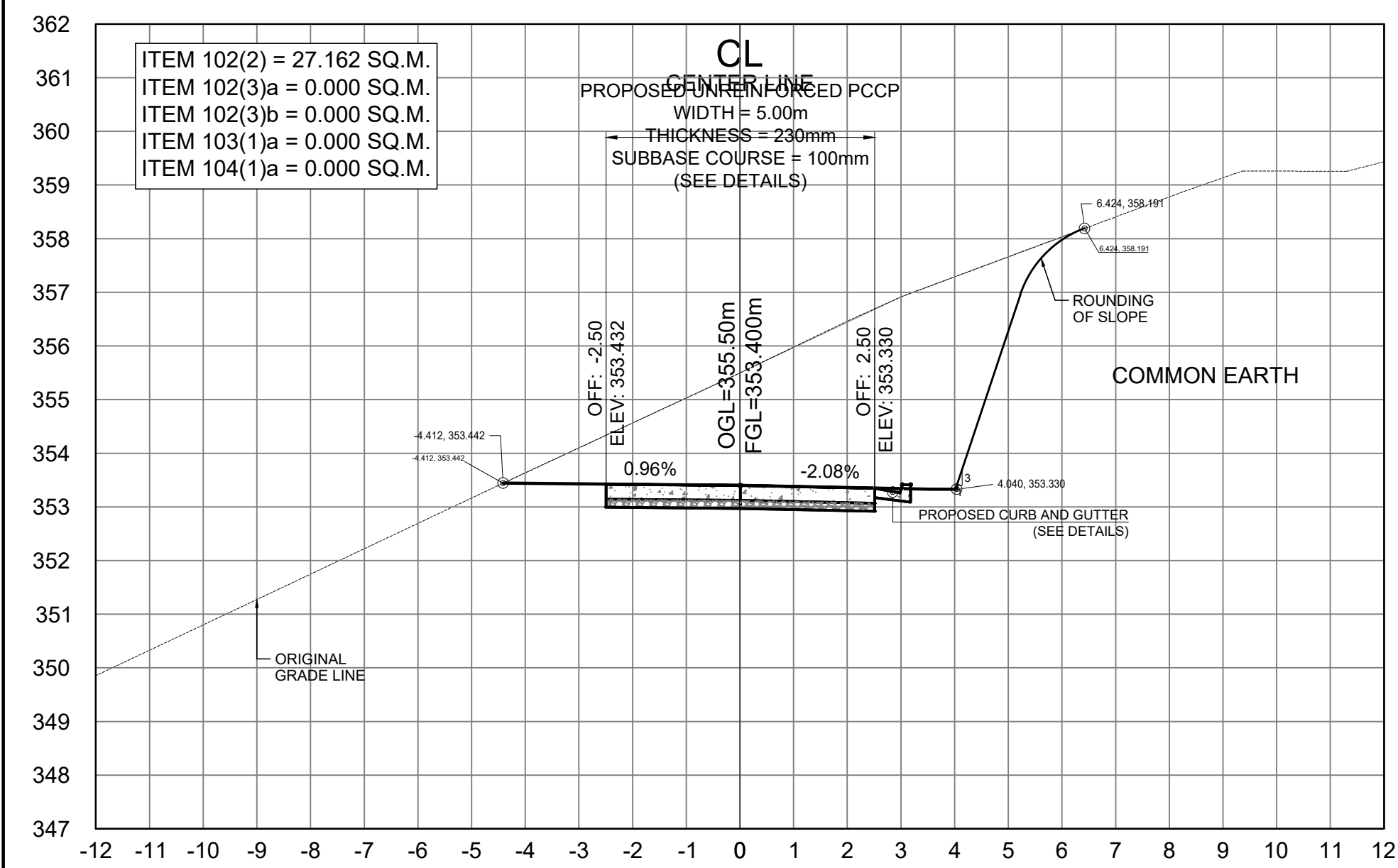
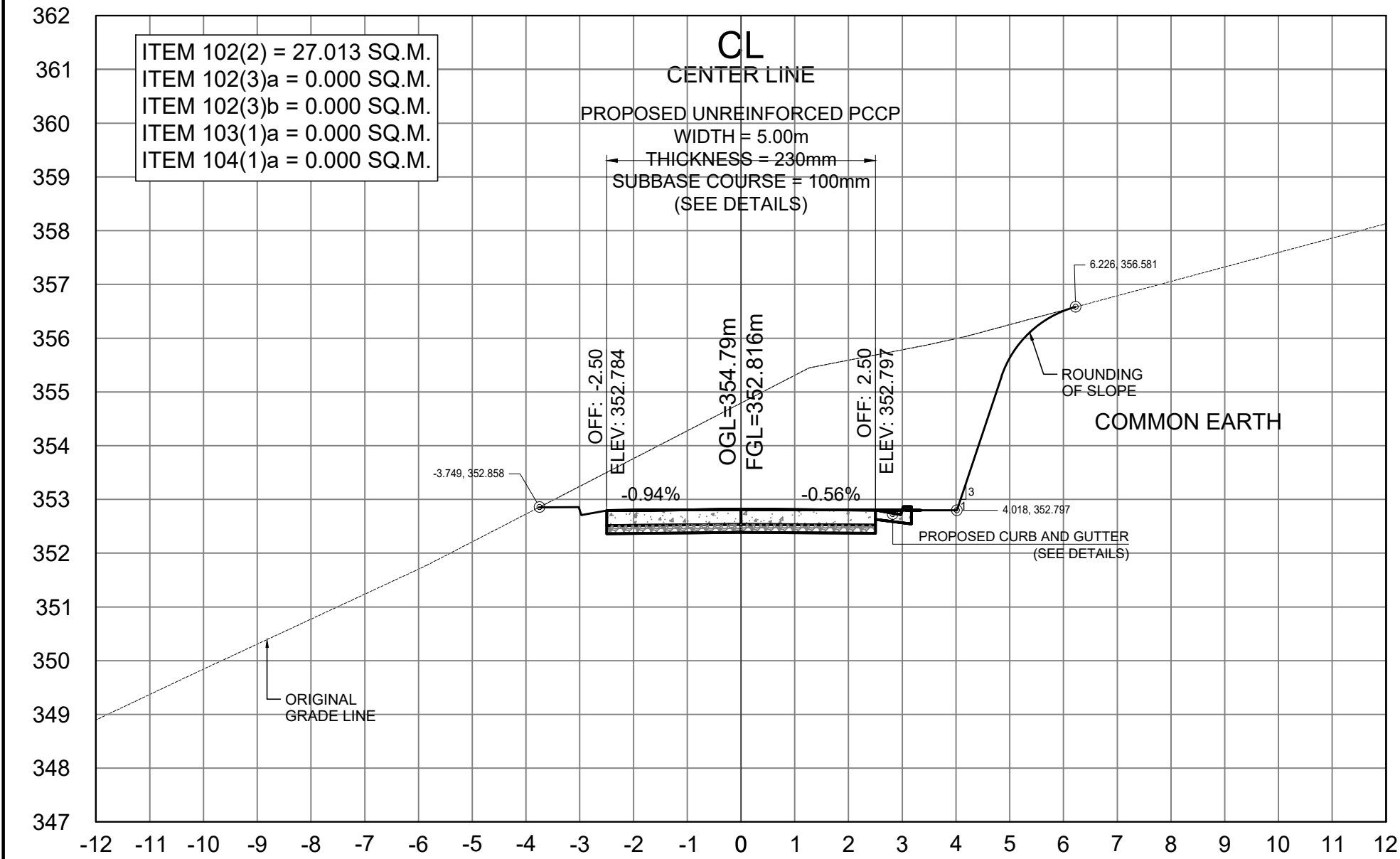


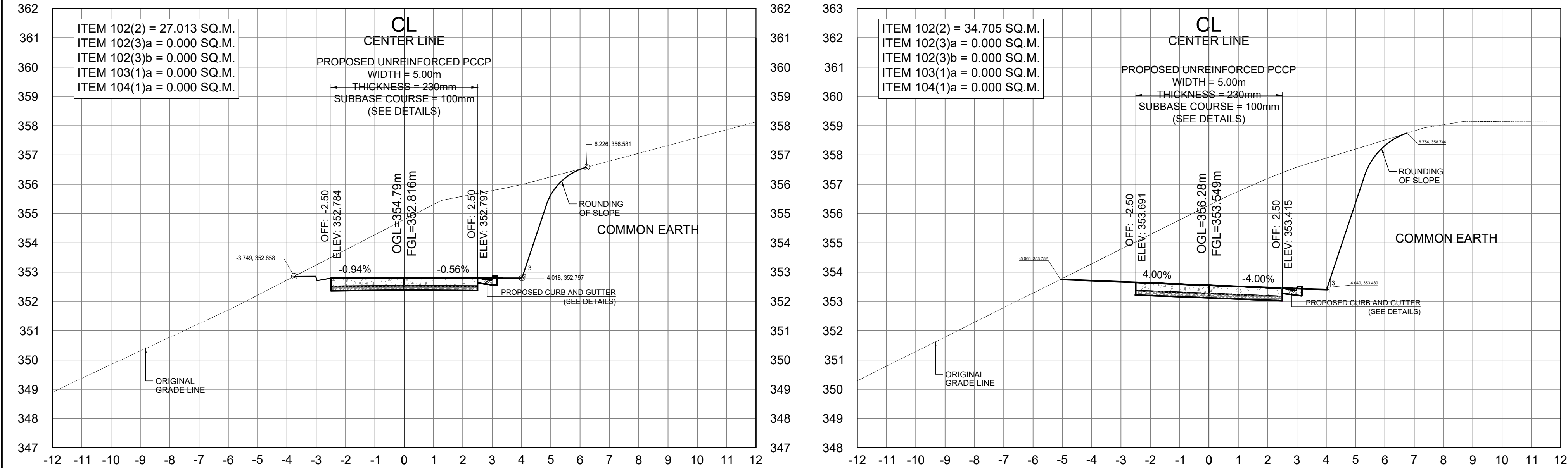


STA. 1+020.00

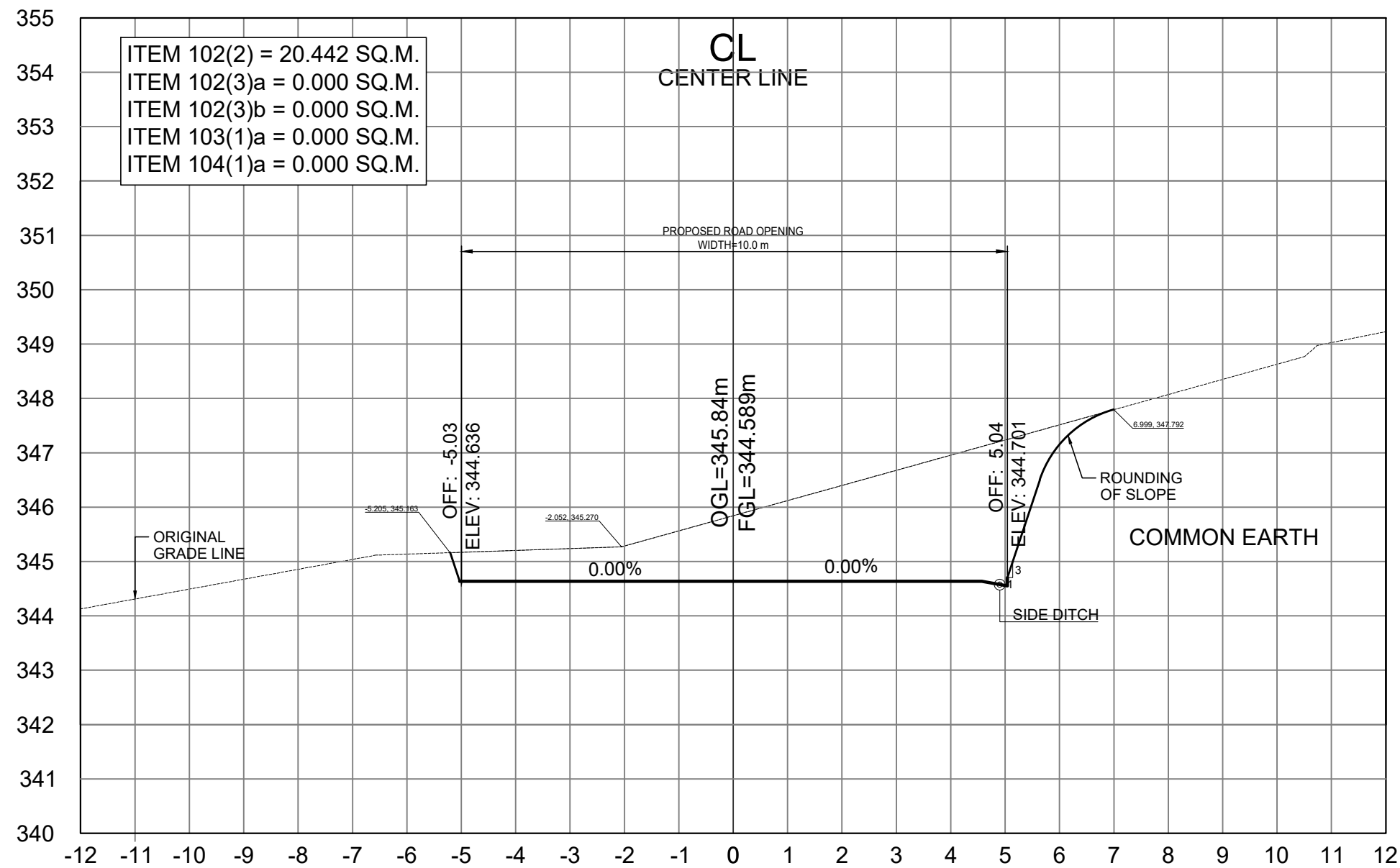


STA. 1+000.00

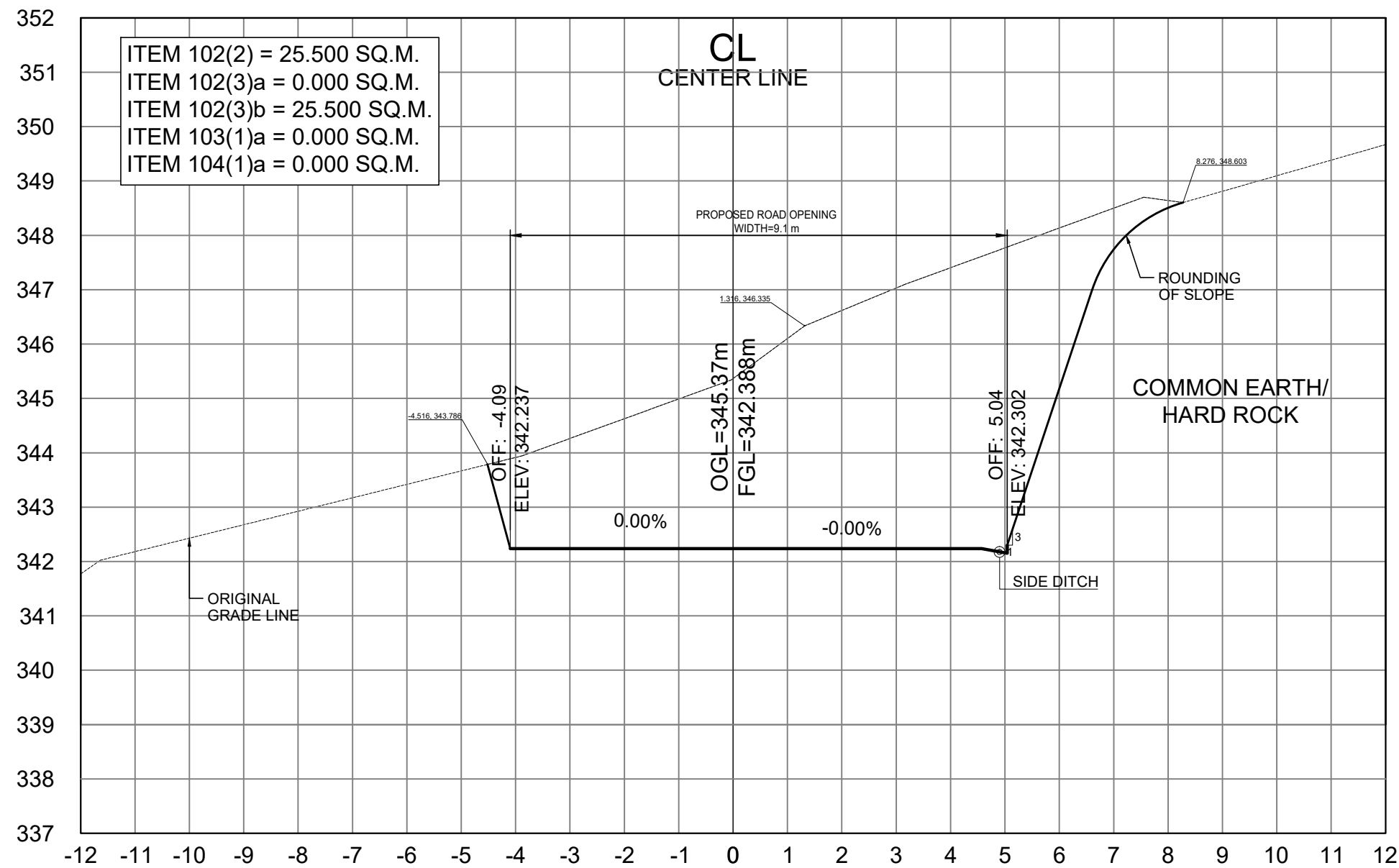
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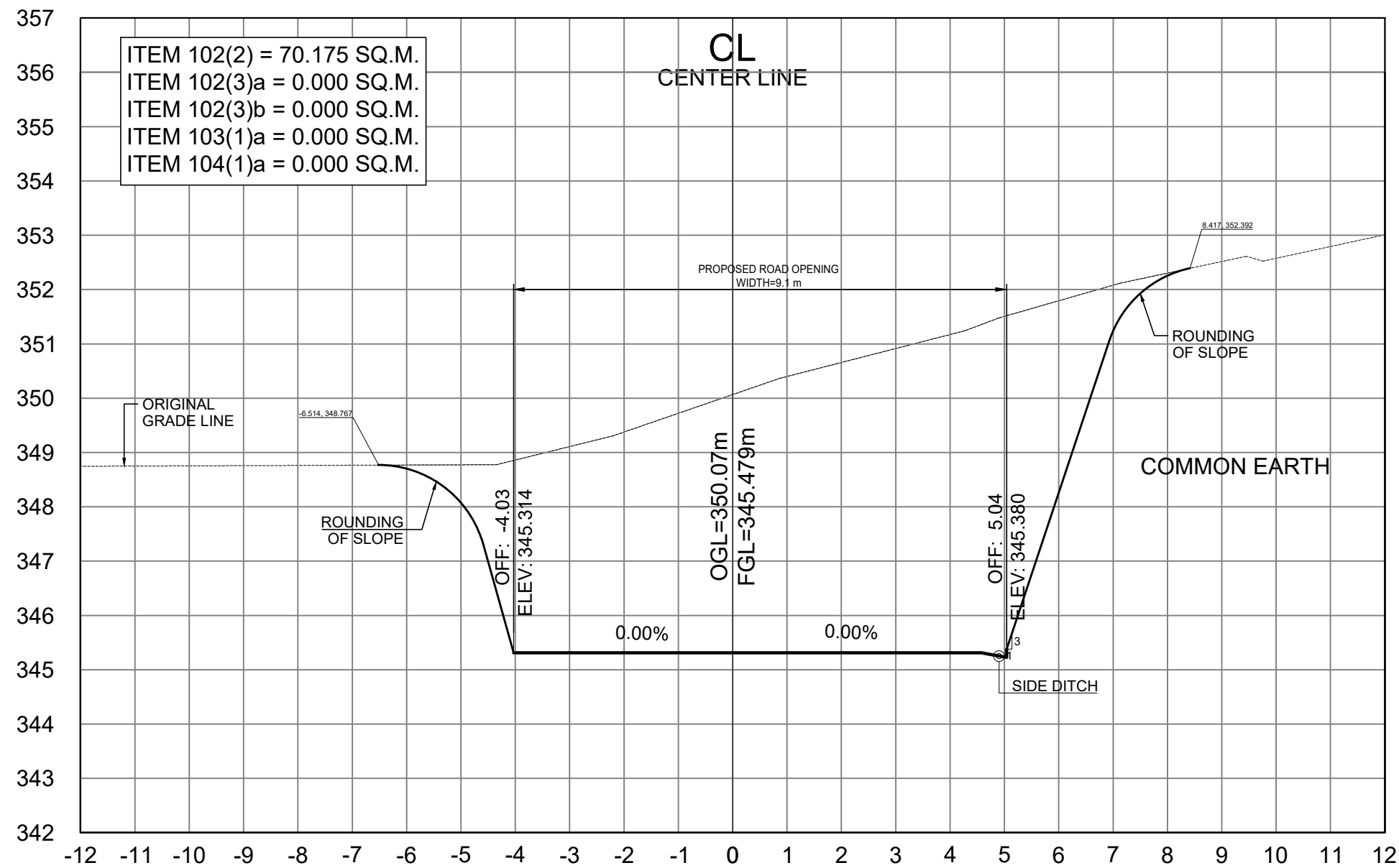
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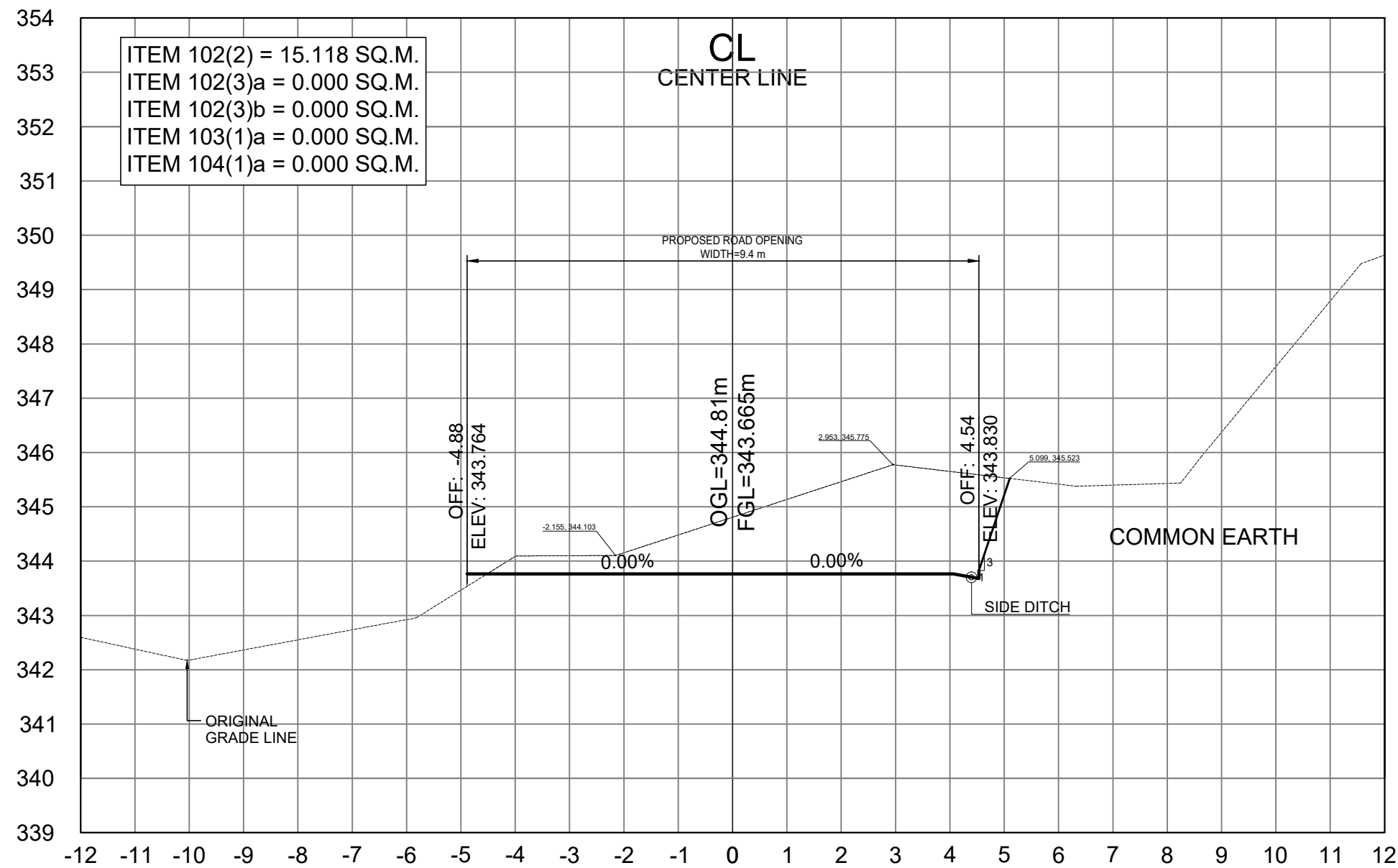
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STA. 1+220.00

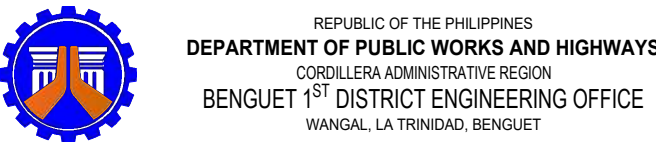


STA. 1+160.00



STA. 1+200.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

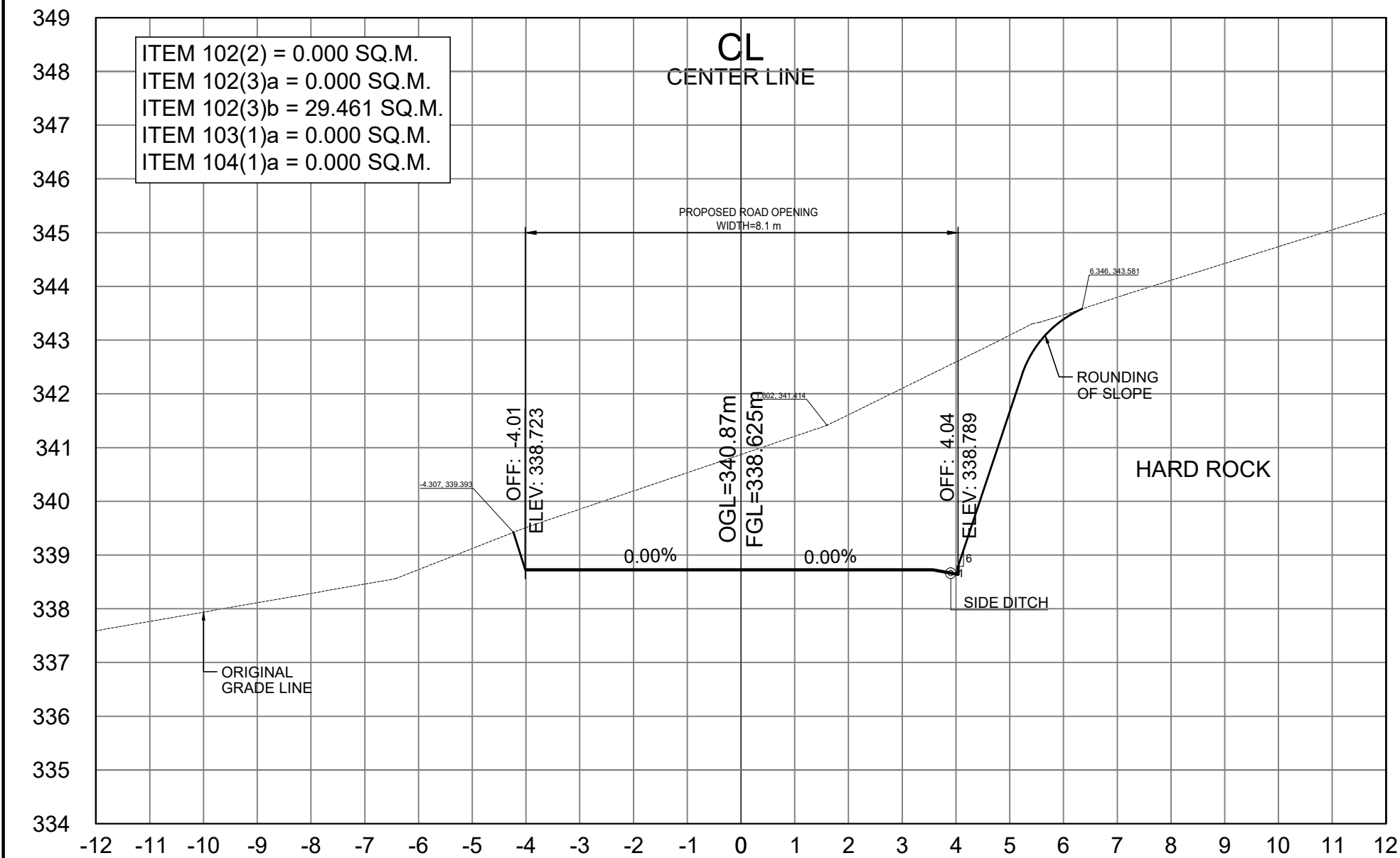
DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

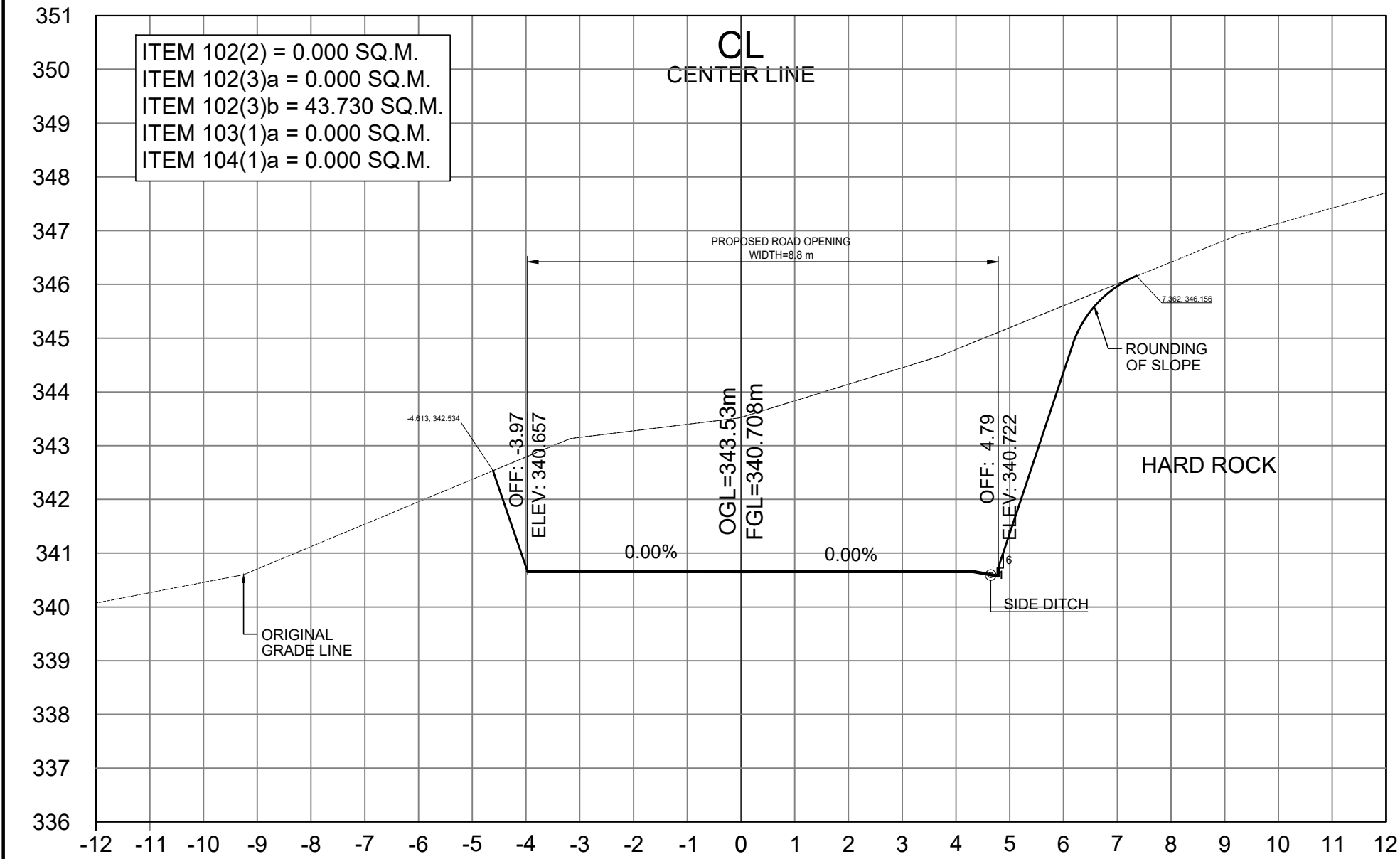
DATE:

SET NO. **CROSS SECTION 01 64**

SHEET NO. **42 106**

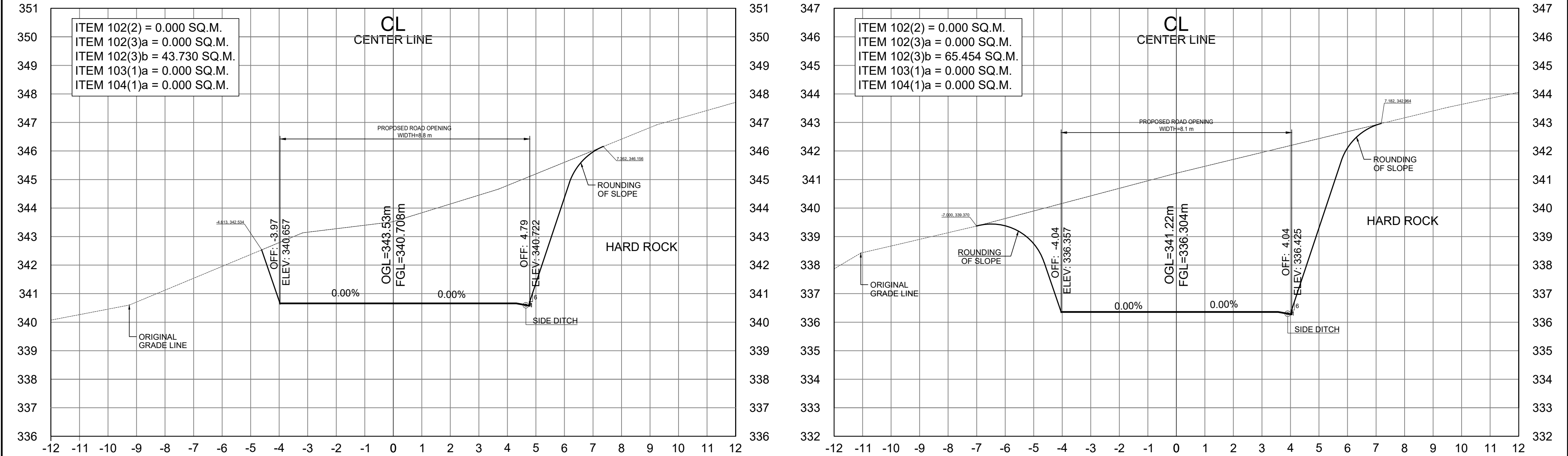


STA. 1+260.00

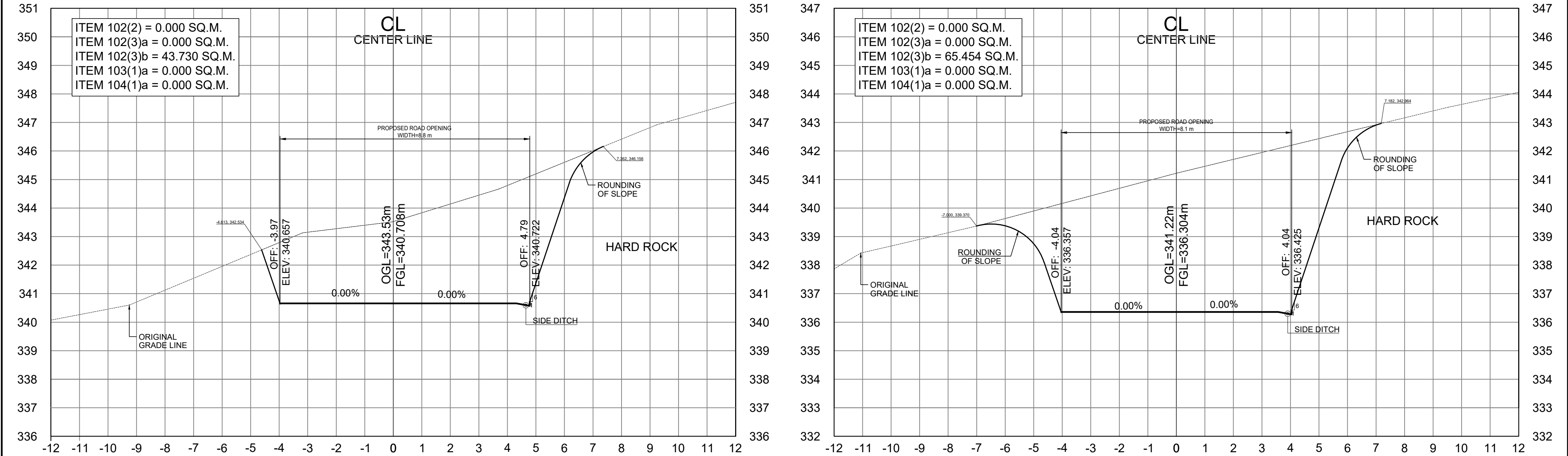


STA. 1+240.00

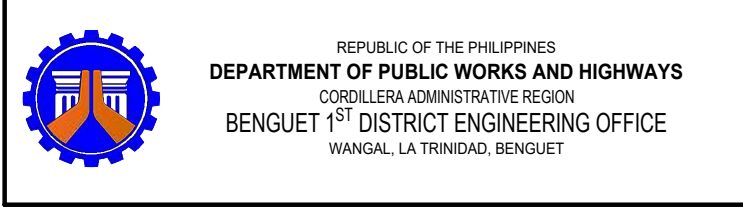
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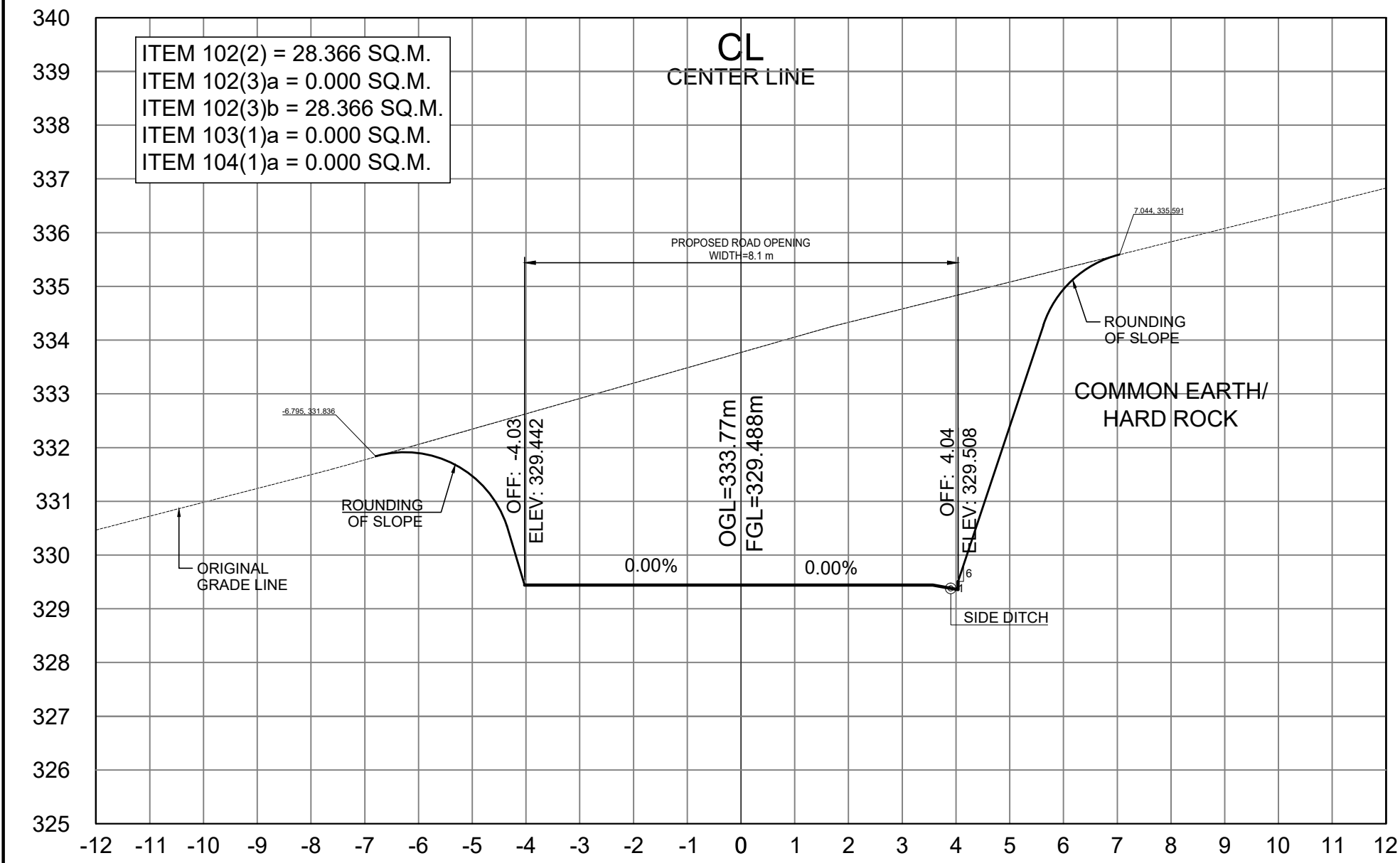


