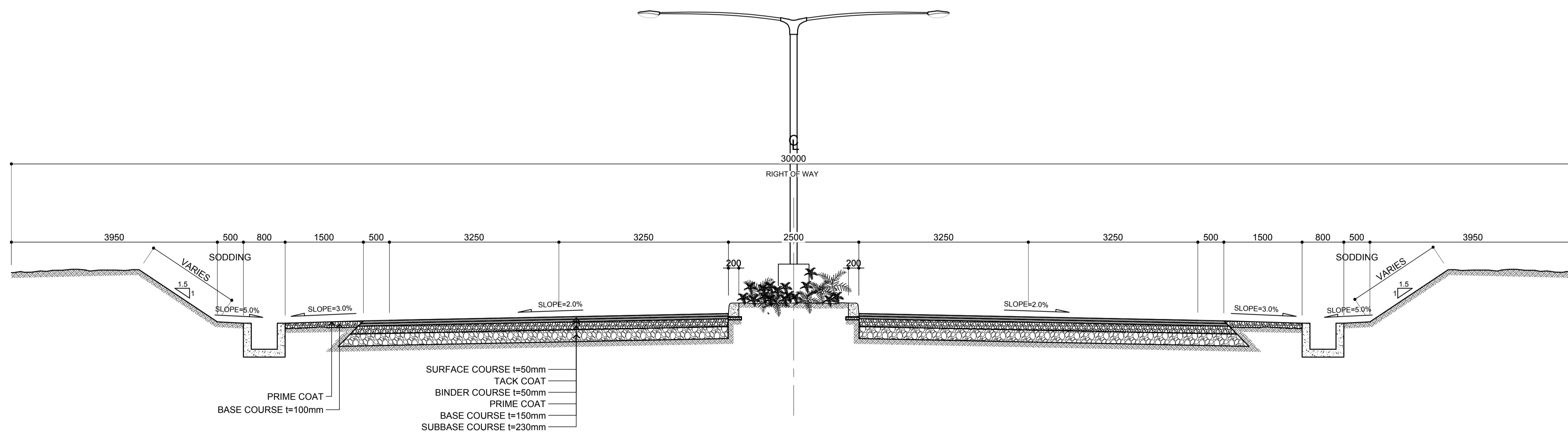
1 PAVEMENT SCHEDULE
C1-2200-01 SCALE

2 ACCESS ROAD PAVEMENT CLASSIFICATION LAYOUT PLAN & PAVEMENT SCHEDULE
C1-2200-01 SCALE 1:2000 m.

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEAM: 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD PAVEMENT WORKS ACCESS ROAD PAVEMENT CLASSIFICATION LAYOUT PLAN AND PAVEMENT SCHEDULE	SHEET NO: C1-2200-01
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:

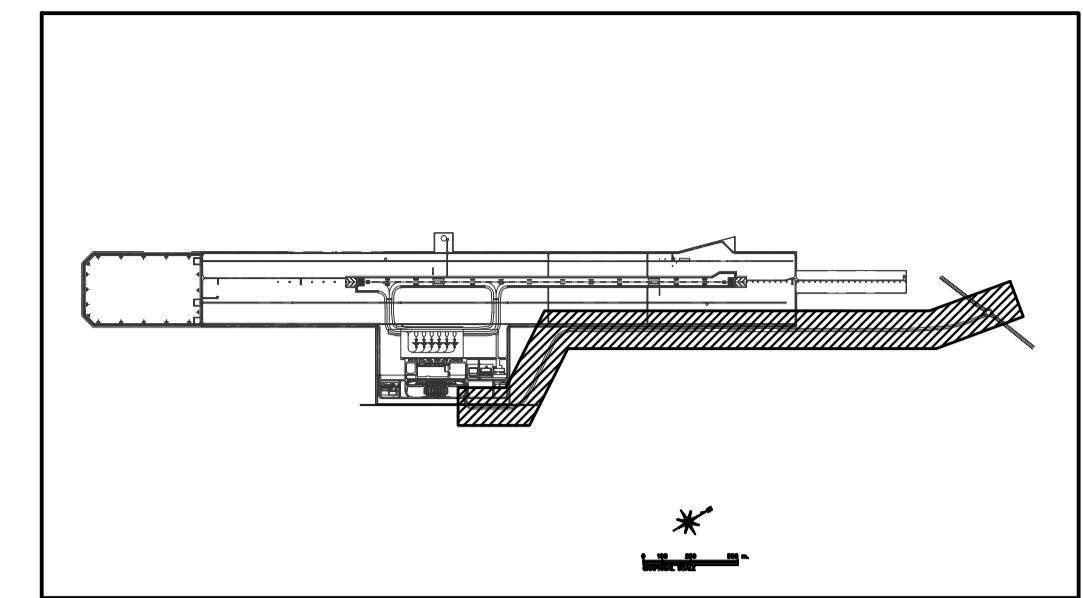


1 **TYPICAL CROSS SECTION AT FILL AREA**
C1-2200-02 SCALE 1:50 m.

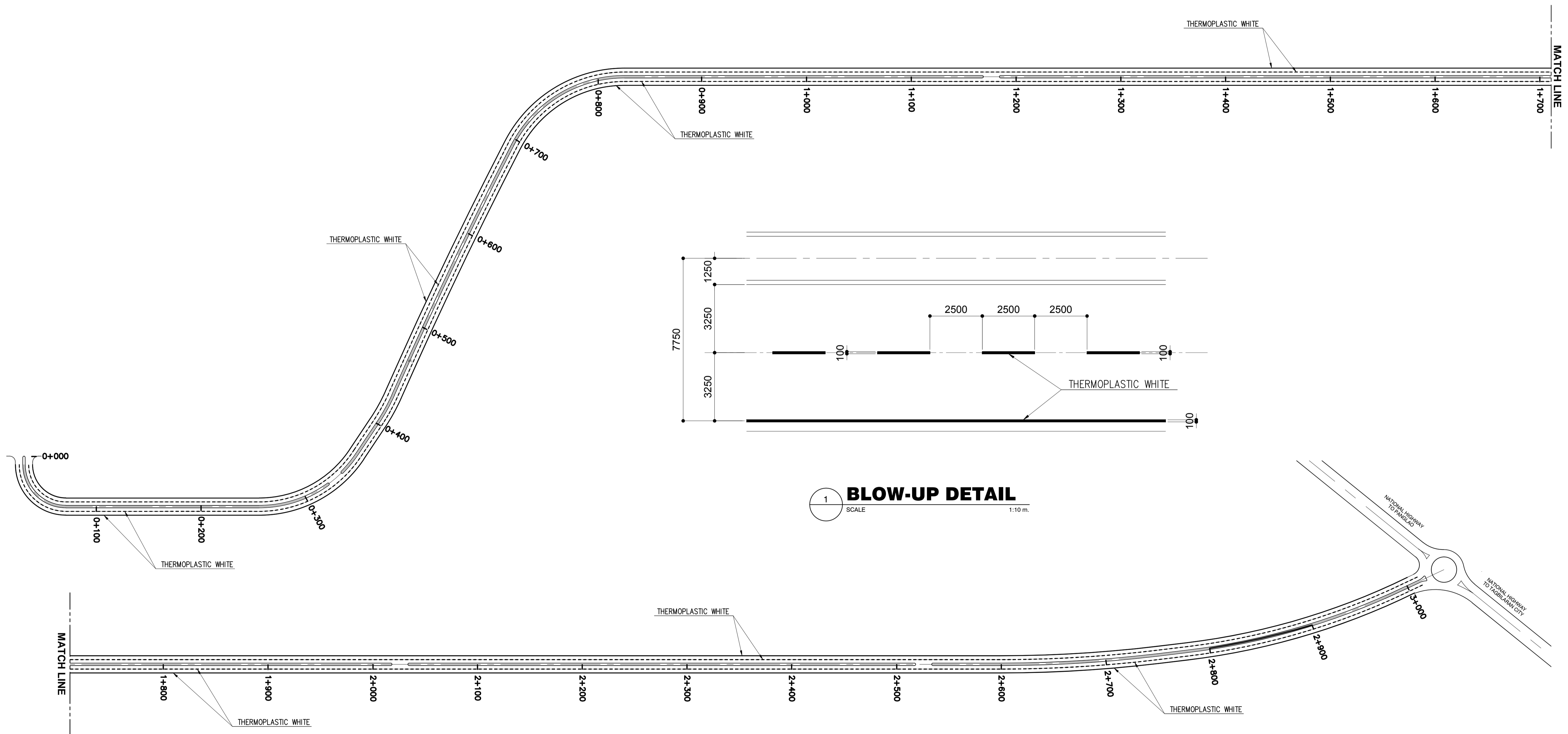


2 **TYPICAL CROSS SECTION AT CUT AREA**
C1-2200-02 SCALE 1:50 m.

	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD PAVEMENT WORKS ACCESS ROAD - TYPICAL CROSS SECTION	SHEET NO: C1-2200-02
	JICA DESIGN CONSULTANT JOINT VENTURE	JAC JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI CO., LTD.	TADASHI AOI Team Leader	JUN 2013	DATE INDEX AMENDMENTS	Prepared by Checked by Validated by	WIM HC	DRAWING SCALE: 1:50 m.



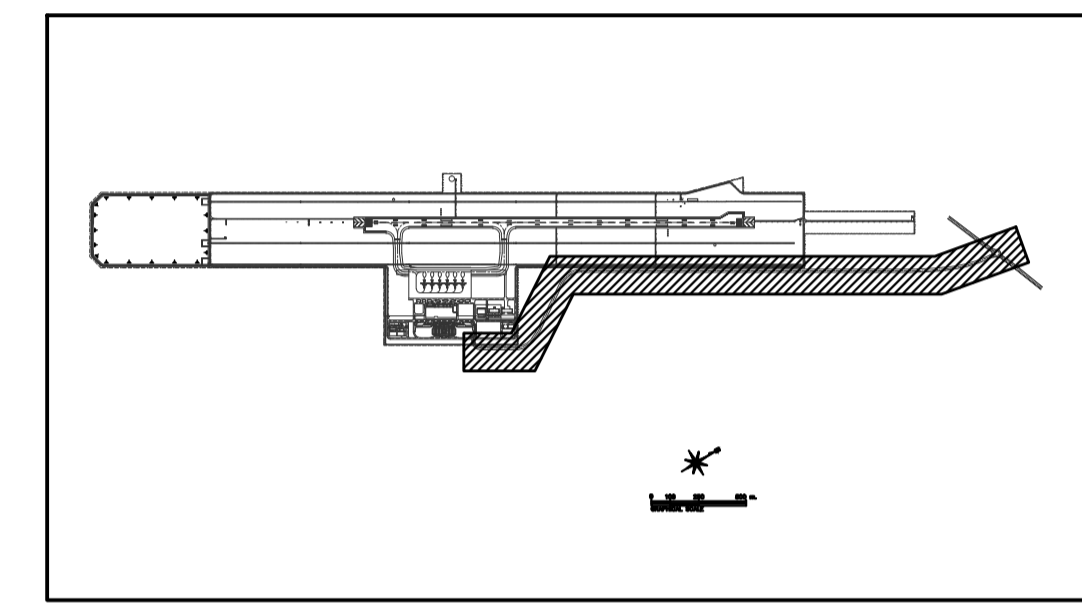
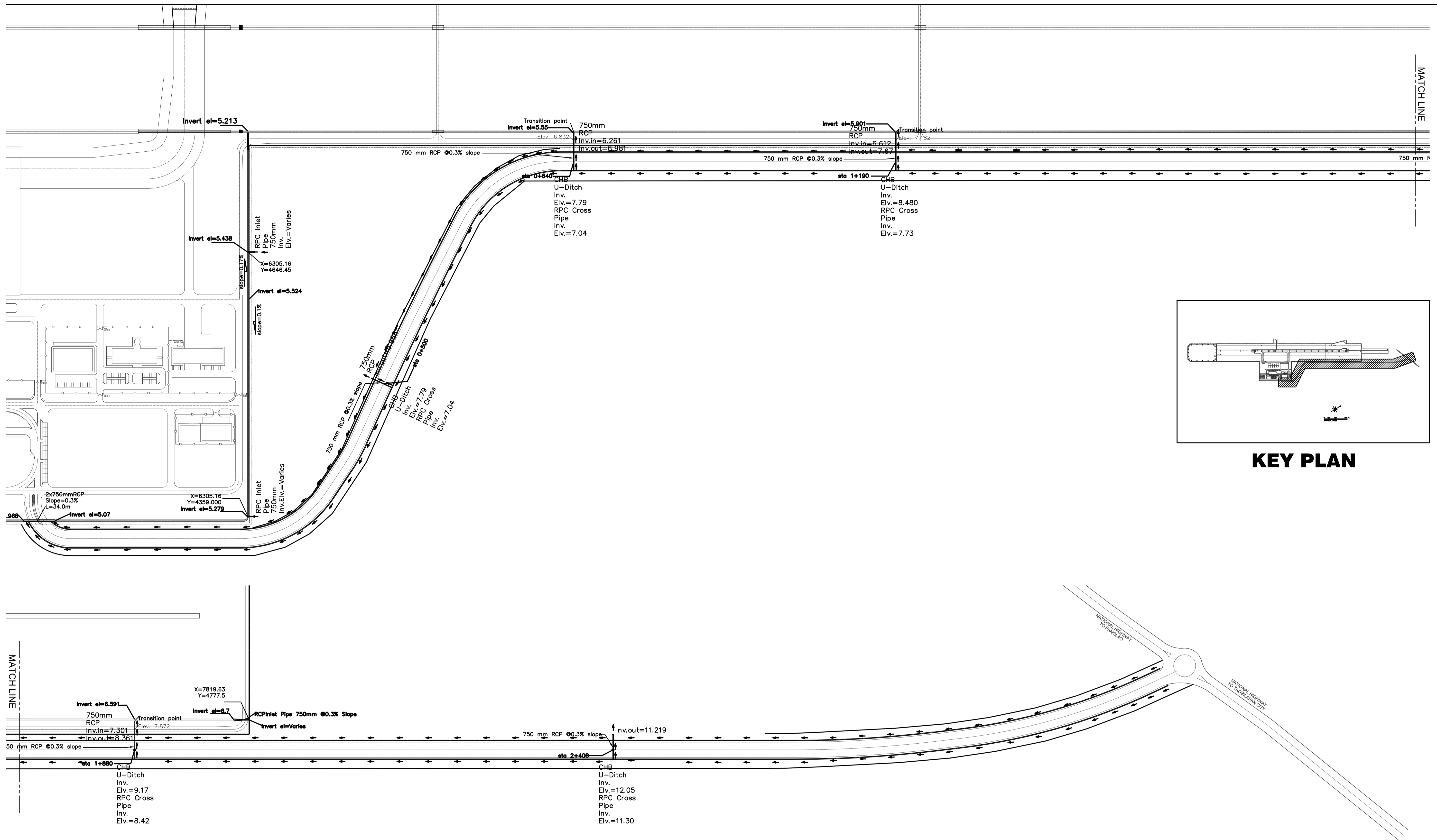
KEY PLAN