STA. 1+300.00

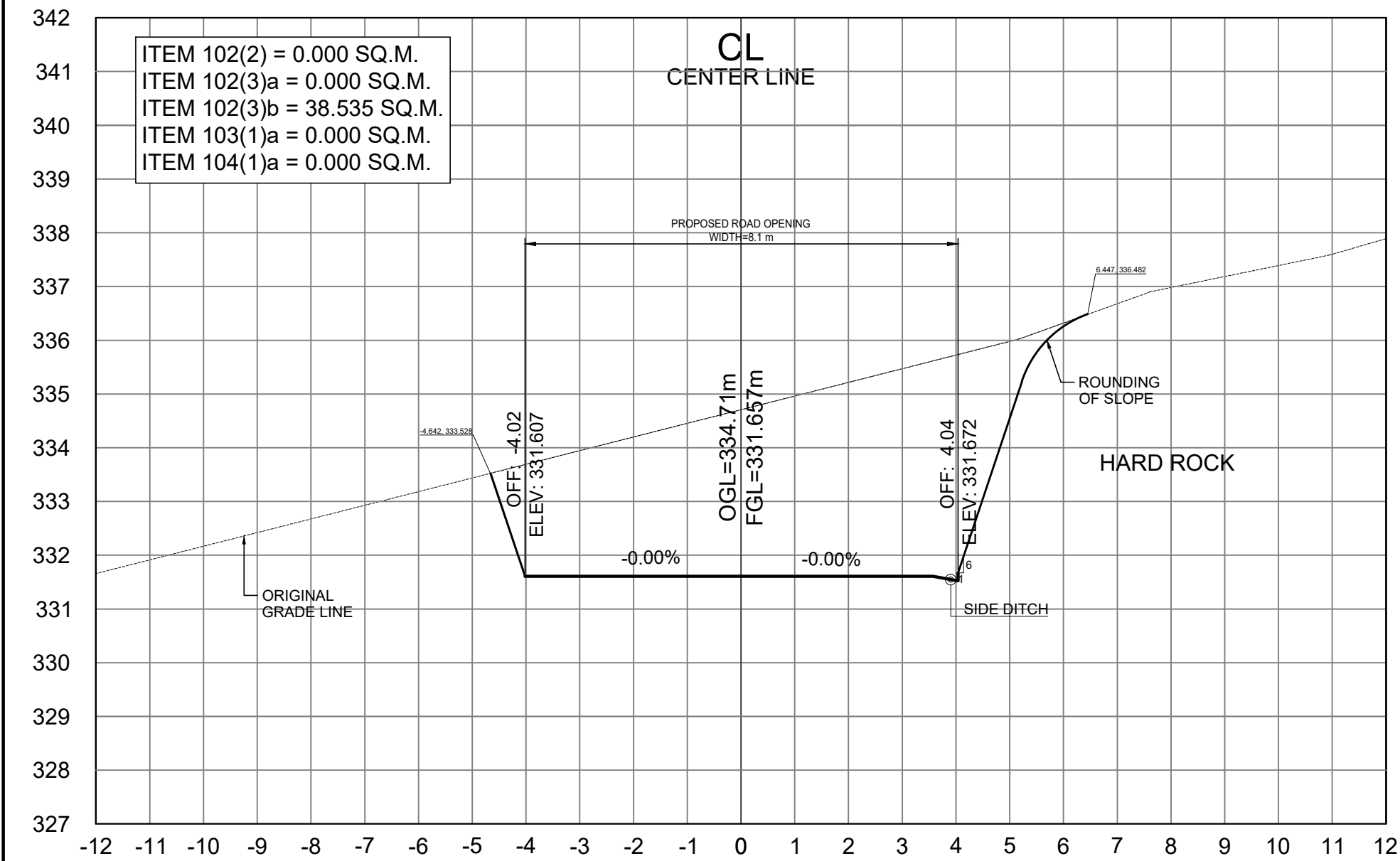


STA. 1+280.00

	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET	- CROSS SECTION	DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT	EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	43 106
	TUBA, BENGUET		PREPARED: DEXTER G. BIALNO ENGINEER II	DATE:	DATE:	DATE:	DATE:		

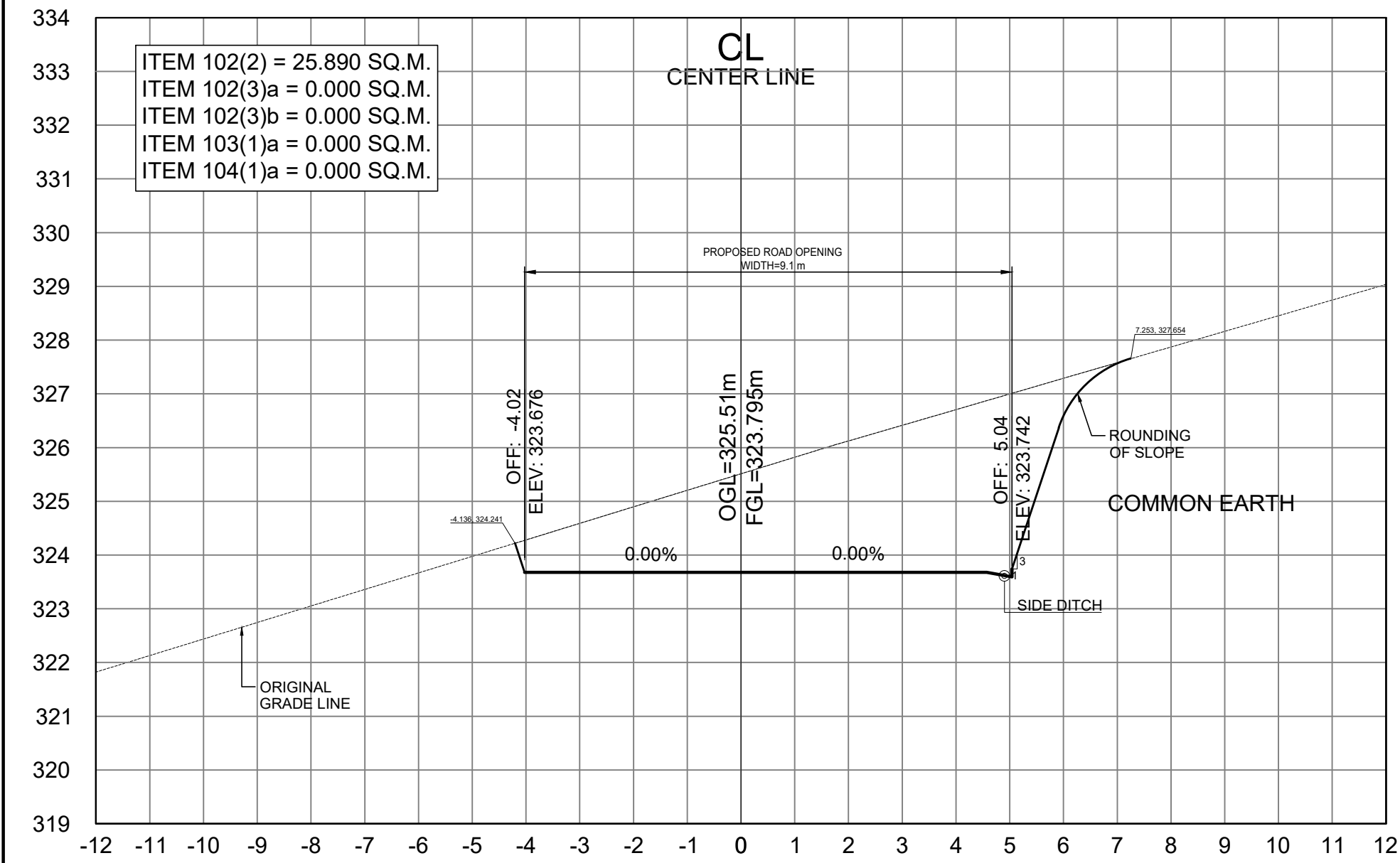


STA. 1+340.00

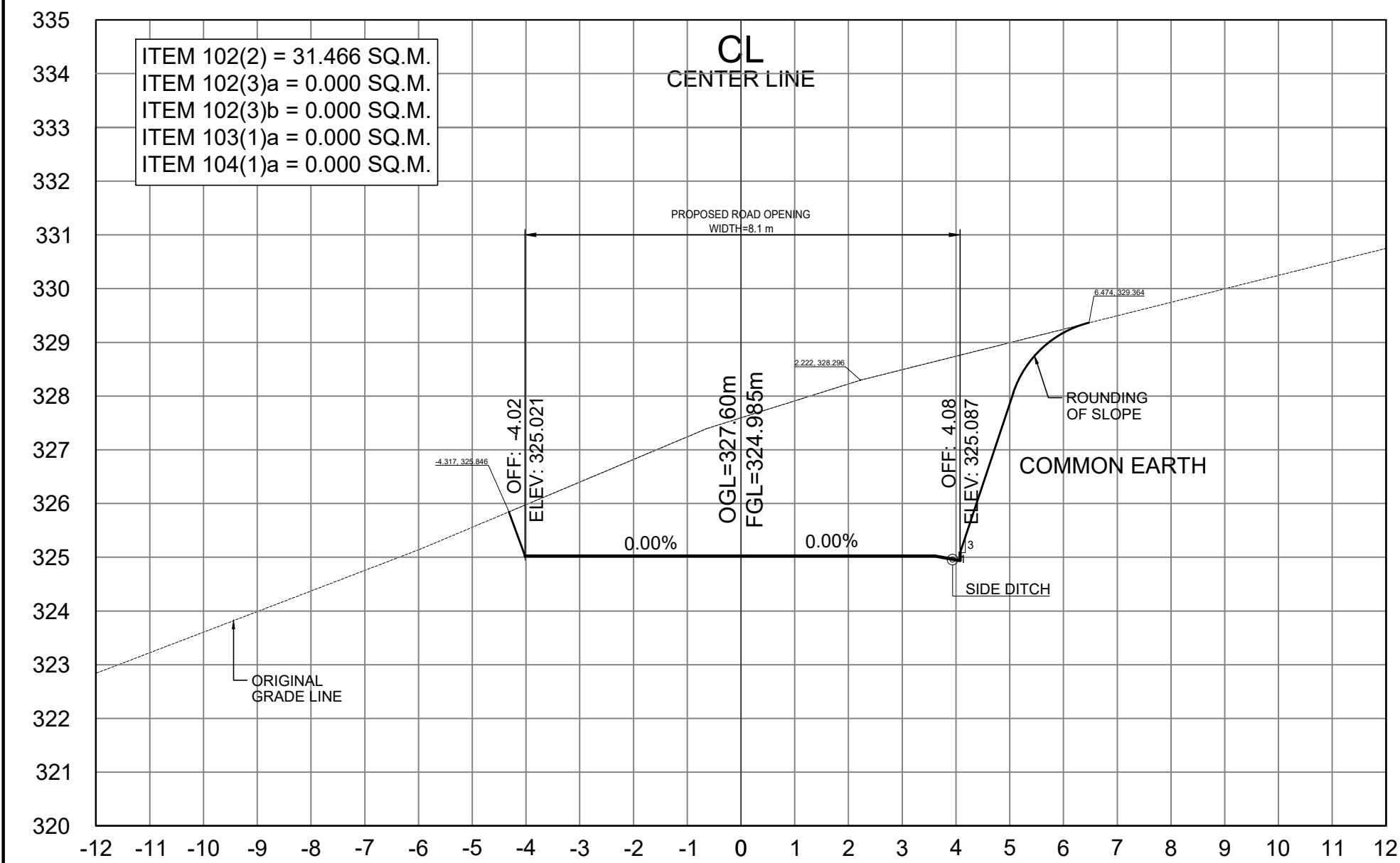


STA. 1+320.00

	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	SHEET CONTENTS: - CROSS SECTION	DRAFTED: DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT PREPARED: DEXTER G. BIALNO ENGINEER II		REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
			EDISON C. AMBALES ENGINEER II		ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	44	106
			DATE:		DATE:	DATE:	DATE:	DATE:		

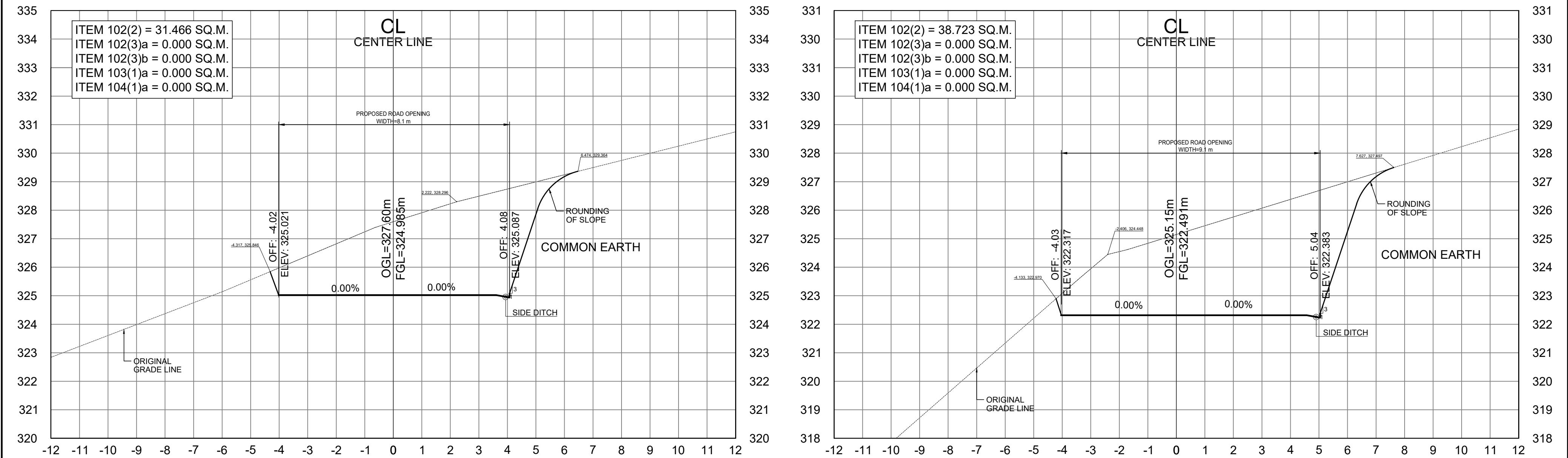


STA. 1+420.00

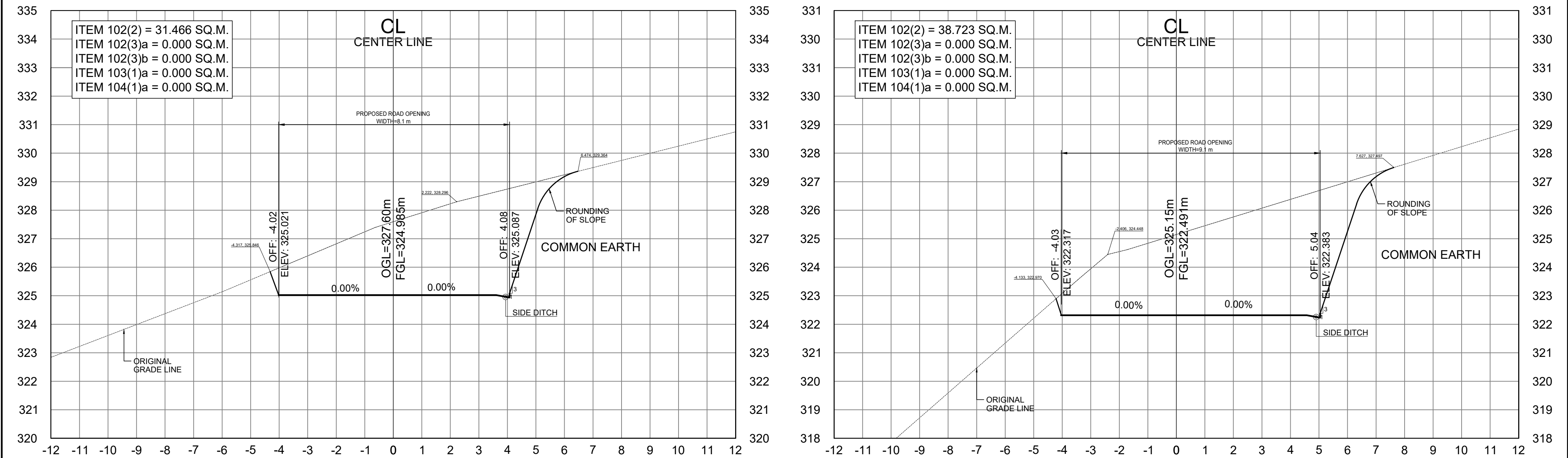


STA. 1+400.00

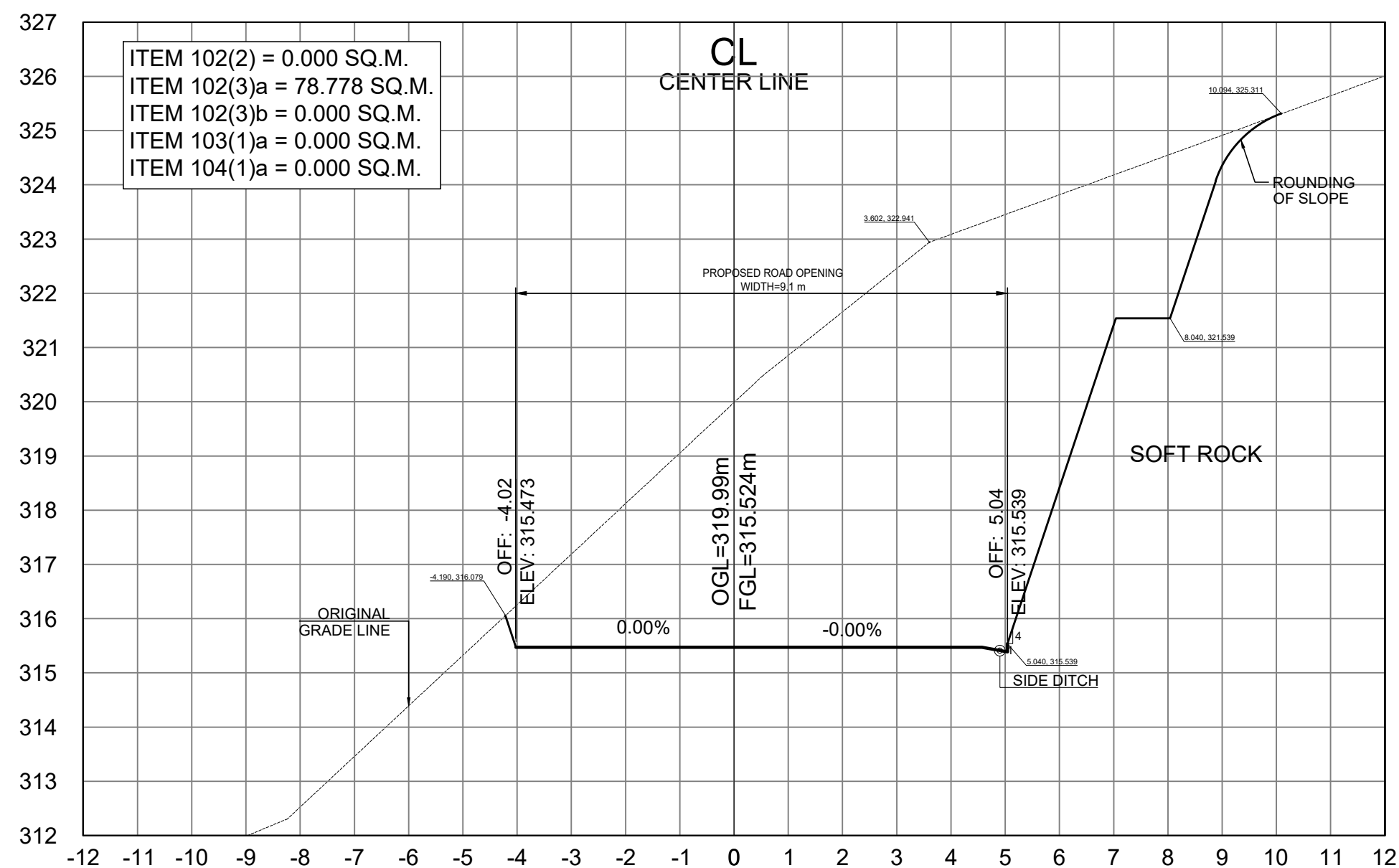
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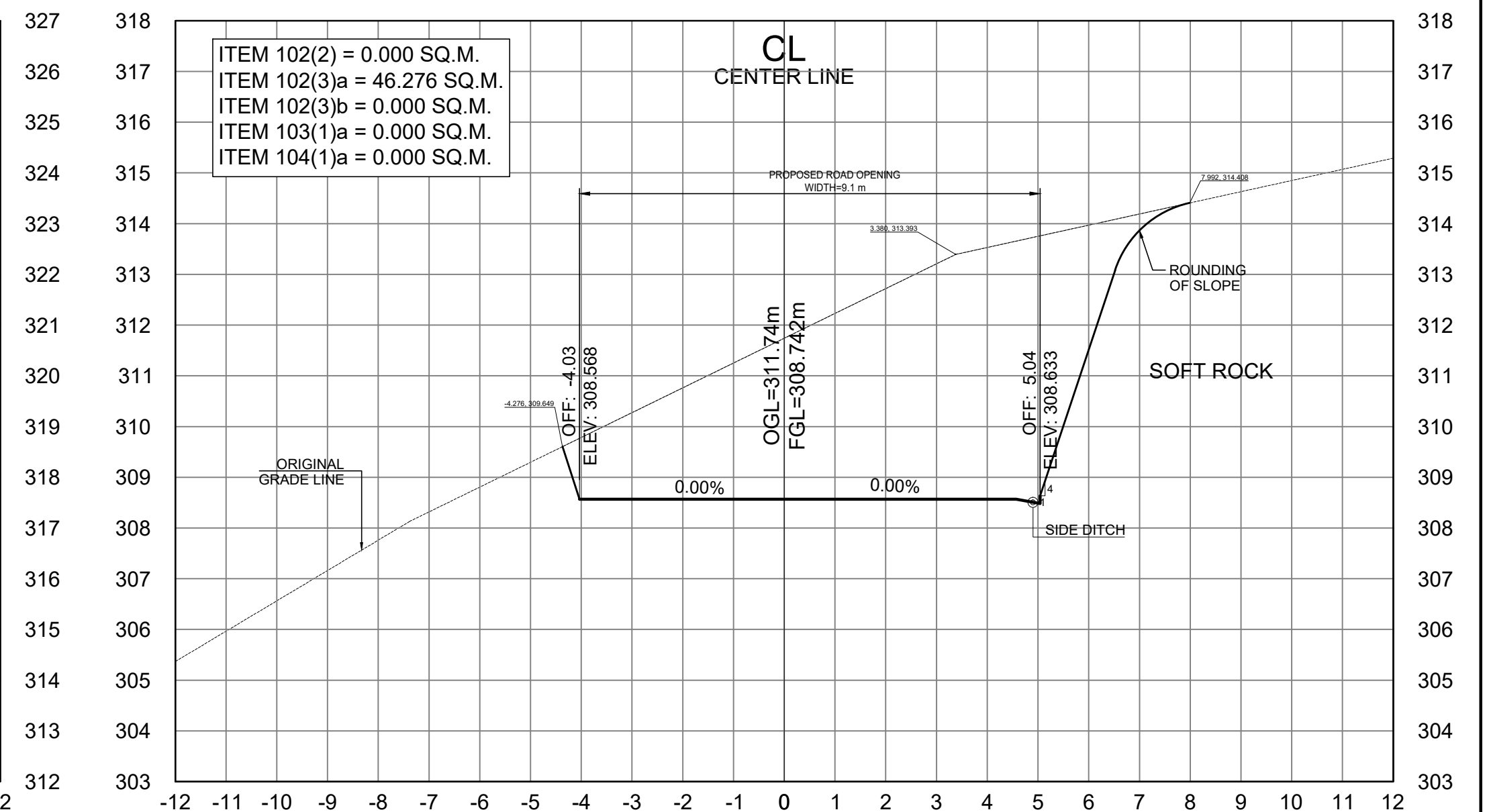
STA. 1+460.00



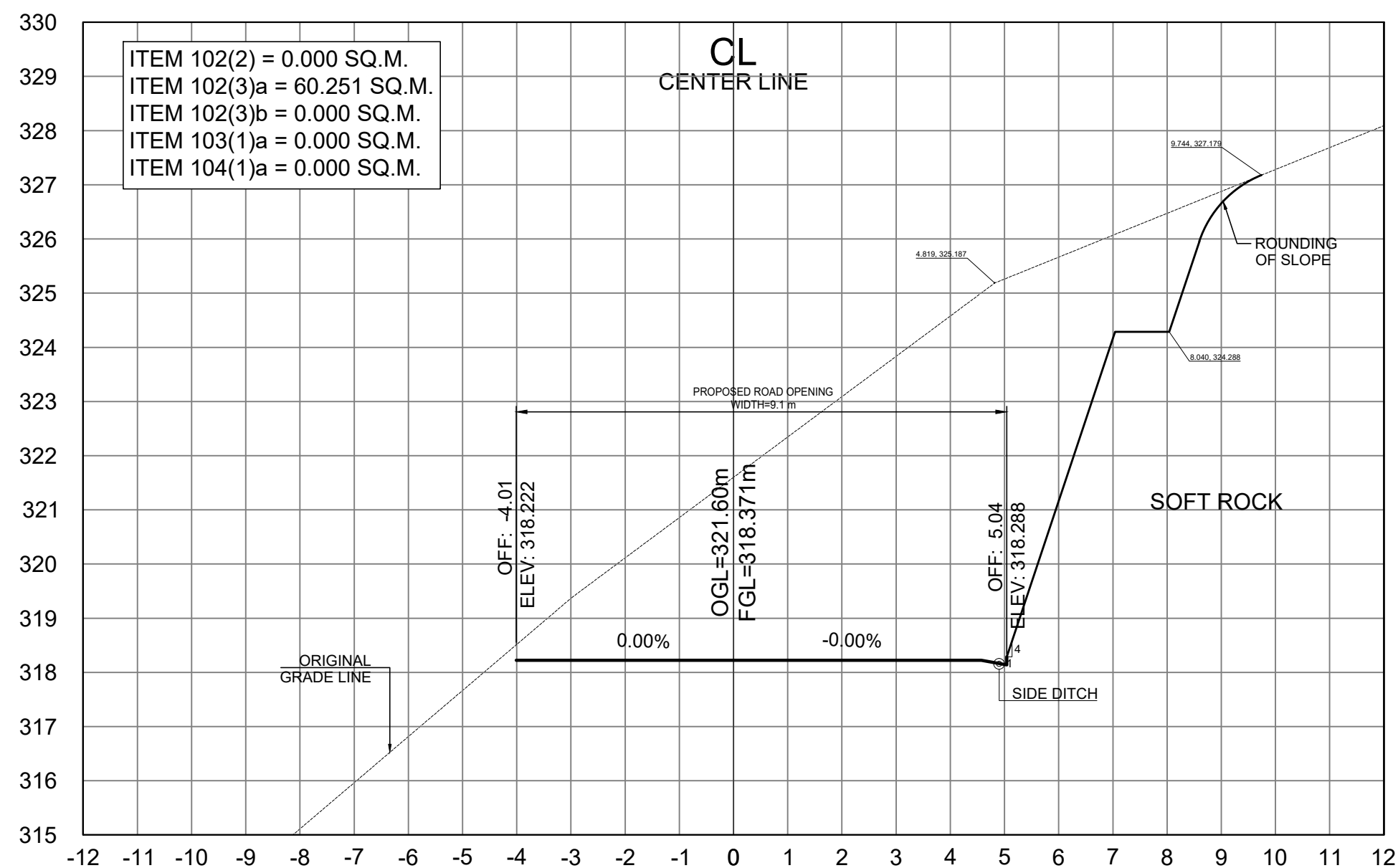
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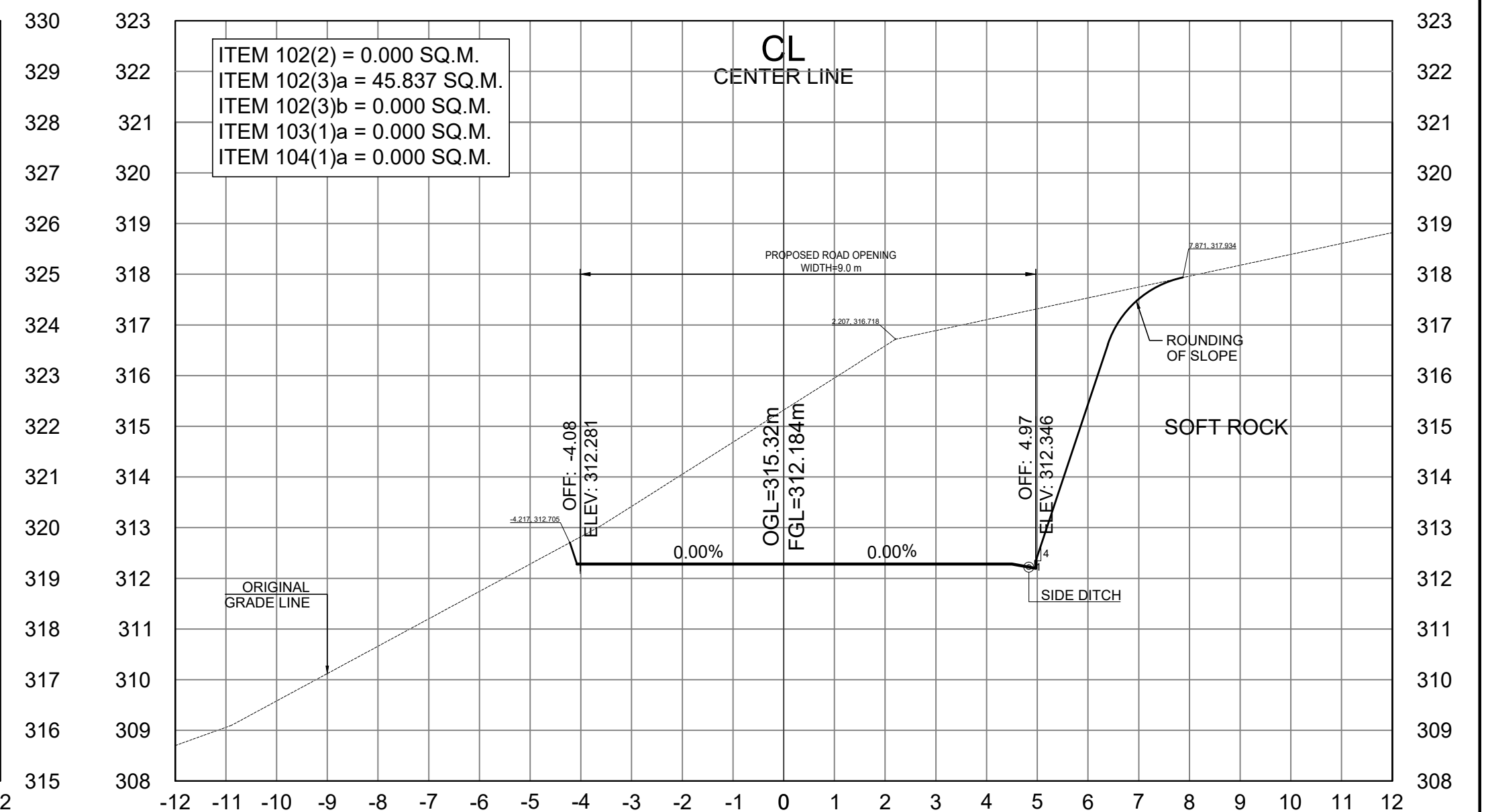
STA. 1+500.00



STA. 1+540.00

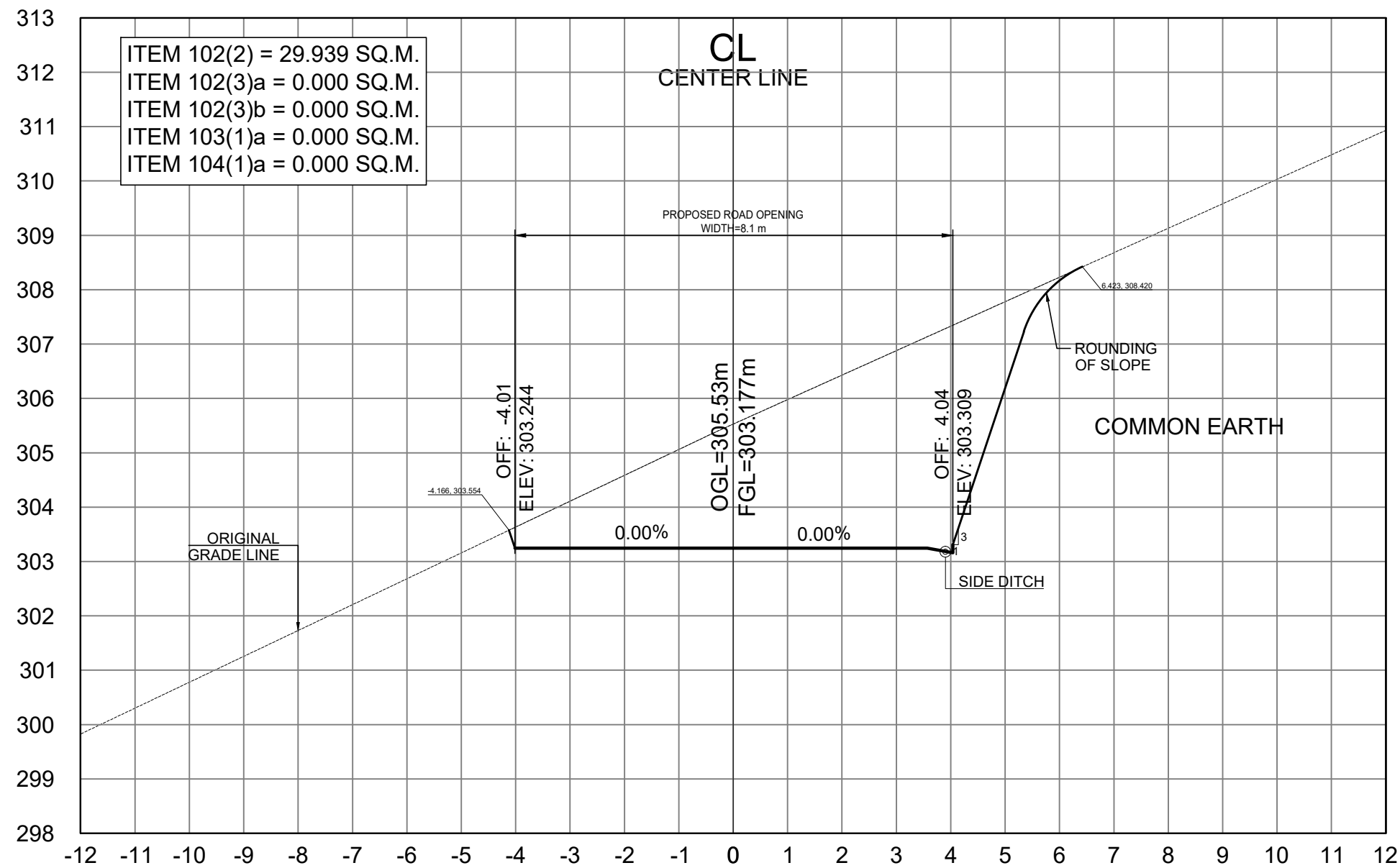


STA. 1+480.00

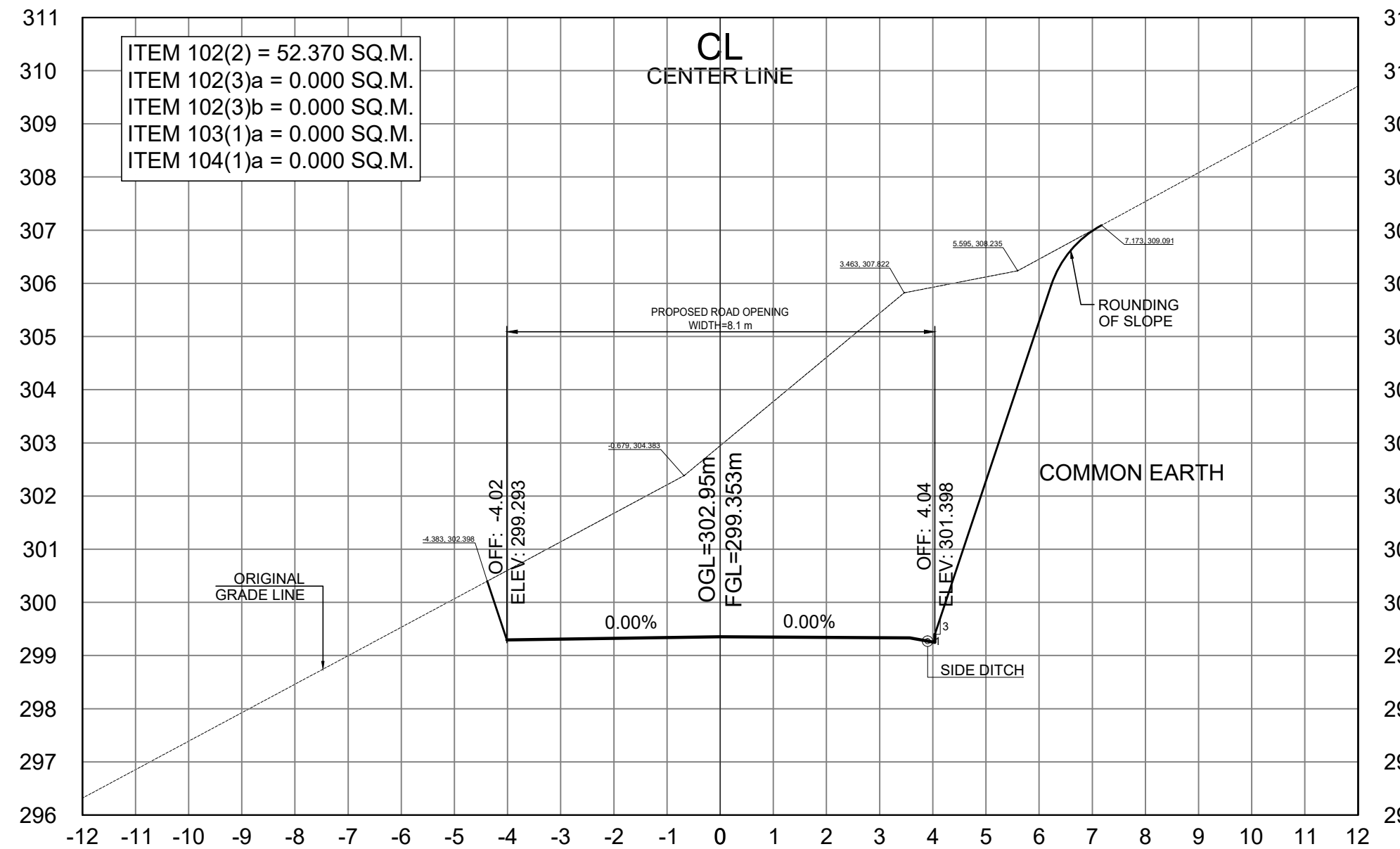


STA. 1+520.00

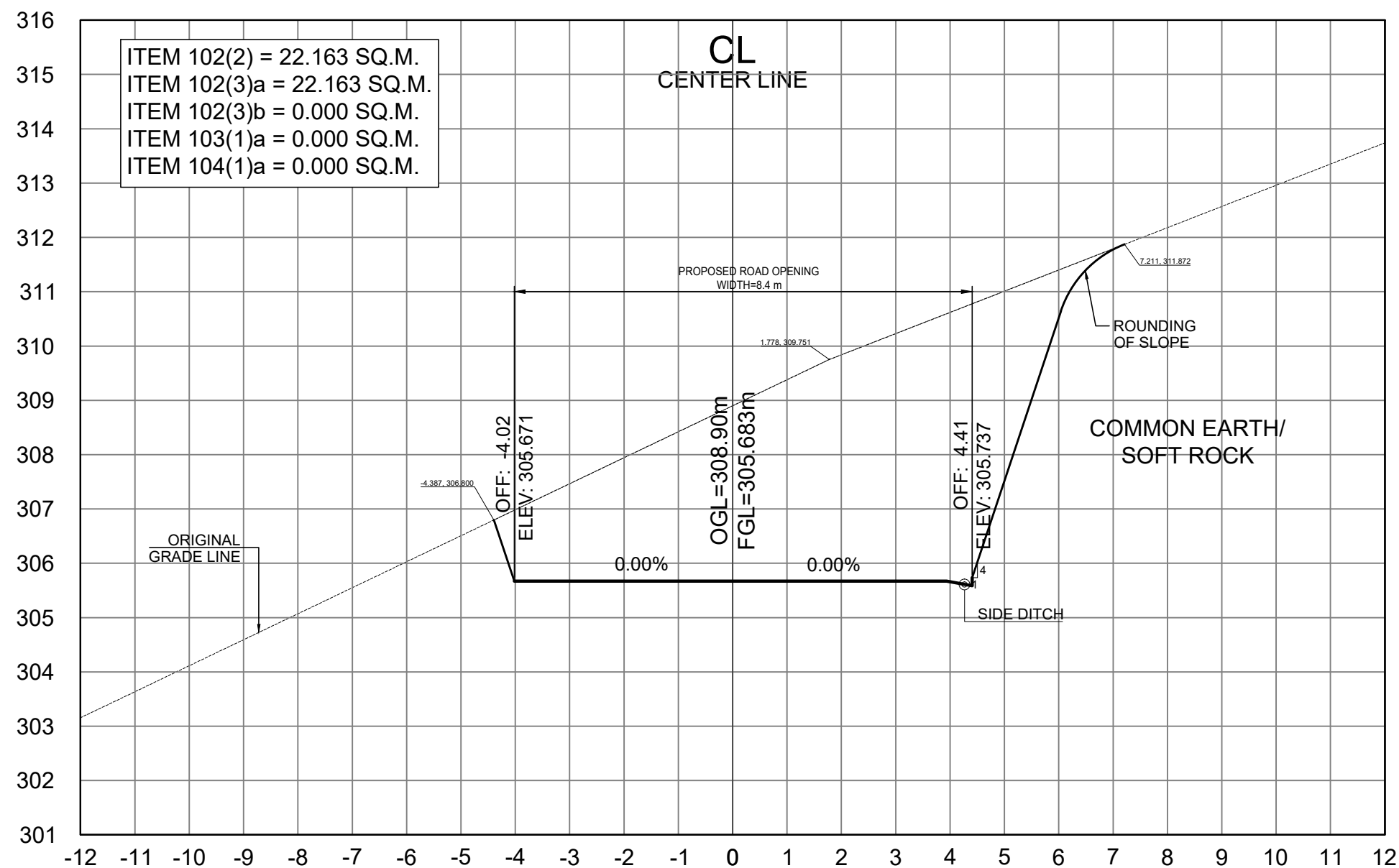
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CROSS SECTIONS	1:100 MTS.