1 BLOW-UP DETAIL
SCALE 1:10 m.

2 ACCESS ROAD PAVEMENT MARKING LAYOUT PLAN
SCALE 1:2000 m.

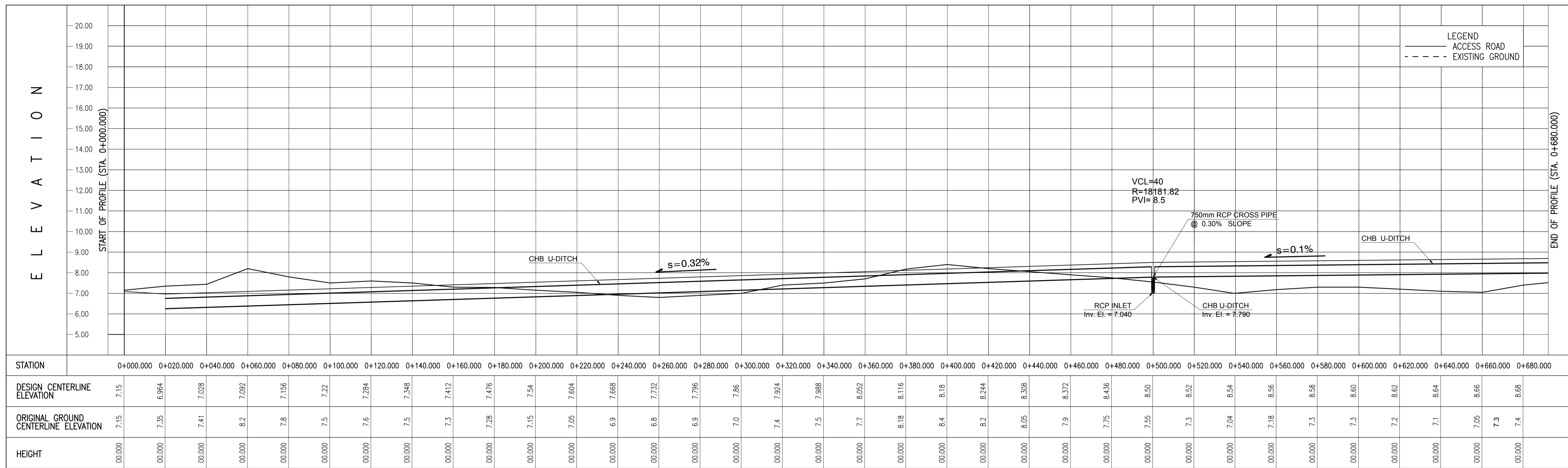
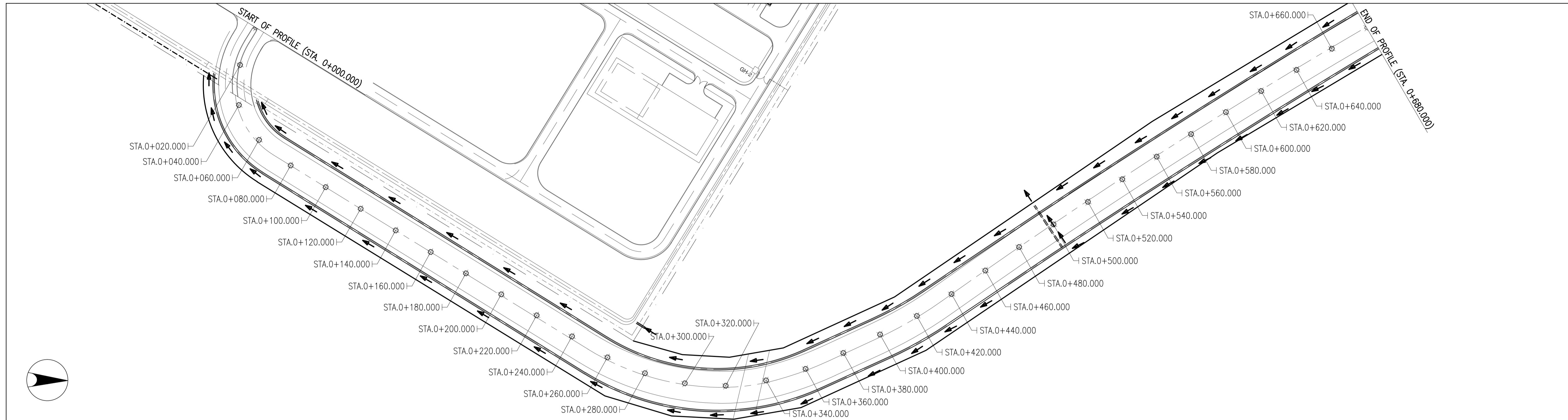
	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEAM: 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD PAVEMENT WORKS ACCESS ROAD PAVEMENT MARKING LAYOUT PLAN	SHEET NO: C1-2200-03
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JULY 2013	DATE INDEX AMENDMENTS	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN	



KEY PLAN

1 ACCESS ROAD DRAINAGE LAYOUT PLAN
SCALE: 1:2000 m.

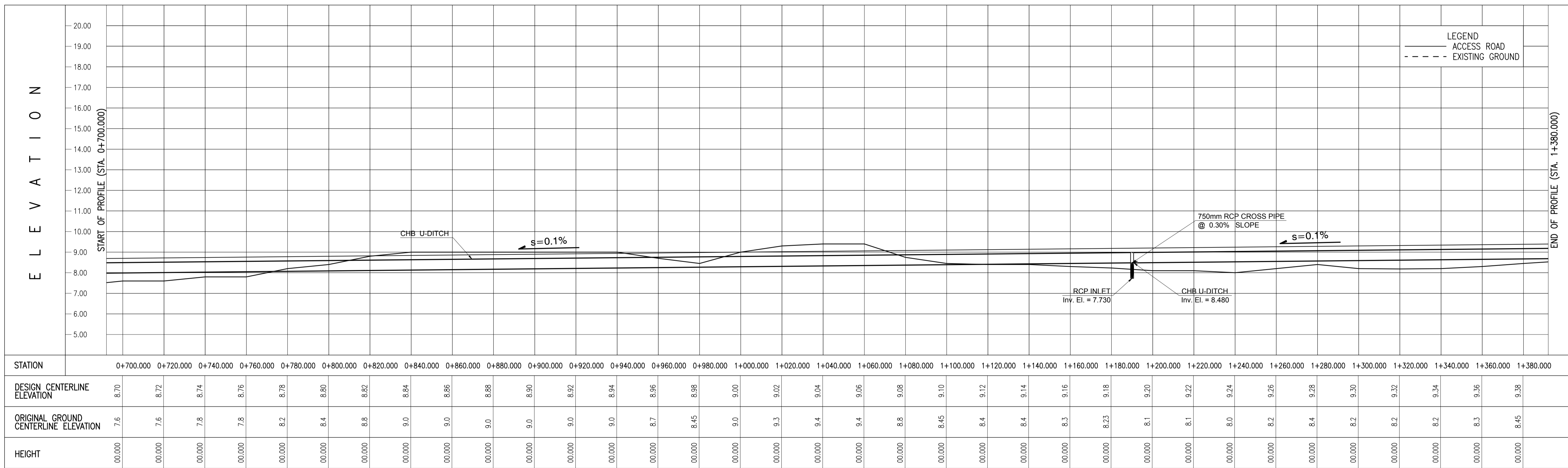
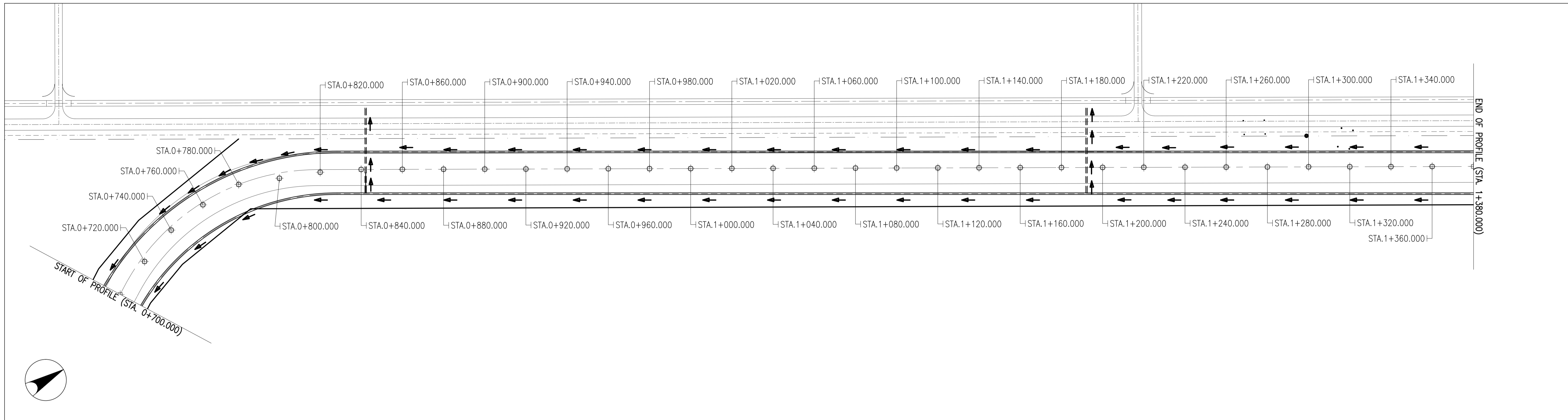
	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM ACCESS ROAD DRAINAGE LAYOUT PLAN	SHEET NO: C1-2300-01
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: _____ Validated by: _____	DRAWING SCALE: AS SHOWN				



STATION	0+000.000	0+020.000	0+040.000	0+060.000	0+080.000	0+100.000	0+120.000	0+140.000	0+160.000	0+180.000	0+200.000	0+220.000	0+240.000	0+260.000	0+280.000	0+300.000	0+320.000	0+340.000	0+360.000	0+380.000	0+400.000	0+420.000	0+440.000	0+460.000	0+480.000	0+500.000	0+520.000	0+540.000	0+560.000	0+580.000	0+600.000	0+620.000	0+640.000	0+660.000	0+680.000
DESIGN CENTERLINE ELEVATION	7.15	6.964	7.028	7.092	7.156	7.22	7.284	7.348	7.412	7.476	7.54	7.604	7.668	7.732	7.796	7.86	7.924	7.988	8.052	8.116	8.18	8.244	8.308	8.372	8.436	8.5	8.52	8.54	8.56	8.58	8.6	8.62	8.64	8.66	8.68
ORIGINAL GROUND CENTERLINE ELEVATION	7.15	7.35	7.41	8.2	7.8	7.5	7.6	7.5	7.3	7.28	7.15	7.05	6.9	6.8	6.9	7.0	7.4	7.5	7.7	8.18	8.4	8.2	8.05	7.9	7.75	7.55	7.3	7.04	7.18	7.3	7.2	7.1	7.05	7.3	7.4
HEIGHT	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000

1 ACCESS ROAD DRAINAGE PROFILE Sta. 0+000.000 ~Sta. 0+680.000
C1-2300-02 SCALE VERTICAL 1:100 m. HORIZONTAL 1:1000 m.

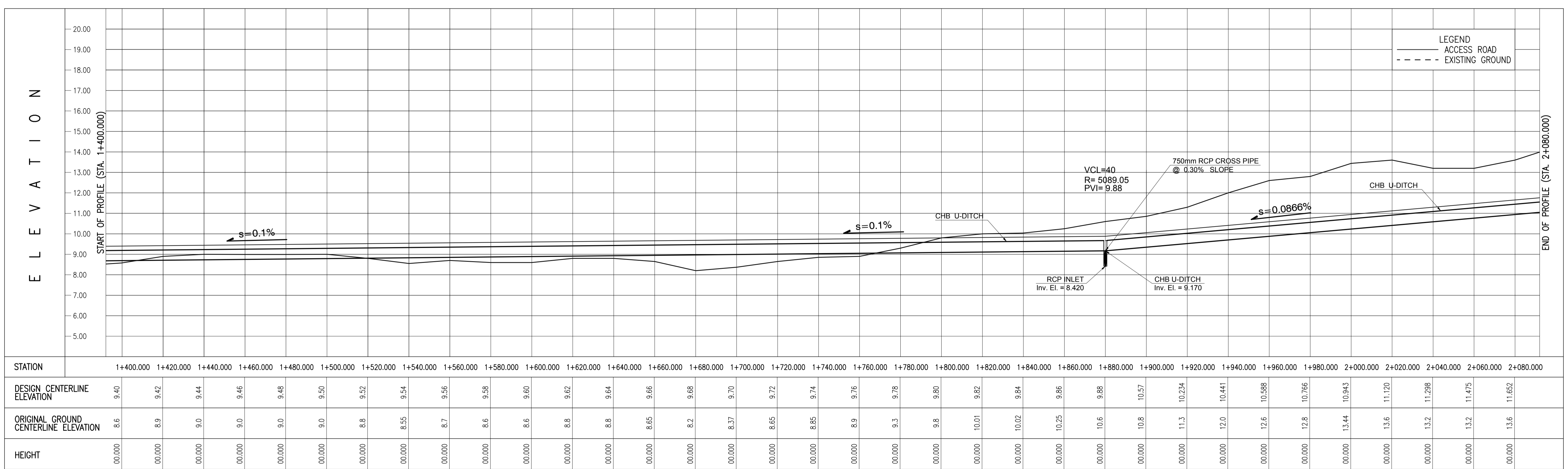
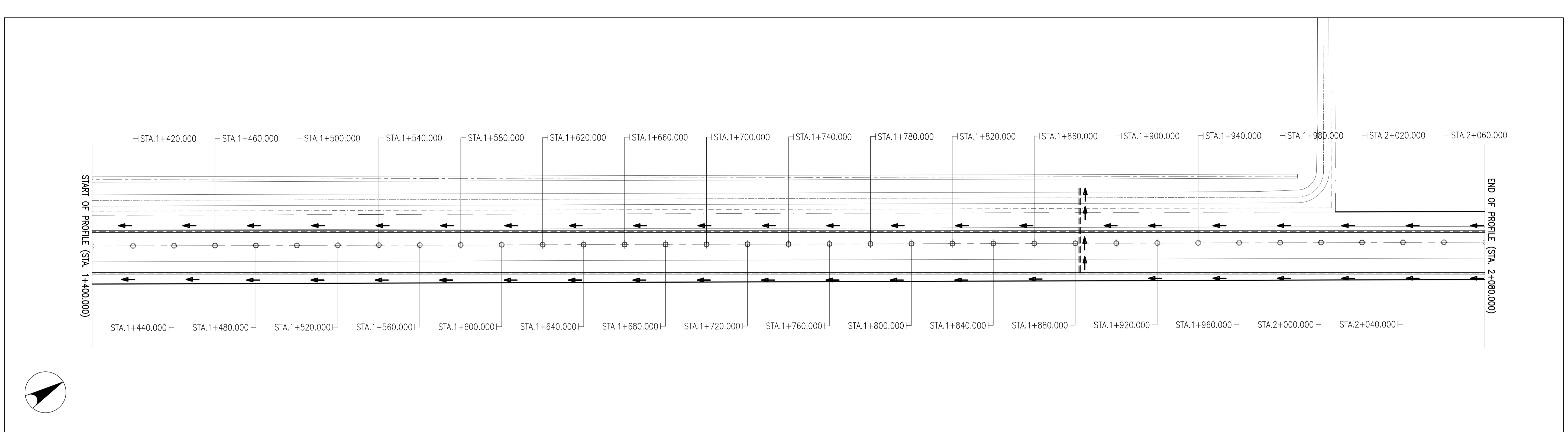
	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO. 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM ACCESS ROAD DRAINAGE PROFILE (1)	SHEET NO: C1-2300-02	
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



STATION	0+700.000	0+720.000	0+740.000	0+760.000	0+780.000	0+800.000	0+820.000	0+840.000	0+860.000	0+880.000	0+900.000	0+920.000	0+940.000	0+960.000	0+980.000	1+000.000	1+020.000	1+040.000	1+060.000	1+080.000	1+100.000	1+120.000	1+140.000	1+160.000	1+180.000	1+200.000	1+220.000	1+240.000	1+260.000	1+280.000	1+300.000	1+320.000	1+340.000	1+360.000	1+380.000
DESIGN CENTERLINE ELEVATION	8.70	8.72	8.74	8.76	8.78	8.80	8.82	8.84	8.86	8.88	8.90	8.92	8.94	8.96	8.98	9.00	9.02	9.04	9.06	9.08	9.10	9.12	9.14	9.16	9.18	9.20	9.22	9.24	9.26	9.28	9.30	9.32	9.34	9.36	9.38
ORIGINAL GROUND CENTERLINE ELEVATION	7.6	7.6	7.8	7.8	8.2	8.4	8.8	9.0	9.0	9.0	9.0	9.0	9.0	8.7	8.45	9.0	9.3	9.4	9.4	8.8	8.45	8.4	8.4	8.3	8.23	8.1	8.1	8.0	8.2	8.4	8.2	8.2	8.2	8.3	8.45
HEIGHT	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	

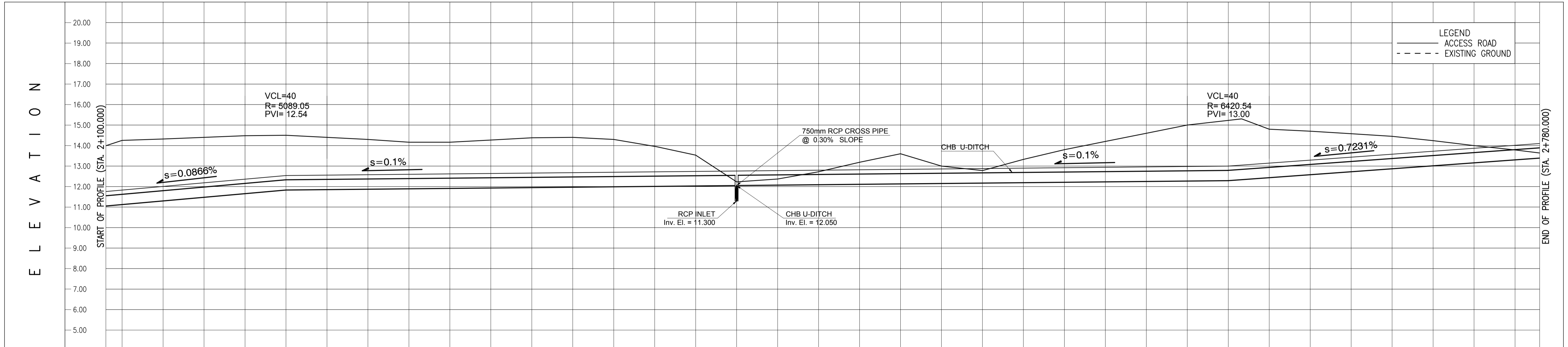
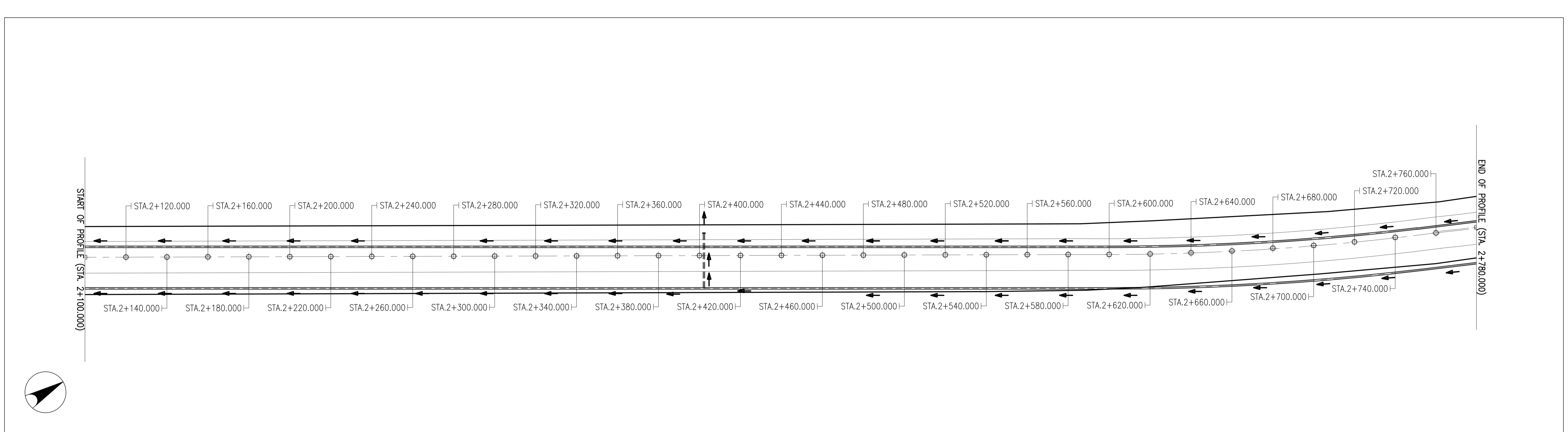
1 ACCESS ROAD DRAINAGE PROFILE Sta. 0+700.000 ~Sta. 1+380.000
 SCALE: VERTICAL 1:100 m, HORIZONTAL 1:1000 m

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM ACCESS ROAD DRAINAGE PROFILE (2)	SHEET NO: C1-2300-03
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



1 ACCESS ROAD DRAINAGE PROFILE Sta. 1+400.000 ~Sta. 2+080.000
 SCALE: VERTICAL 1:100 m, HORIZONTAL 1:1000 m

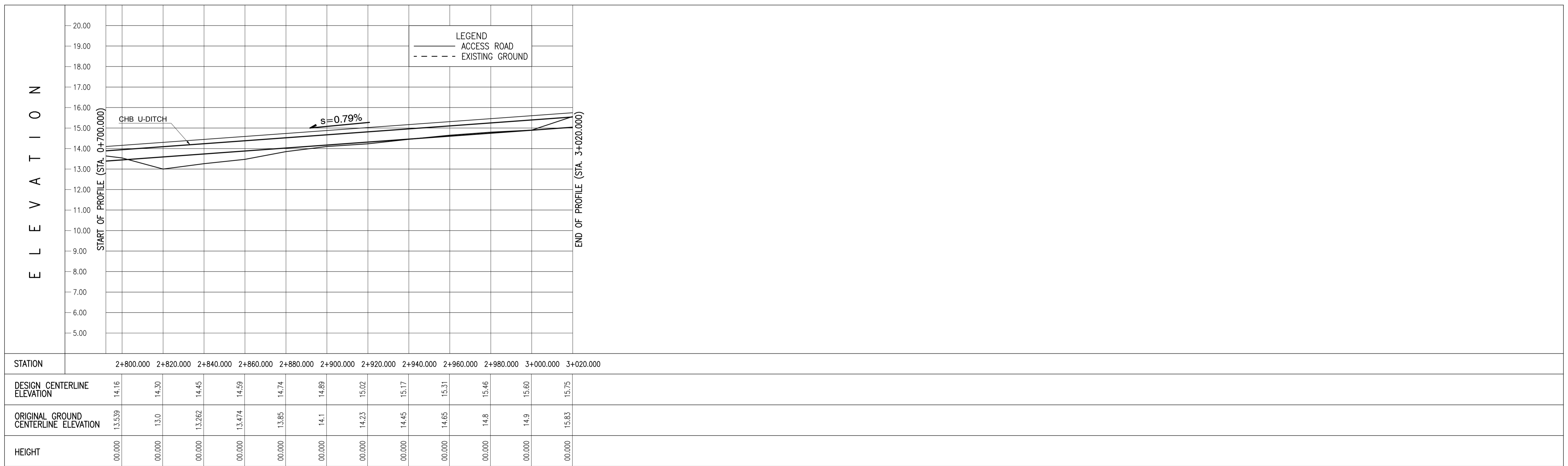
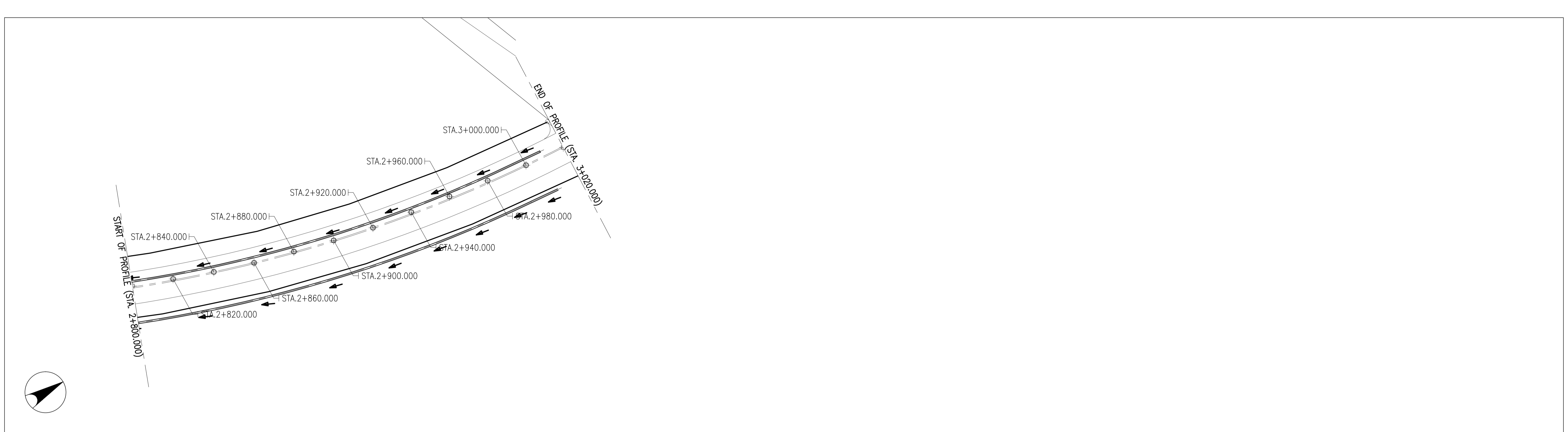
	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM ACCESS ROAD DRAINAGE PROFILE (3)	SHEET NO: C1-2300-04
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



STATION	2+100.000	2+120.000	2+140.000	2+160.000	2+180.000	2+200.000	2+220.000	2+240.000	2+260.000	2+280.000	2+300.000	2+320.000	2+340.000	2+360.000	2+380.000	2+400.000	2+420.000	2+440.000	2+460.000	2+480.000	2+500.000	2+520.000	2+540.000	2+560.000	2+580.000	2+600.000	2+620.000	2+640.000	2+660.000	2+680.000	2+700.000	2+720.000	2+740.000	2+760.000	2+780.000	
DESIGN CENTERLINE ELEVATION	11.830	12.007	12.184	12.362	12.54	12.56	12.56	12.60	12.62	12.64	12.66	12.68	12.70	12.72	12.74	12.76	12.78	12.80	12.82	12.84	12.86	12.88	12.90	12.92	12.94	12.96	12.98	13.00	13.14	13.29	13.43	13.58	13.72	13.87	14.01	
ORIGINAL GROUND CENTERLINE ELEVATION	14.25	14.32	14.40	14.48	14.5	14.4	14.3	14.162	14.152	14.270	14.379	14.4	14.3	13.956	13.535	12.23	12.368	12.715	13.186	13.6	13.0	12.86	12.78	13.33	13.8	14.20	14.6	15.0	15.3	14.8	14.7	14.58	14.45	14.240	14.035	13.786
HEIGHT	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	00.000	

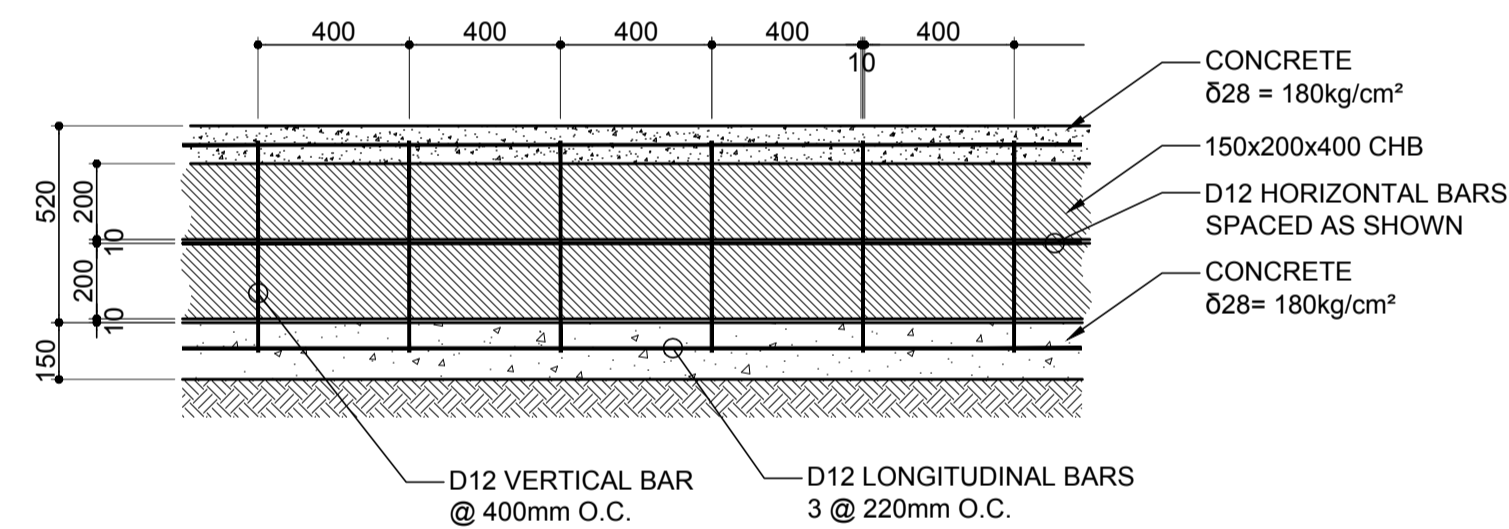
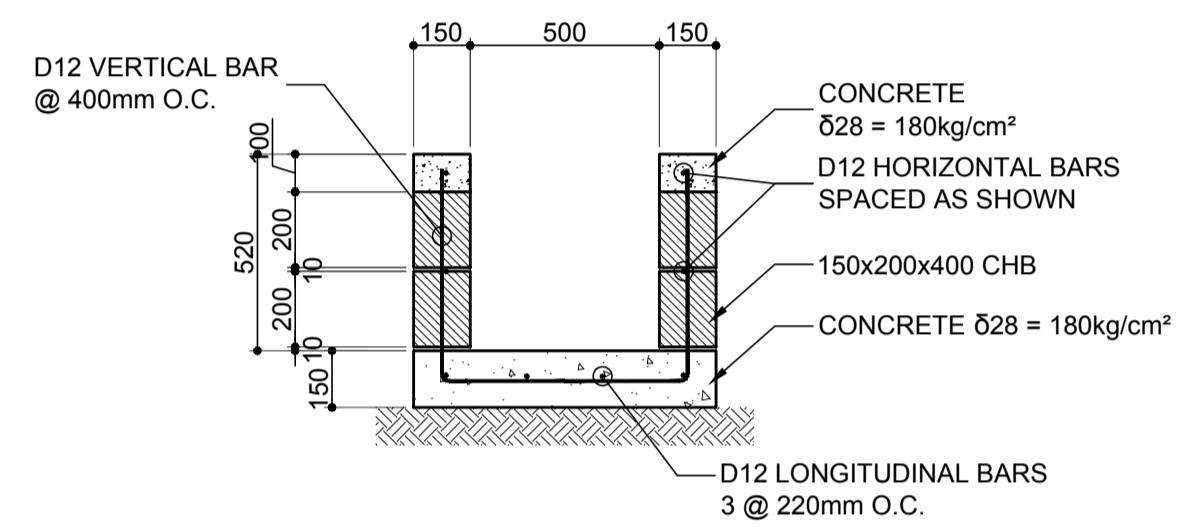
1 ACCESS ROAD DRAINAGE PROFILE Sta. 2+100.000 ~Sta. 2+780.000
SCALE: VERTICAL 1:100 m. HORIZONTAL 1:1000 m.