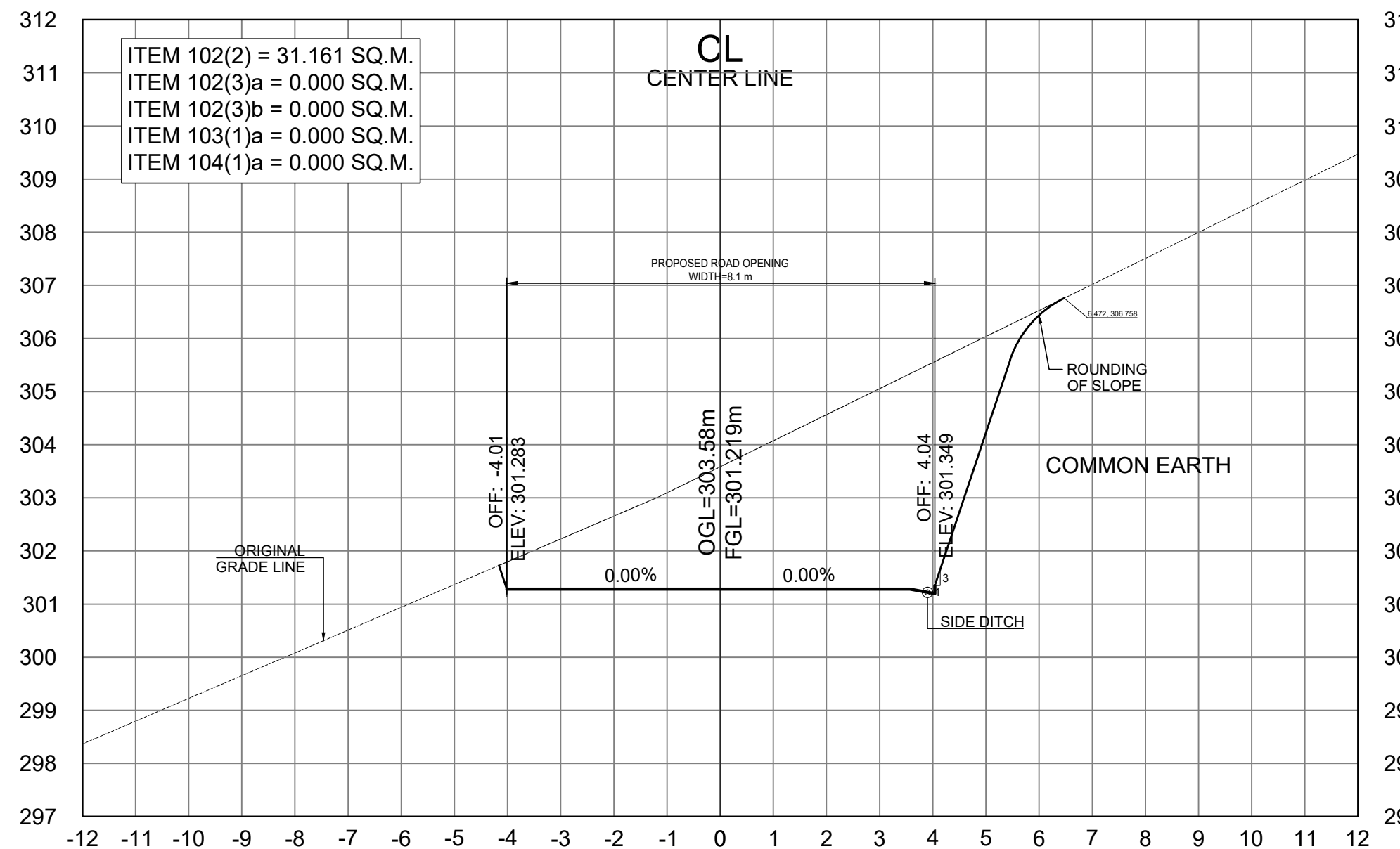
STA. 1+580.00



STA. 1+620.00

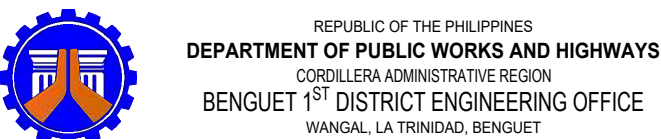


STA. 1+560.00



STA. 1+600.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

DATE:

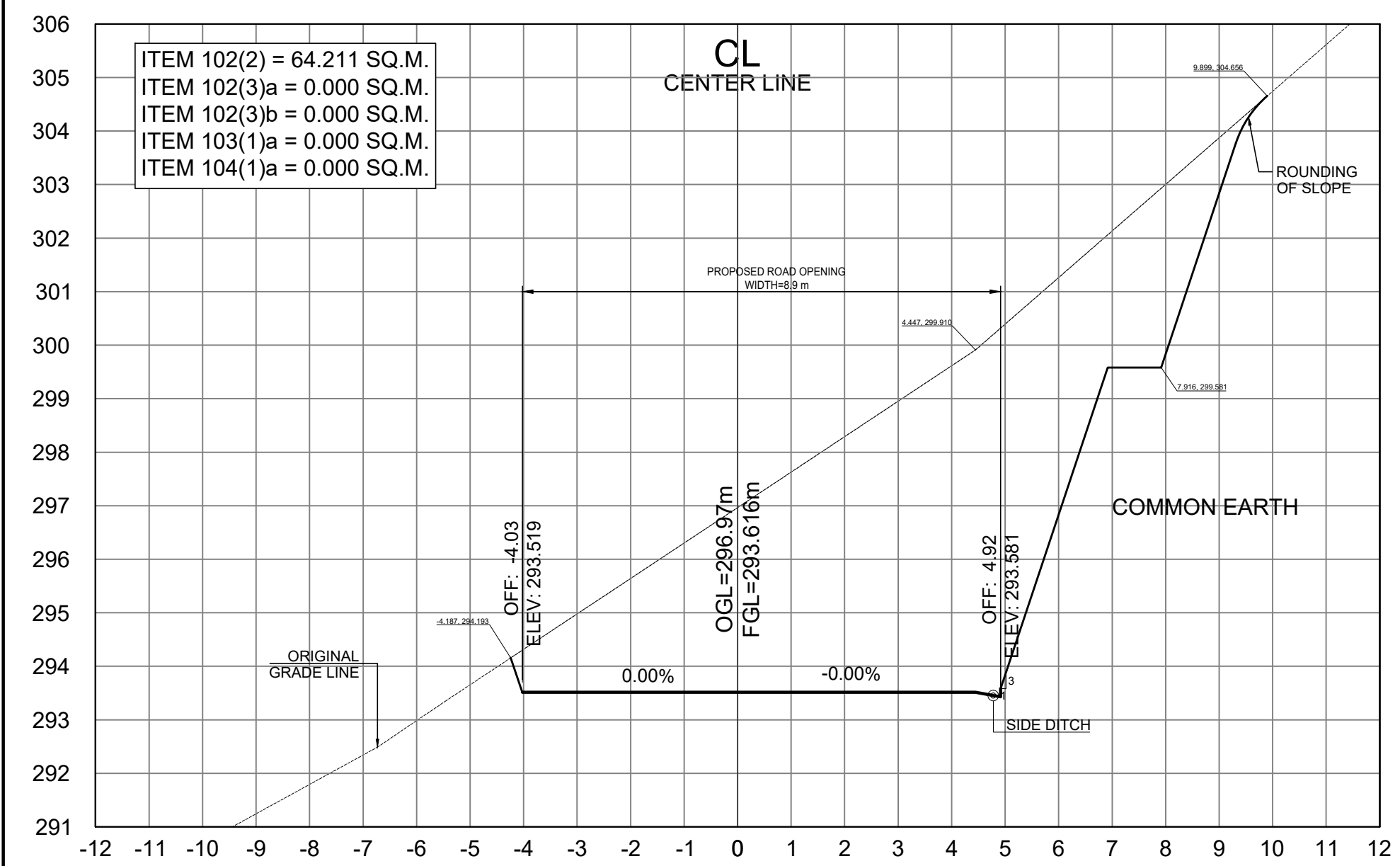
APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

DATE:

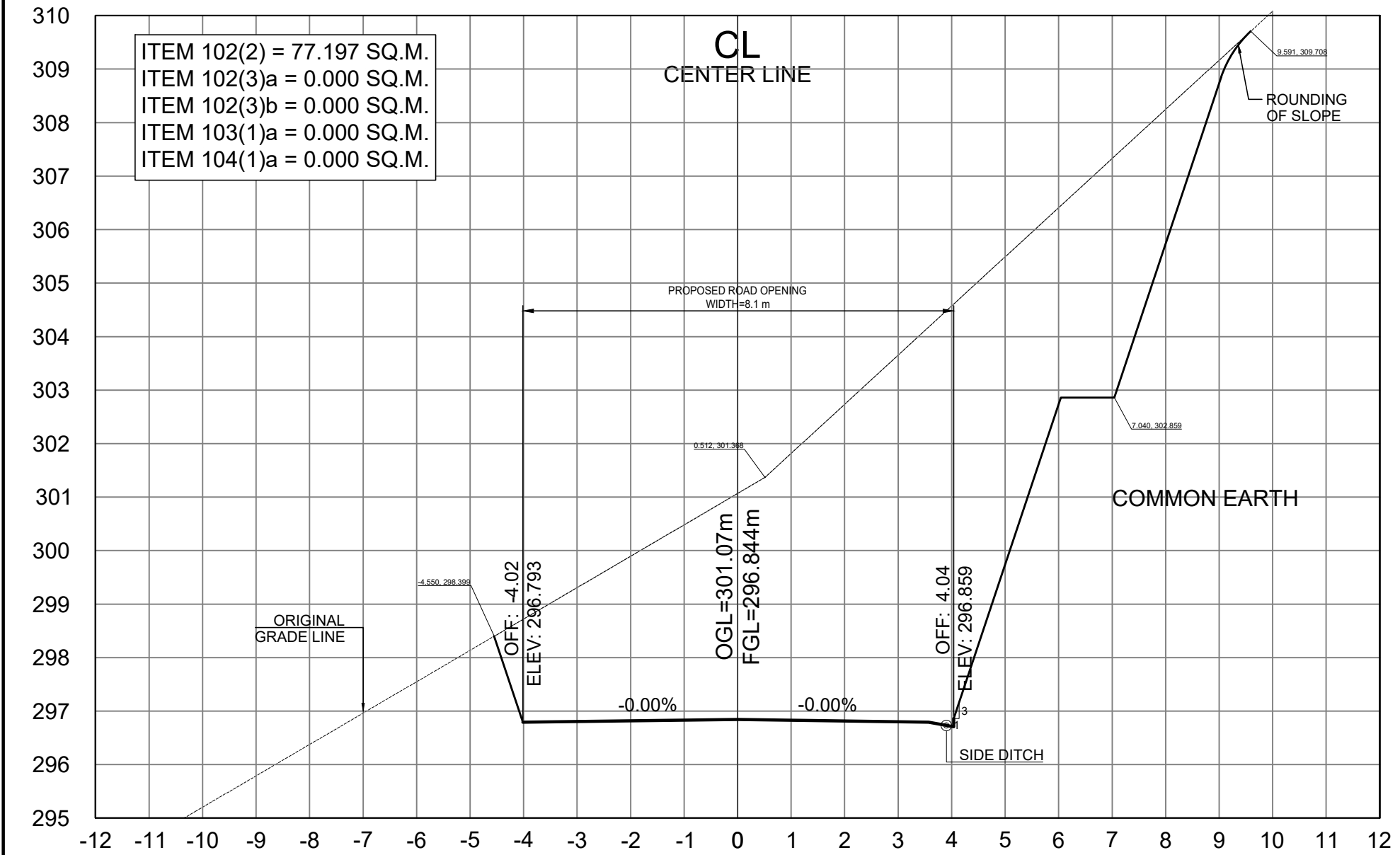
SET NO. **01** SHEET NO. **64**

CROSS SECTION
01 **64**

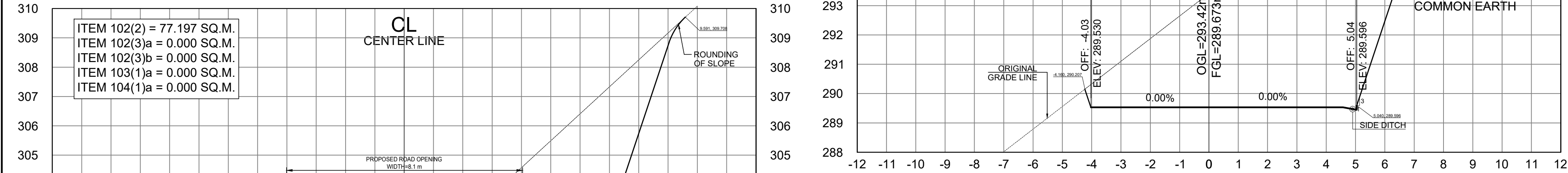
47
106



STA. 1+660.00



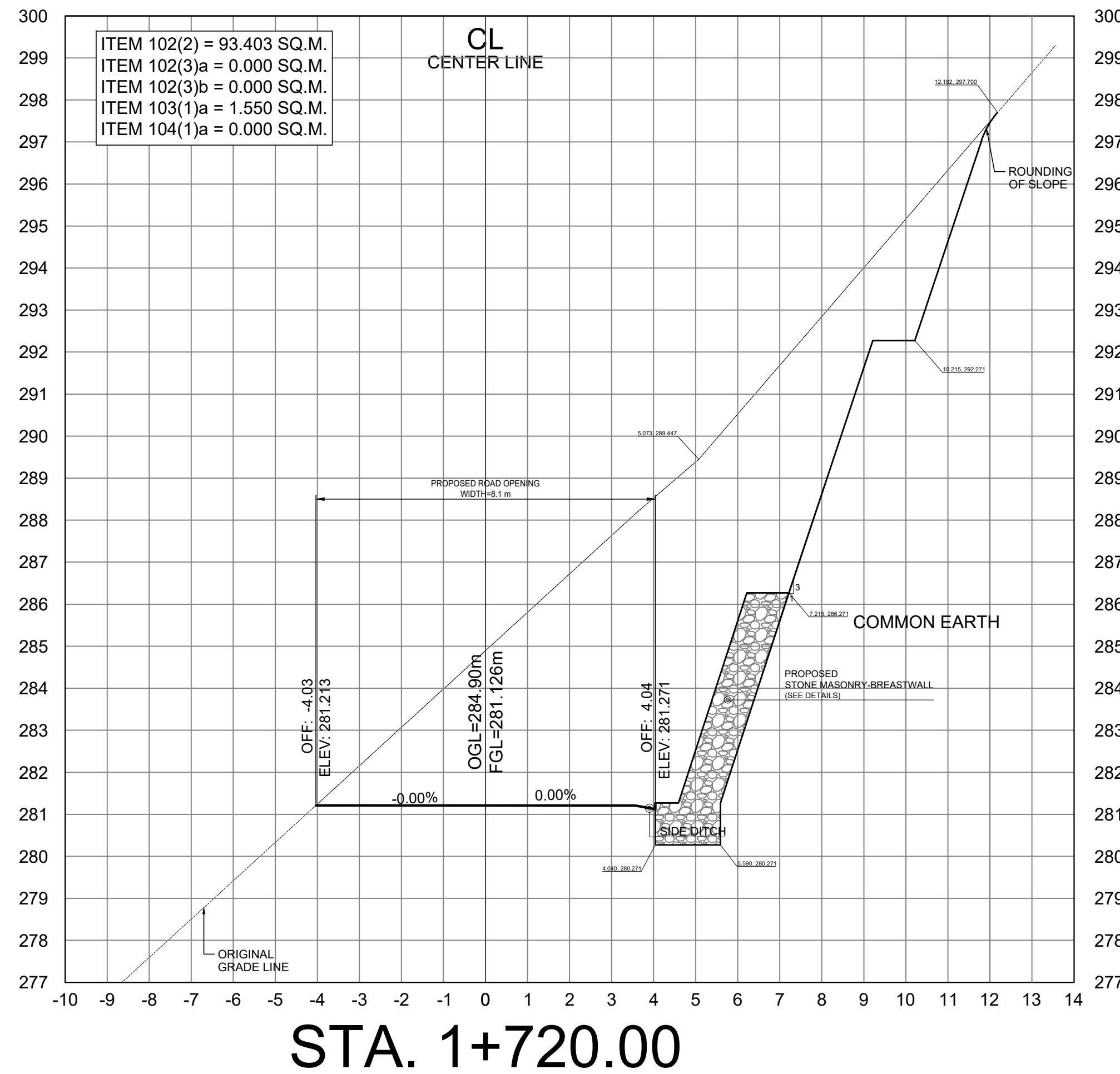
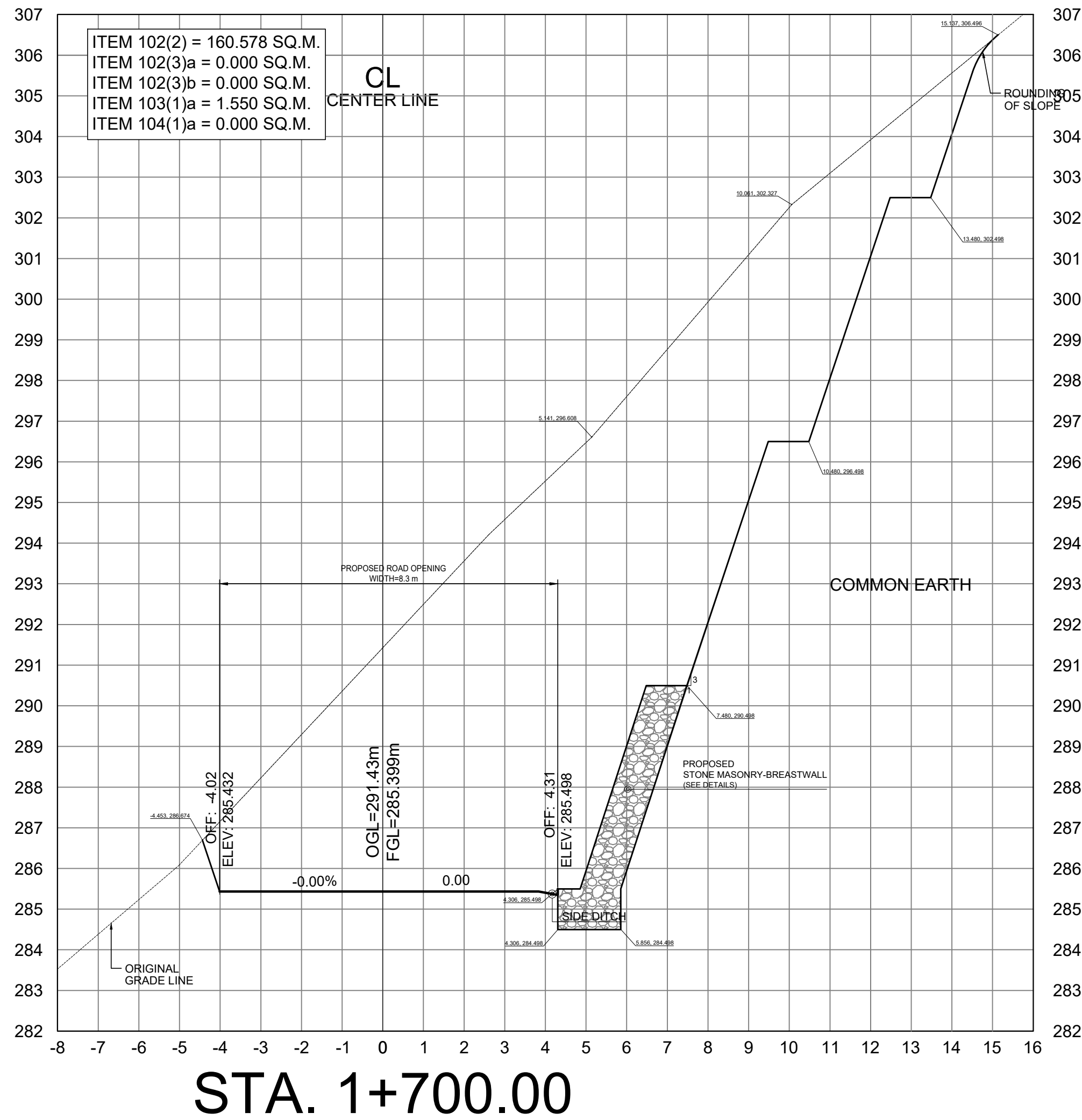
STA. 1+640.00



STA. 1+680.00

SCALE	
CROSS SECTIONS	1:100 MTS.

	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	SHEET CONTENTS: - CROSS SECTION	DRAFTED: DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT PREPARED: DEXTER G. BIALNO ENGINEER II	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
				EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	48 106
				DATE:	DATE:	DATE:	DATE:		



SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

DATE:

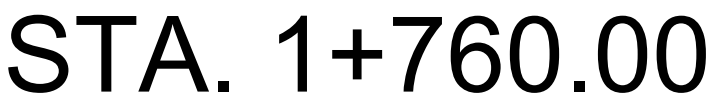
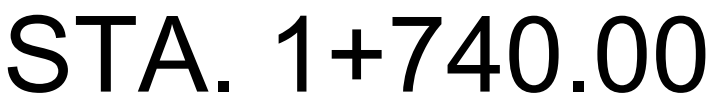
APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

DATE:

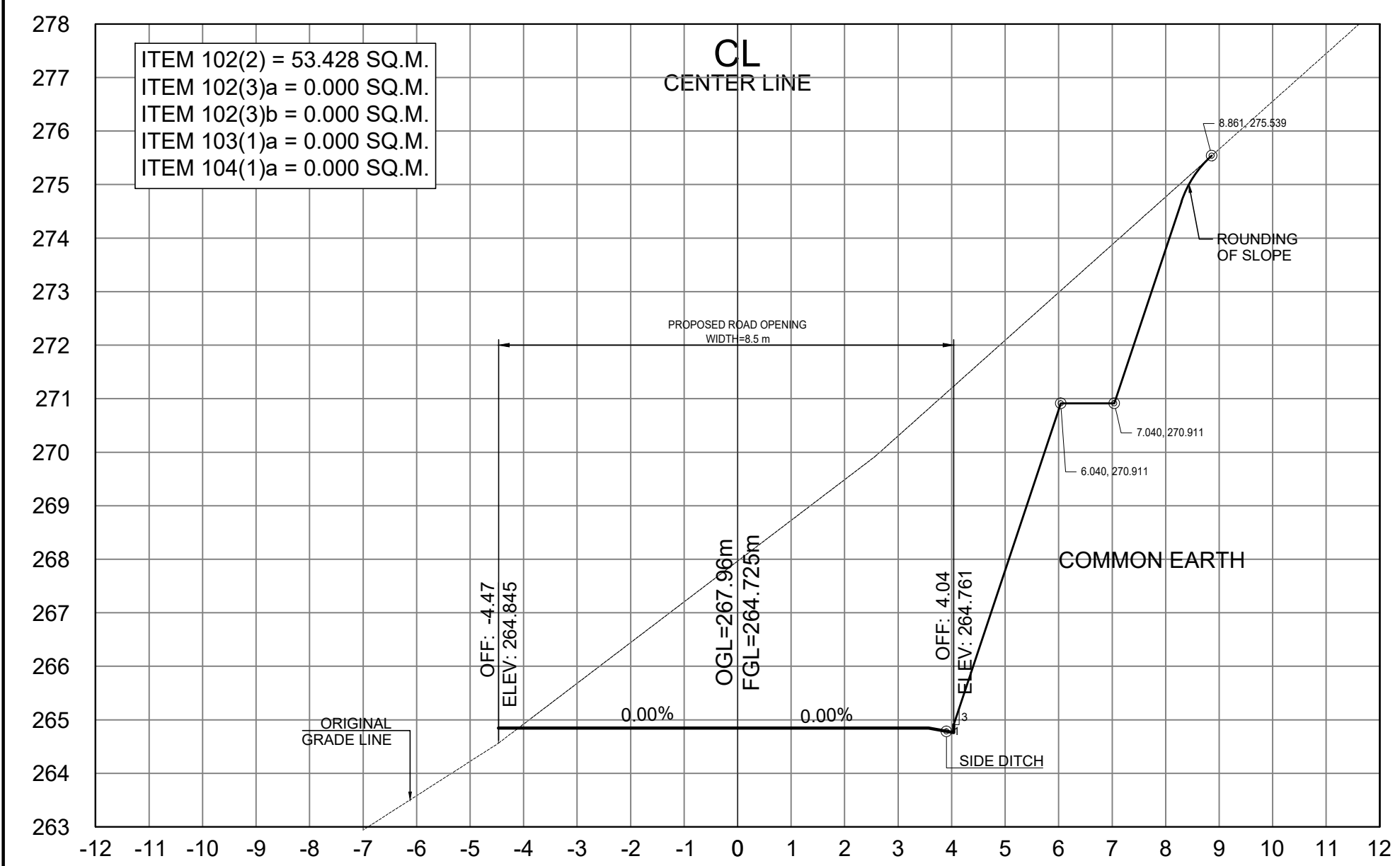
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CROSS SECTION
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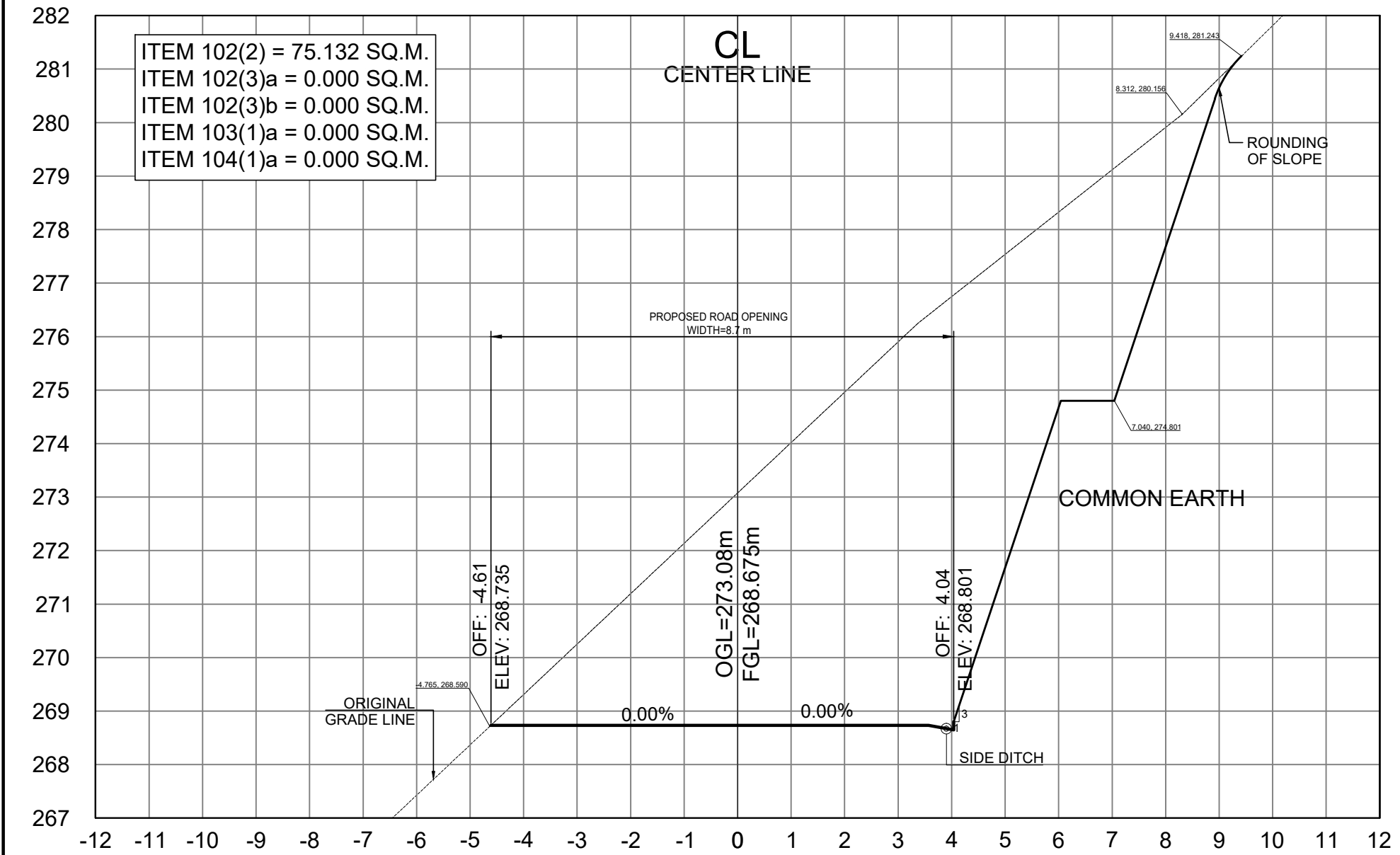
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106



SET NO.	SHEET NO.
	

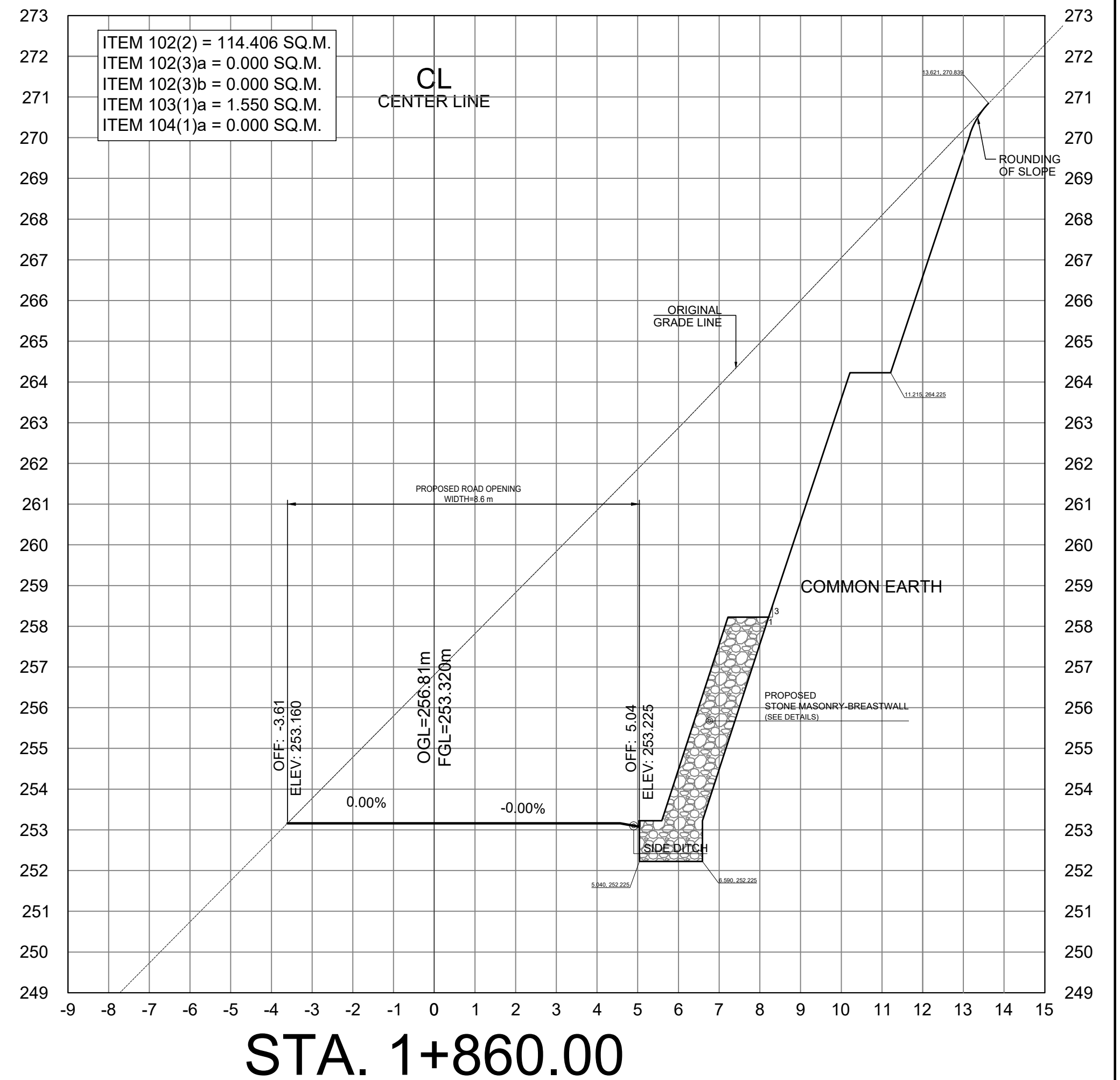


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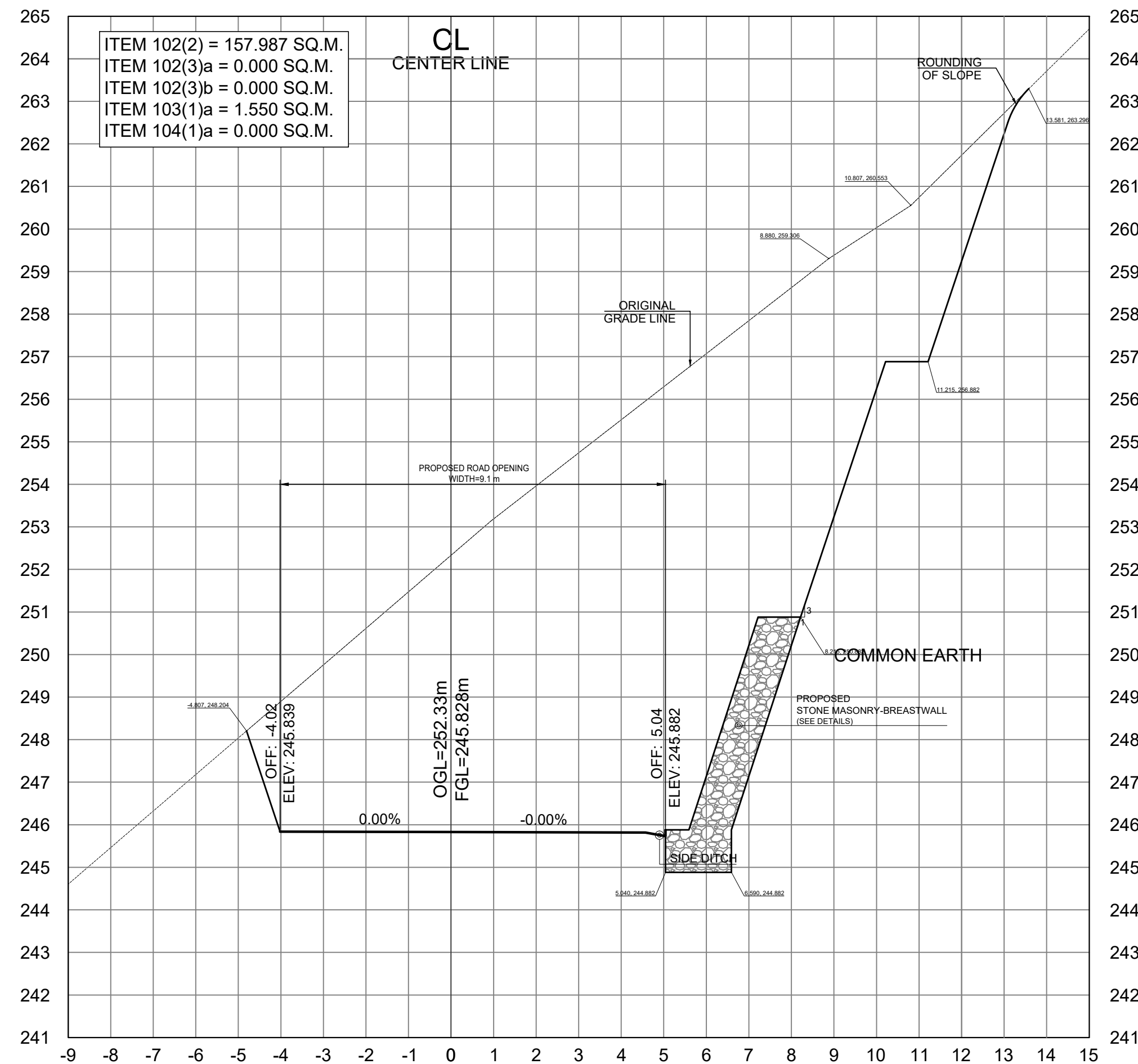
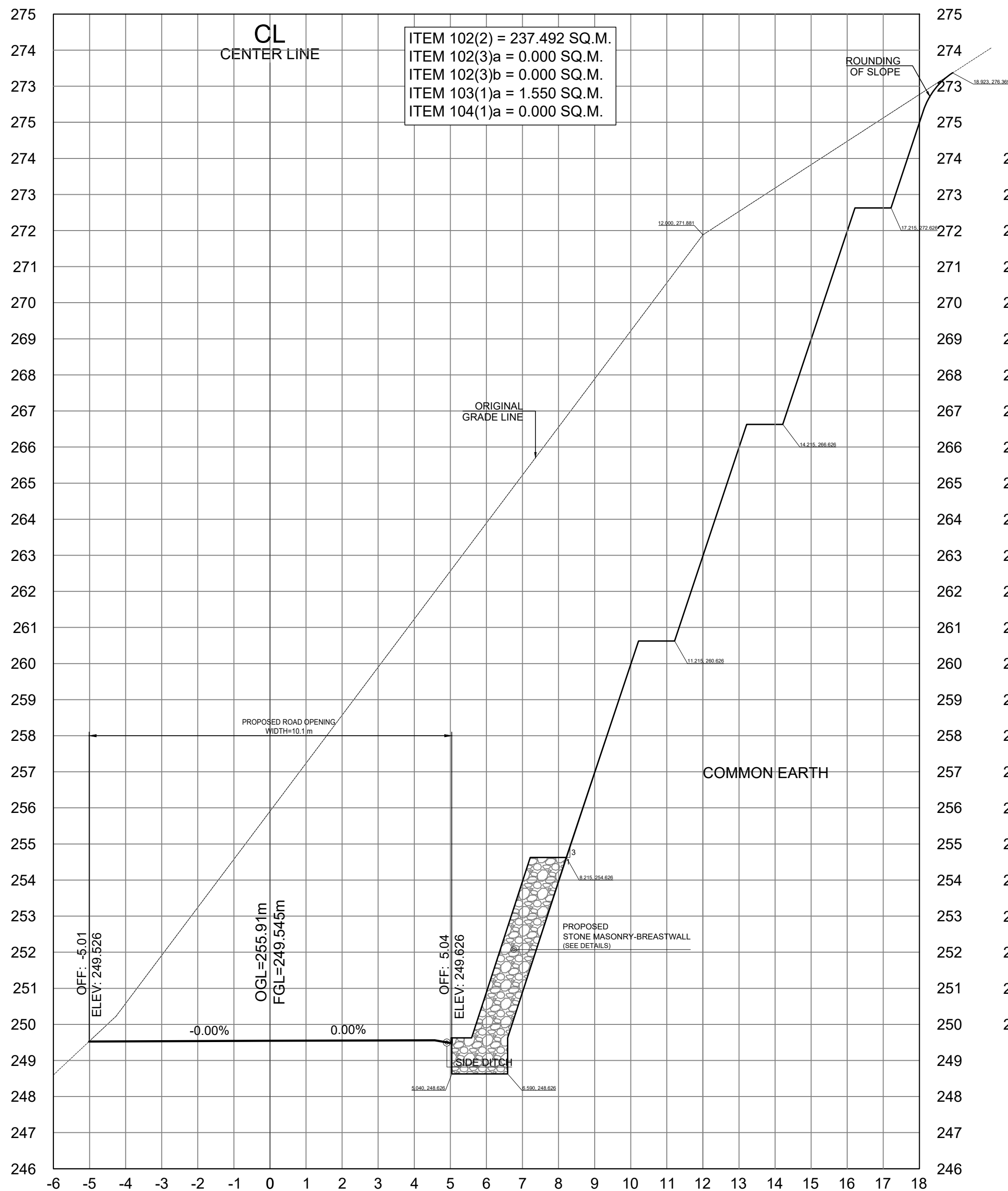