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO. 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM ACCESS ROAD DRAINAGE PROFILE (4)	SHEET NO: C1-2300-05
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NK NIPPON KOEI CO., LTD. NIS NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____	Prepared by: _____ Checked by: _____ Validated by: _____	DRAWING SCALE: AS SHOWN



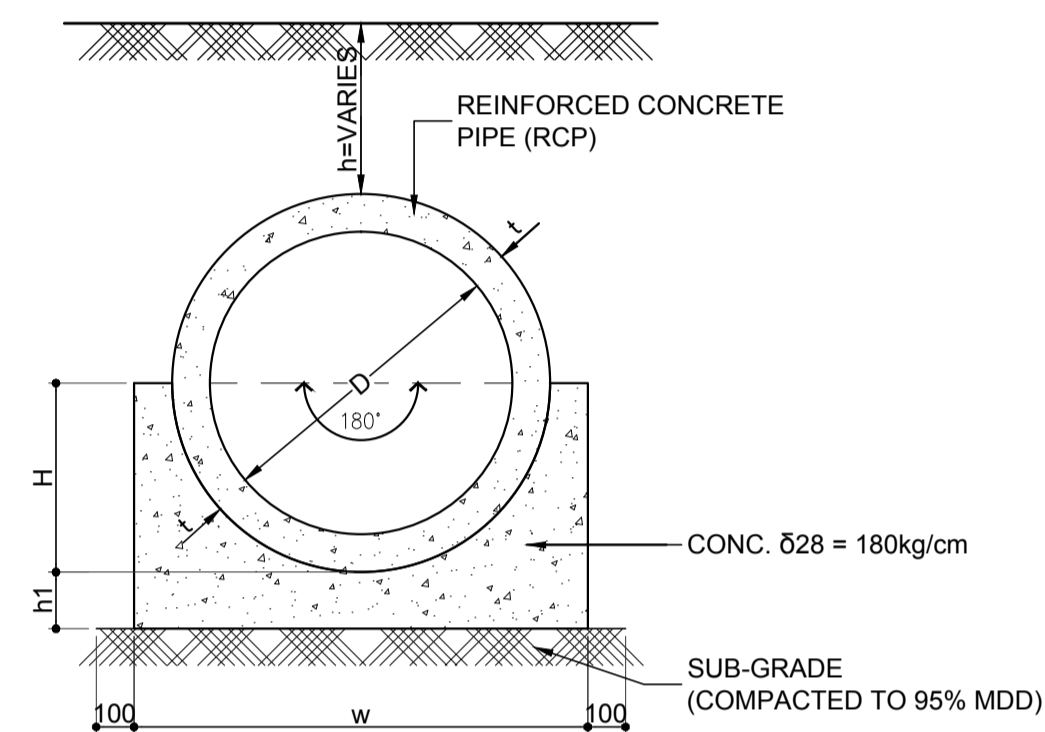
1 ACCESS ROAD DRAINAGE PROFILE Sta. 2+800.000 ~Sta. 3+020.000
 SCALE: VERTICAL 1:100 m, HORIZONTAL 1:1000 m.

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PIR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: JULDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM ACCESS ROAD DRAINAGE PROFILE (5)	SHEET NO: C1-2300-06
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI Team Leader	JULDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DRAWING SCALE: AS SHOWN



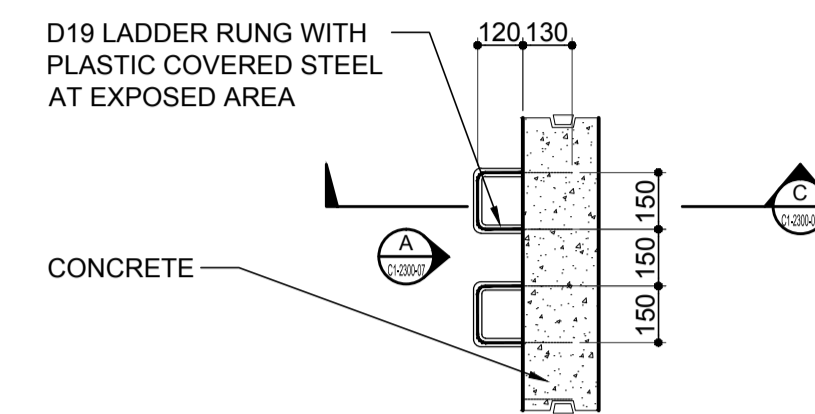
NOTE:
EXPANSION JOINT SHALL BE PROVIDED @ EVERY 20 METERS.
ALL DIMENSIONS ARE IN MILLIMETERS (mm)

1 PLAN VIEW OF U-DITCH
SCALE 1:20 m.

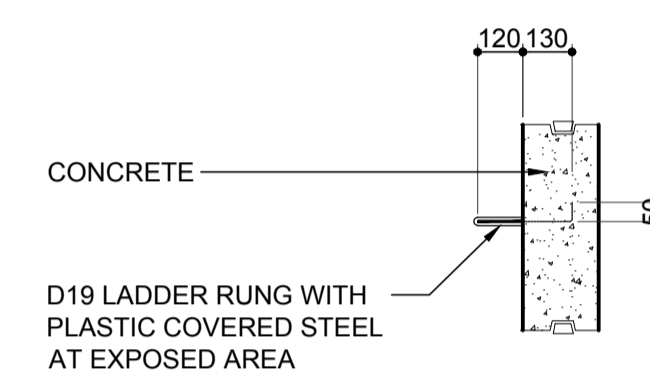


SCHEDULE OF PIPES					
PIPE CULVERT WITH 180° CONC. FOUNDATION					
TYPE	D	t	h1	H	W
D-300	D-300	50	100	200	600
D-375	D-375	57	100	245	689
D-450	D-450	63	150	288	776
D-525	D-525	70	150	332	865
D-600	D-600	75	150	375	950
D-750	D-750	88	150	463	1,126
D-900	D-900	100	150	550	1,300

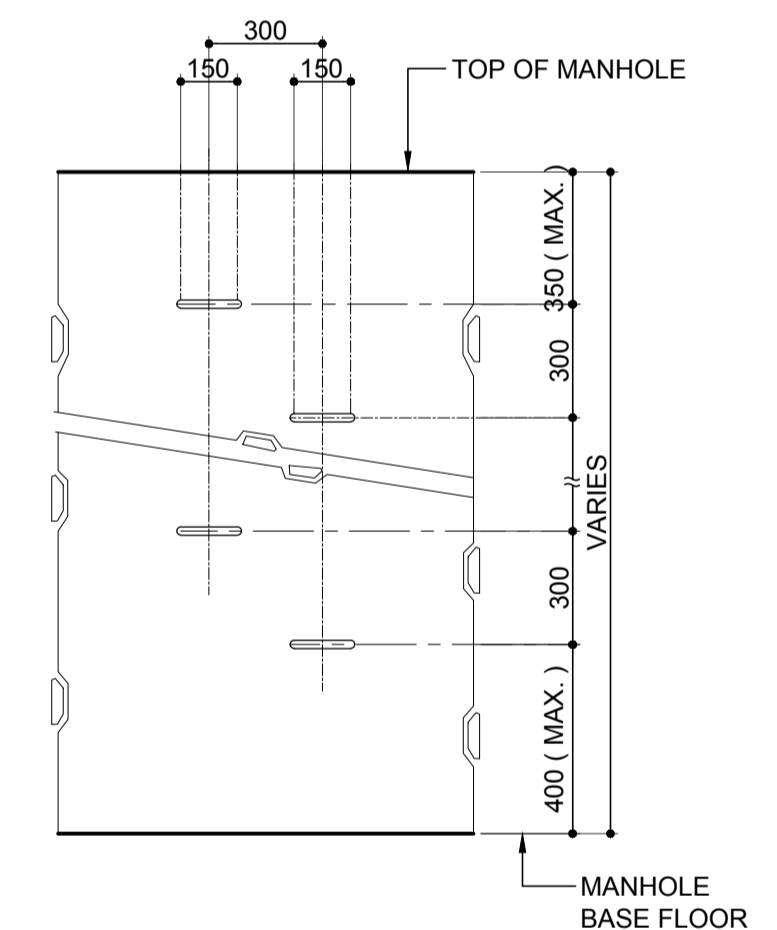
2 CONCRETE BEDDING FOR RCP
SCALE 1:100 m.



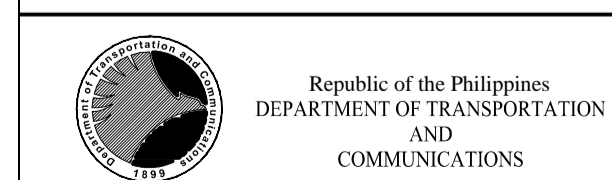
3 DETAIL OF TYPICAL LADDER RUNG
SCALE 1:20 m.



E SECTION
SCALE 1:20 m.



A ELEVATION
SCALE 1:20 m.



PREPARED BY:
ERACIO T. PATDU
PROF. CIVIL ENGINEER PTR. 3158241
RES. NO.: 34252 DATE: JULY 18, 2013
TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
Assistant Secretary
for Project Implementation, DOTC

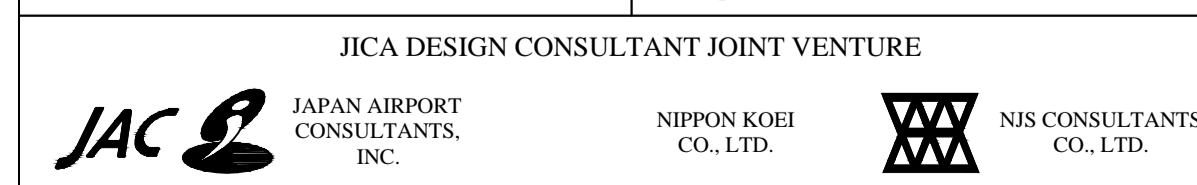
APPROVED:
JULIANITO G. BUCAYAN, JR.
Undersecretary
for Project Implementation, DOTC

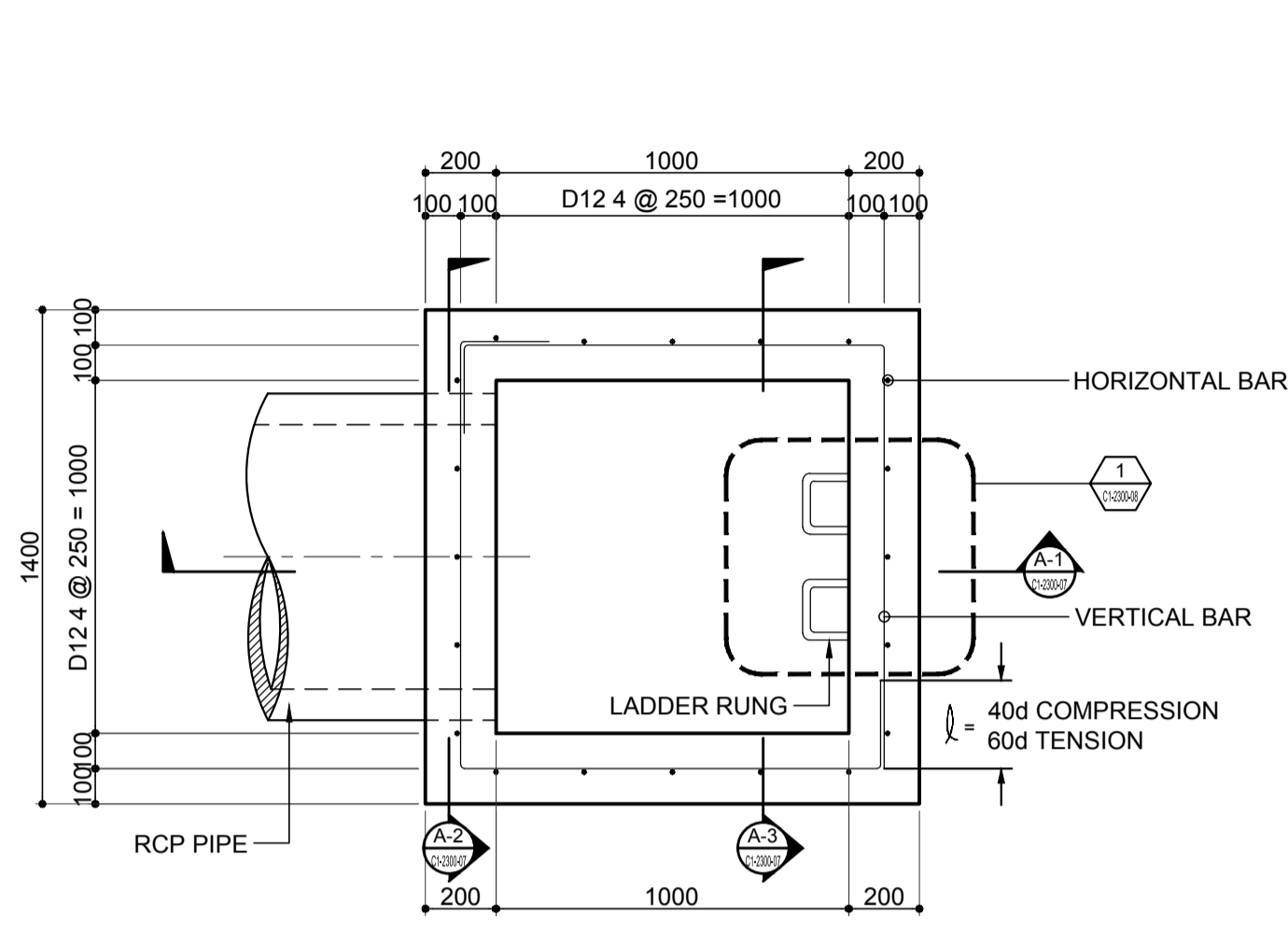
PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

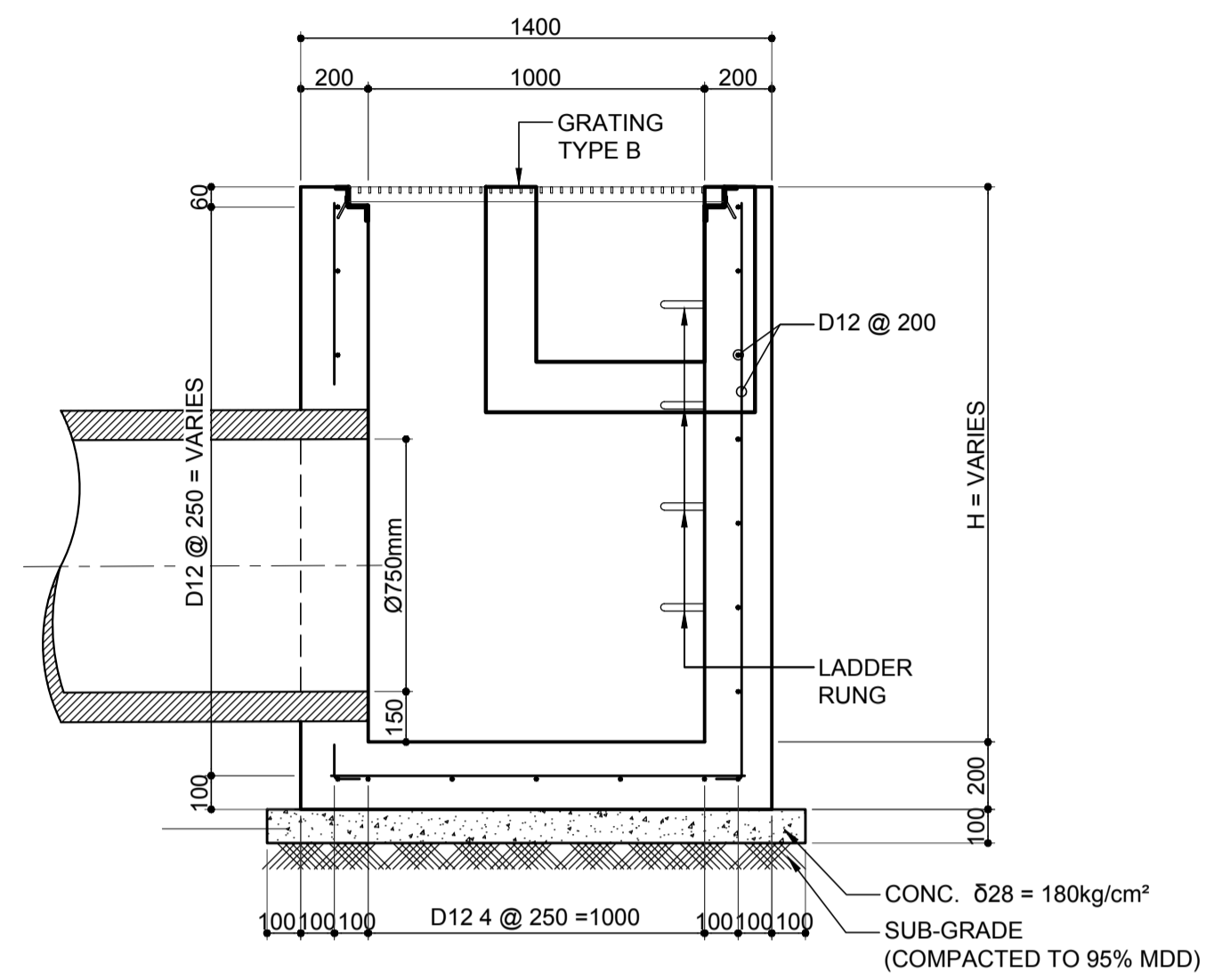
SHEET CONTENTS:
COMPONENT-2 CIVIL WORKS (C)
SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM
TYPICAL SECTION OF DRAINAGE SYSTEM (CHB U-DITCH, RCP AND MANHOLE)