STA. 1+780.00

STA. 1+780.00											SCALE CROSS SECTIONS1:100 MTS.	
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.			
	CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL,TUBA, BENGUET	- CROSS SECTION	DIANE B. ABAYAO ENGINEER II	EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	51 106			
	TUBA, BENGUET	PREPARED:	CYRUS P. MENDOZA ENGINEERING ASSISTANT							DEXTER G. BIALNO ENGINEER II		



 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	- CROSS SECTION	DIANE B. ABAYAO CYRUS P. MENDOZA ENGINEER II ENGINEERING ASSISTANT PREPARED: _____ DEXTER G. BIALNO ENGINEER II	EDISON C. AMBALES ENGINEER II DATE: _____	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE: _____	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE: _____	ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE: _____	CROSS SECTION 01 64	52 106

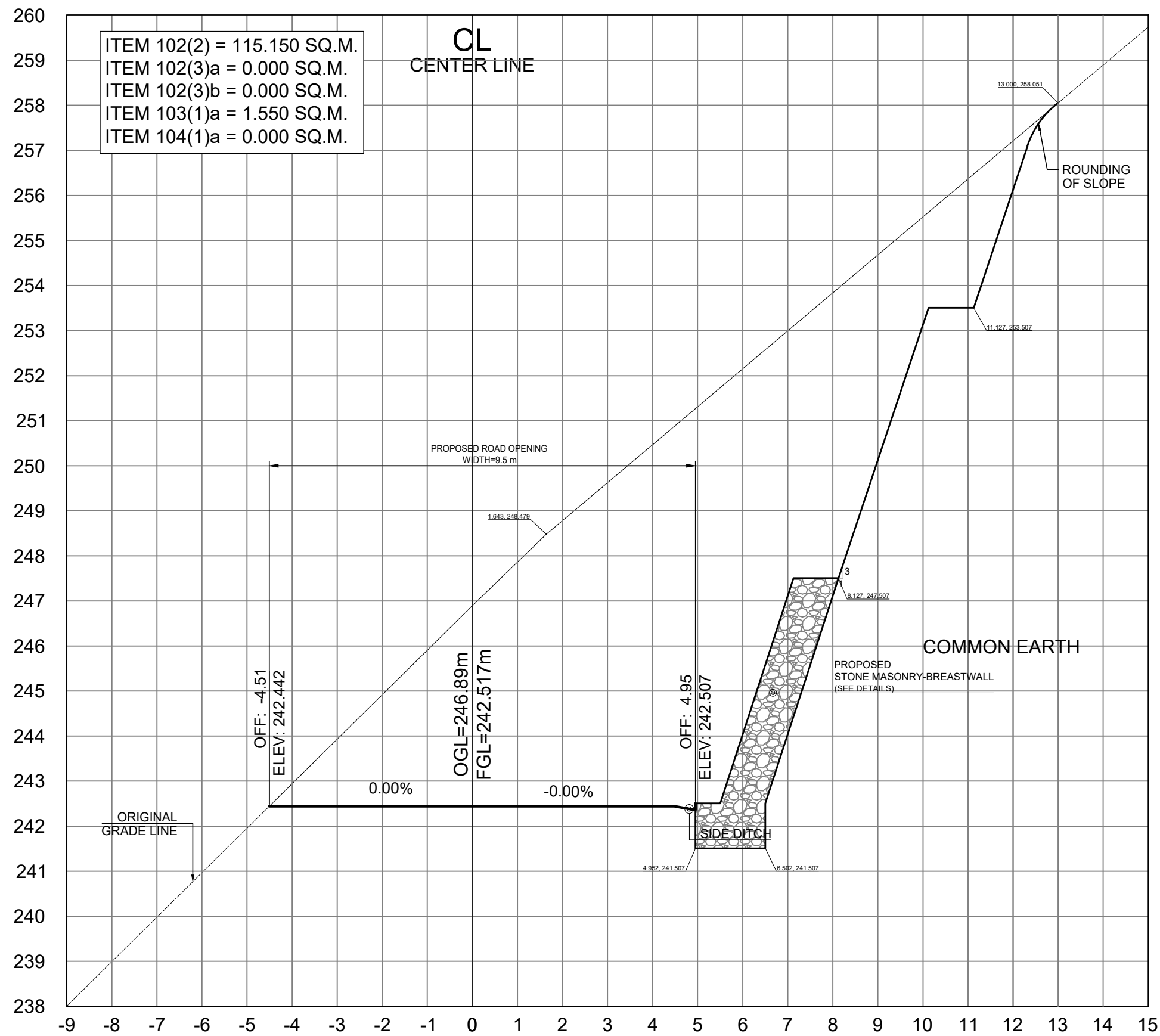


STA. 1+900.00

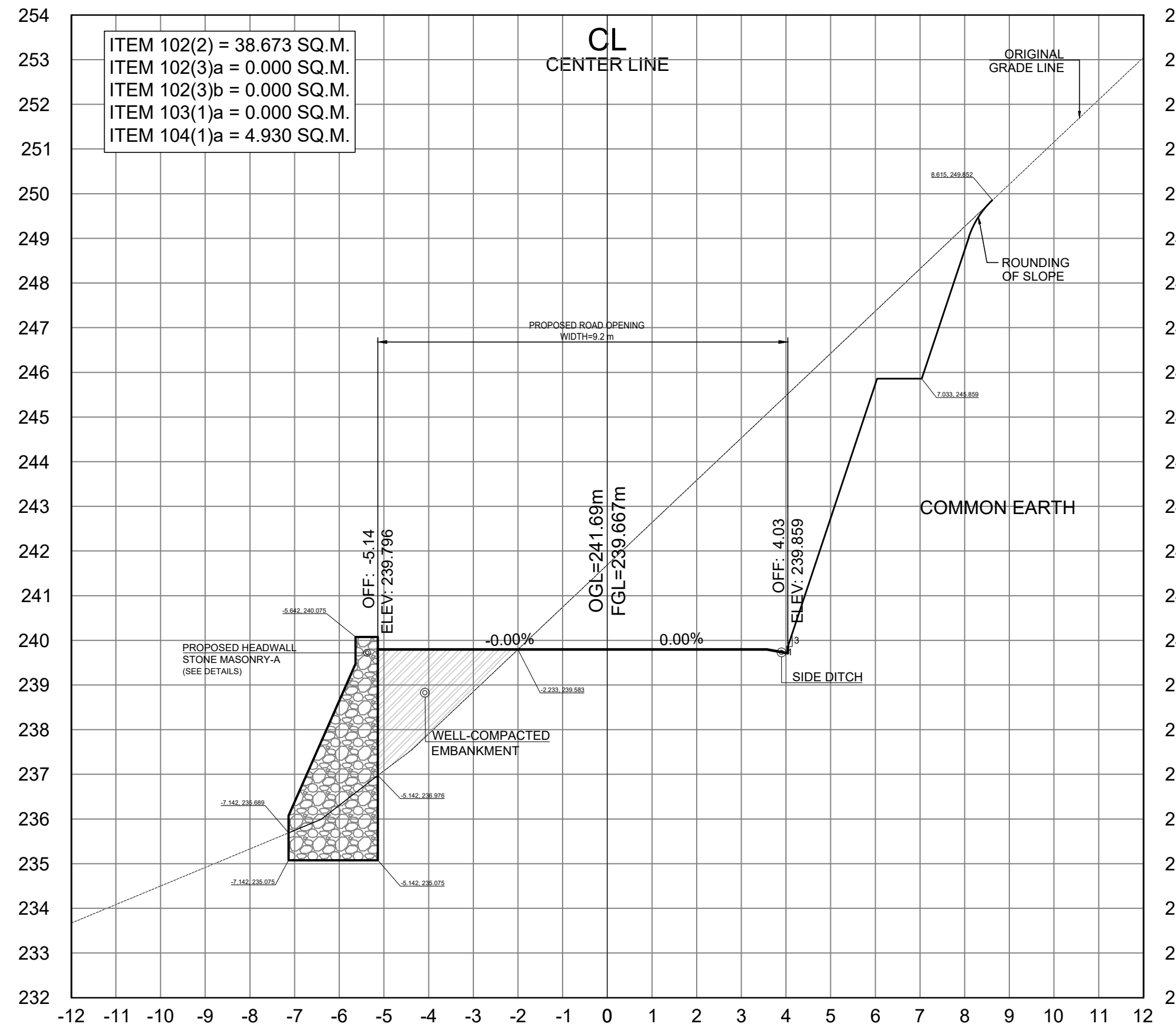
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SCALE	
CROSS SECTIONS	1:100 MTS.

	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET	- CROSS SECTION	DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT	EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	53 106
	TUBA, BENGUET		DEXTER G. BIALNO ENGINEER II						

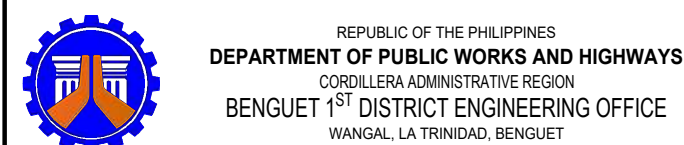


STA. 1+920.00

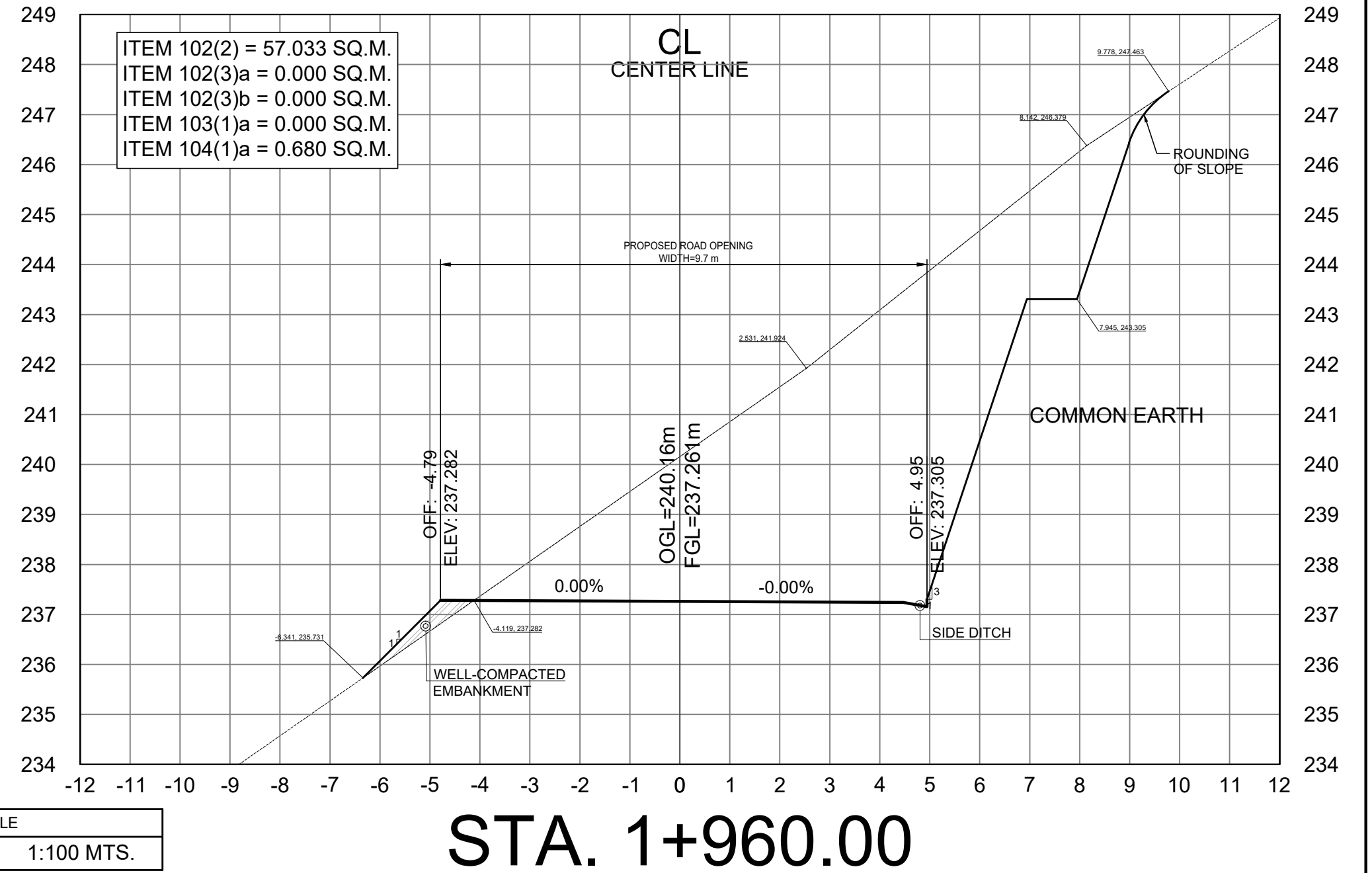
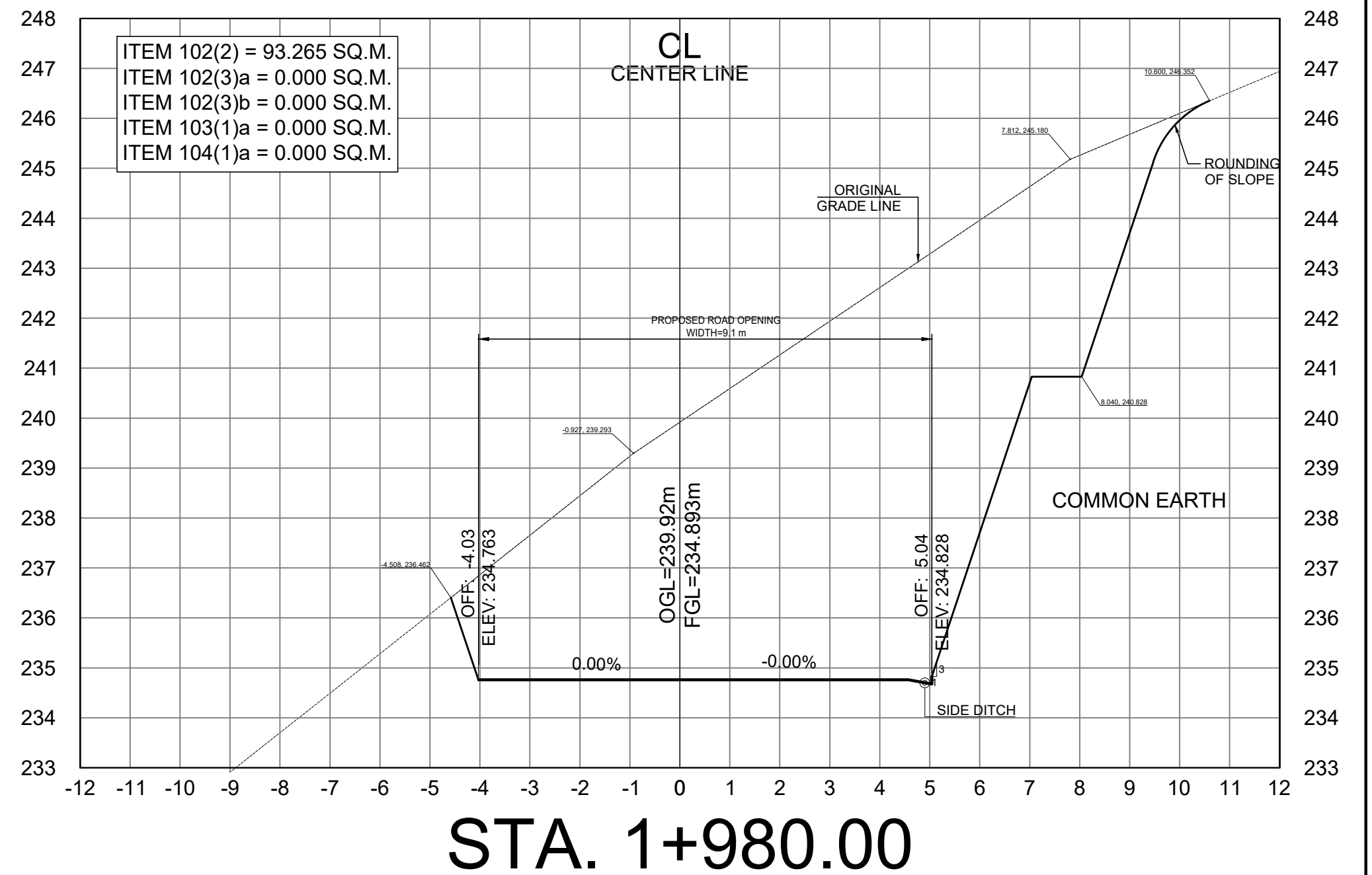
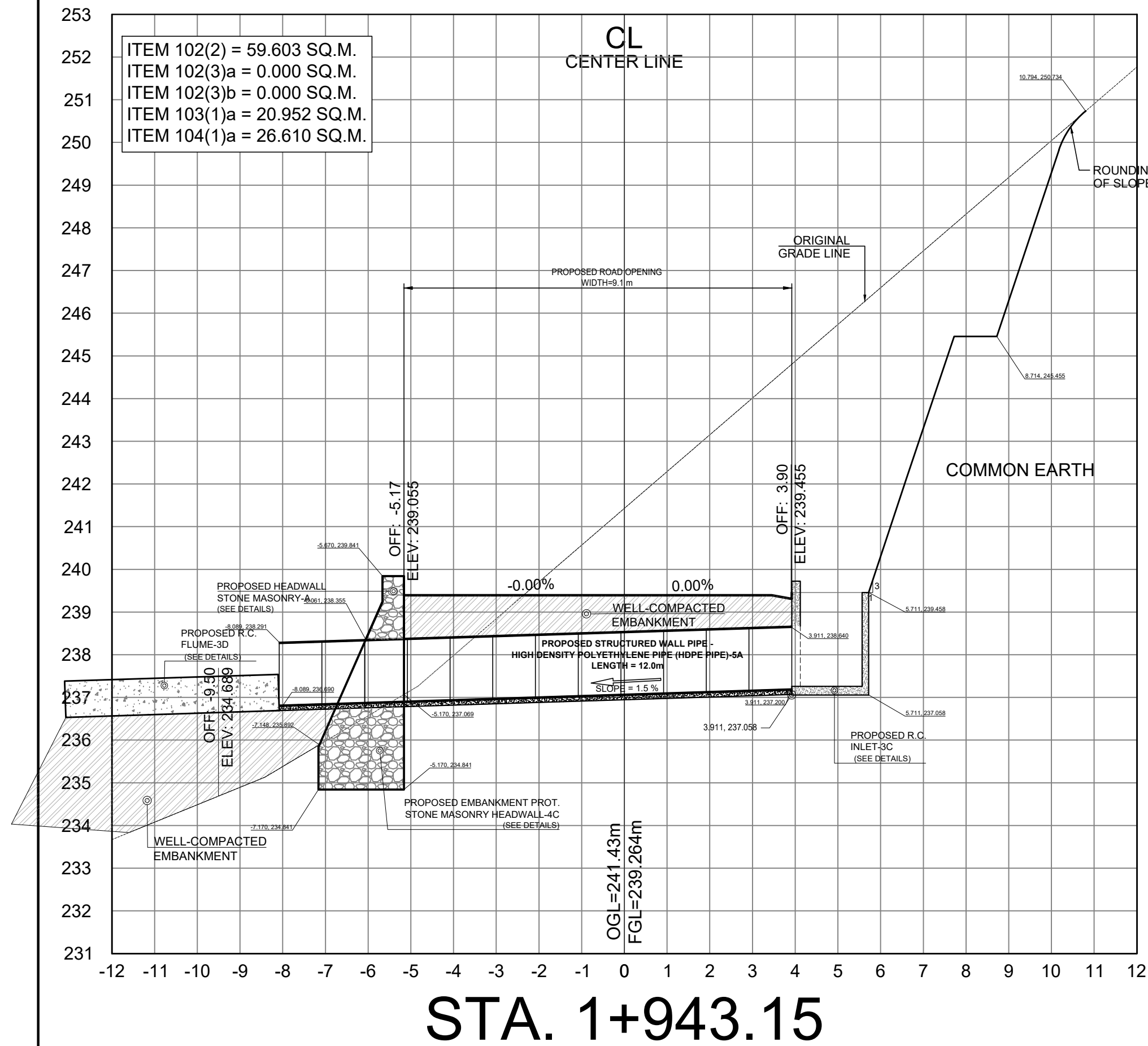


STA. 1+940.00

SCALE	
CROSS SECTIONS	1:100 MTS.



PROJECT NAME AND LOCATION:	SHEET CONTENTS:	DRAFTED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET	- CROSS SECTION	DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT	EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	54 106
TUBA, BENGUET		DEXTER G. BIALNO ENGINEER II	DATE:	DATE:	DATE:	DATE:		



SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

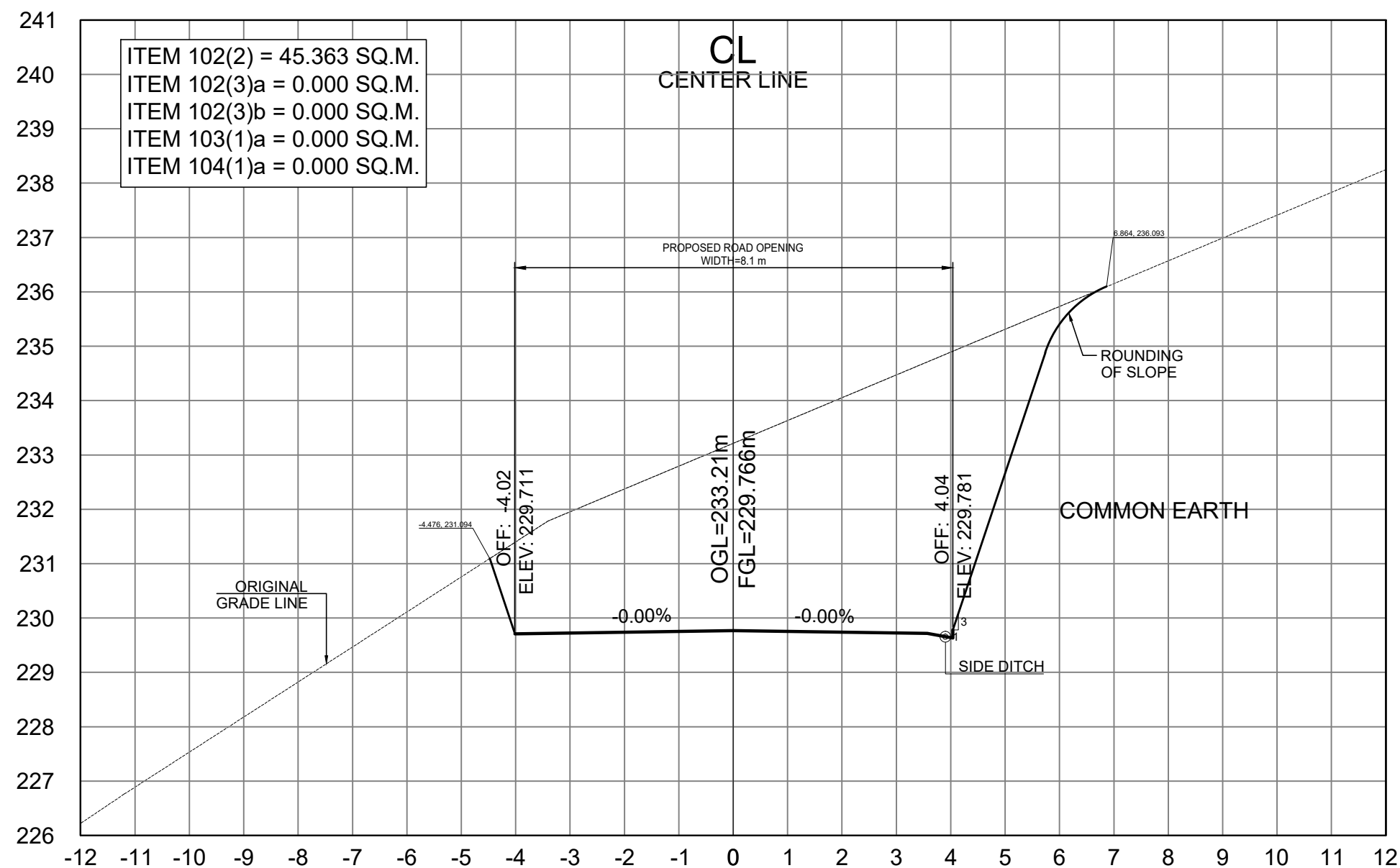
RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

DATE:

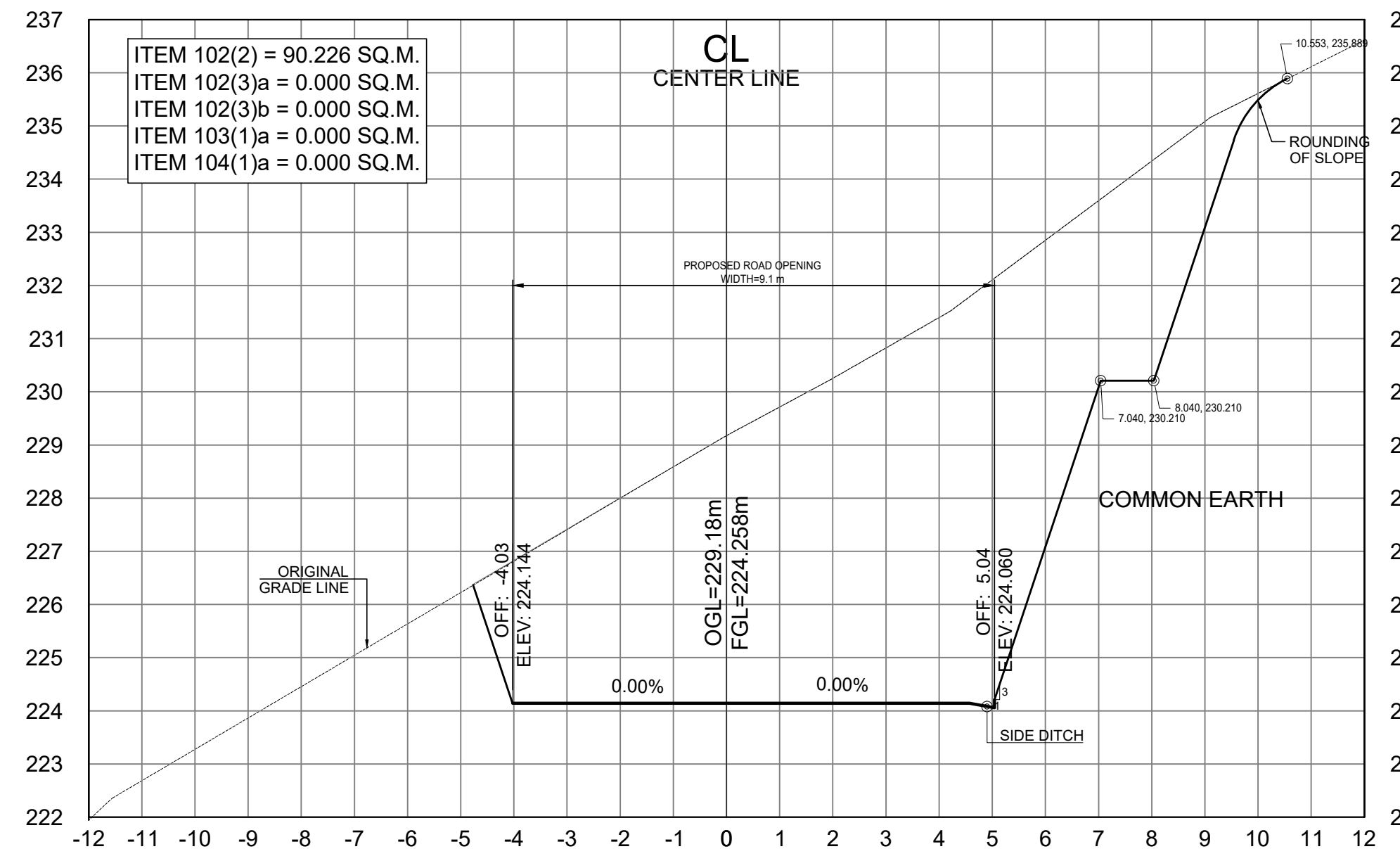
APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

DATE:

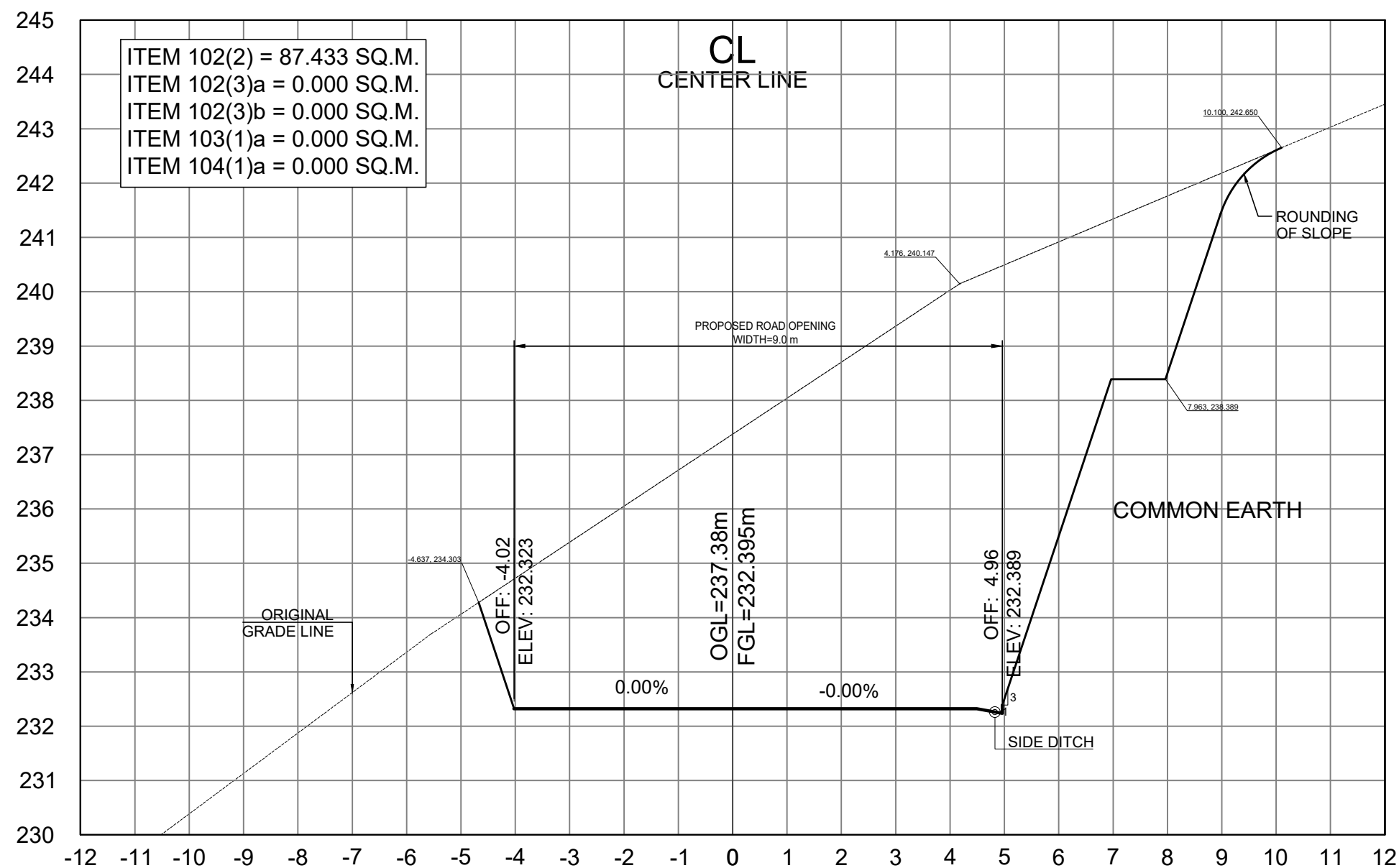
SET NO. CROSS SECTION 01 64 SHEET NO. 55 106



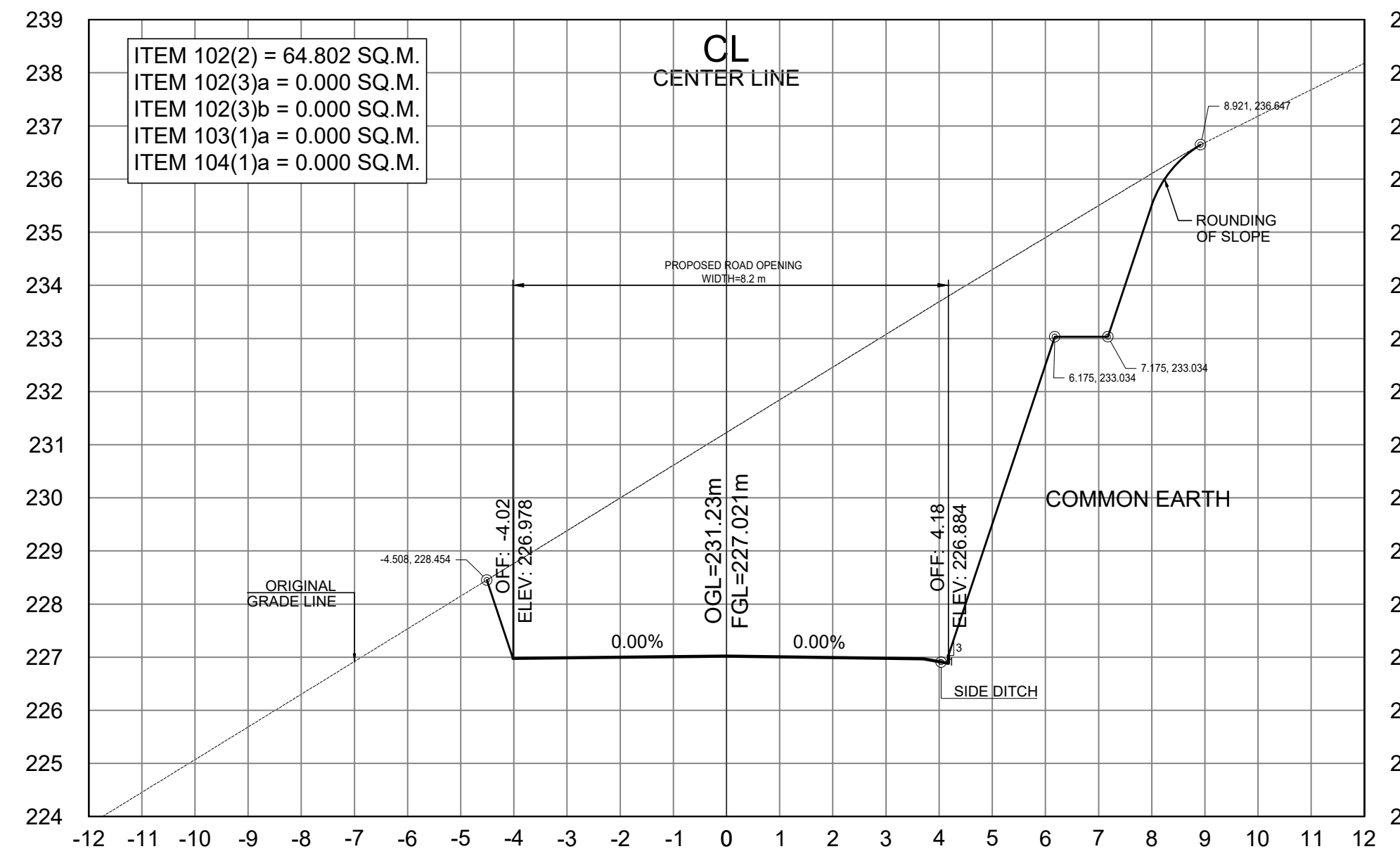
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STA. 2+060.00