SHEET NO:
C1-2300-07
DRAWING SCALE:
AS SHOWN

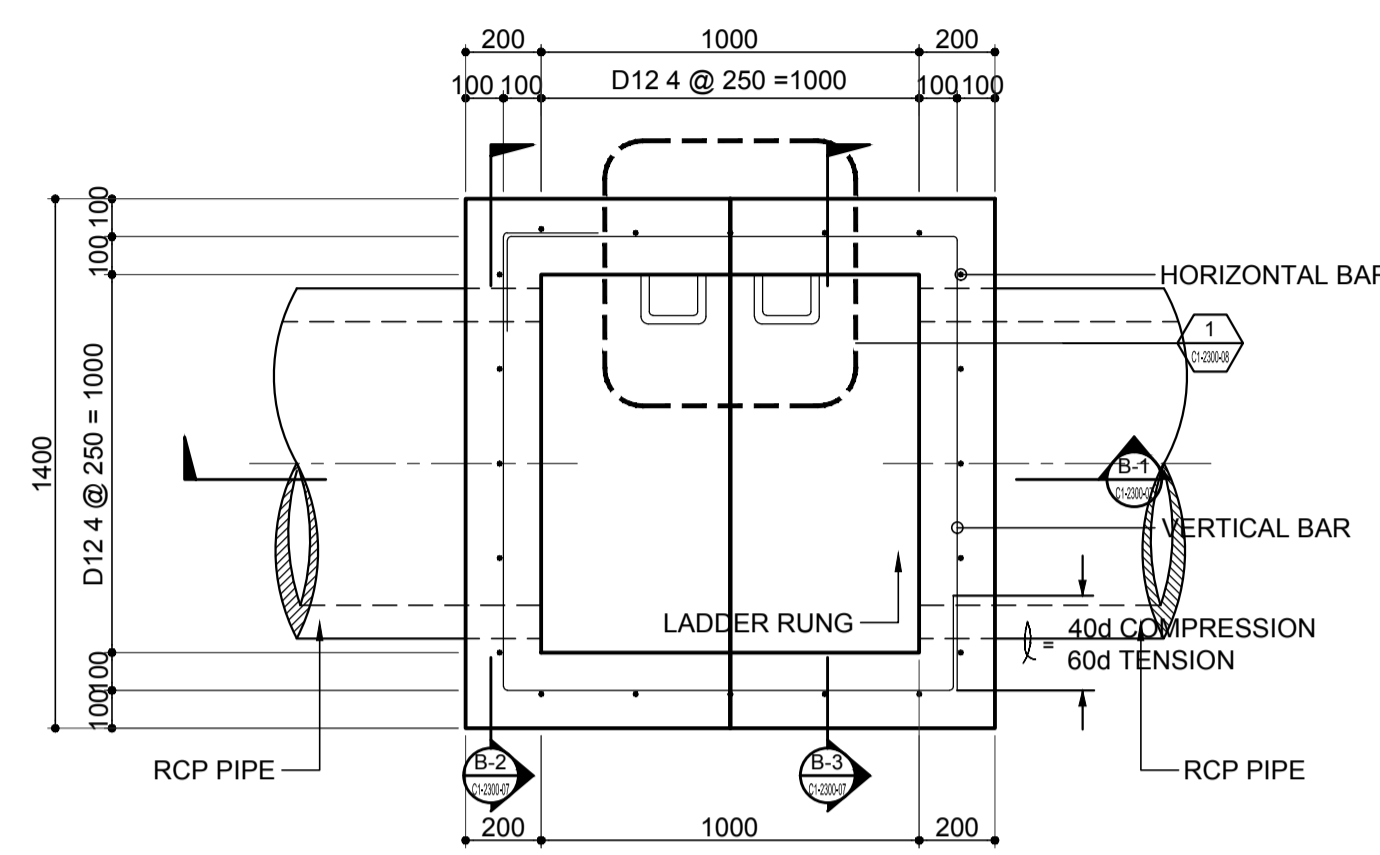




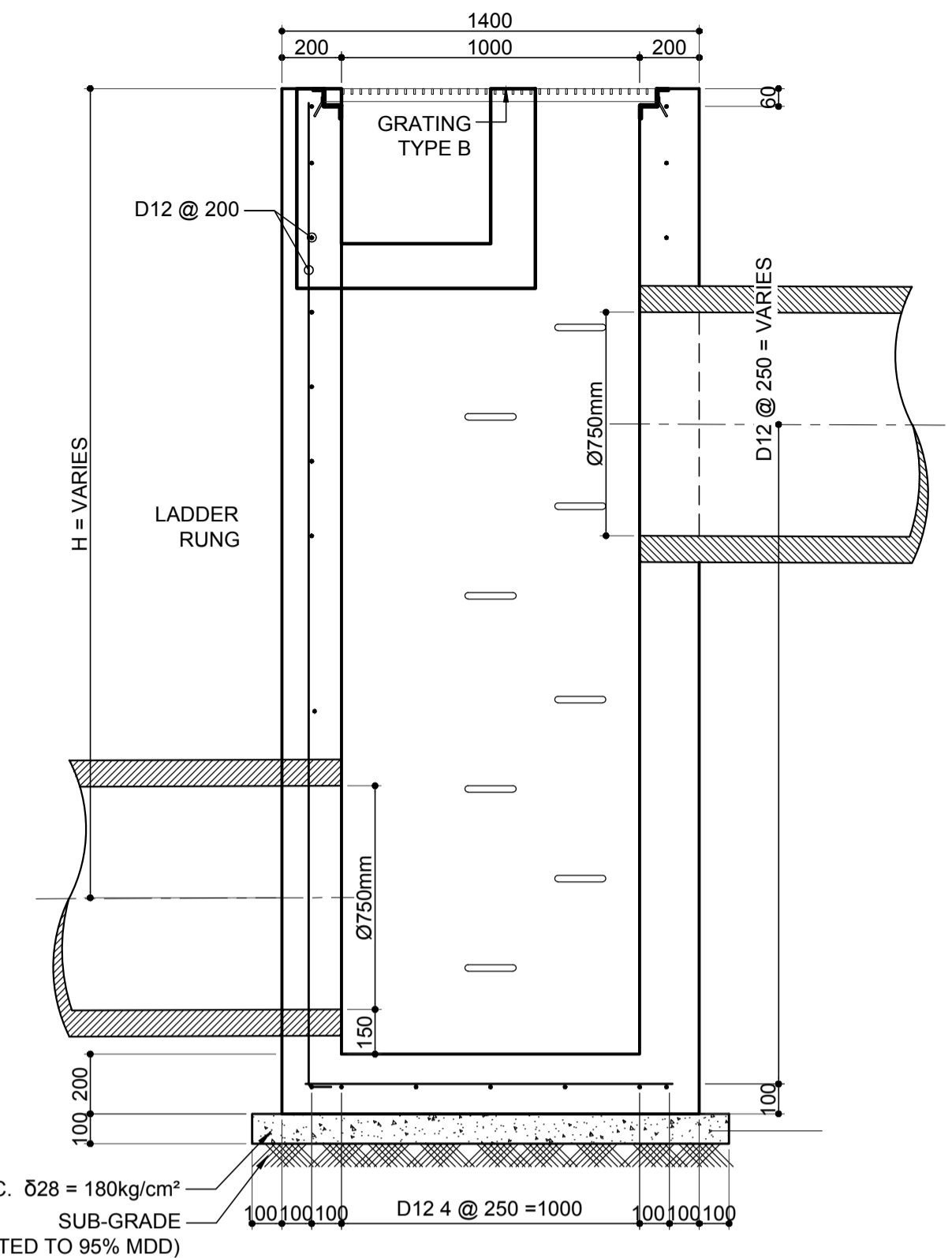
A
SCALE 1:200 SCALE 1:20 m.



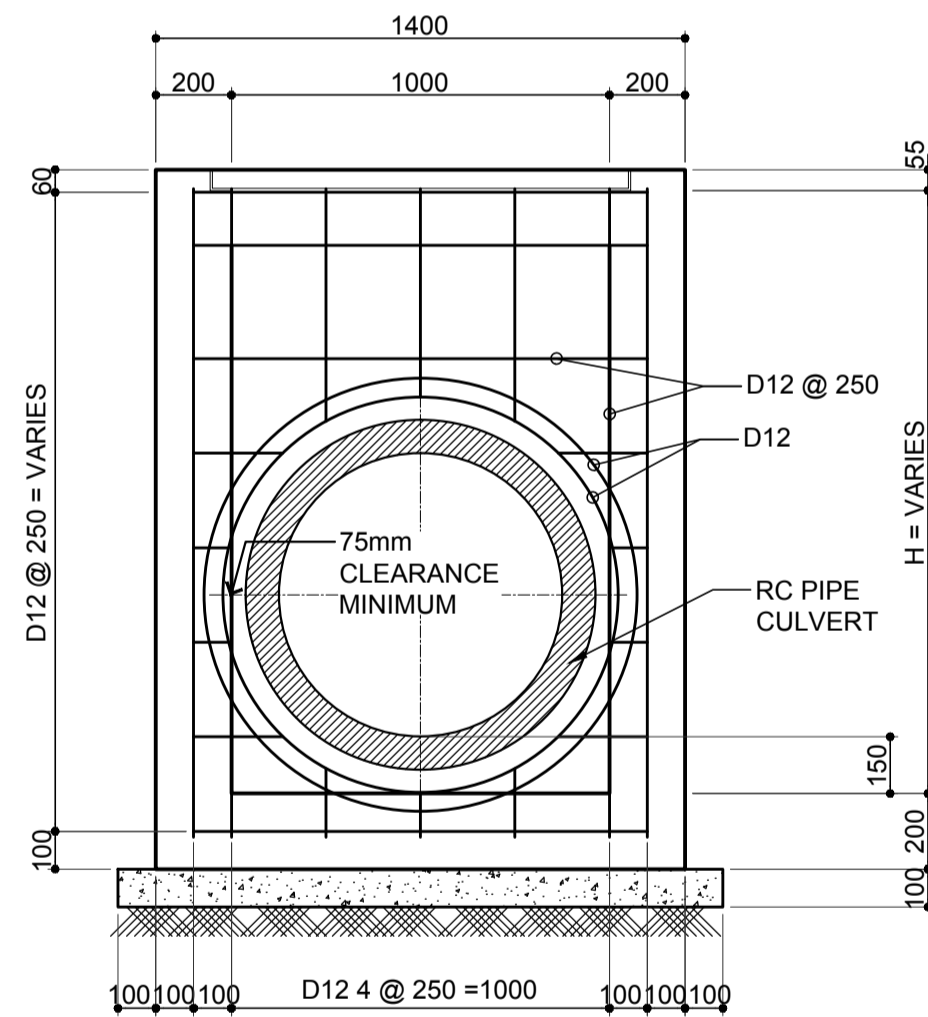
A-1
SCALE 1:200 SCALE 1:20 m.



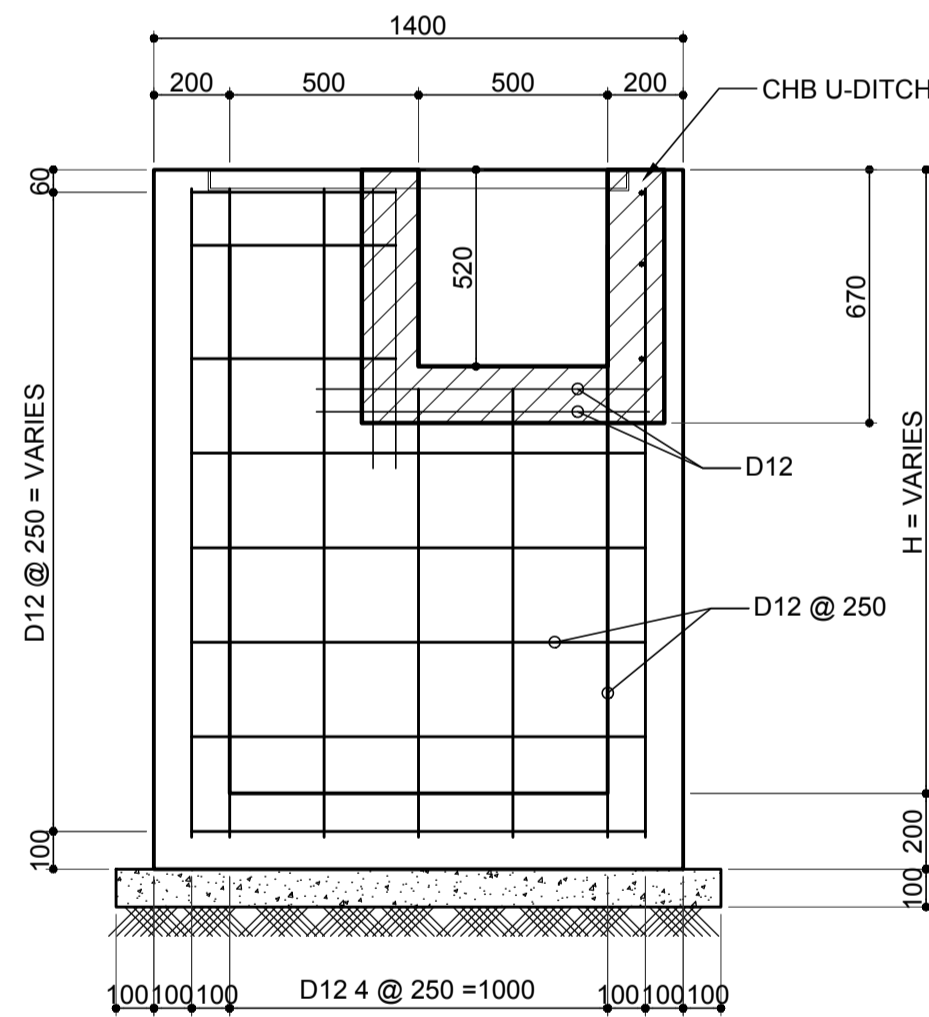
B
SCALE 1:200 SCALE 1:20 m.



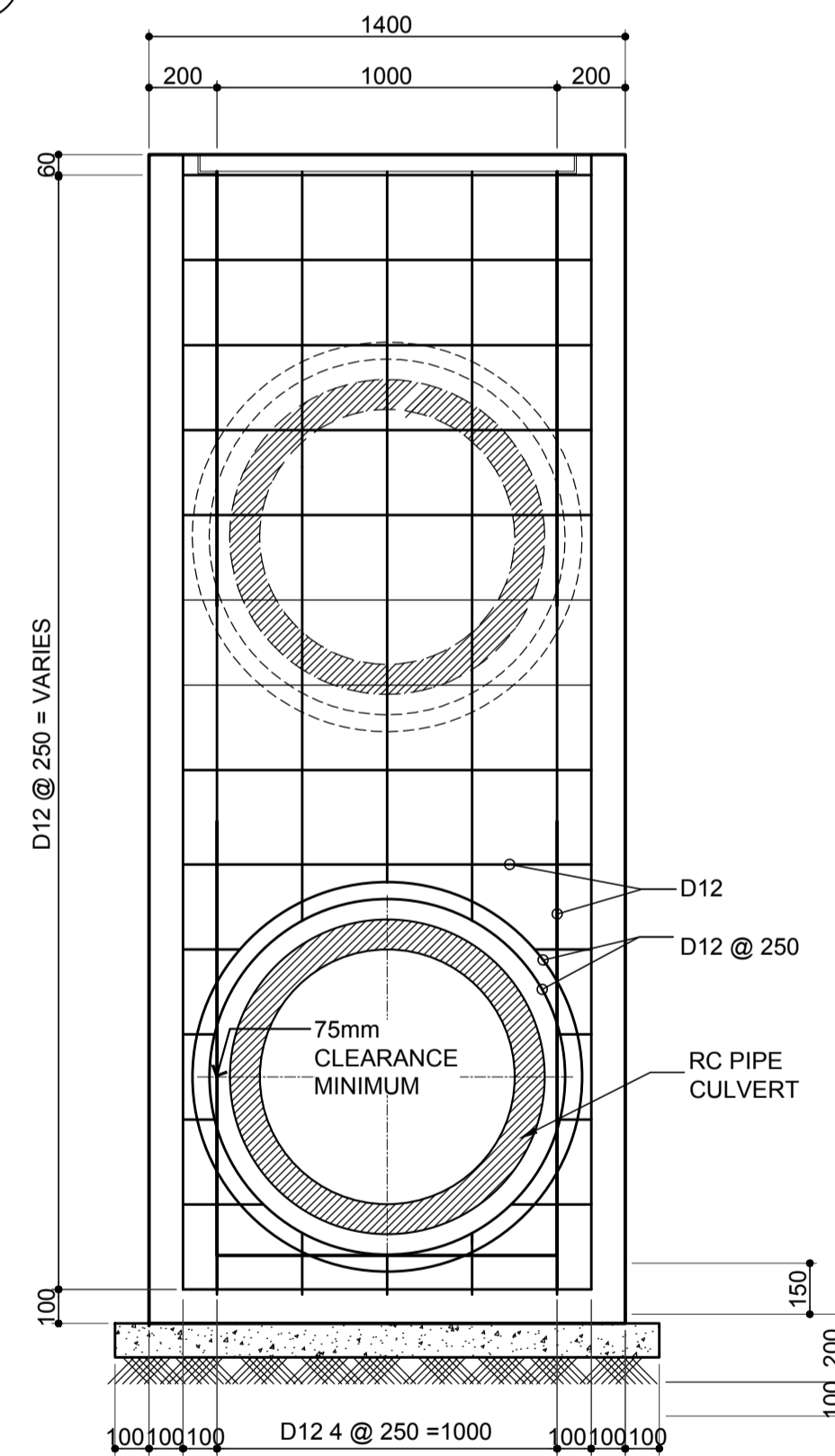
B-1
SCALE 1:200 SCALE 1:20 m.



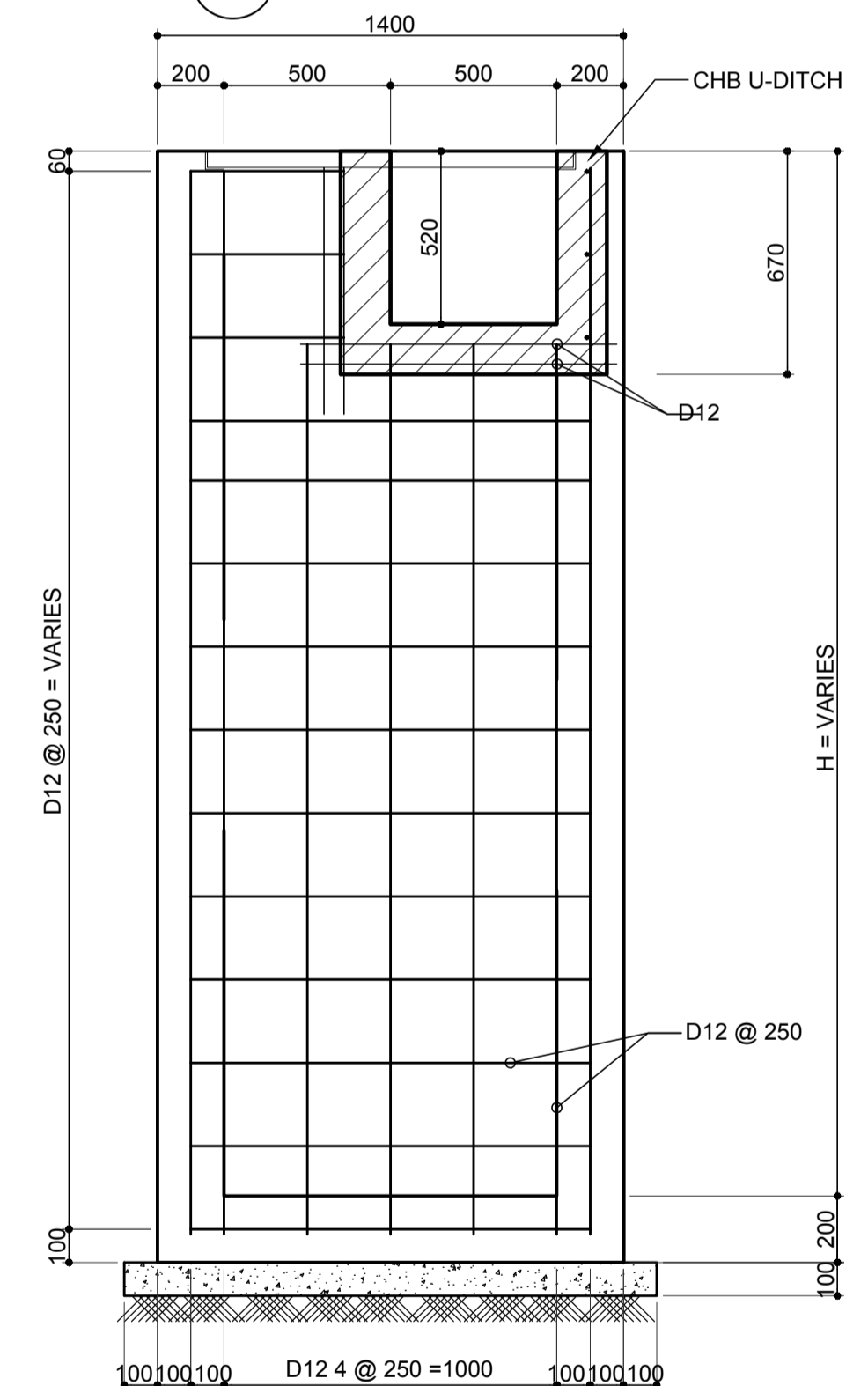
A-2
SCALE 1:200 SCALE 1:20 m.



A-3
SCALE 1:200 SCALE 1:20 m.



B-2
SCALE 1:200 SCALE 1:20 m.



B-3
SCALE 1:200 SCALE 1:20 m.

ACCESS ROAD DRAINAGE SYSTEM DETAILS

SCALE 1:200 SCALE 1:20 m.

ACCESS ROAD DRAINAGE SYSTEM DETAILS

SCALE 1:200 SCALE 1:20 m.



PREPARED BY:
ERACIO T. PATDU
PROF. CIVIL ENGINEER PIR. 3158241
REG. NO.: 34252 DATE: JULY 18, 2013
TEL. 199-699-5611 PLACE: CAGAYAN DE ORO CITY

TADASHI AOI
Team Leader

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
Assistant Secretary
for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
Undersecretary
for Project Implementation, DOTC

PROJECT TITLE:
NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT

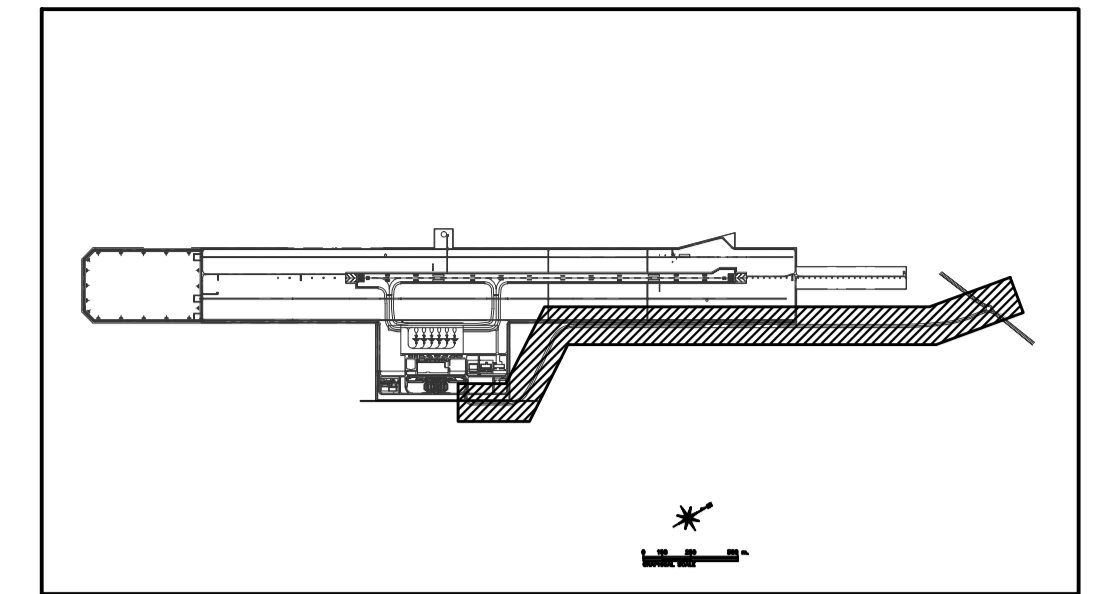
LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

DATE	INDEX	AMENDMENTS	Prepared by	Checked by	Validated by
JUNE 2013			WIM	HC	

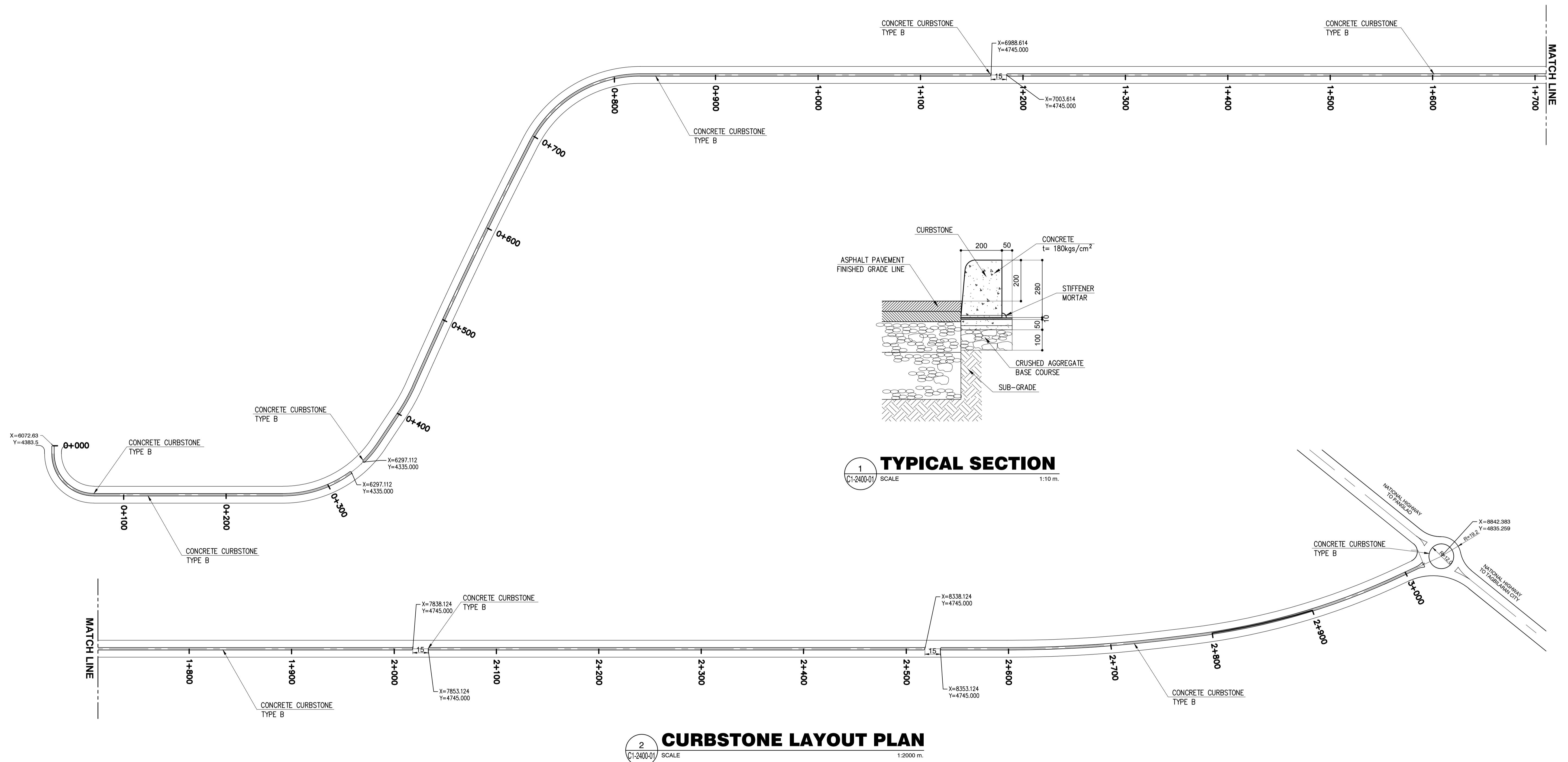
SHEET CONTENTS:
COMPONENT-2 CIVIL WORKS (C)
SUBCOMPONENT-2-1 ACCESS ROAD DRAINAGE SYSTEM
ACCESS ROAD INLET
MANHOLE DETAIL A AND B