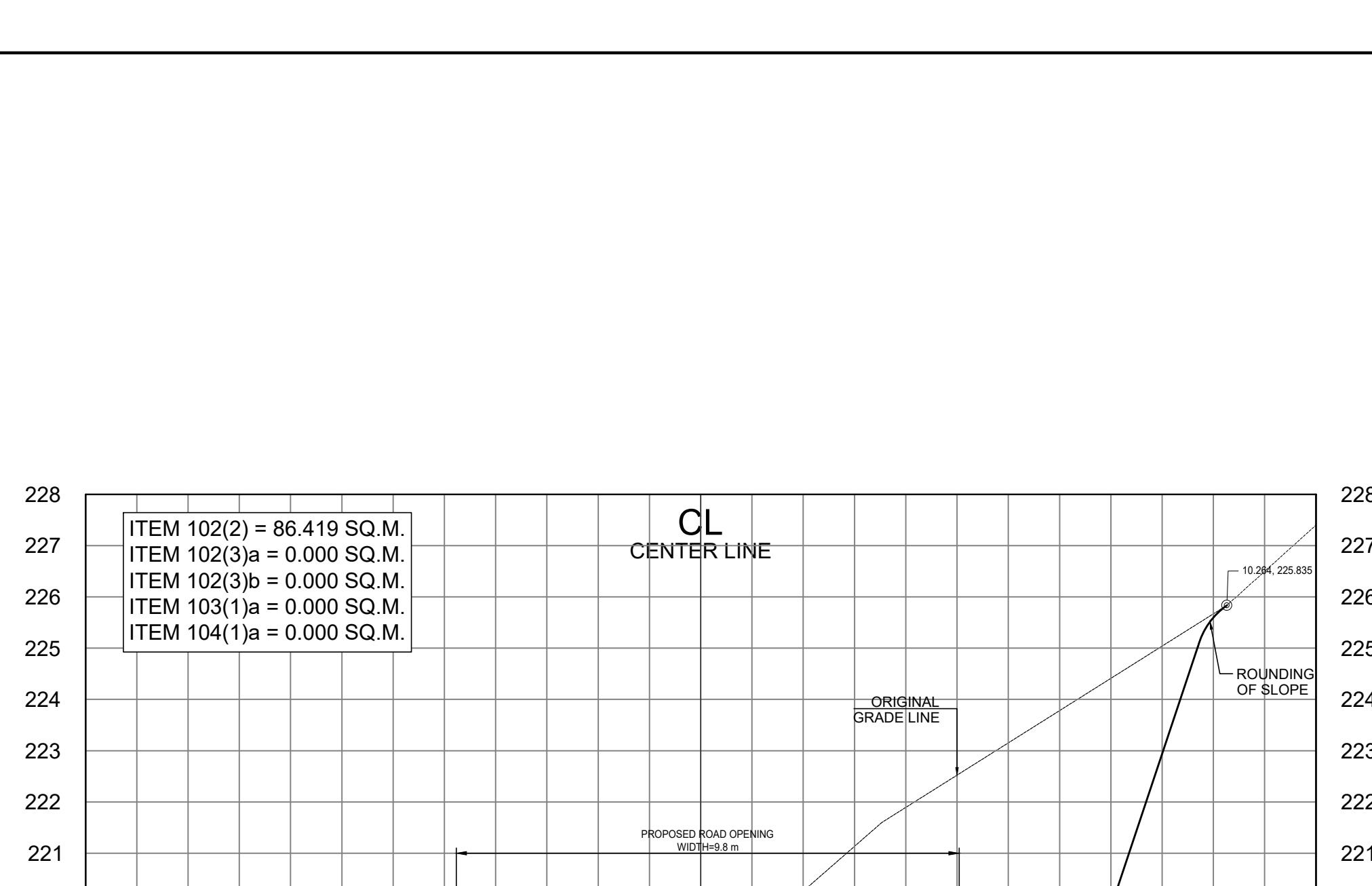
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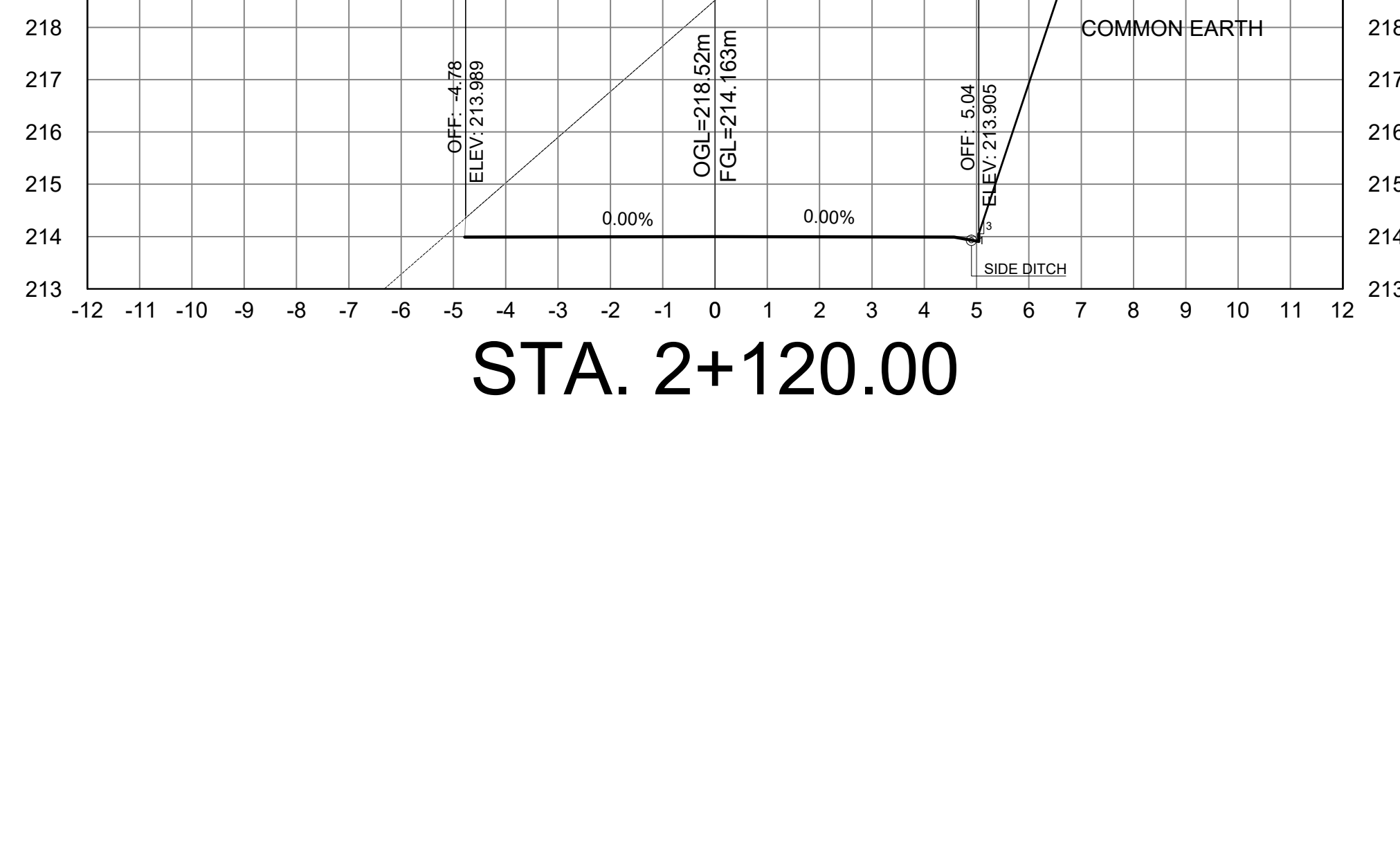
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SCALE	
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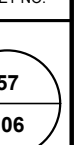
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL,TUBA, BENGUET TUBA, BENGUET	SHEET CONTENTS: - CROSS SECTION	DRAFTED: DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT PREPARED: DEXTER G. BIALNO ENGINEER II	REVIEWED: EDISON C. AMBALES ENGINEER II DATE:	SUBMITTED: ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE:	SET NO. CROSS SECTION 01 64	SHEET NO. 56 106
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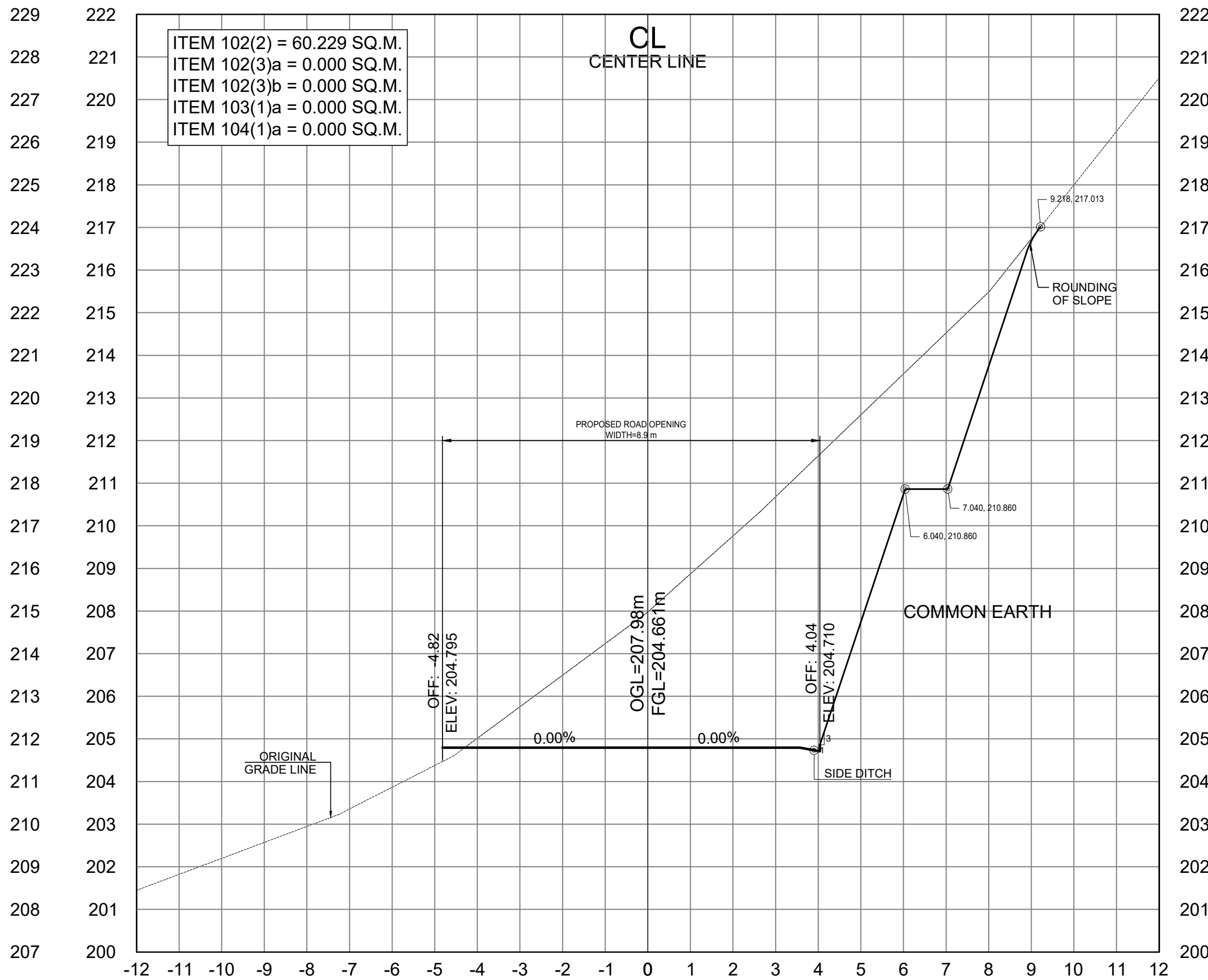
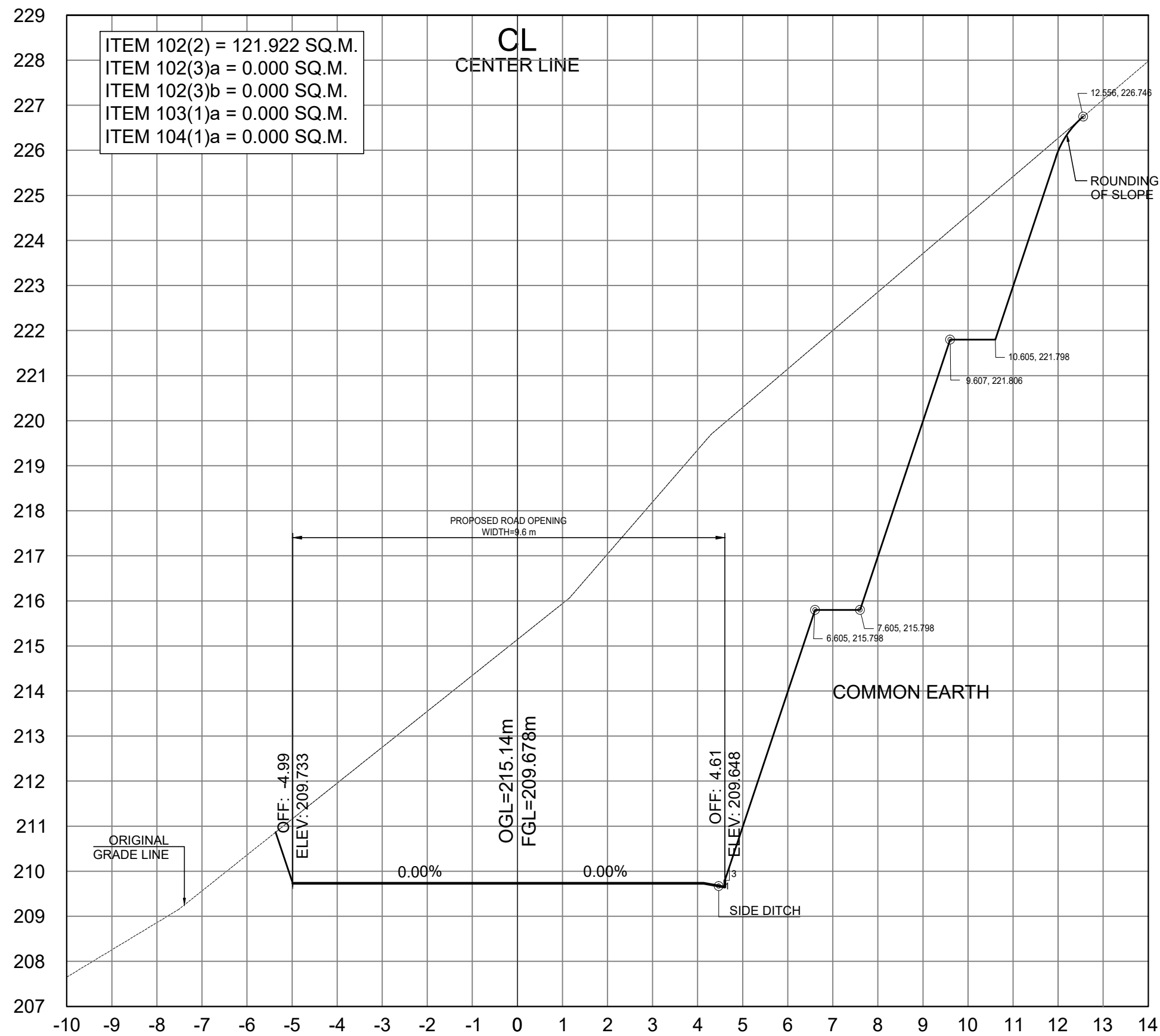


STA. 2+120.00



SCALE	
CROSS SECTIONS	1:100 MTS.





SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**
TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT
PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II
DATE:

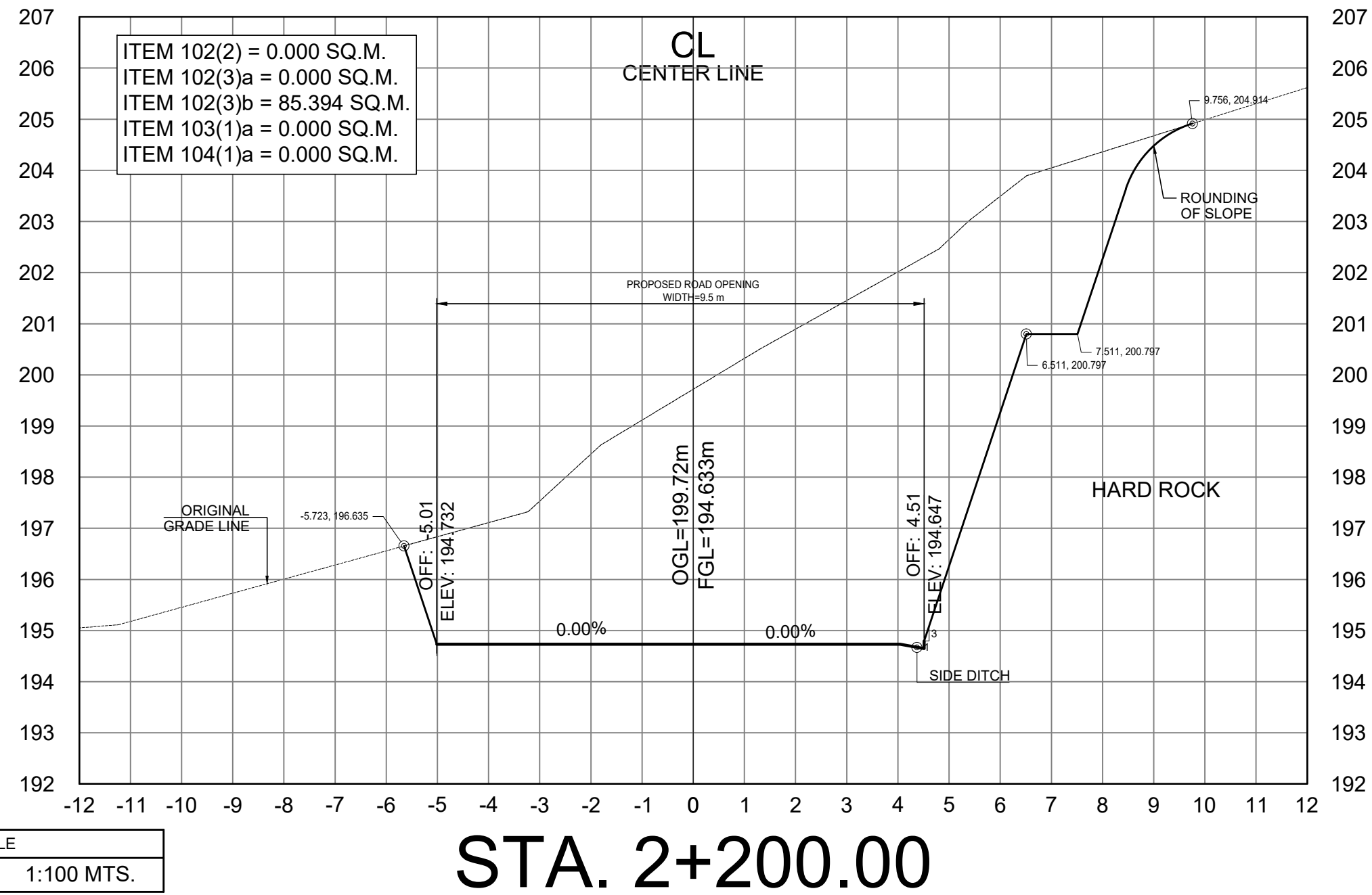
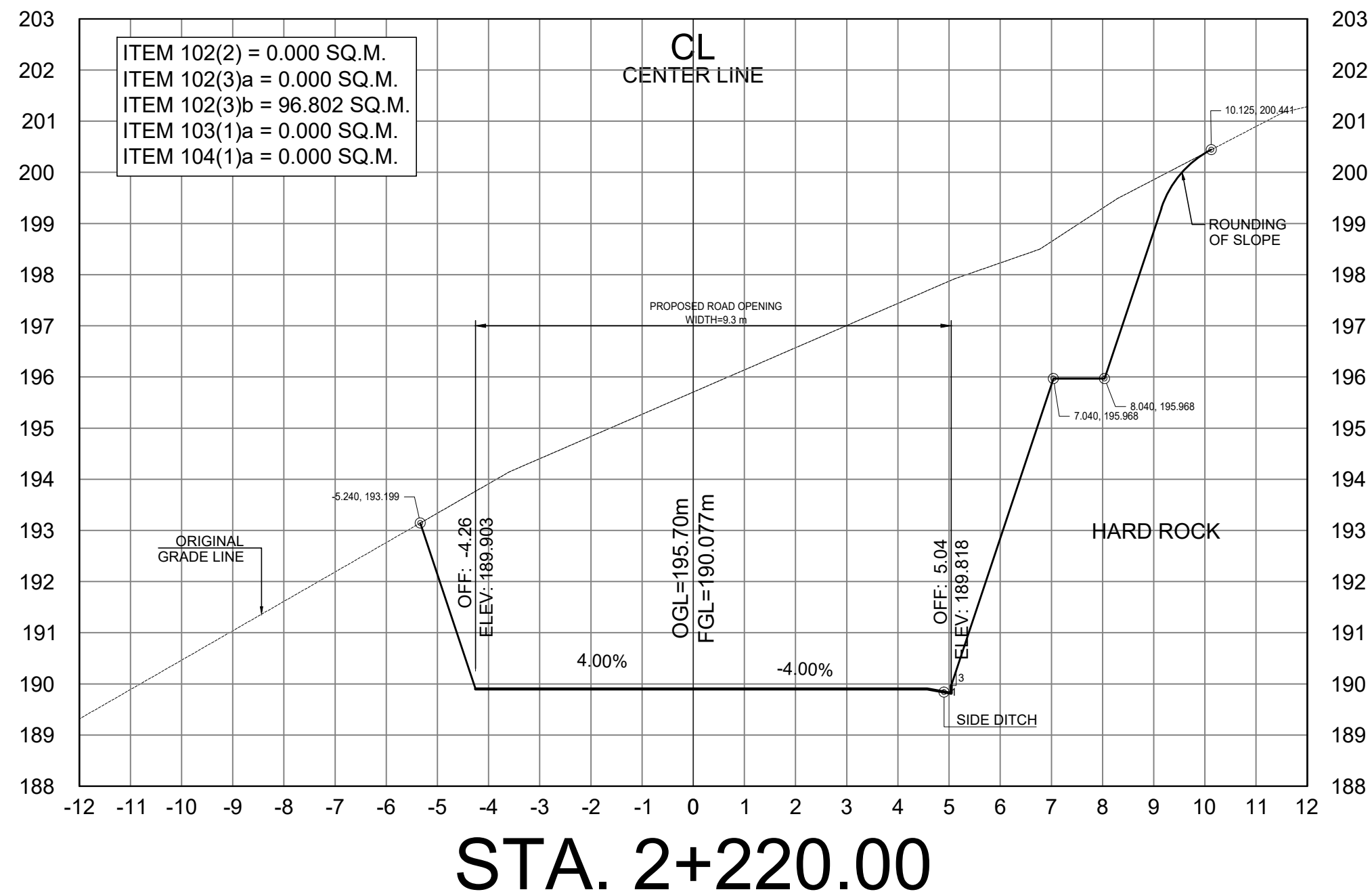
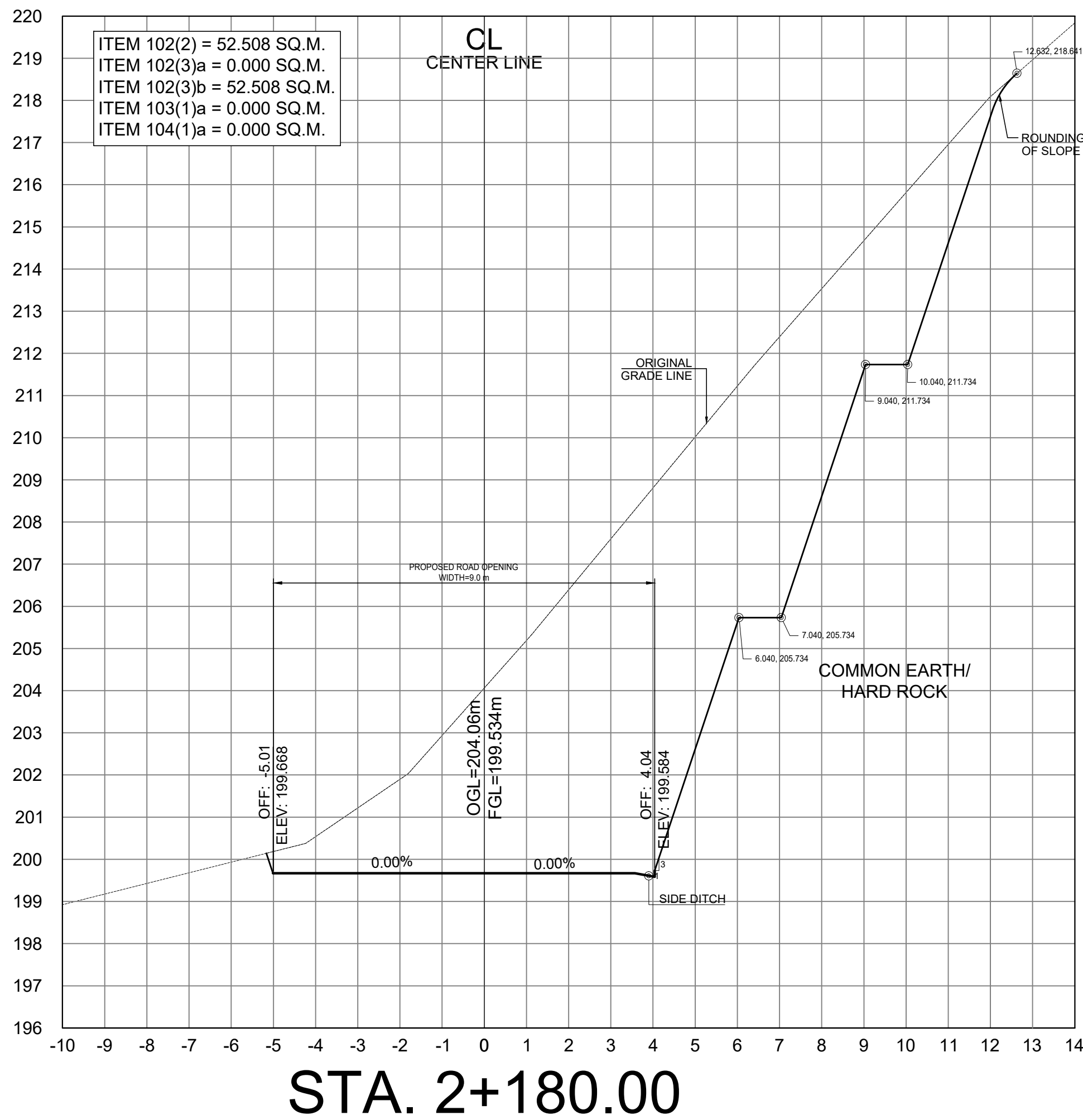
SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER
DATE:

SET NO.
**CROSS
SECTION
01 64**

SHEET NO.
**58
106**



SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT

PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II

DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER

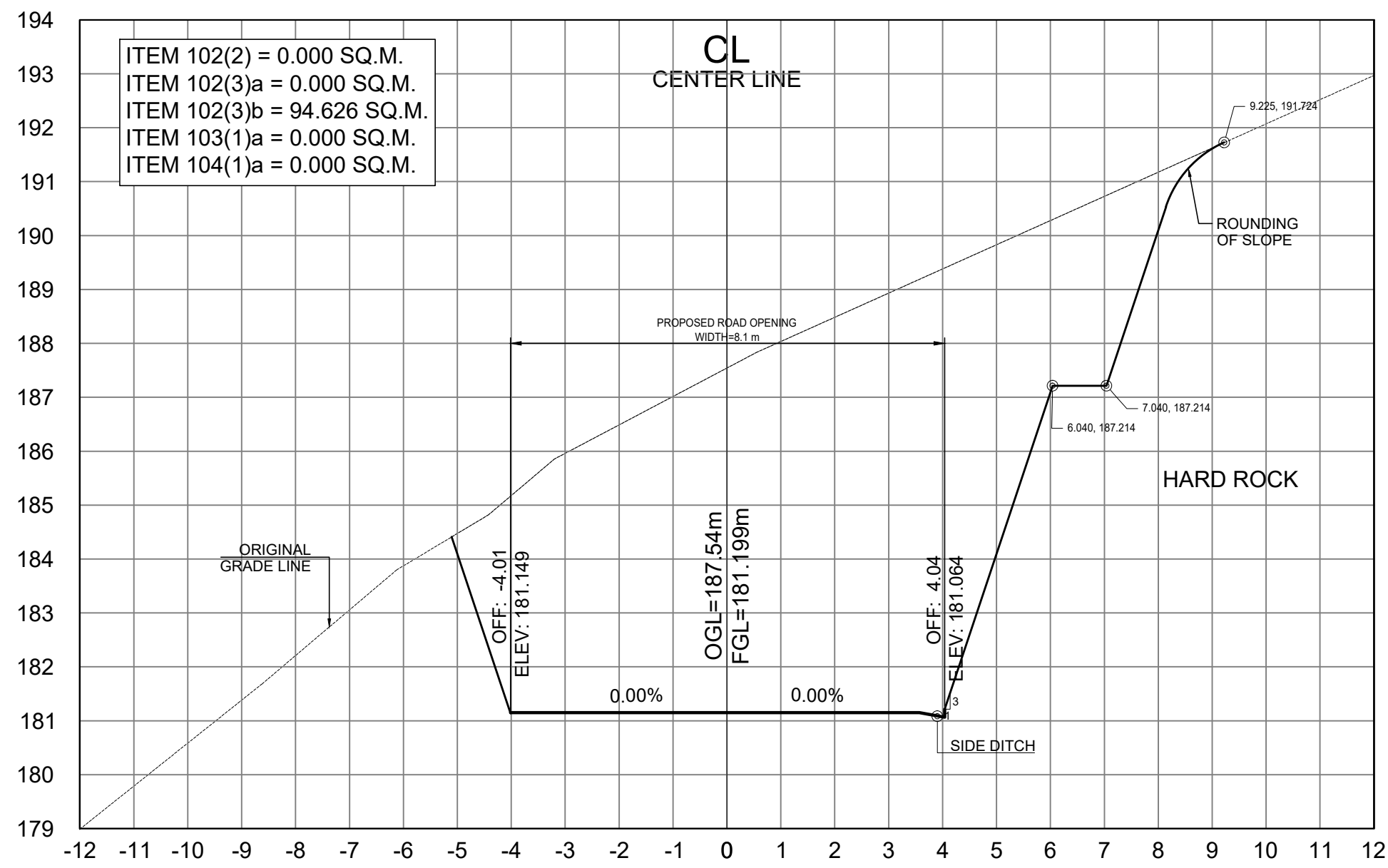
DATE:

APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER

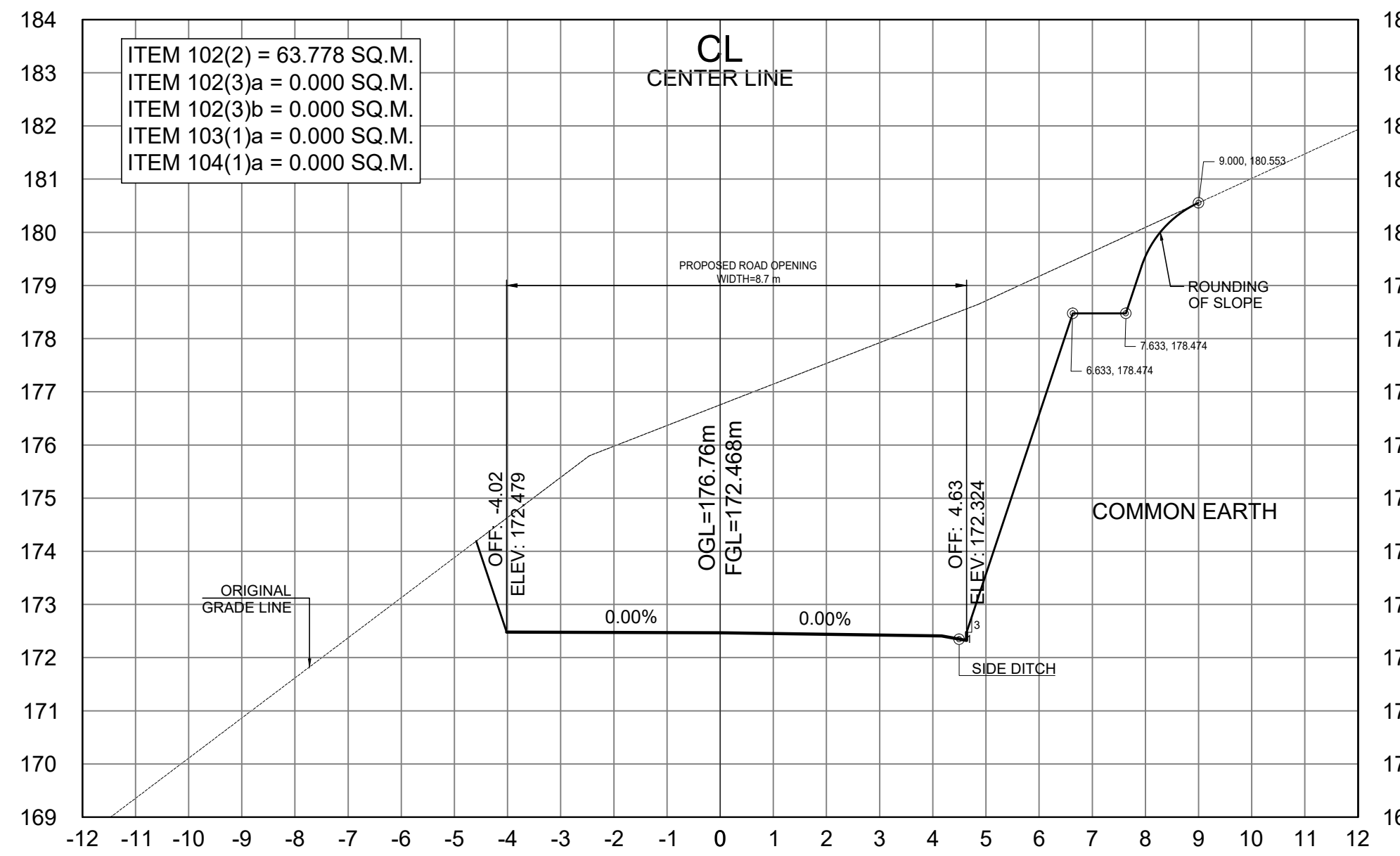
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**CROSS
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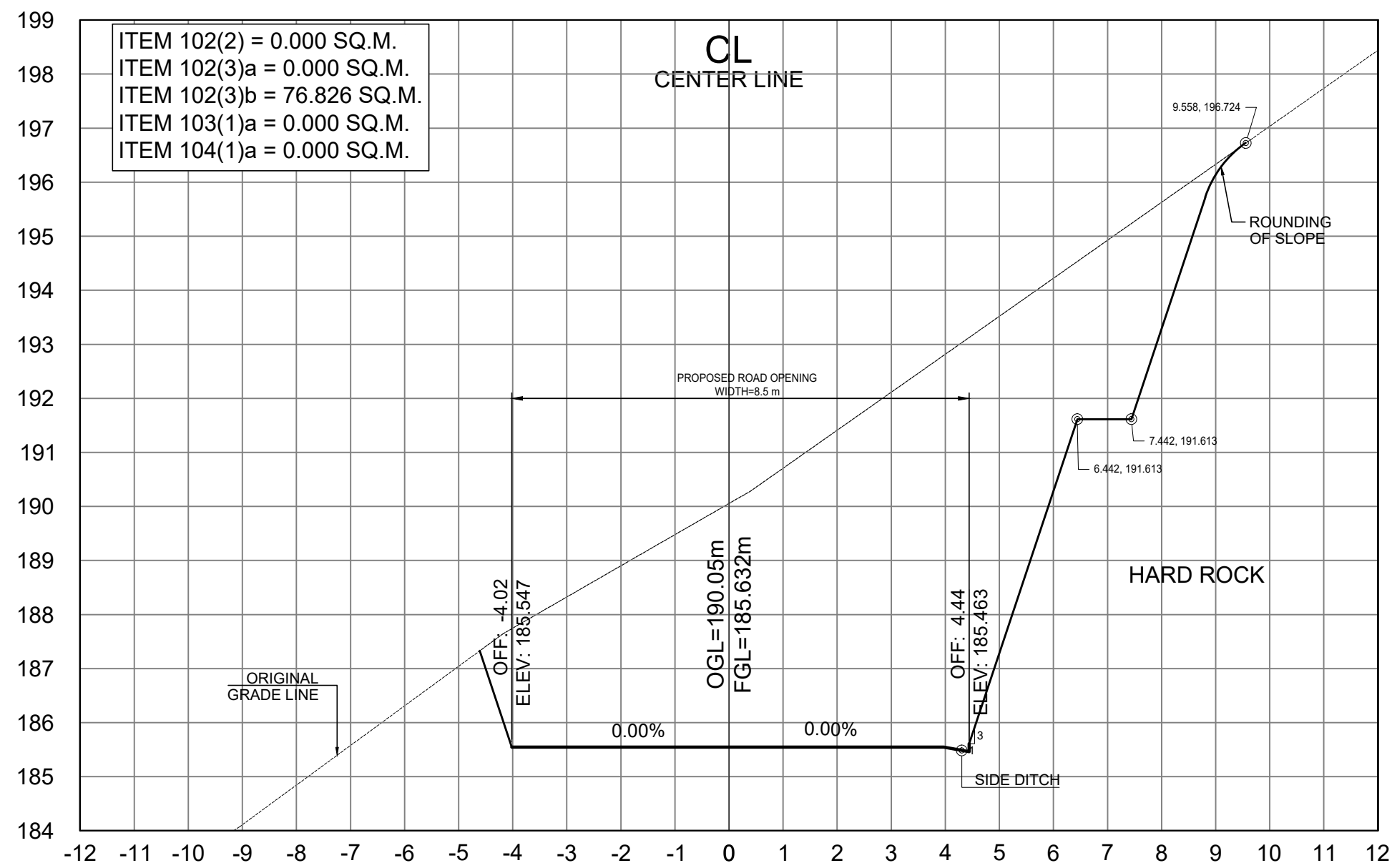
SHEET NO.
**59
106**



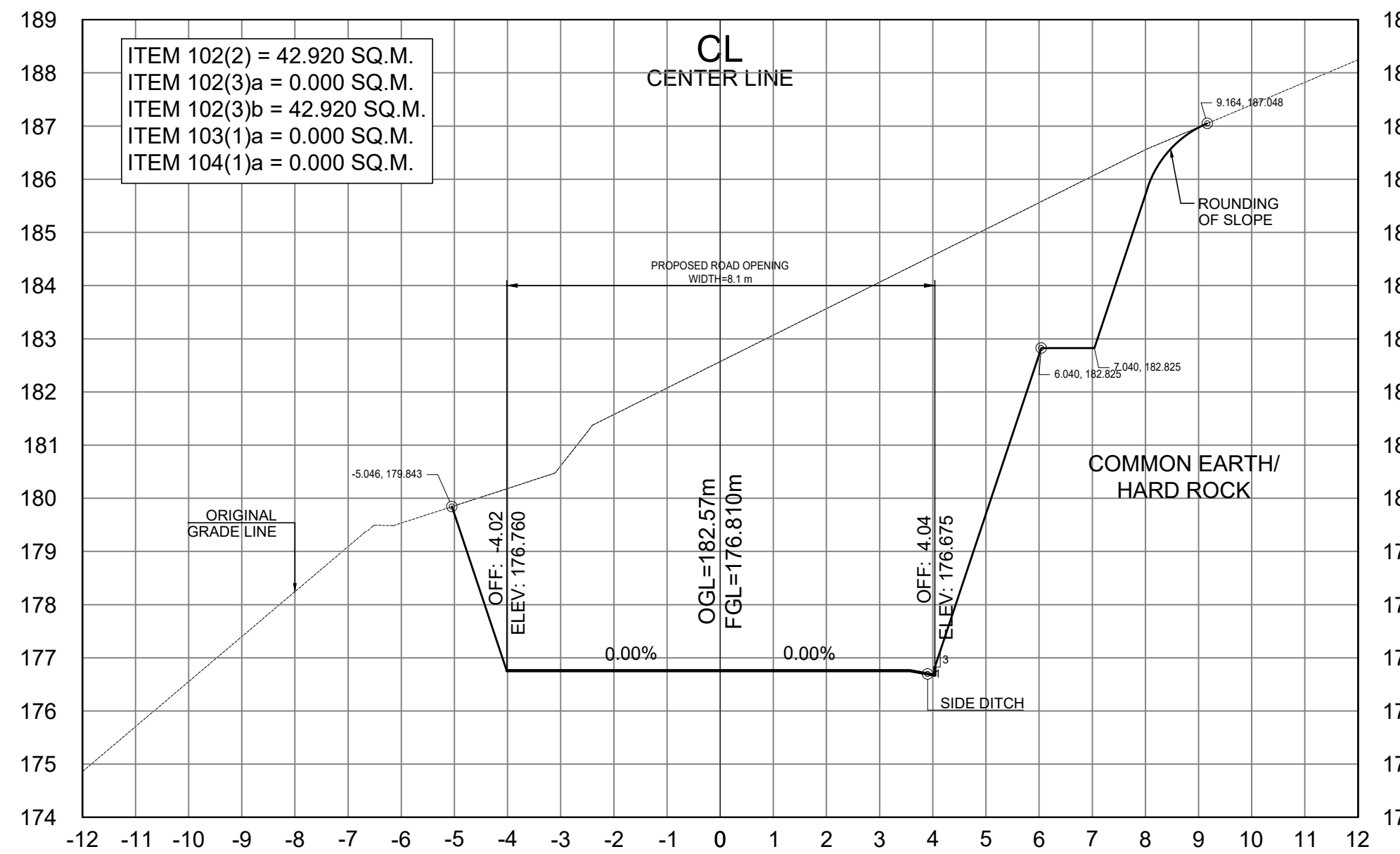
STA. 2+260.00



STA. 2+300.00



STA. 2+240.00



STA. 2+280.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

- CROSS SECTION

DRAFTED:

DIANE B. ABAYAO CYRUS P. MENDOZA
ENGINEER II ENGINEERING ASSISTANT

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ENGINEER II

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

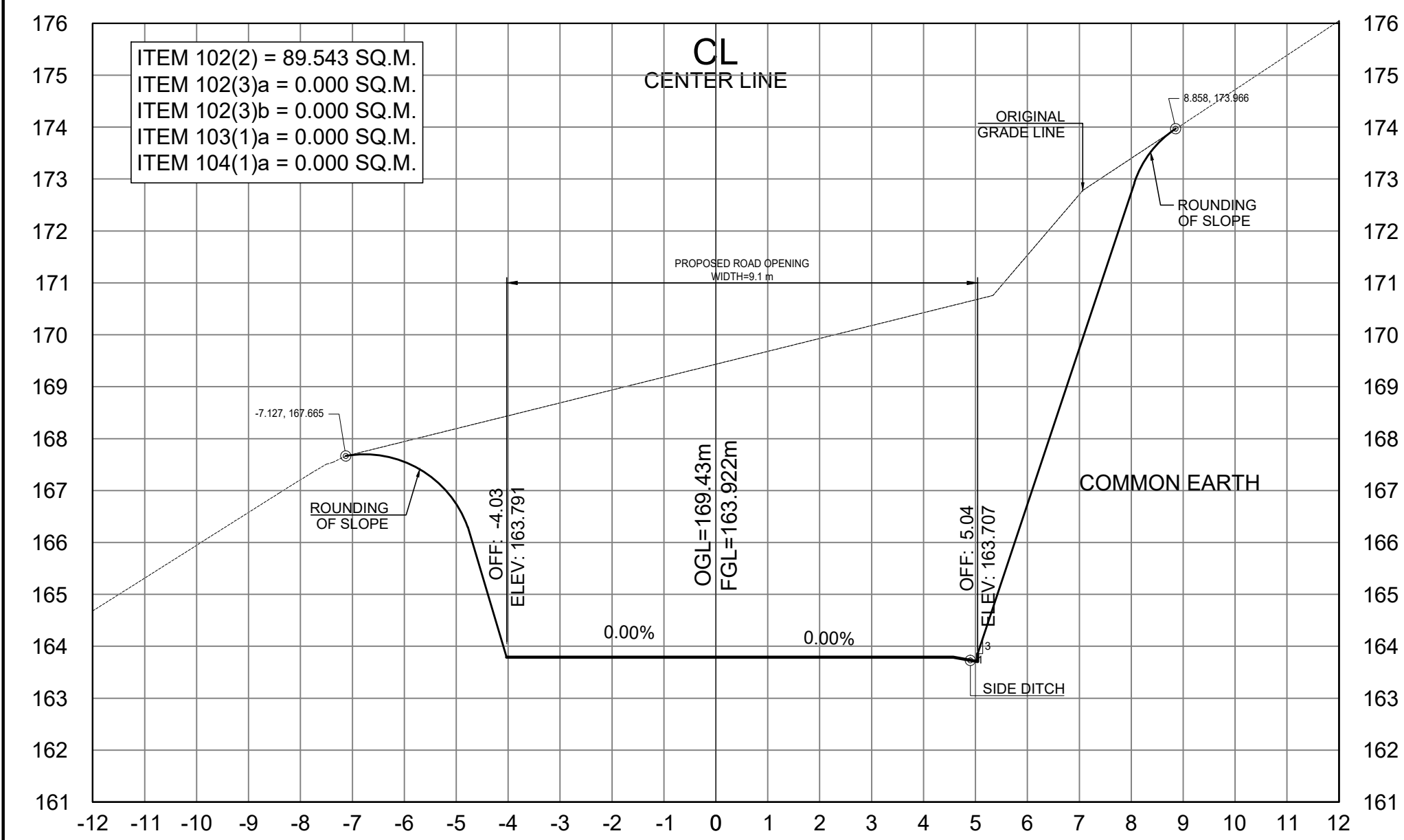
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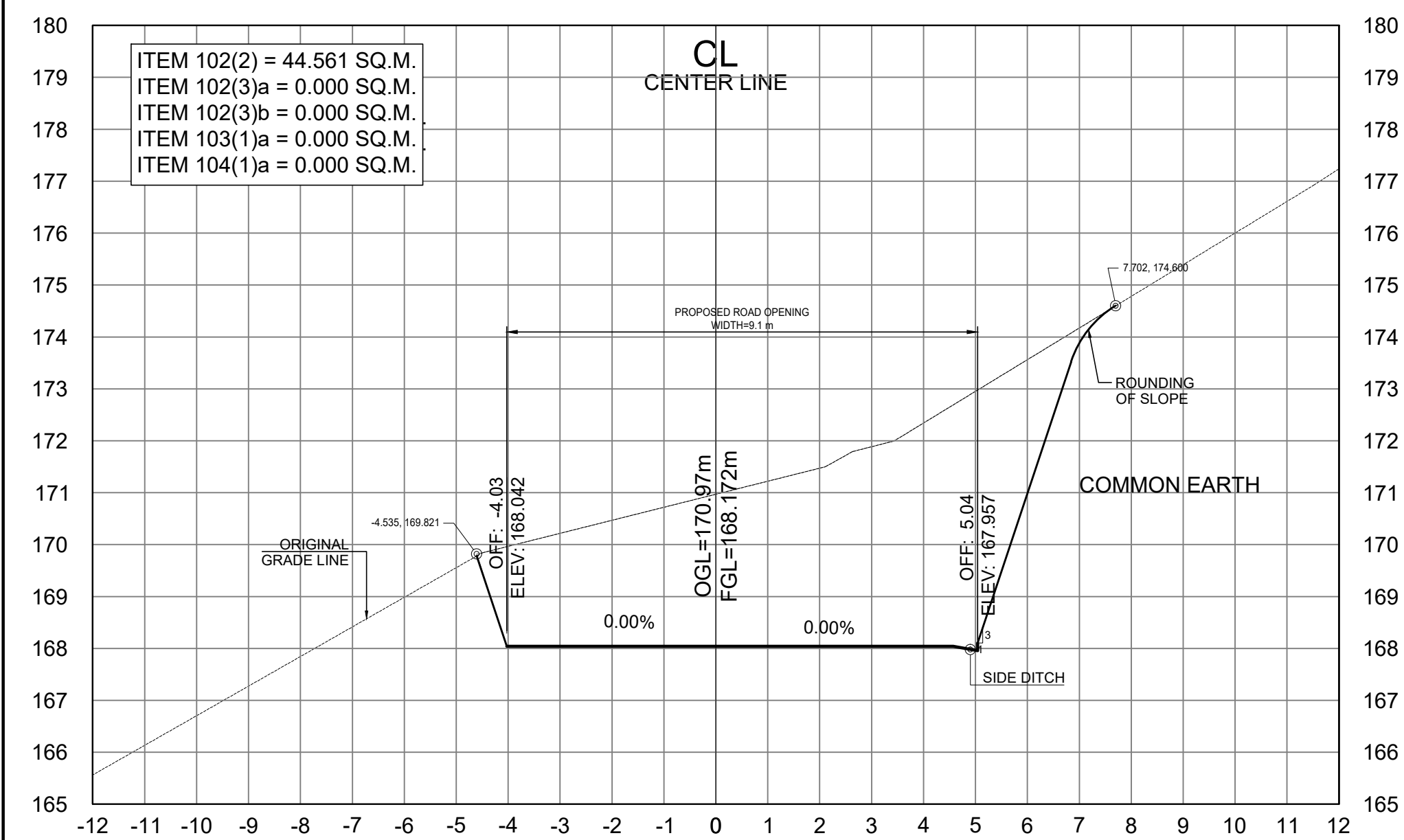
CROSS
SECTION
01 64

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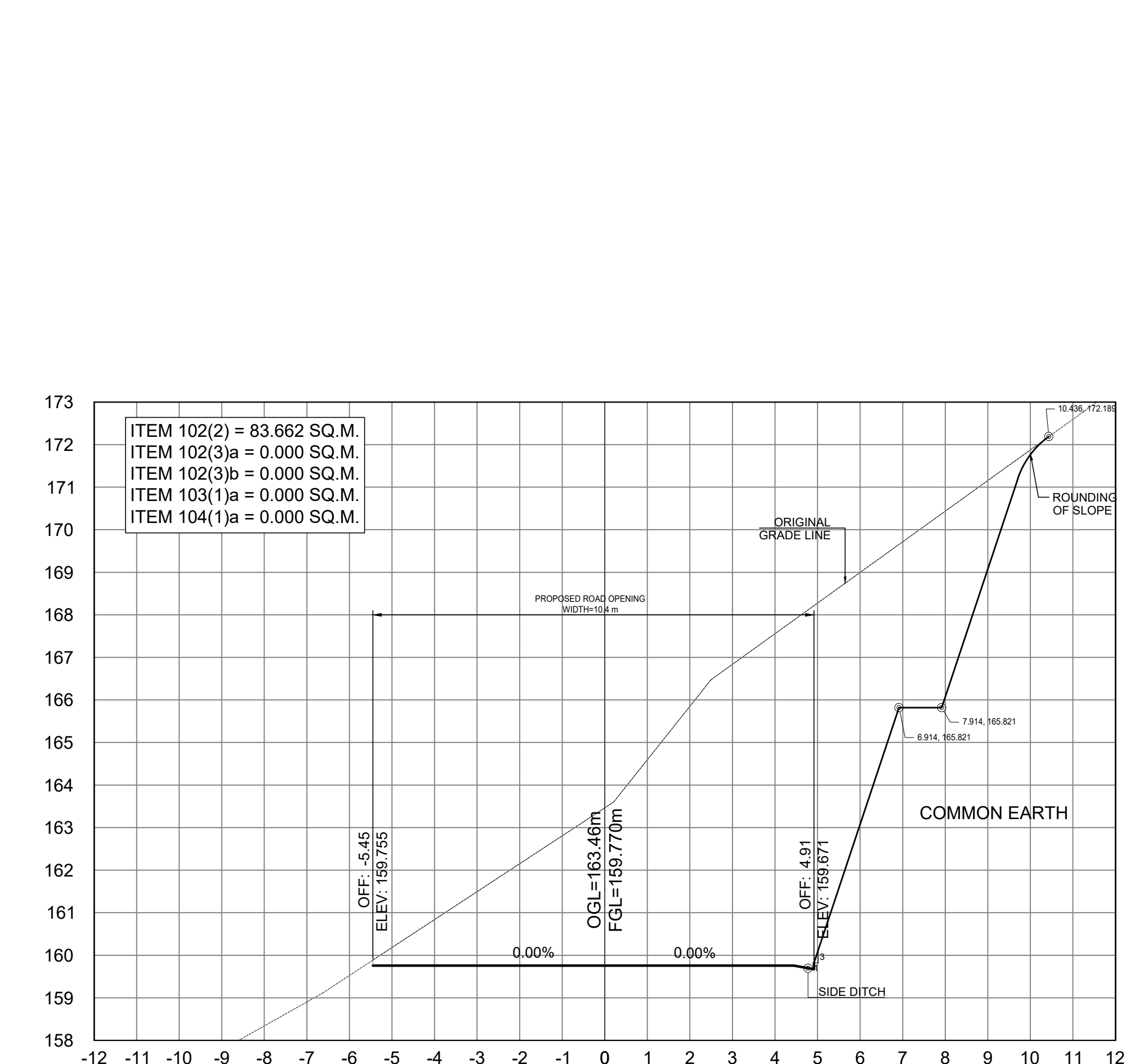
SHEET NO.



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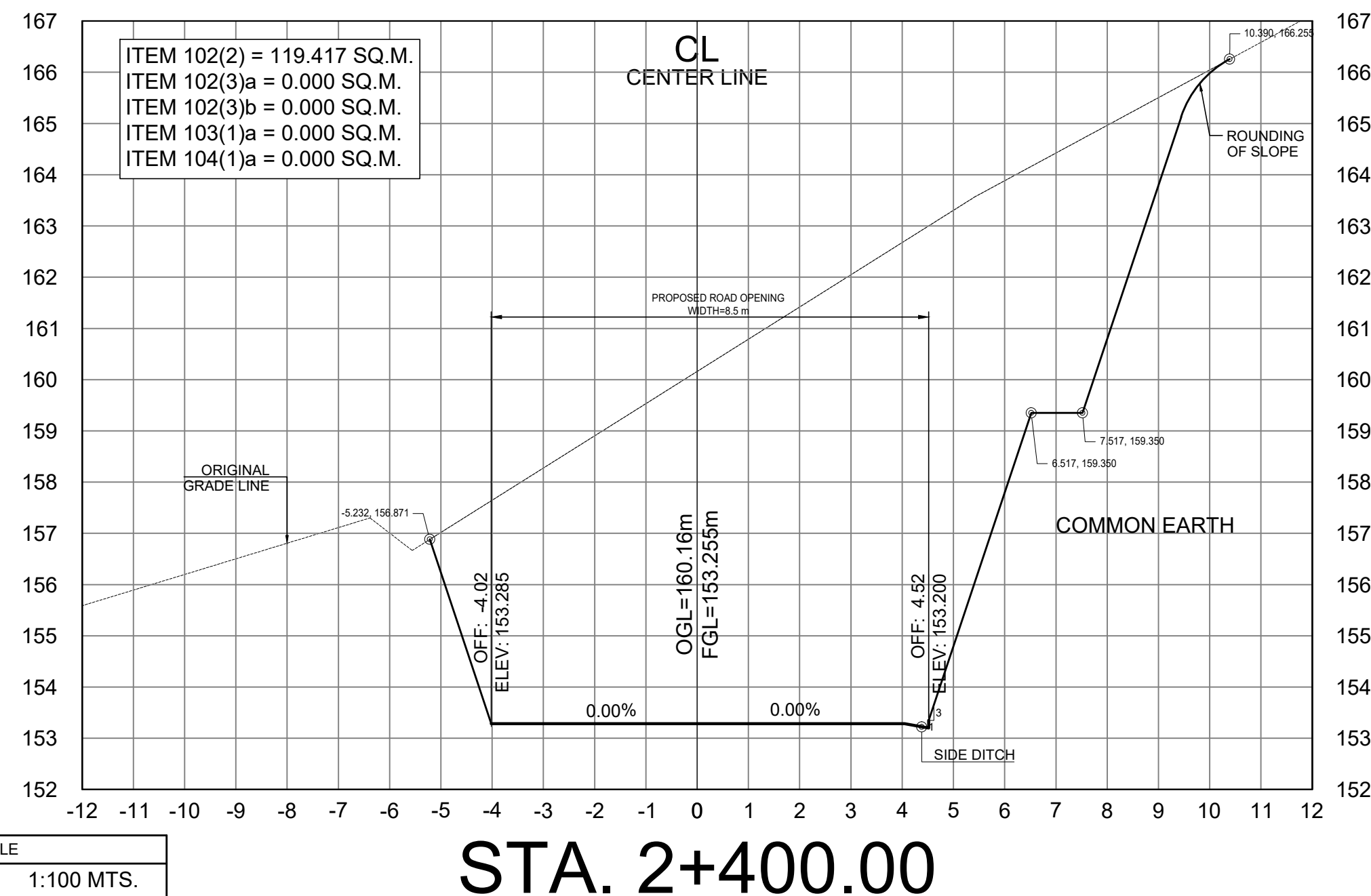
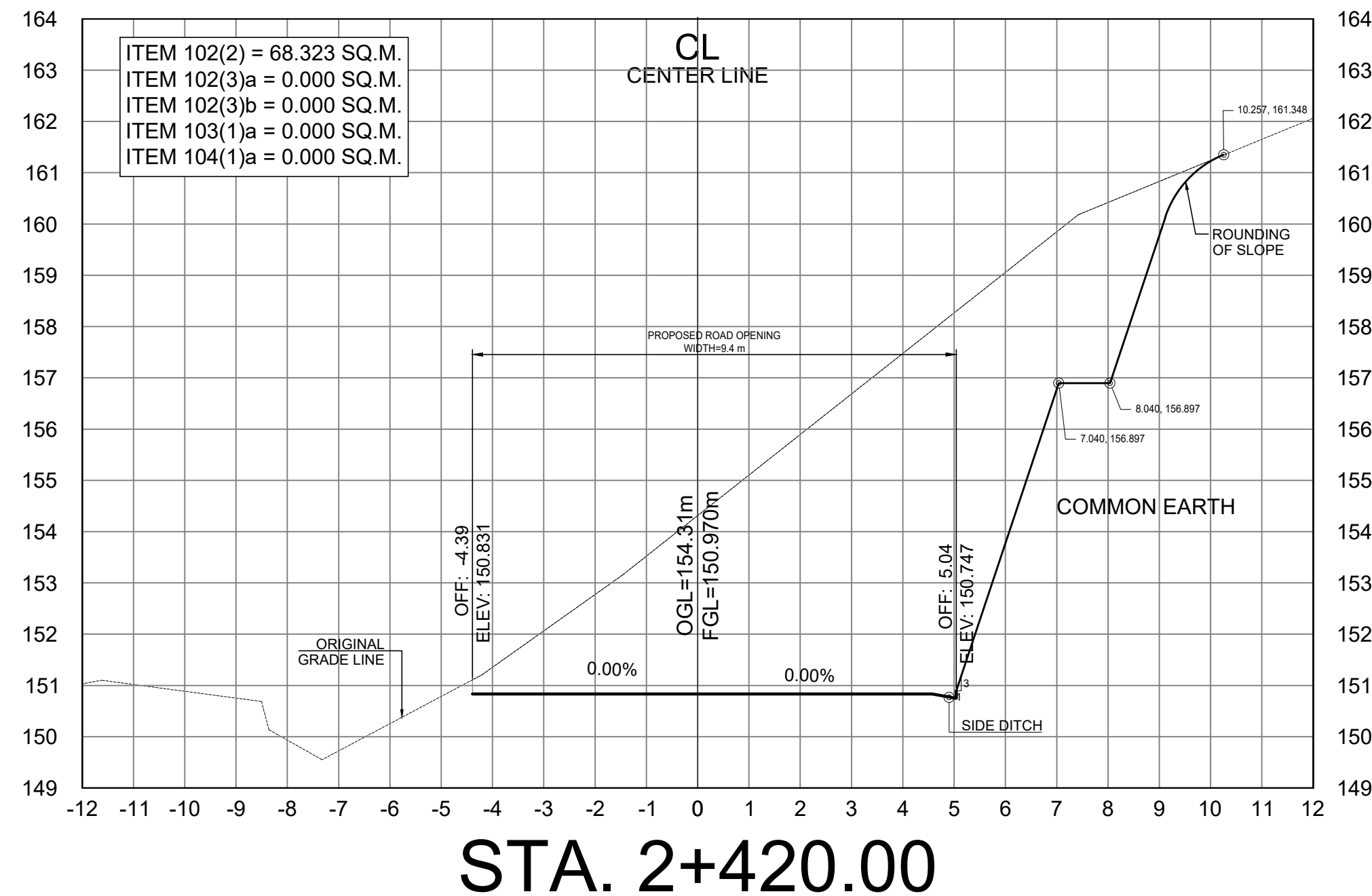
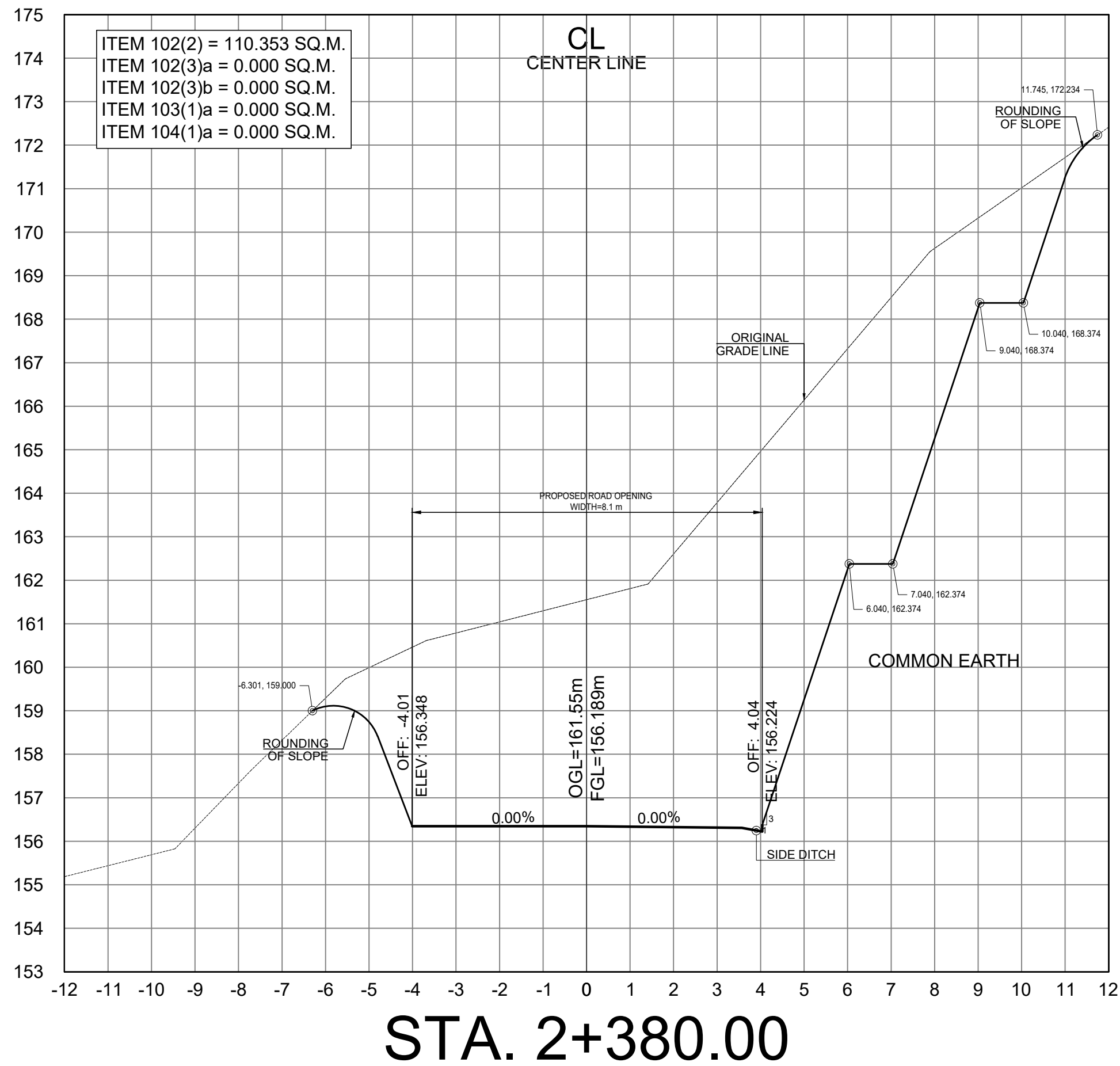
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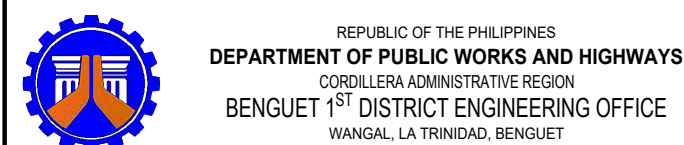
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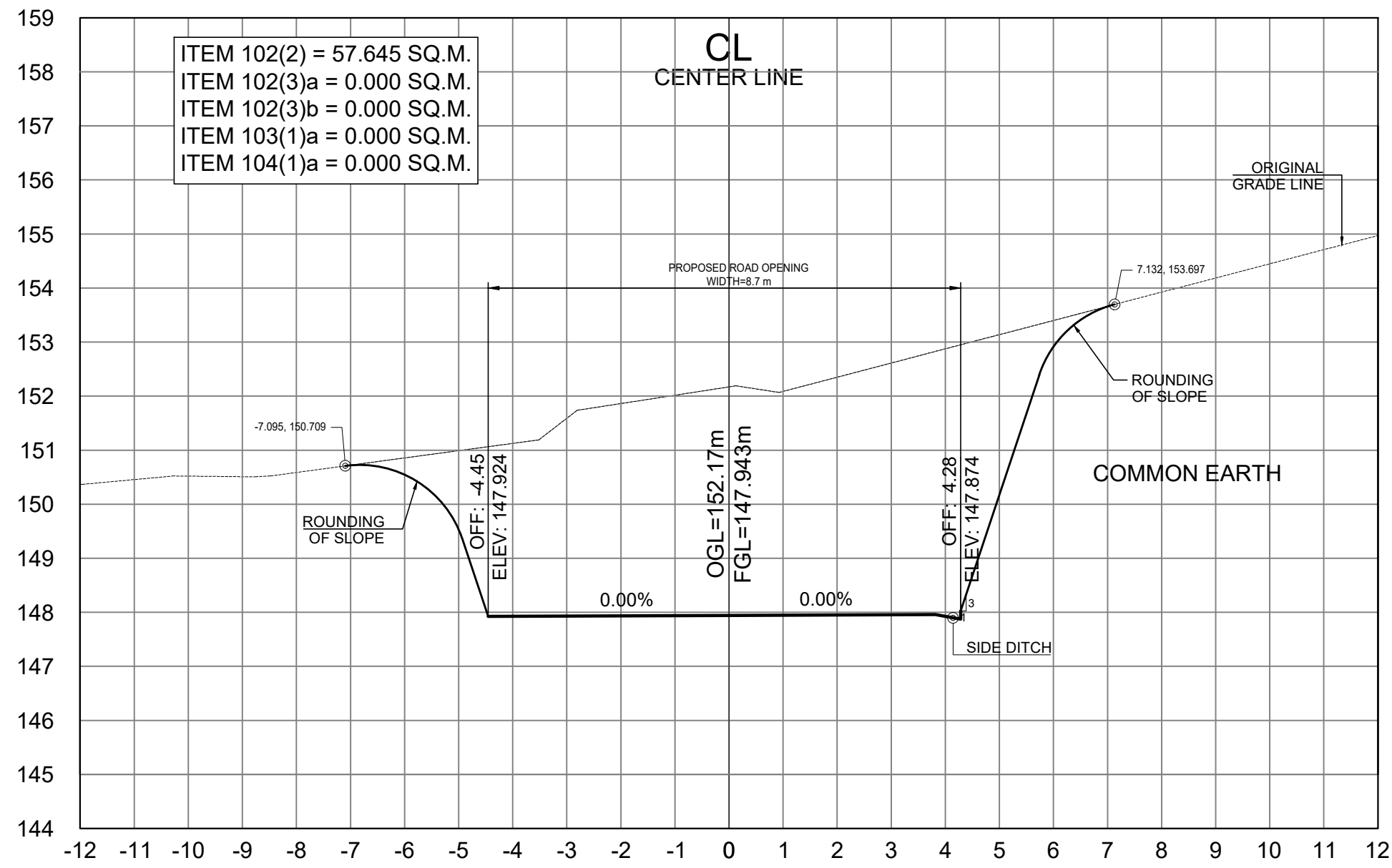
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	CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET	- CROSS SECTION	DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT	EDISON C. AMBALES ENGINEER II	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER	ISAGANI C. CAYME, CESE DISTRICT ENGINEER	CROSS SECTION 01 64	61 106
	TUBA, BENGUET		PREPARED: DEXTER G. BIALNO ENGINEER II	DATE:	DATE:	DATE:	DATE:		



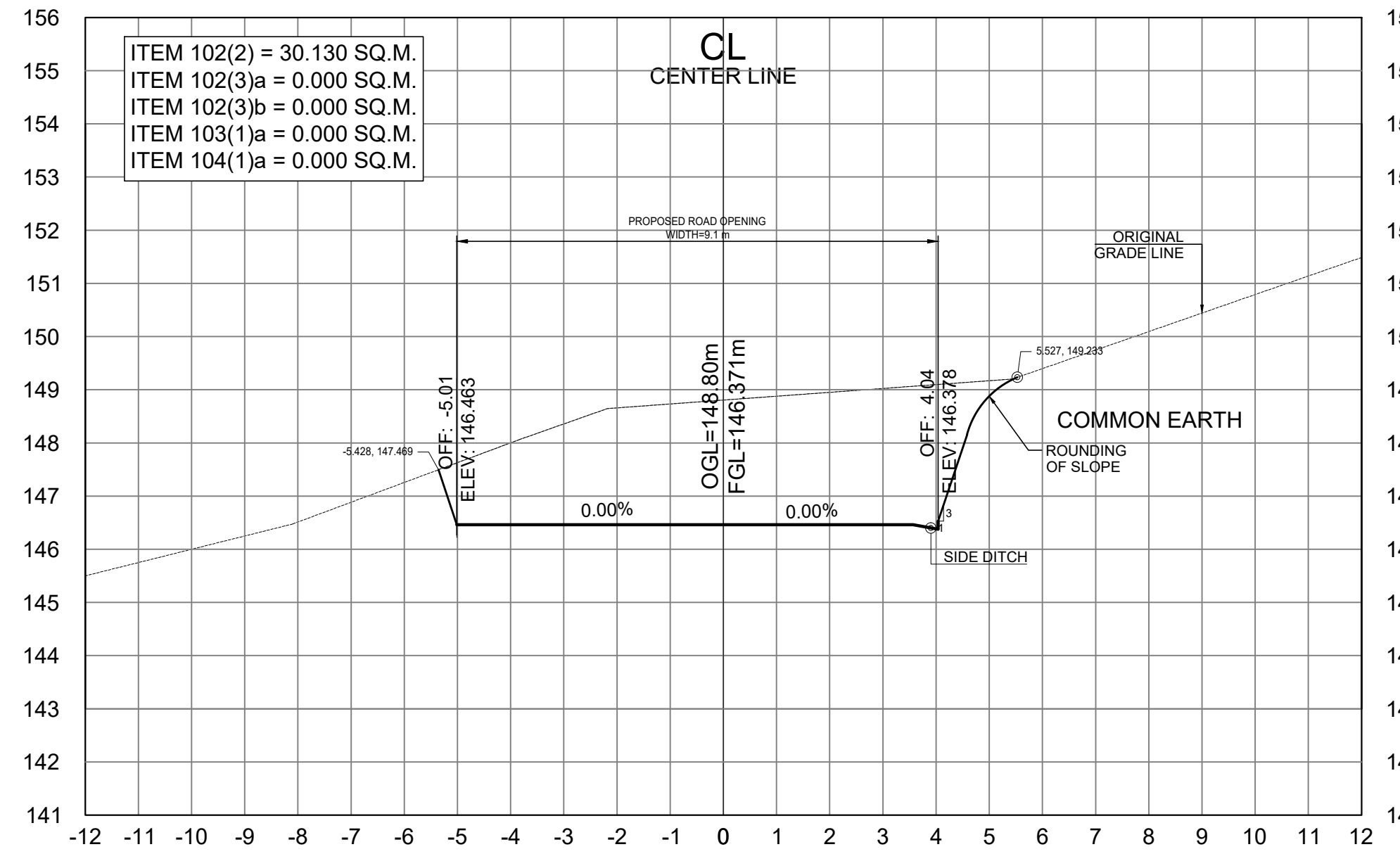
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CROSS SECTIONS	1:100 MTS.



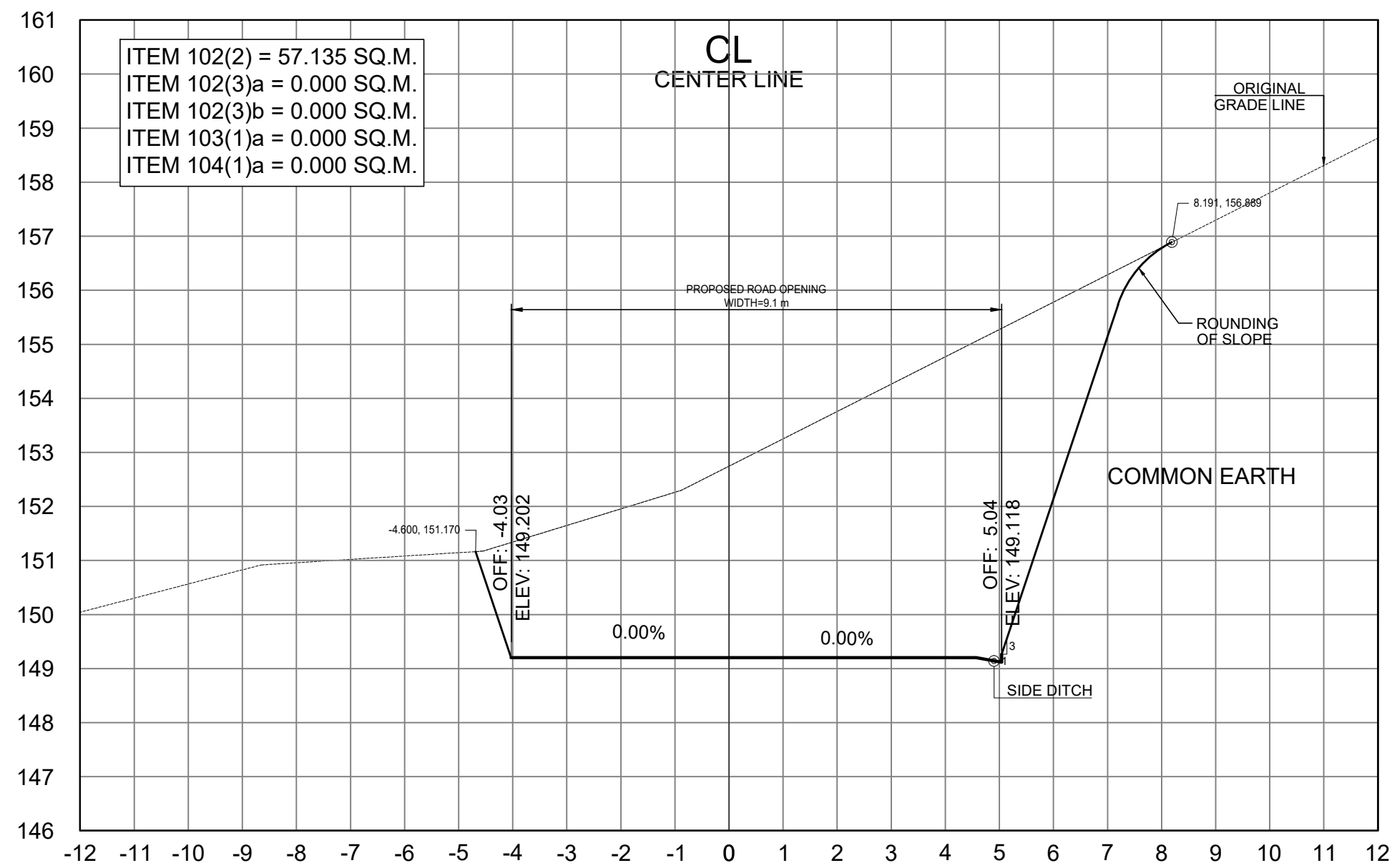
PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	SHEET CONTENTS: - CROSS SECTION	DRAFTED: DIANE B. ABAYAO ENGINEER II CYRUS P. MENDOZA ENGINEERING ASSISTANT PREPARED: DEXTER G. BIALNO ENGINEER II	REVIEWED: EDISON C. AMBALES ENGINEER II DATE:	SUBMITTED: ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE:	SET NO. CROSS SECTION 01 64	SHEET NO. 62 106



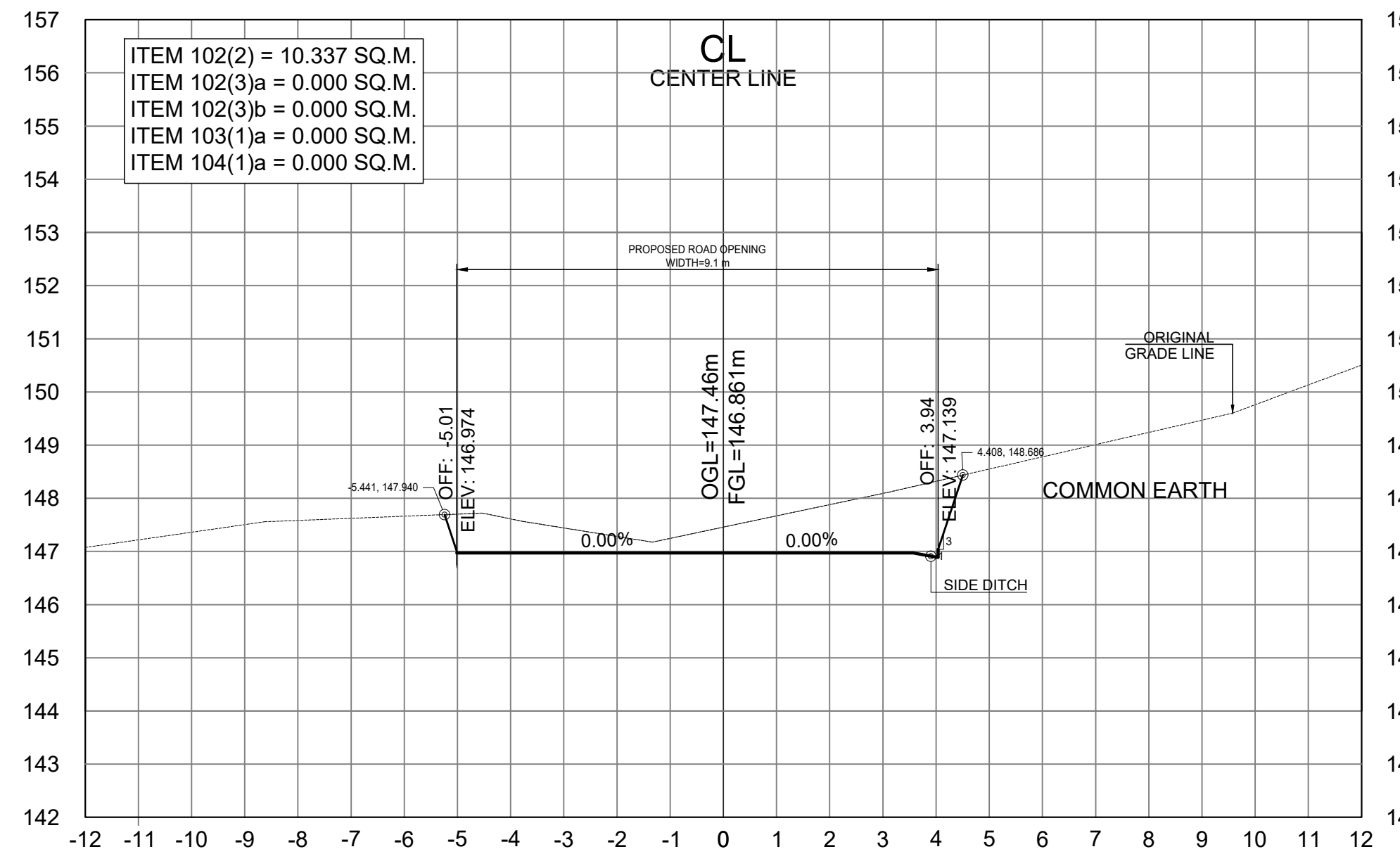
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STA. 2+440.00



STA. 2+480.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**
TUBA, BENGUET

SHEET CONTENTS:
- CROSS SECTION

DRAFTED:
DIANE B. ABAYAO ENGINEER II
CYRUS P. MENDOZA ENGINEERING ASSISTANT
PREPARED:
DEXTER G. BIALNO ENGINEER II

REVIEWED:
EDISON C. AMBALES ENGINEER II
DATE:

SUBMITTED:
ROMUALDO T. APALIAS OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER
DATE:

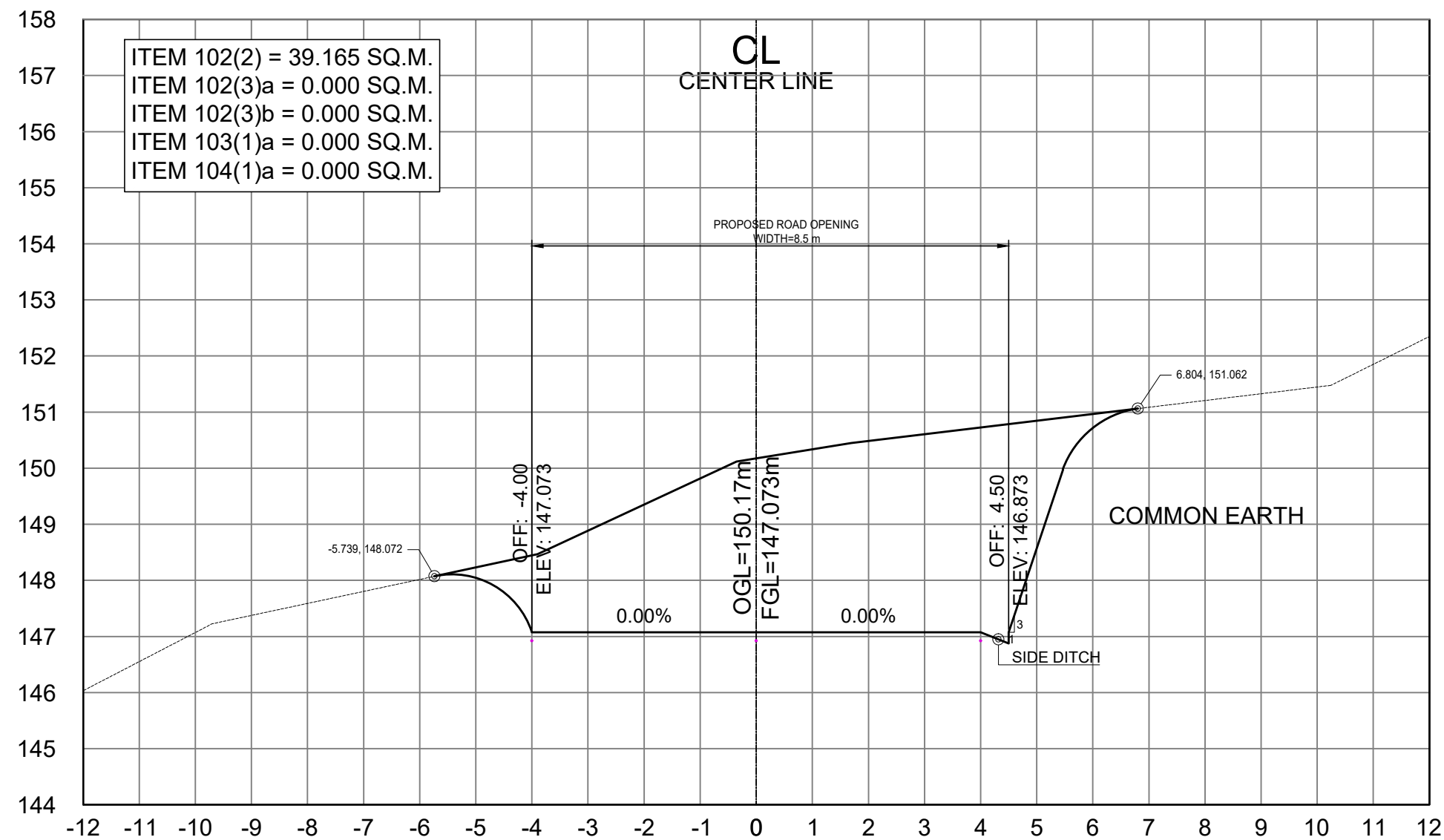
APPROVED:
ISAGANI C. CAYME, CESE DISTRICT ENGINEER
DATE:

SET NO.

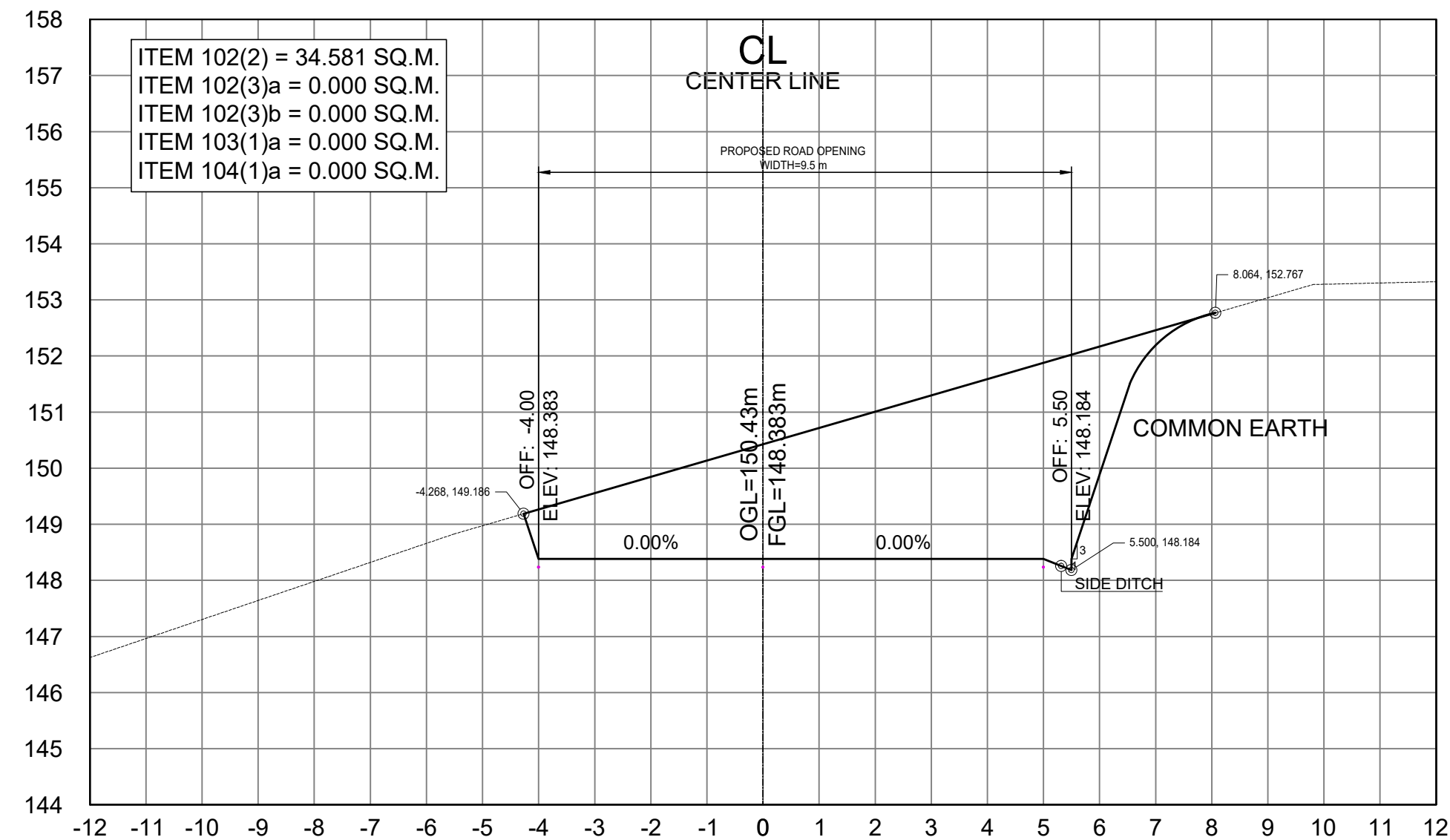
CROSS
SECTION
01 64

SHEET NO.

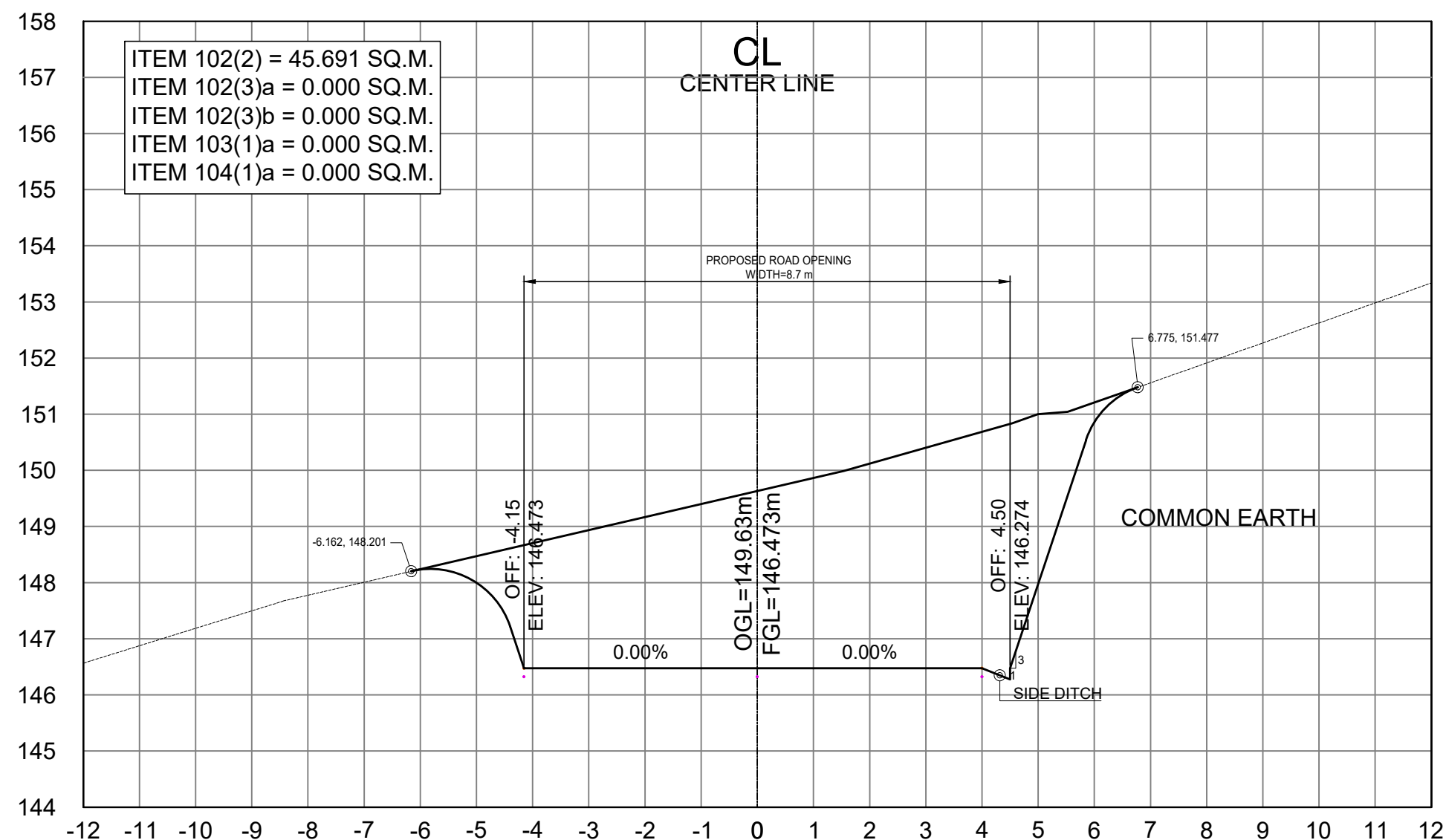
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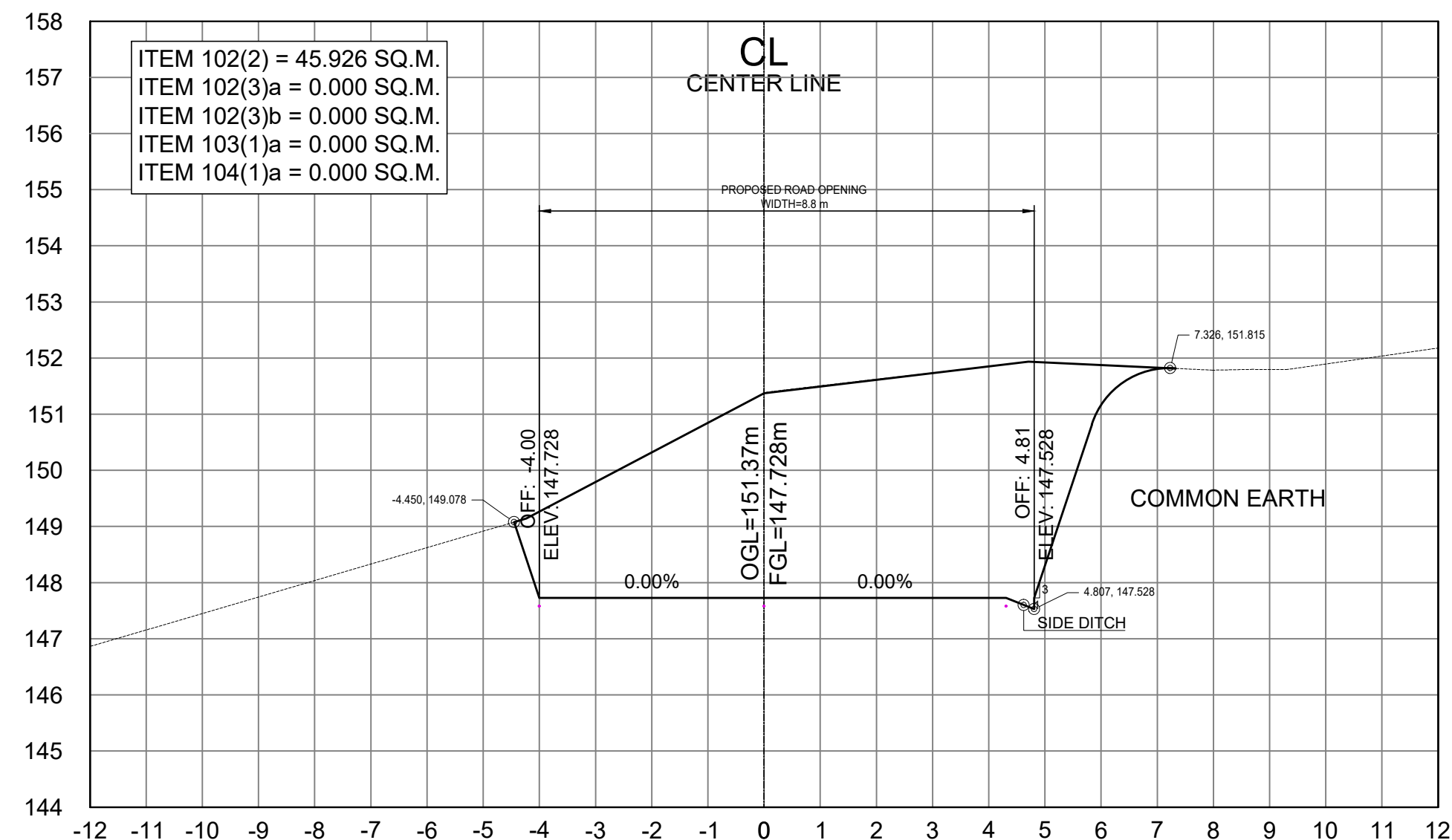
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

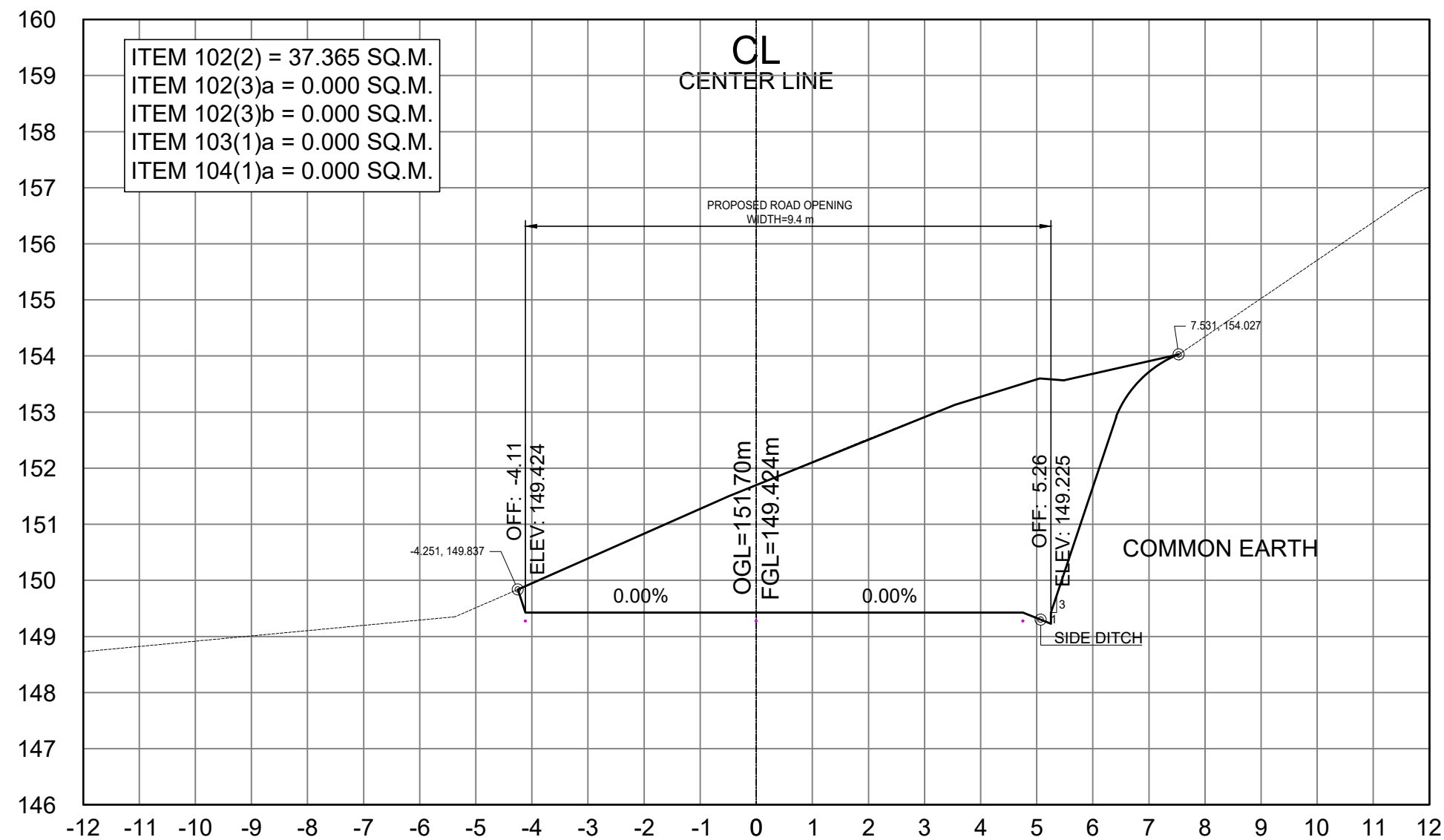
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

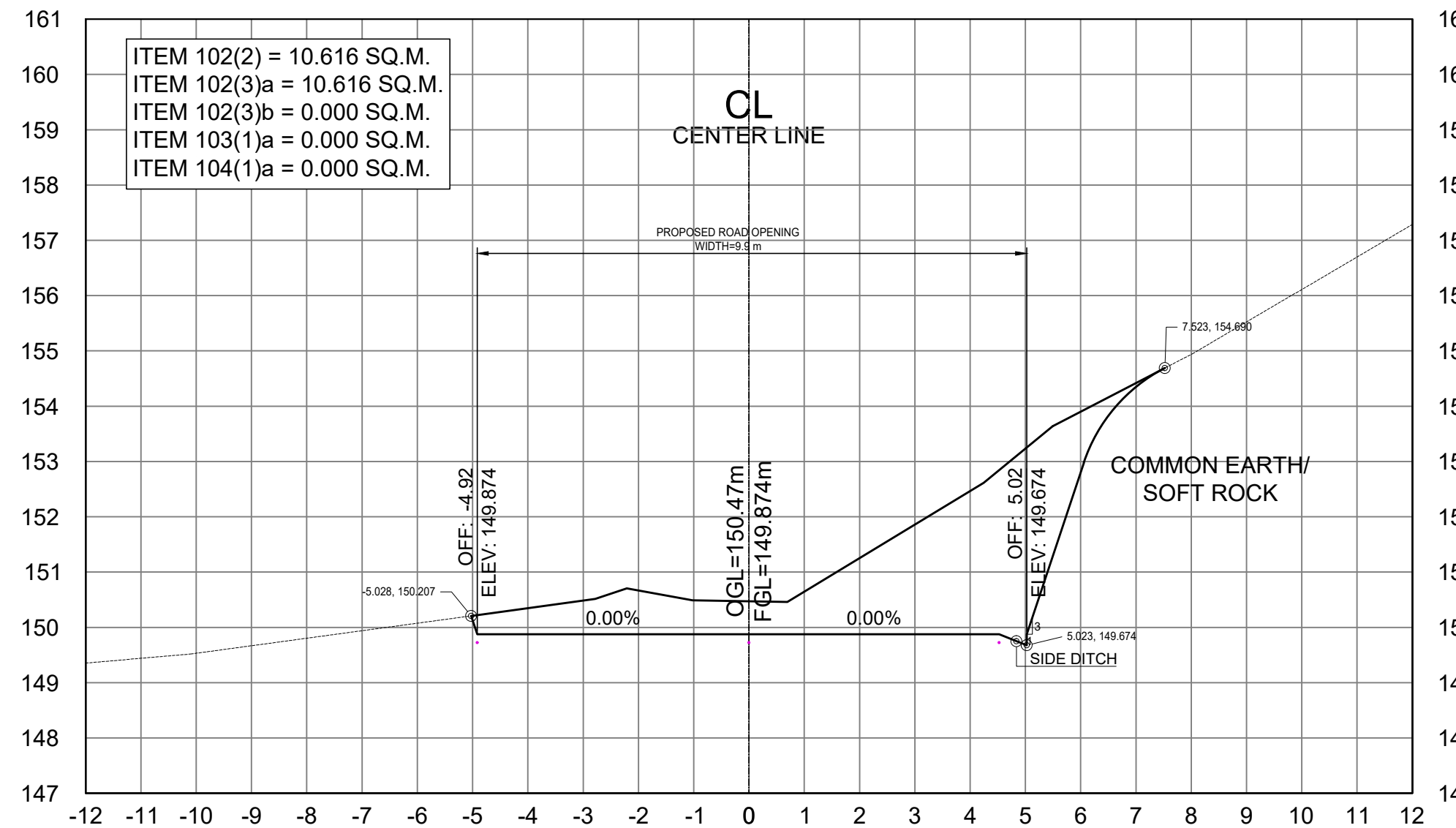
SET NO.

CROSS
SECTION
01 | 73

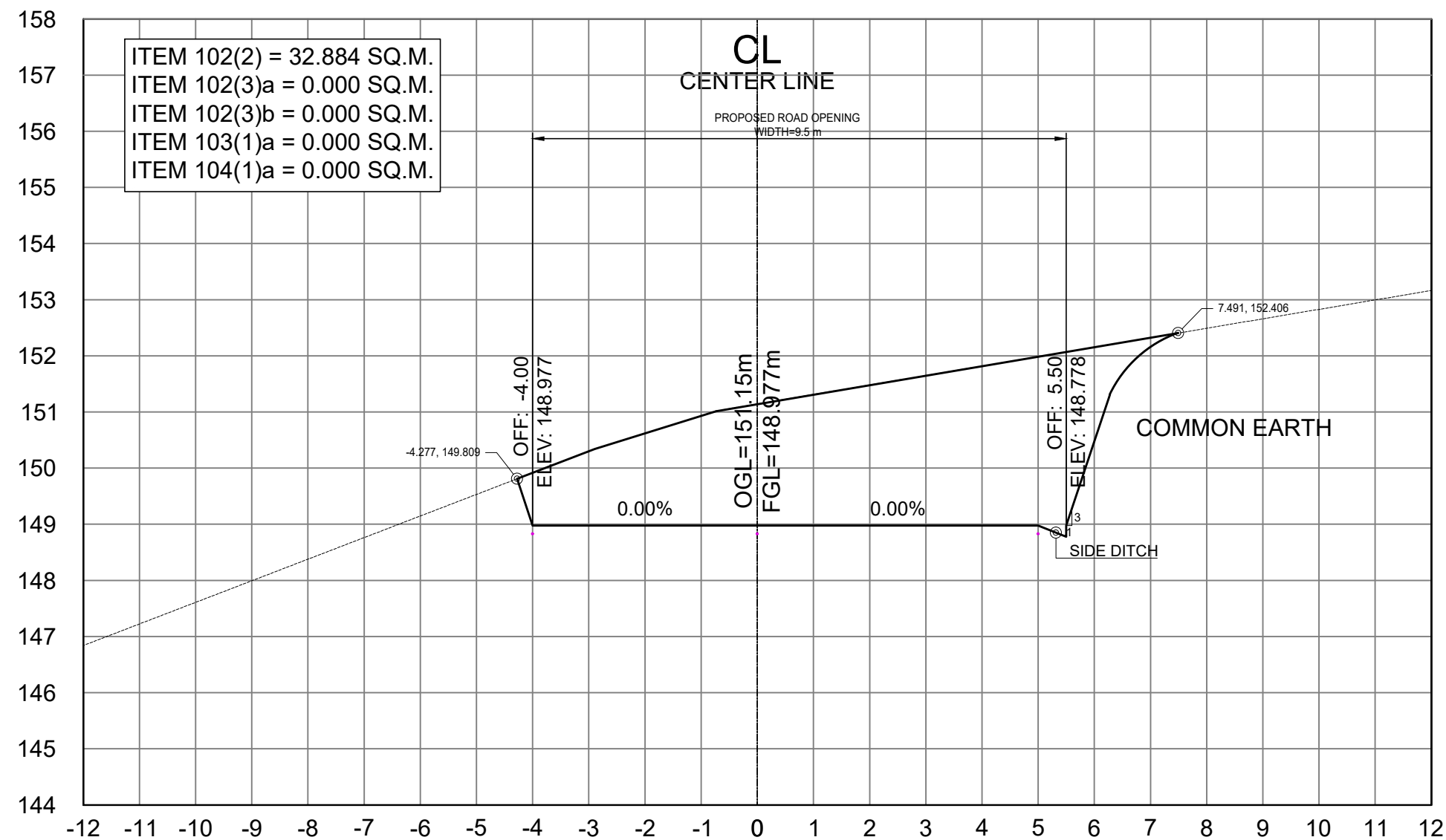
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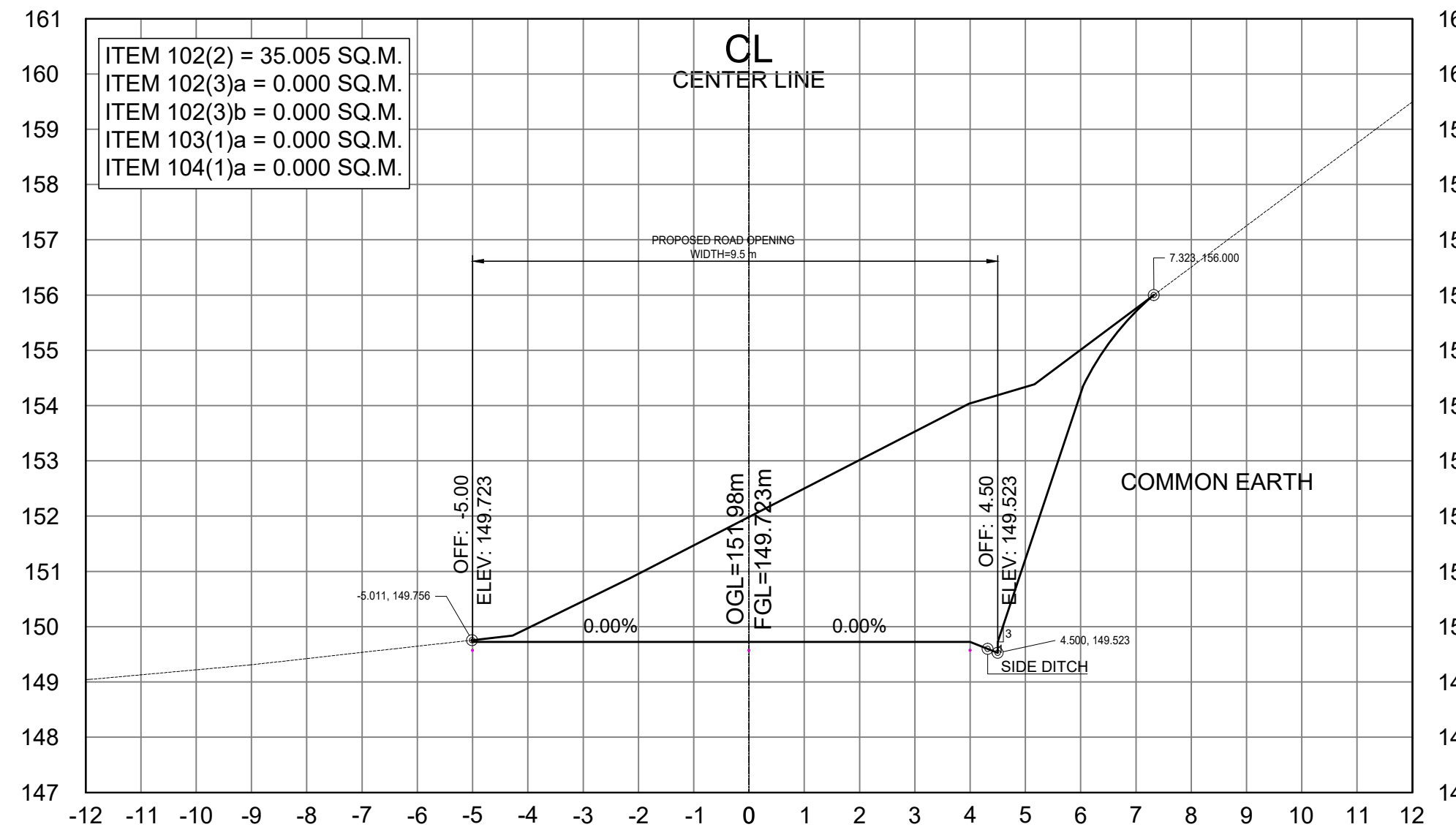
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SCALE	
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

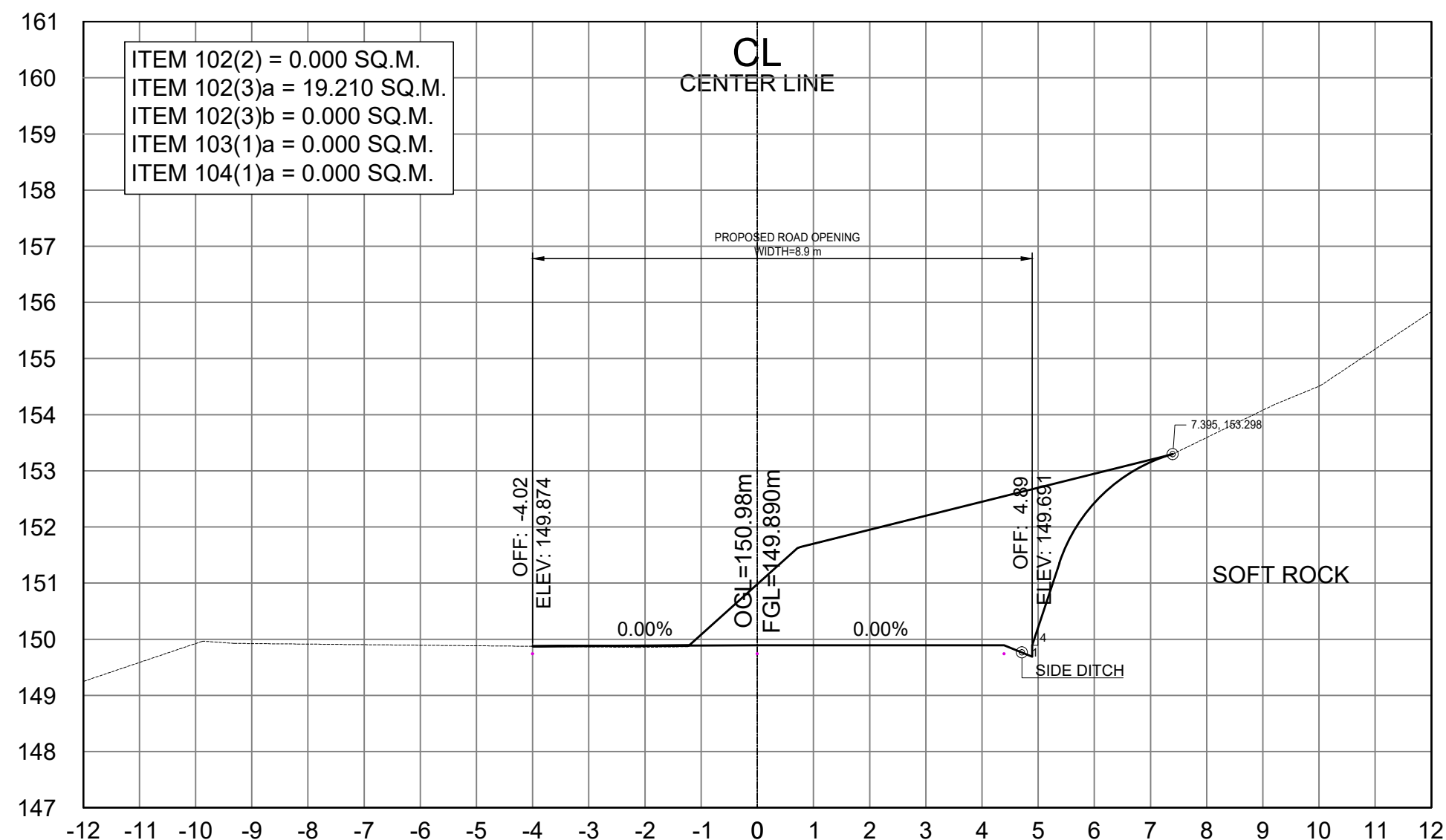
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

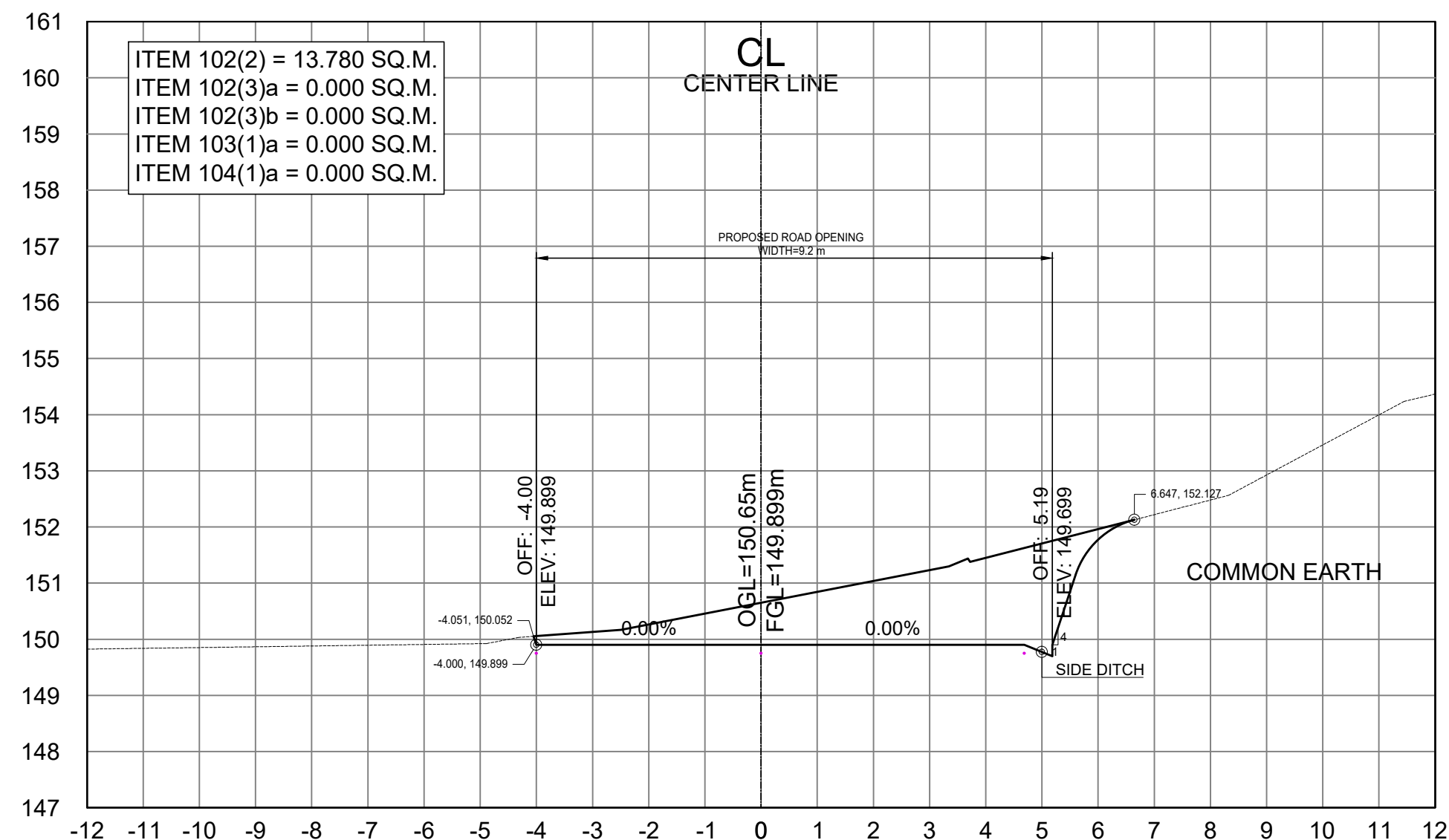
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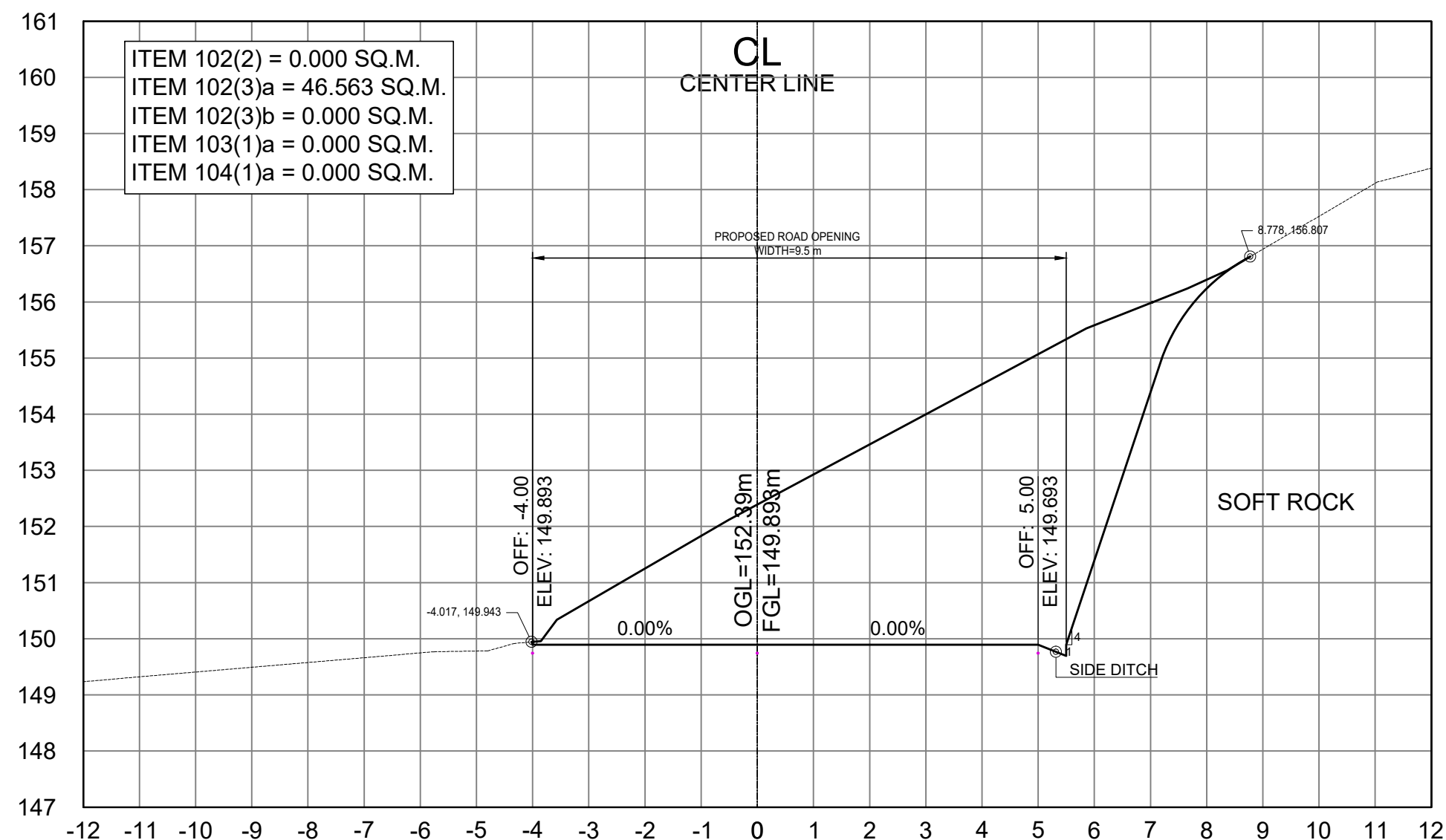
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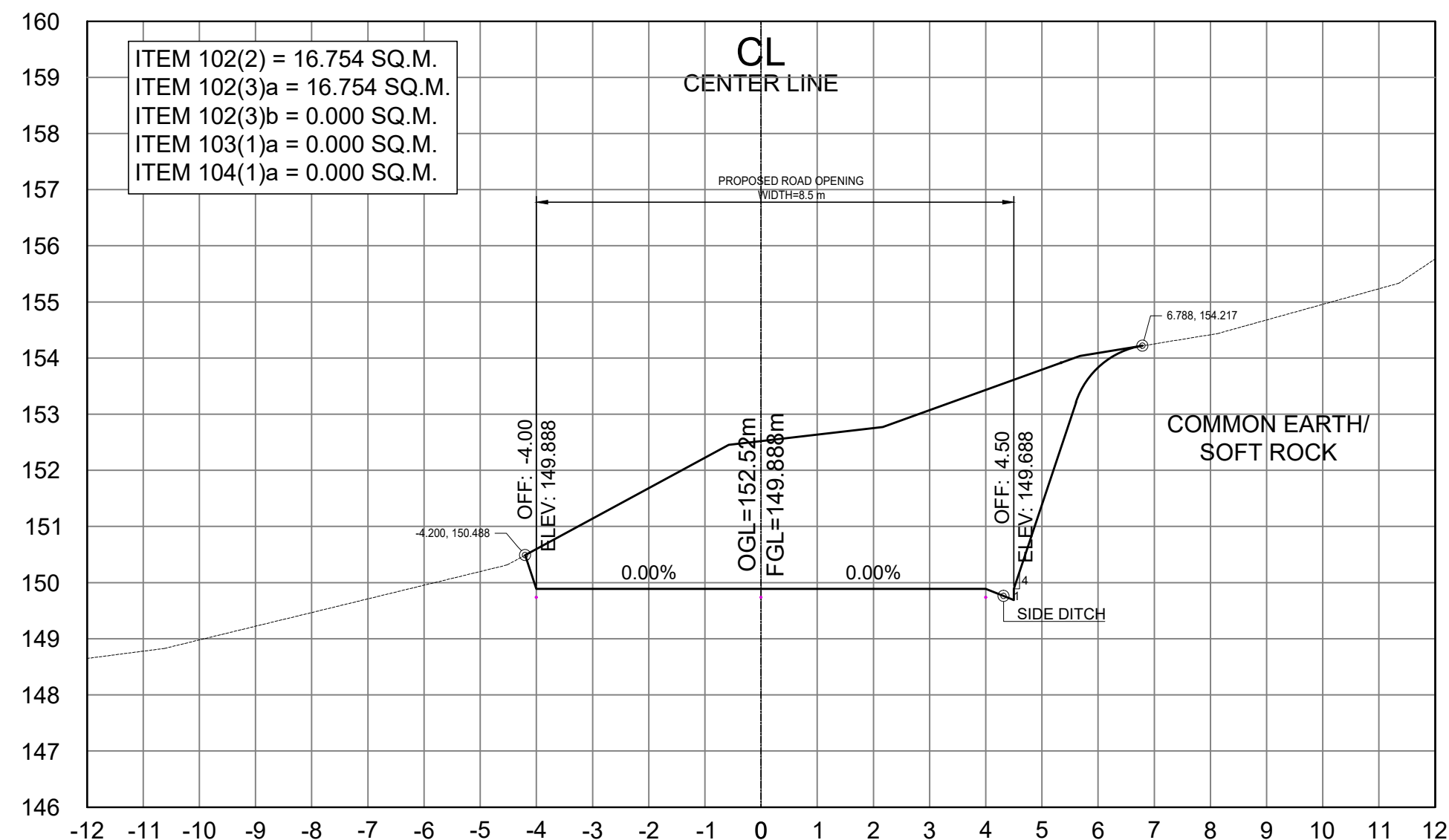
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

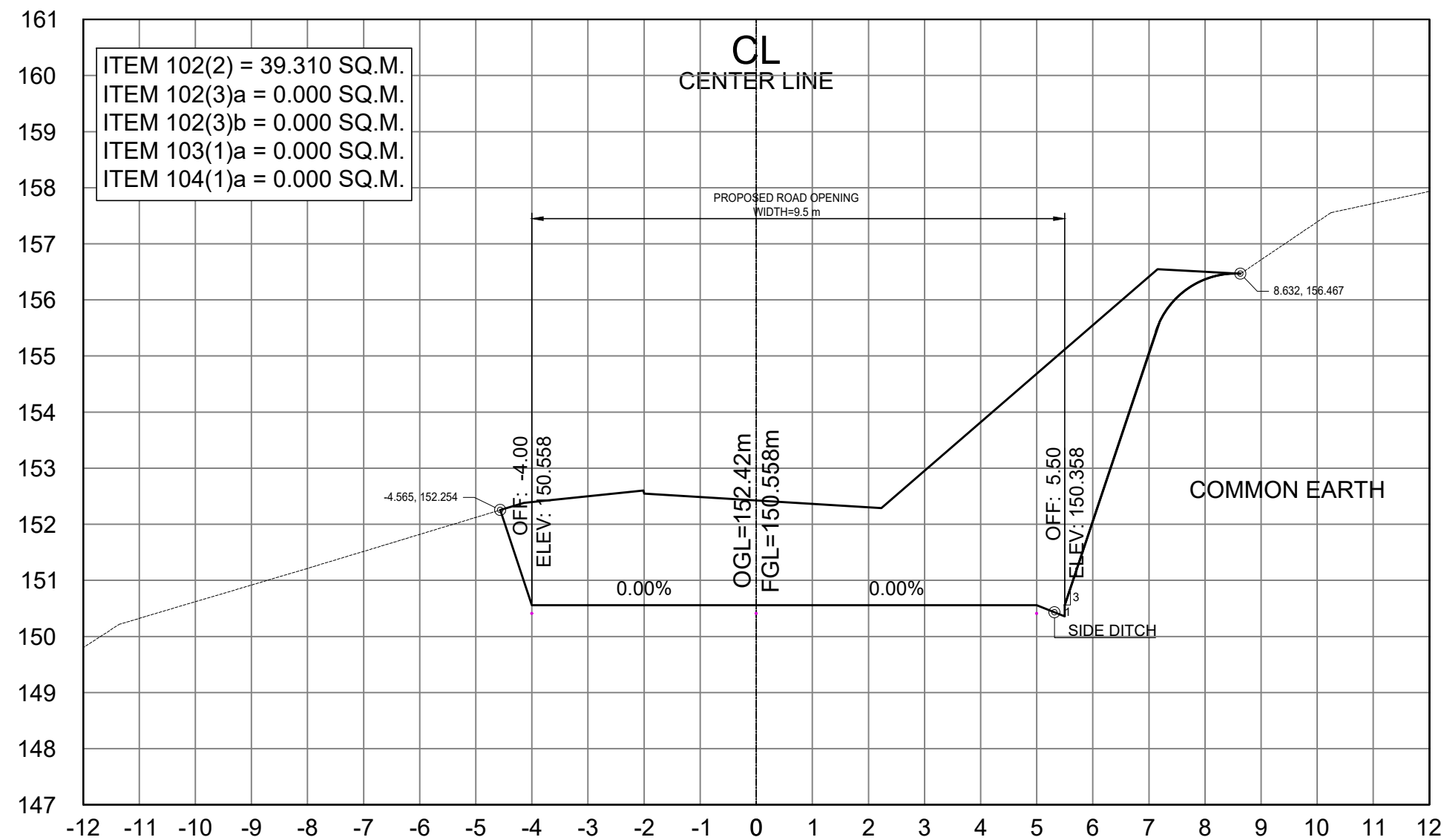
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

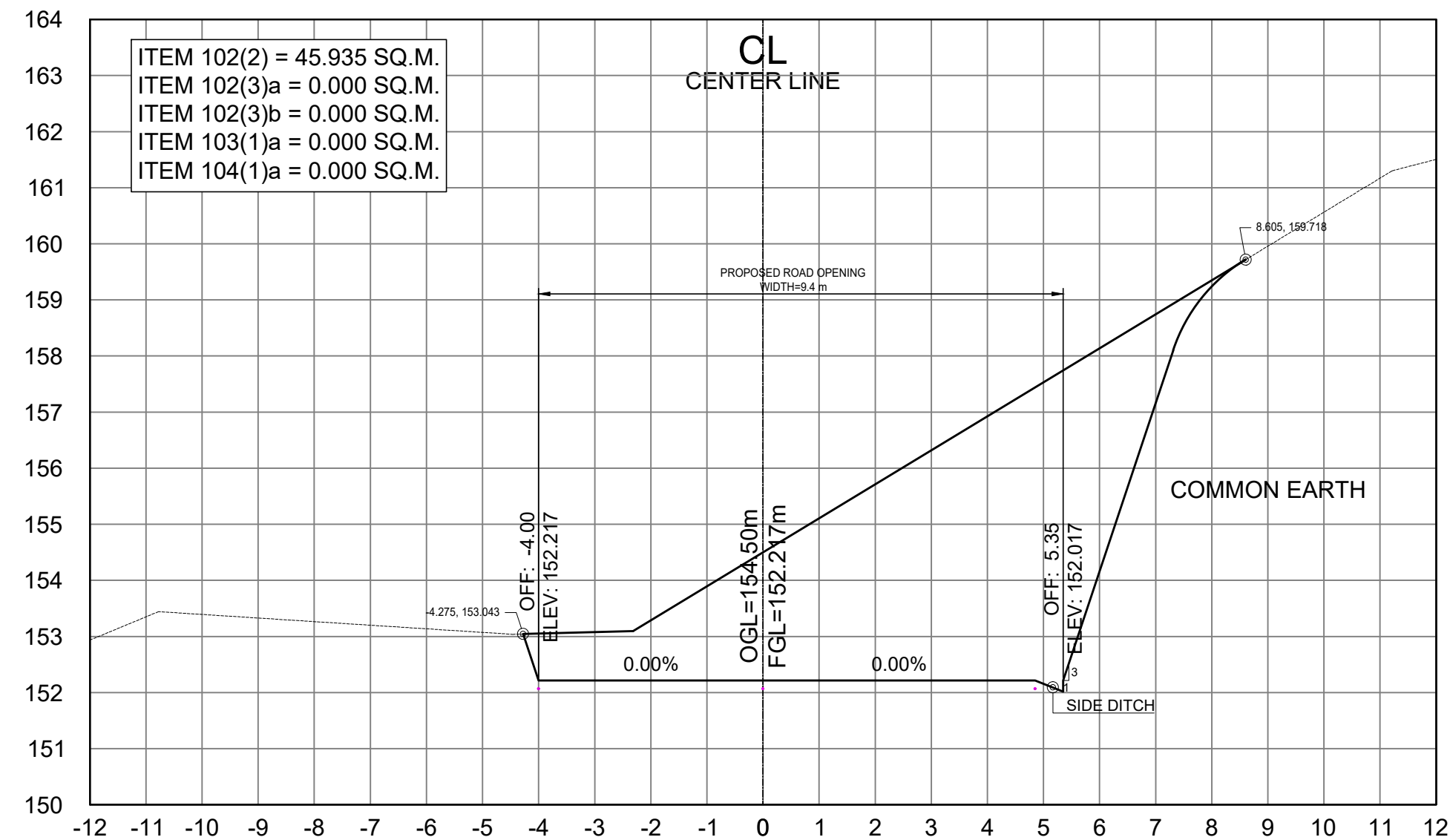
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SECTION
01 73

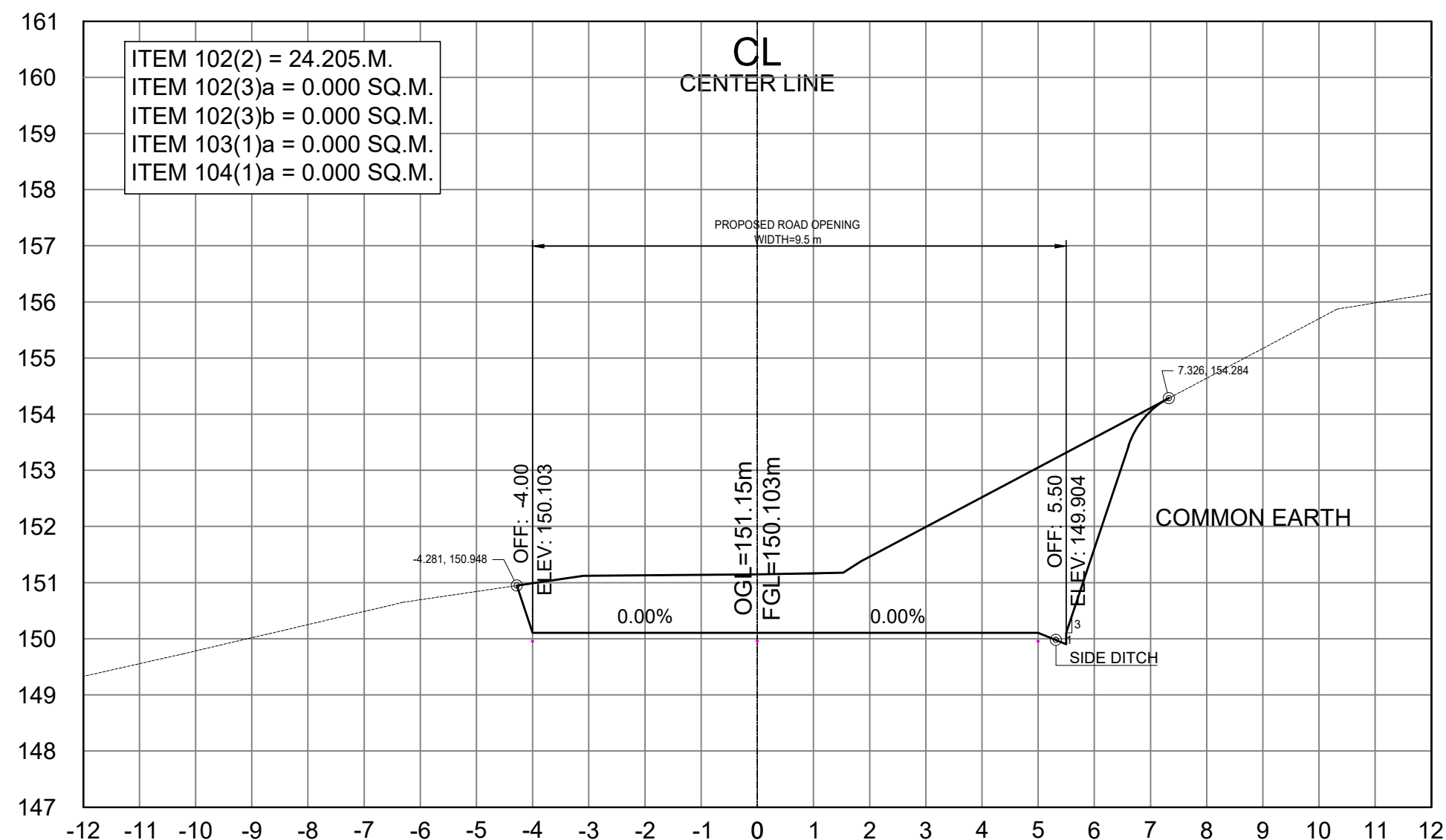
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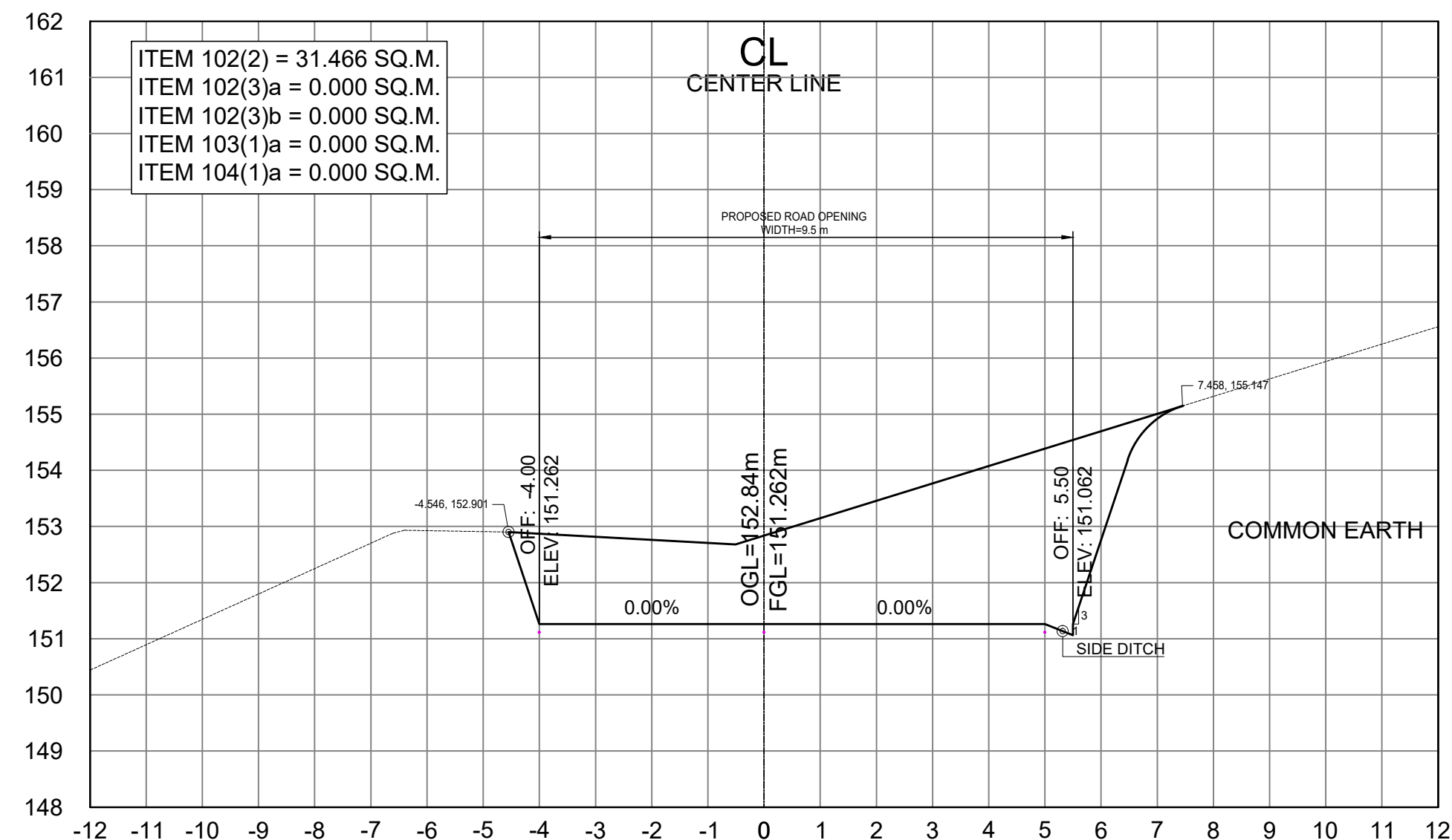
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

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PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

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ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

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EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

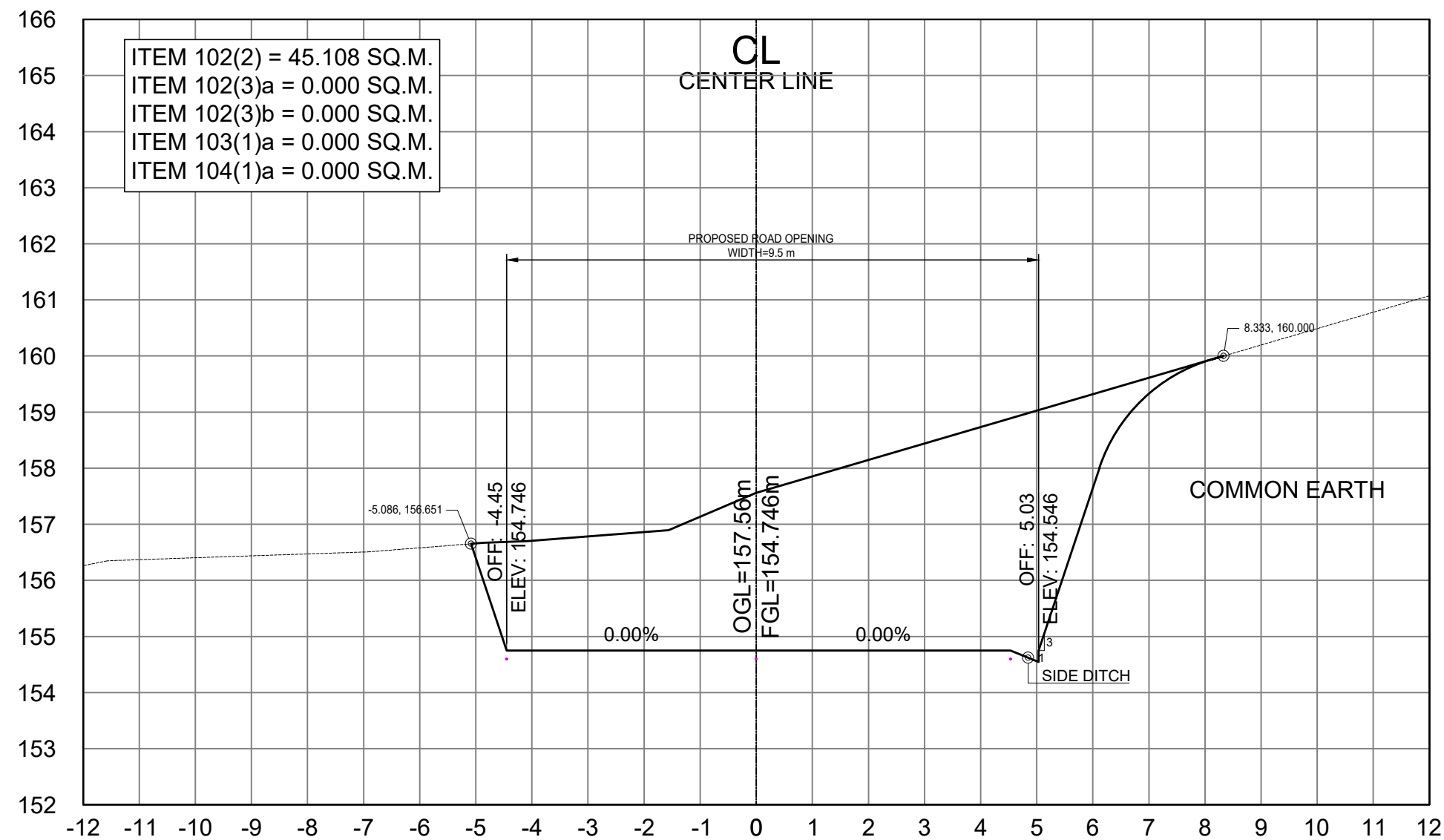
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

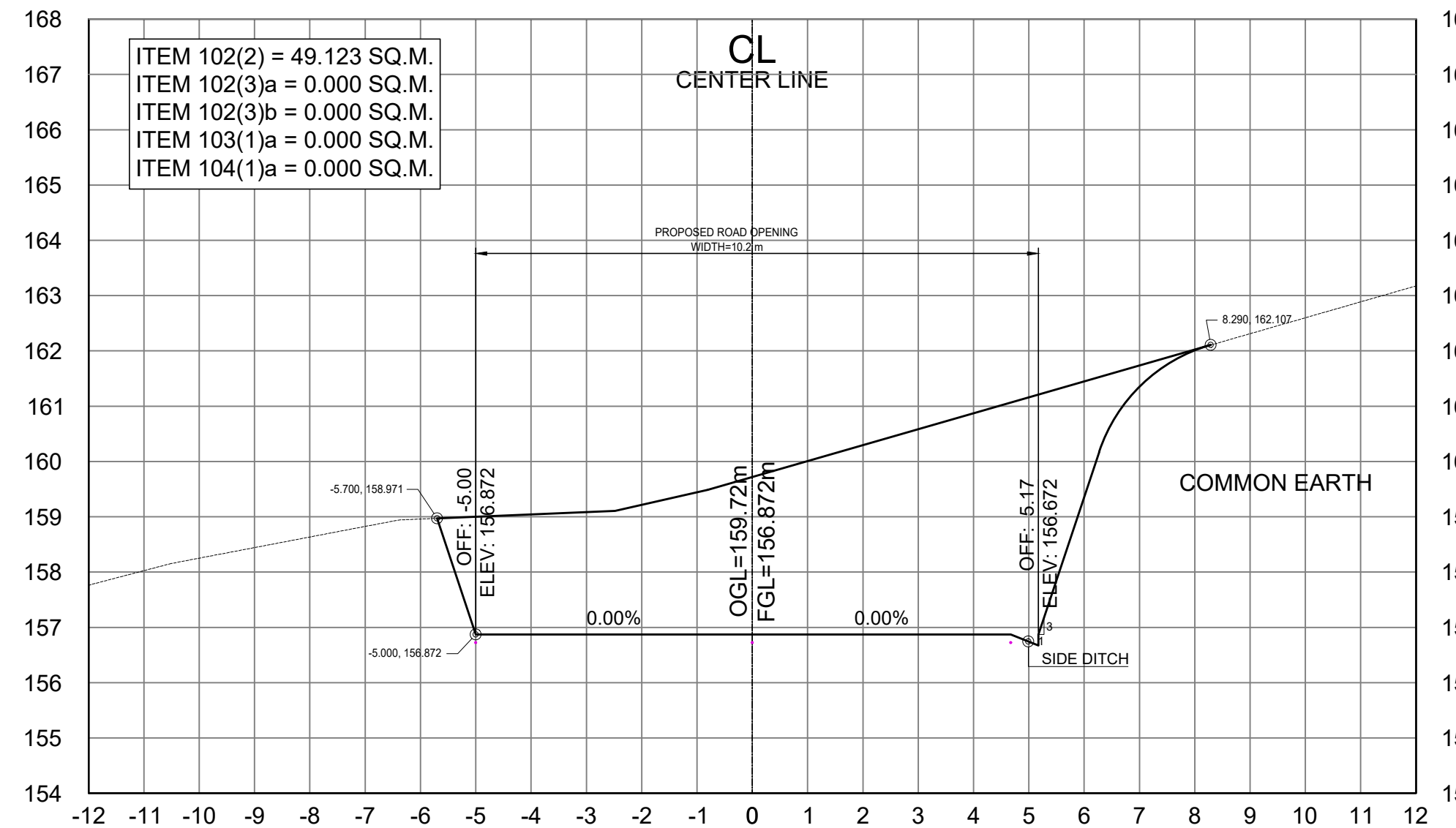
SET NO.

CROSS
SECTION
01 | 73

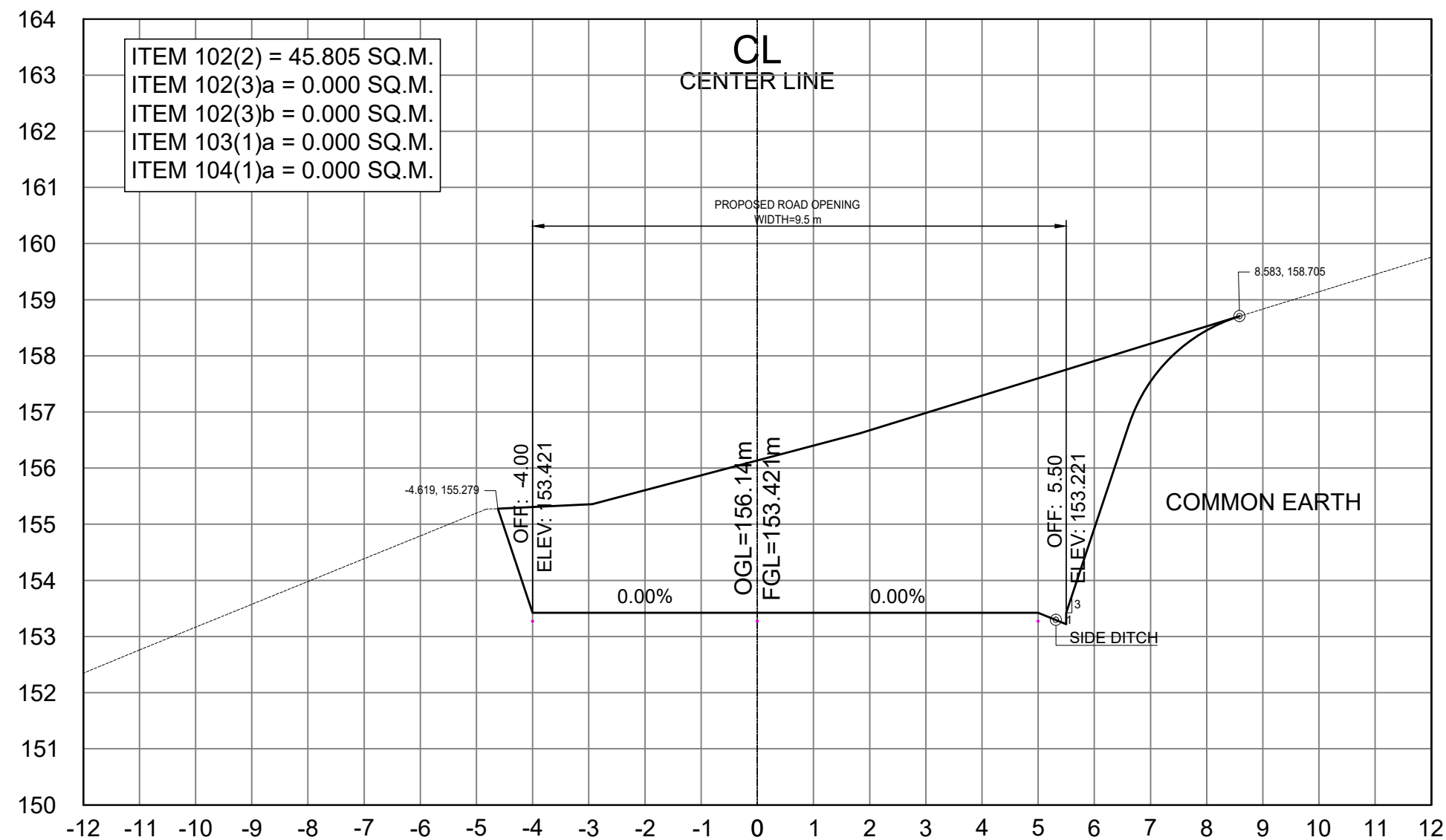
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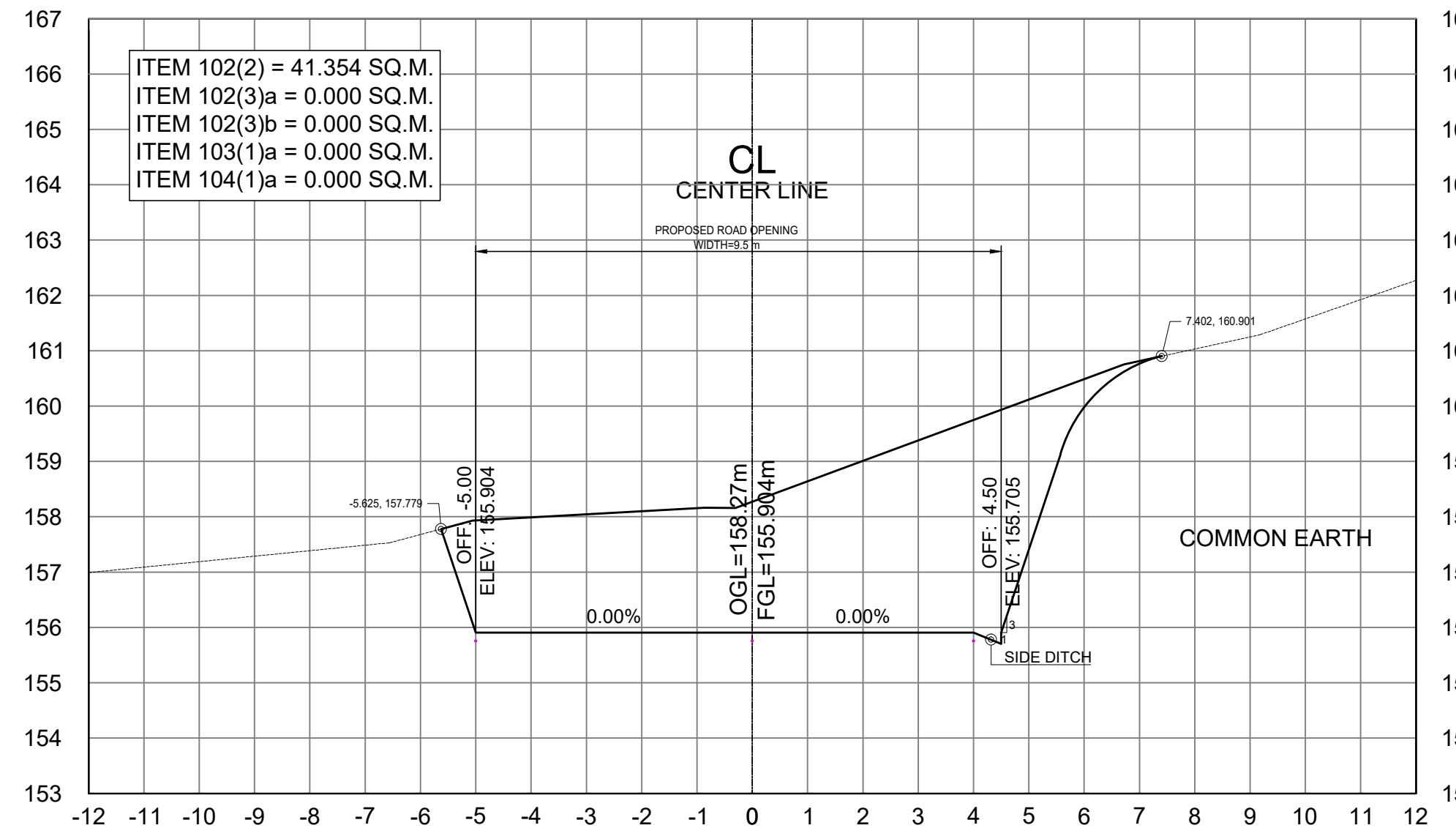
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

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OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

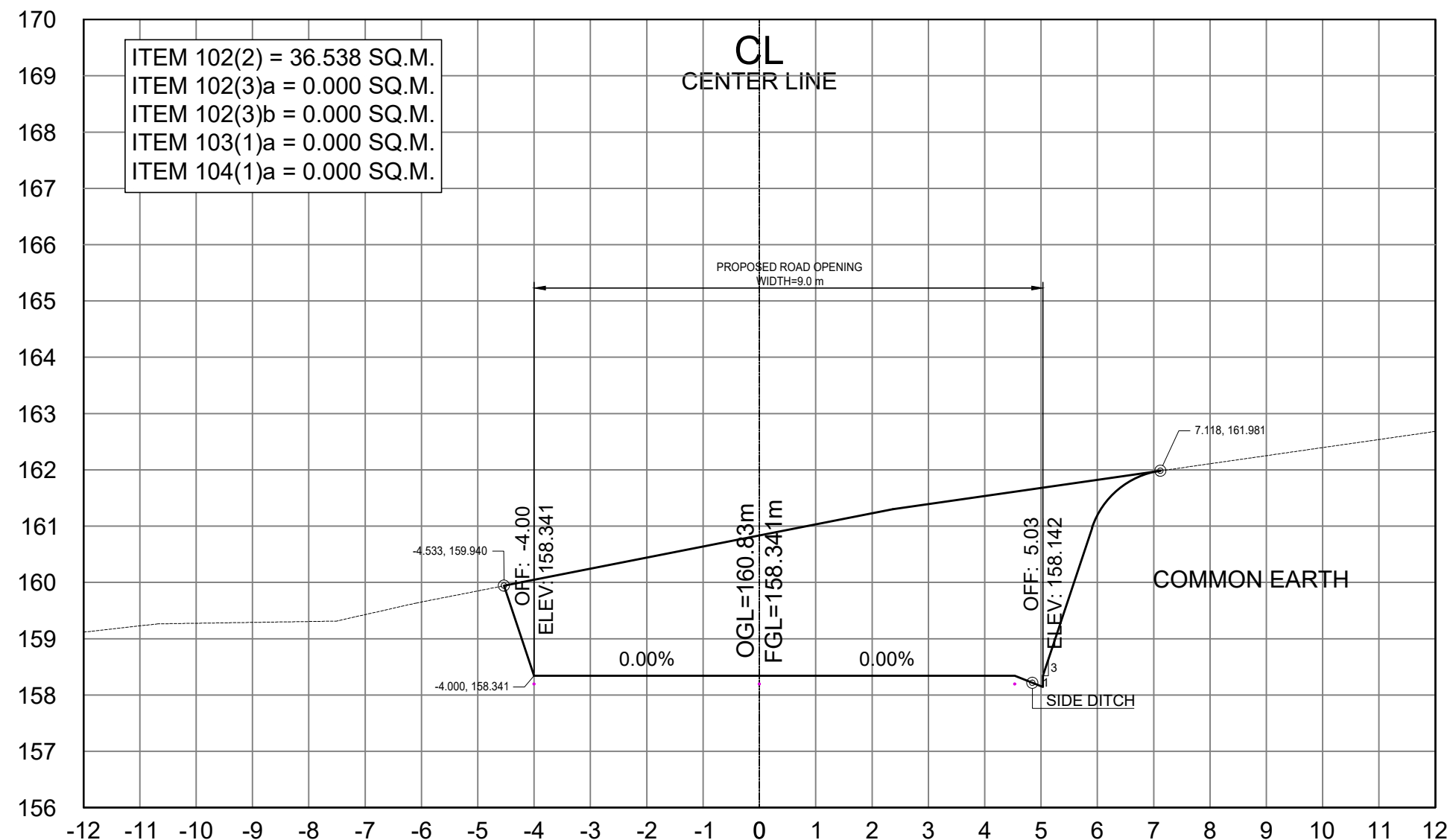
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

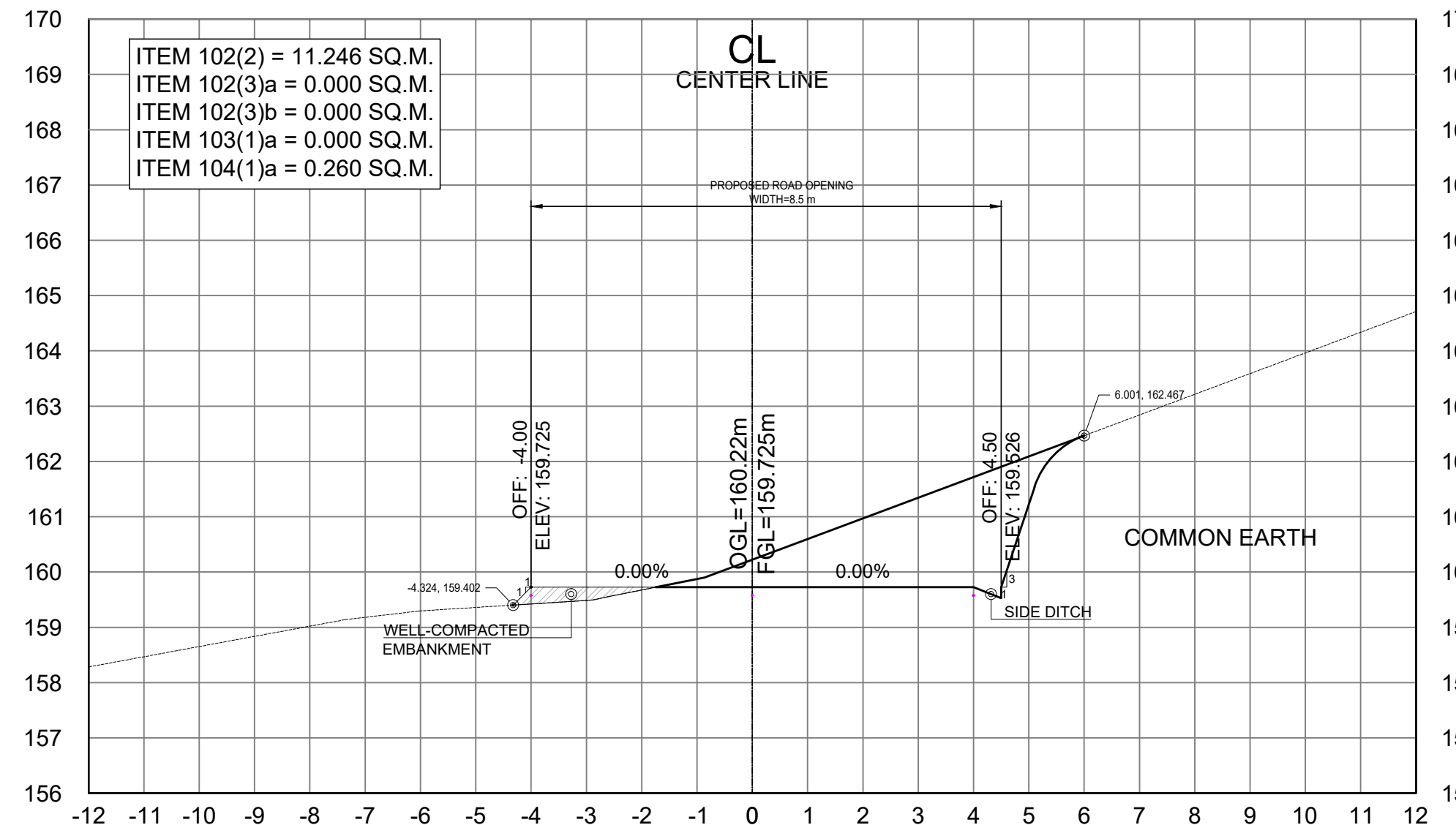
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CROSS
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01 | 73

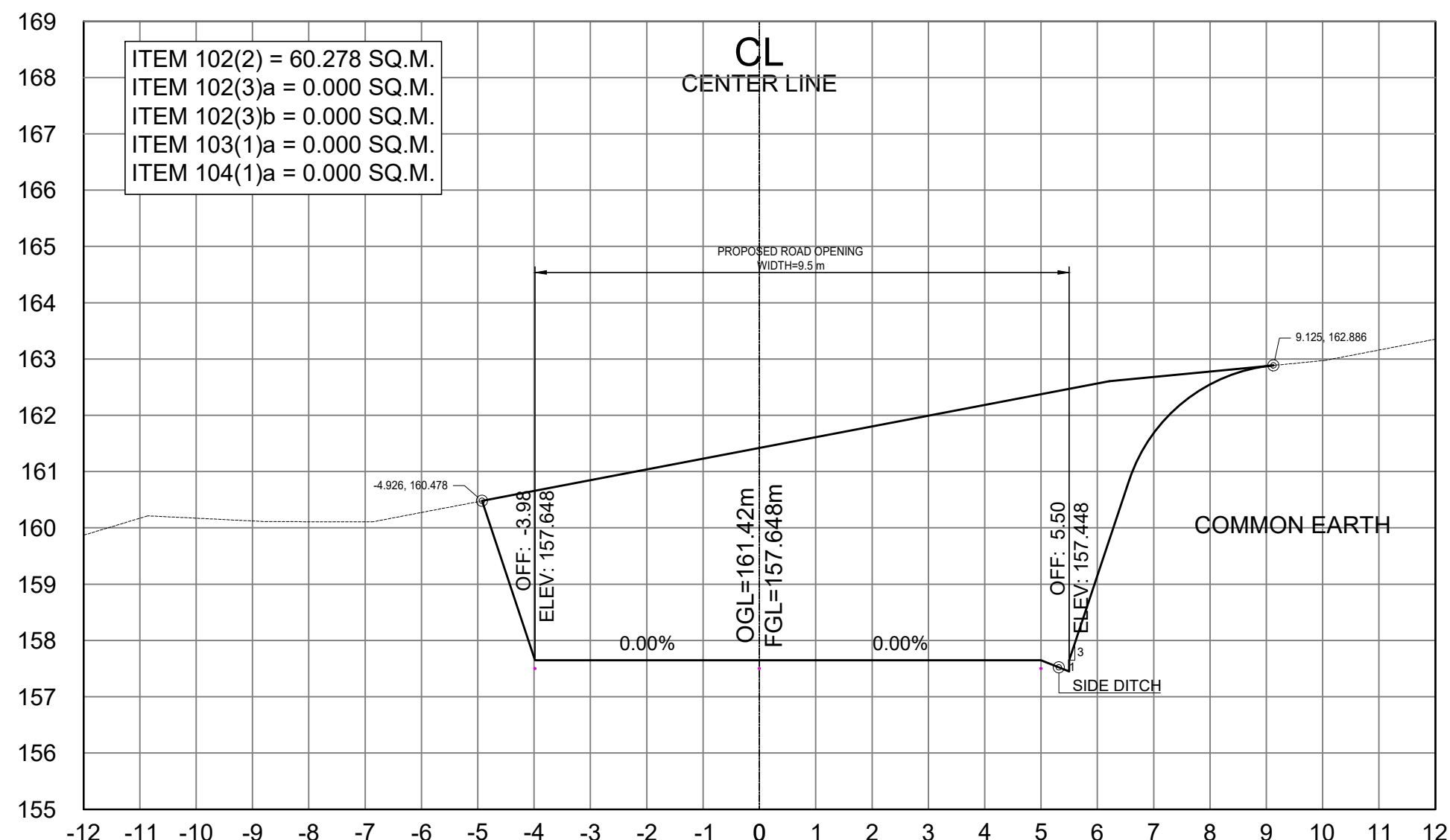
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