SHEET NO:
C1-2300-08

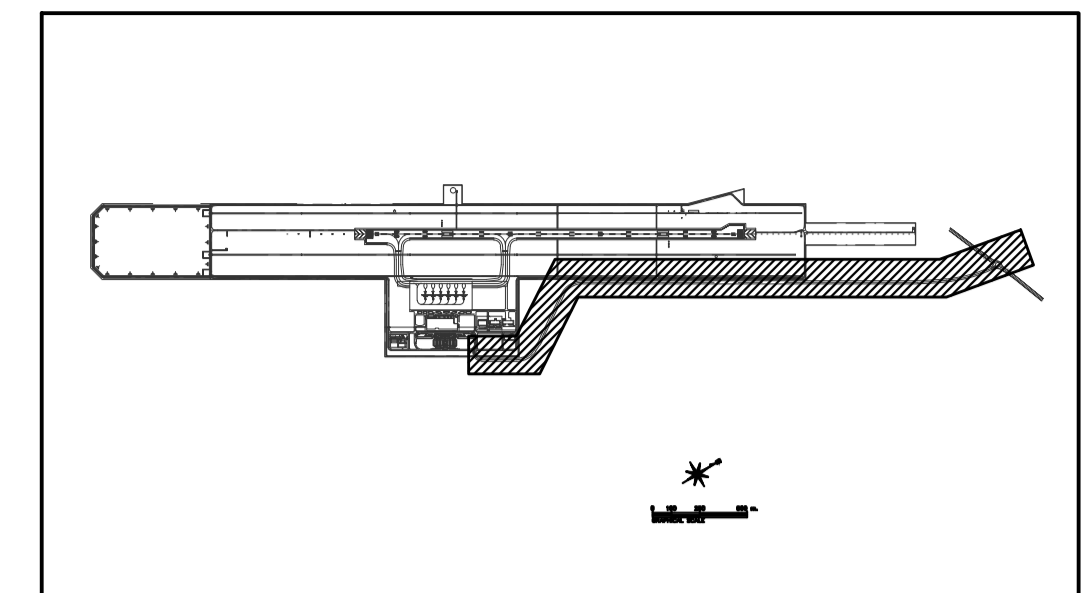
DRAWING SCALE:
AS SHOWN



KEY PLAN

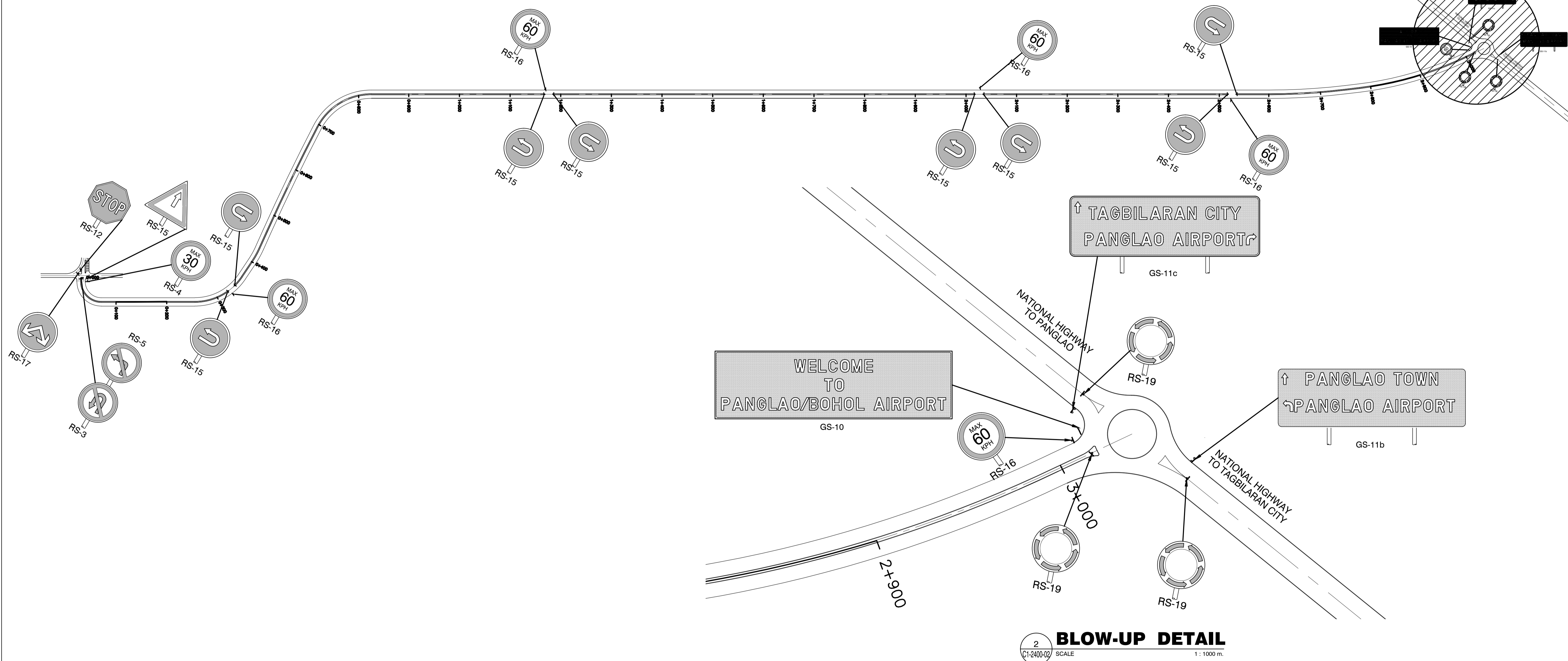


	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEL. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD MISCELLANEOUS WORKS ACCESS ROAD CURBSTONE LAYOUT PLAN AND DETAIL	SHEET NO: C1-2400-01	
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



KEY PLAN

SEE BLOW-UP DETAIL



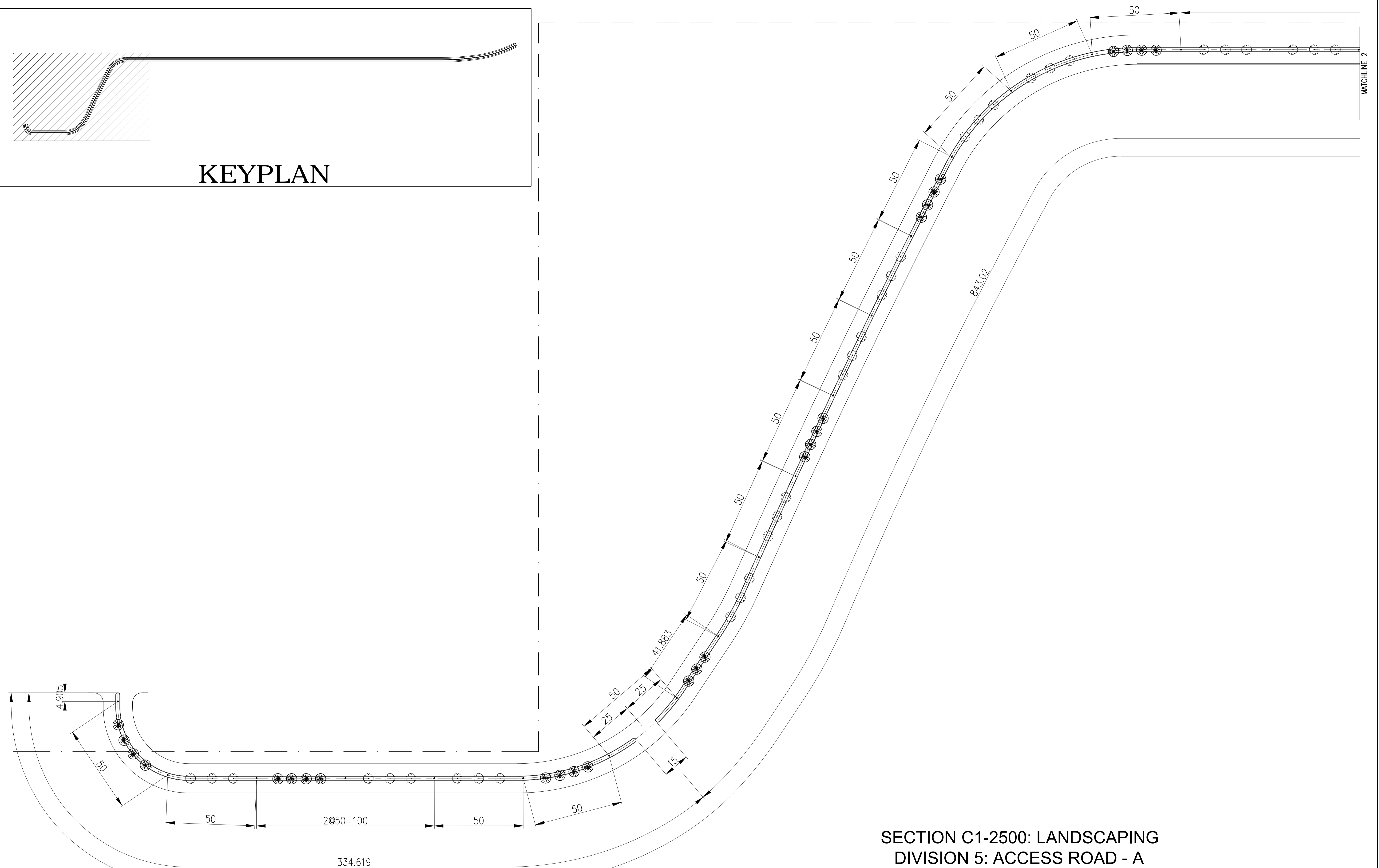
1 ACCESS ROAD SIGNAGES LAYOUT PLAN
SCALE 1 : 4000 m.

2 BLOW-UP DETAIL
SCALE 1 : 1000 m.

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 RES. NO.: 34252 DATE: JULY 18, 2013 TEAM: 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD MISCELLANEOUS WORKS ACCESS ROAD SIGNAGES LAYOUT PLAN	SHEET NO: C1-2400-02
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:

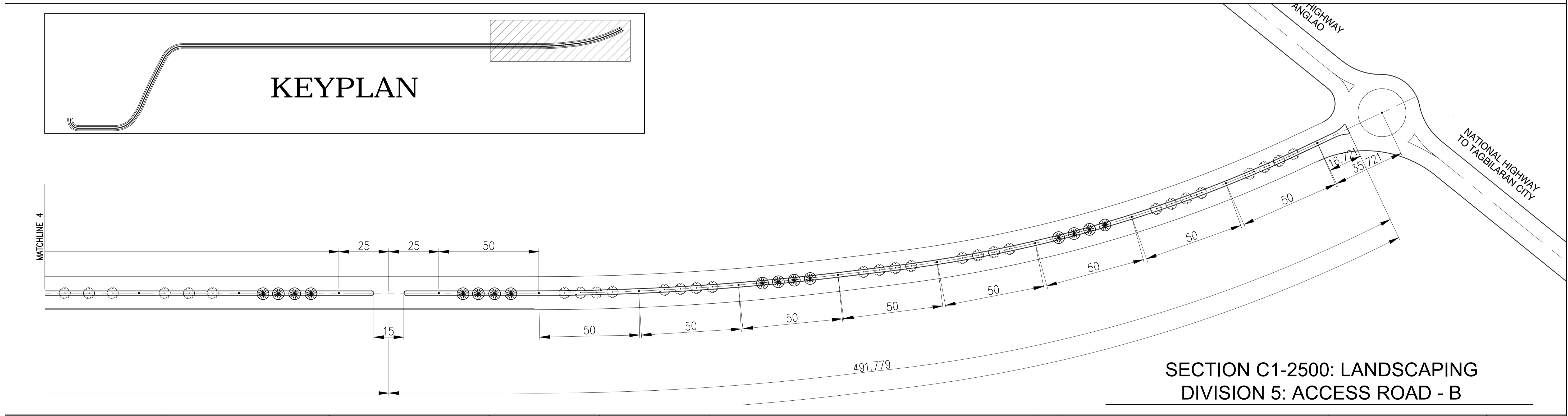
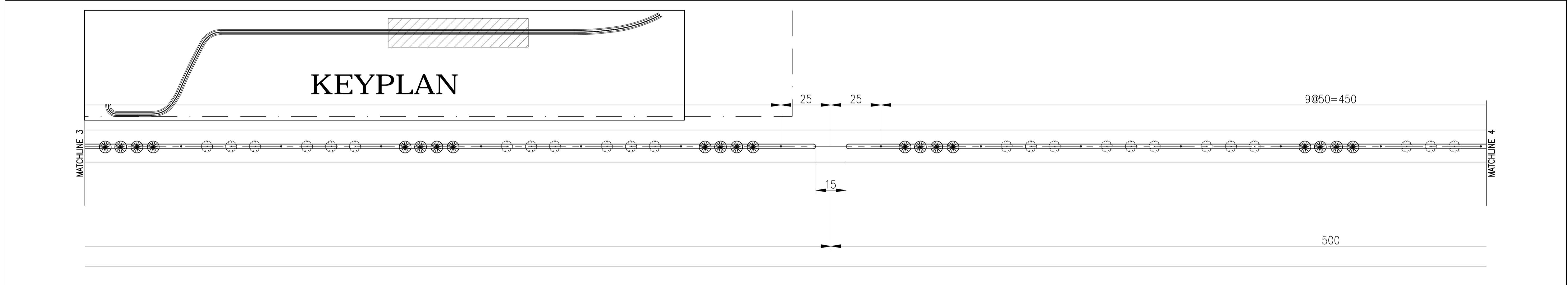
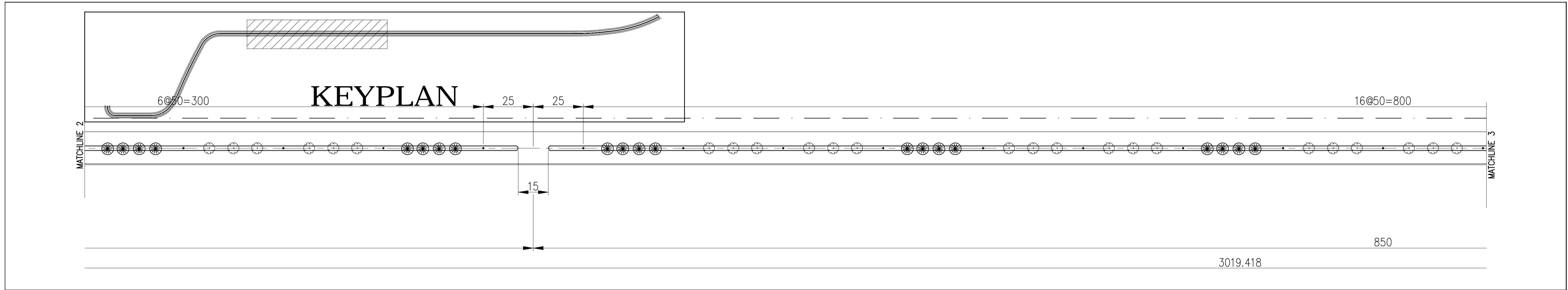


KEYPLAN



SECTION C1-2500: LANDSCAPING
DIVISION 5: ACCESS ROAD - A

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 T.E.N. 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD LANDSCAPING ACCESS ROAD PLANTING PLAN (1)	SHEET NO: C1-2500-01 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE <small>JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.</small>	JUNE 2013 DATE INDEX AMENDMENTS Prepared by Checked by Validated by	WIM HC			

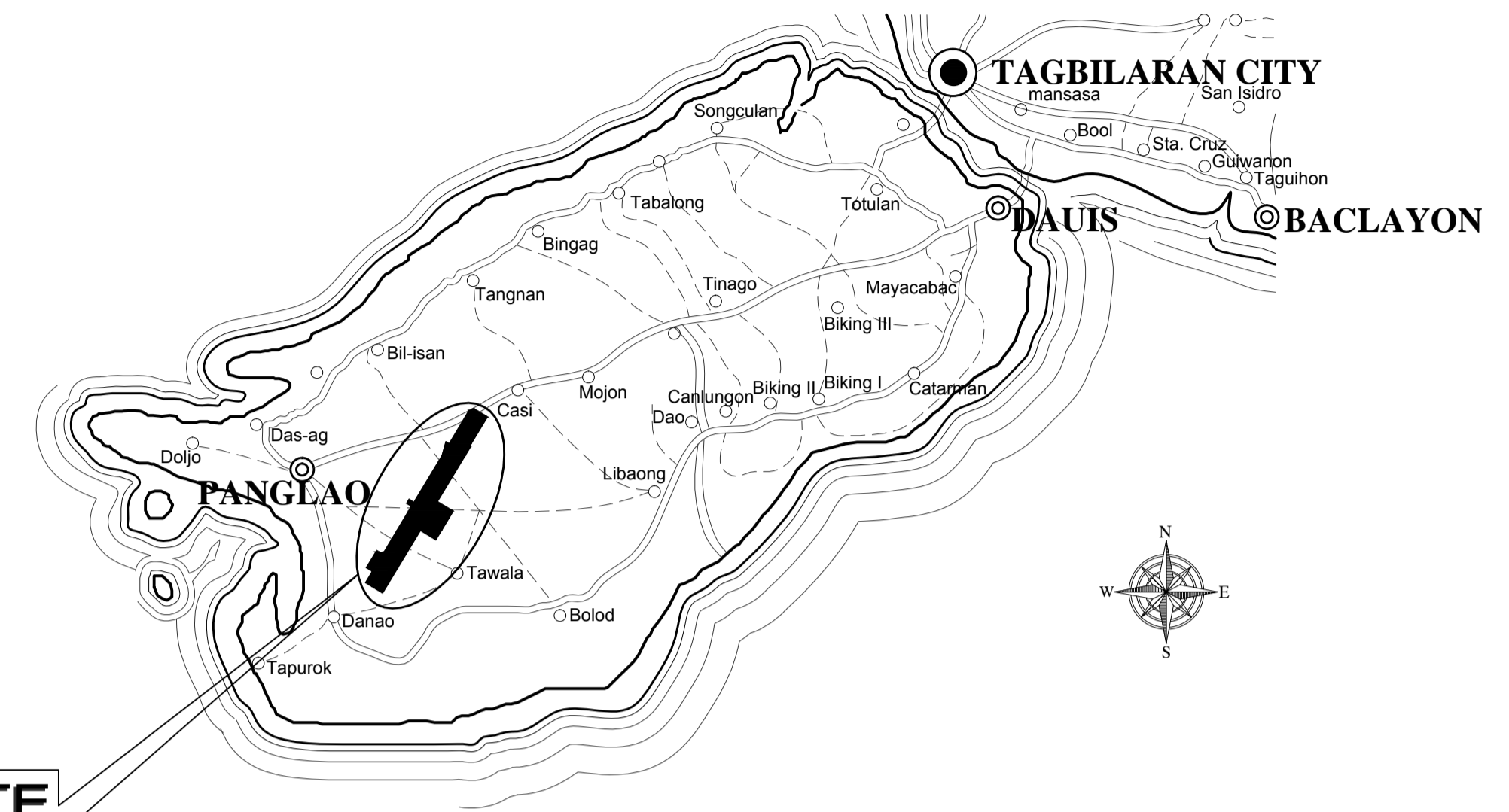


**SECTION C1-2500: LANDSCAPING
DIVISION 5: ACCESS ROAD - B**

	PREPARED BY: ERACIO T. PATDU <small>PROF. CIVIL ENGINEER PTR. 3158241 REG. NO.: 34252 DATE: JULY 18, 2013 TEAM: 199-699-561 PLACE: CAGAYAN DE ORO CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD LANDSCAPING ACCESS ROAD PLANTING PLAN (2)	SHEET NO: C1-2500-02
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:

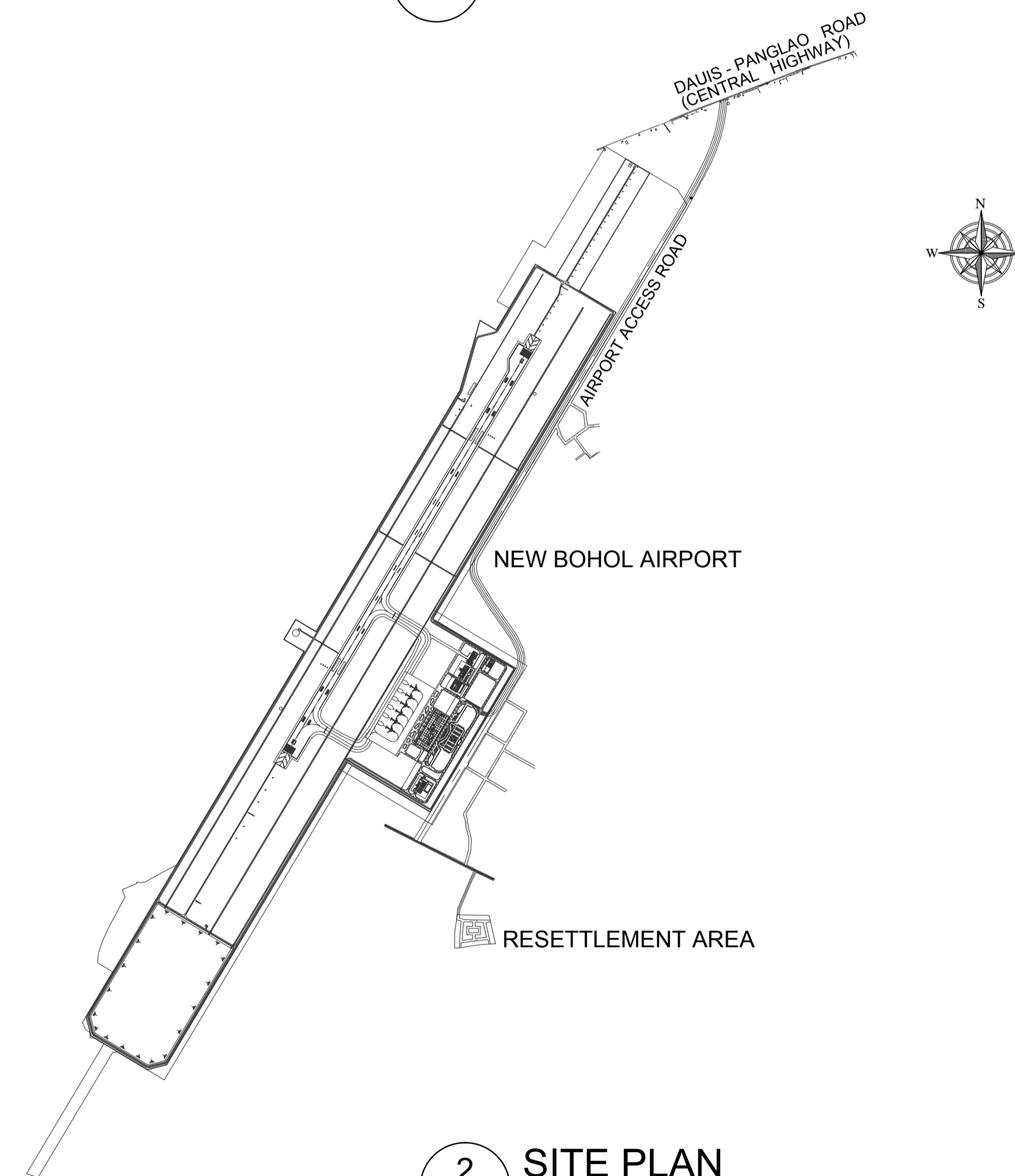
TABLE OF CONTENTS

DRAWING NO.	SHEET NO.	SHEET TITLE
COVER SHEET		
GENERAL		
01 OF 09	U1-3110-01	TABLE OF CONTENTS, VICINITY MAP, SITE PLAN
02 OF 09	U1-3110-02	LEGEND, SYMBOLS, ABBREVIATIONS, GENERAL NOTES, INDEX PLAN
CIVIL		
03 OF 09	U1-3110-03	TRANSMISSION LINE-3 PLAN, PROFILE AND ROAD SECTION (STA.0+010-STA.0+700)
04 OF 09	U1-3110-04	TRANSMISSION LINE-3 PLAN, PROFILE AND ROAD SECTION (STA.0+700-STA.1+400)
05 OF 09	U1-3110-05	TRANSMISSION LINE-3 PLAN, PROFILE AND ROAD SECTION (STA.1+400-STA.2+100)
06 OF 09	U1-3110-06	TRANSMISSION LINE-3 PLAN, PROFILE AND ROAD SECTIONS (STA.2+100-STA. 2+939)
07 OF 09	U1-3110-07	PIPE CROSSING DETAIL, TYPICAL CULVERT CROSSING DETAILS AND CONCRETE ENCASEMENT DETAIL
08 OF 09	U1-3110-08	MISCELLANEOUS DETAILS 1
09 OF 09	U1-3110-09	MISCELLANEOUS DETAILS 2



PROJECT SITE
PANGLAO, BOHOL

1 VICINITY MAP
U1-3110-01 SCALE NTS



2 SITE PLAN
U1-3110-01 SCALE NTS

	PREPARED BY: VICTORIA P. ADECER <small>PROF. SANITARY ENGINEER PTR. 2052781</small> <small>REG. NO. 0001927 DATE JANUARY 19 2013</small> <small>T.N. 198316492 PLACE MANDALUYONG CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD WATER SUPPLY PIPELINE VICINITY MAP	SHEET NO: C1-3110-01
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES DATE: JUNE 2013	WIM HC Prepared by: [] Checked by: [] Validated by: []

LEGEND:

PROPOSED PIPE LINE	
PROPOSED GATE VALVE	
AIR VACUUM & AIR RELEASE VALVE	
BLOW-OFF VALVE	
FIRE HYDRANT	
REDUCER	
TEE	
90° BEND	
45° BEND	
22 1/2° BEND	
SLEEVE TYPE COUPLING	
EXPANSION/FLEXIBLE JOINT	
ROAD CONCRETE	
DIRT ROAD	
HOUSE	
RCP, CULVERT	
RIVER or CREEK	
PROPERTY LINE	
CONTOUR LINE	
ORDINARY TREE	
COCONUT TREE	

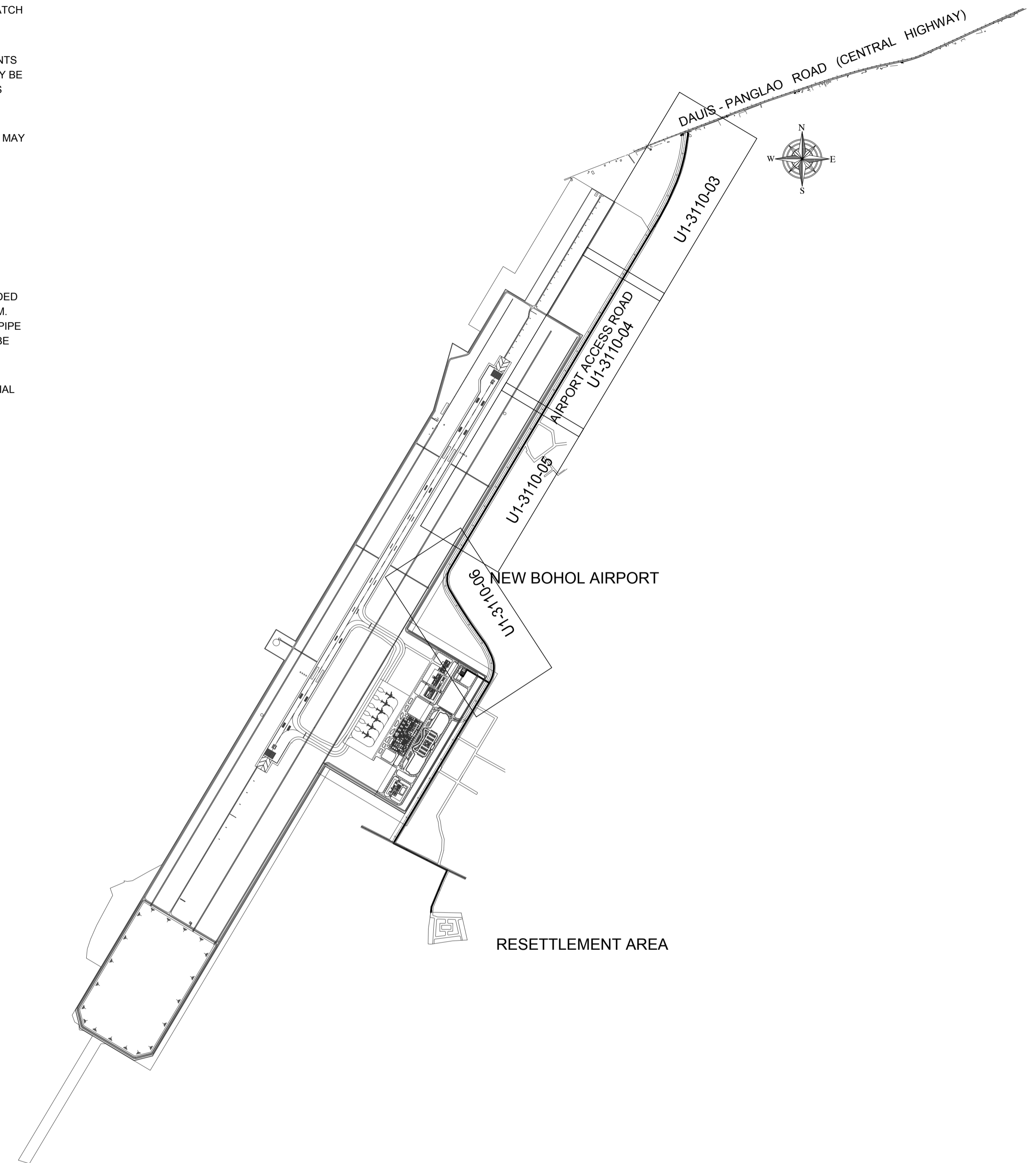
SYMBOLS :

GENERAL NOTES:

- ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
- ALL PAVEMENTS DISTURBED DURING THE INSTALLATION OF PIPES SHALL BE REPAIRED TO MATCH THE EXISTING CONDITION.
- CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL NON-WELDED STEEL PIPELINES JOINTS WHETHER SHOWN OR NOT IN ACCORDANCE WITH STANDARD DRAWINGS. THRUST BLOCK MAY BE OMITTED WHEN WELDED STEEL PIPE IS USED AS AN ALTERNATIVE PIPE MATERIAL EXCEPT AS PROVIDED FOR IN STANDARD DRAWINGS.
- PROPOSED PIPE LOCATION INDICATED ON THE PLANS ARE APPROXIMATE. SOME DEVIATIONS MAY BE DIRECTED BY THE RESIDENT ENGINEER TO SUIT FIELD CONDITIONS.
- PIPE AND PIPE JOINTS MAY BE DEFLECTED WITHIN THE RECOMMENDED DEFLECTION BY PIPE MANUFACTURERS SUBJECT TO THE ENGINEER'S APPROVAL.
- UNLESS OTHERWISE SHOWN OR SPECIFIED, WHENEVER A PROPOSED PIPE HAS TO CROSS A CULVERT (PIPE OR BOX CULVERT), SUCH CULVERT CROSSING SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PIPE.
- IN CROSSING CULVERTS IN PIPE-UNDER MANNER, CONCRETE ENCASEMENT SHALL BE PROVIDED WHERE FLEXIBLE JOINTS OCCUR OR WHERE CLEARANCE BETWEEN PIPES IS LESS THAN 0.30M. FOR PIPE-OVER MANNER, ENCASEMENT SHALL LIKEWISE BE PROVIDED IN PORTIONS WHERE PIPE COVER IS LESS THAN THE SPECIFIED. MINIMUM LENGTH OF CONCRETE ENCASEMENT SHALL BE THE CULVERT WIDTH OR OUTSIDE DIAMETER PLUS 0.30M OR BOTH SIDES.
- FINAL ALIGNMENT OF THE PROPOSED LINE SHALL BE COORDINATED WITH THE LGU, PROVINCIAL ENGINEERING OFFICE, OR DPWH WHO MAY HAVE JURISDICTION ON THE ROAD.

ABBREVIATIONS :

AV/ARV	AIR VACUUM & AIR RELEASE VALVE	MISC.	MISCELLANEOUS
&	AND	NGL	NATURAL GROUND LINE
BM	BENCH MARK	NTS	NOT TO SCALE
BOV	BLOW-OFF-VALVE	NO. or #	NUMBER
Ⓞ	CENTER LINE	O.D.	OUTSIDE DIAMETER
CLR	CLEAR	PEO	PROVINCIAL ENGINEERING OFFICE
CONC.	CONCRETE	PVMT.	PAVEMENT
CPL'G.	COUPLING	PE	POLYETHYLENE
D	DEPTH	Ⓞ	PROPERTY LINE
DET.	DETAIL/S	P.L.	PROPERTY LINE
DIA or ⌀	DIAMETER	PROP.	PROPOSED
DWG.	DRAWING	RED	REDUCER
DPWH	DEPT. OF PUBLIC WORKS & HIGHWAYS	RCBC	REINFORCED CONCRETE BOX CULVERT
ELEV.	ELEVATION	RCPC	REINFORCED CONCRETE PIPE CULVERT
FGL	FINISHED GRADE LINE	ROW or R/W	RIGHT OF WAY
FH	FIRE HYDRANT	RD	ROAD
GV	GATE VALVE	SCHED	SCHEDULE
I.D.	INVERT DEPTH	SHT	SHEET
IE	INVERT ELEVATION	SPECS.	SPECIFICATIONS
KM	KILOMETER	STD	STANDARD
LGU	LOCAL GOVERNMENT UNITS	STA	STATION
LOC	LIMIT OF CONTRACT	STL	STEEL
L.L.S.B.I.	LIMIT OF LUMP SUM BID ITEM	TBM	TEMPORARY BENCH MARK
L.S.B.I.	LUMP SUM BID ITEM	THK	THICK
LM	LINEAR METER	TYP.	TYPICAL
MAX.	MAXIMUM	U.L.S.B.I.	UNDER LUMP SUM BID ITEM
M, m	METER	U.U.B.I.	UNDER UNIT BID ITEM
mm	MILLIMETER	W/	WITH
MIN.	MINIMUM		



HOR. SCALE 1:15,000 M.
0 250 500 750 1000

1 INDEX MAP
SCALE 1:15,000m.

	PREPARED BY: VICTORIA P. ADECER <small>PROF. SANITARY ENGINEER PIR. 2055781 REG. NO.: 0001927 DATE: JANUARY 19, 2013 TEL. 109-518-662 PLACE: MANDALUYONG CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-2 CIVIL WORKS (C) SUBCOMPONENT-2-1 ACCESS ROAD WATER SUPPLY PIPELINE	SHEET NO: C1-3110-02
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by: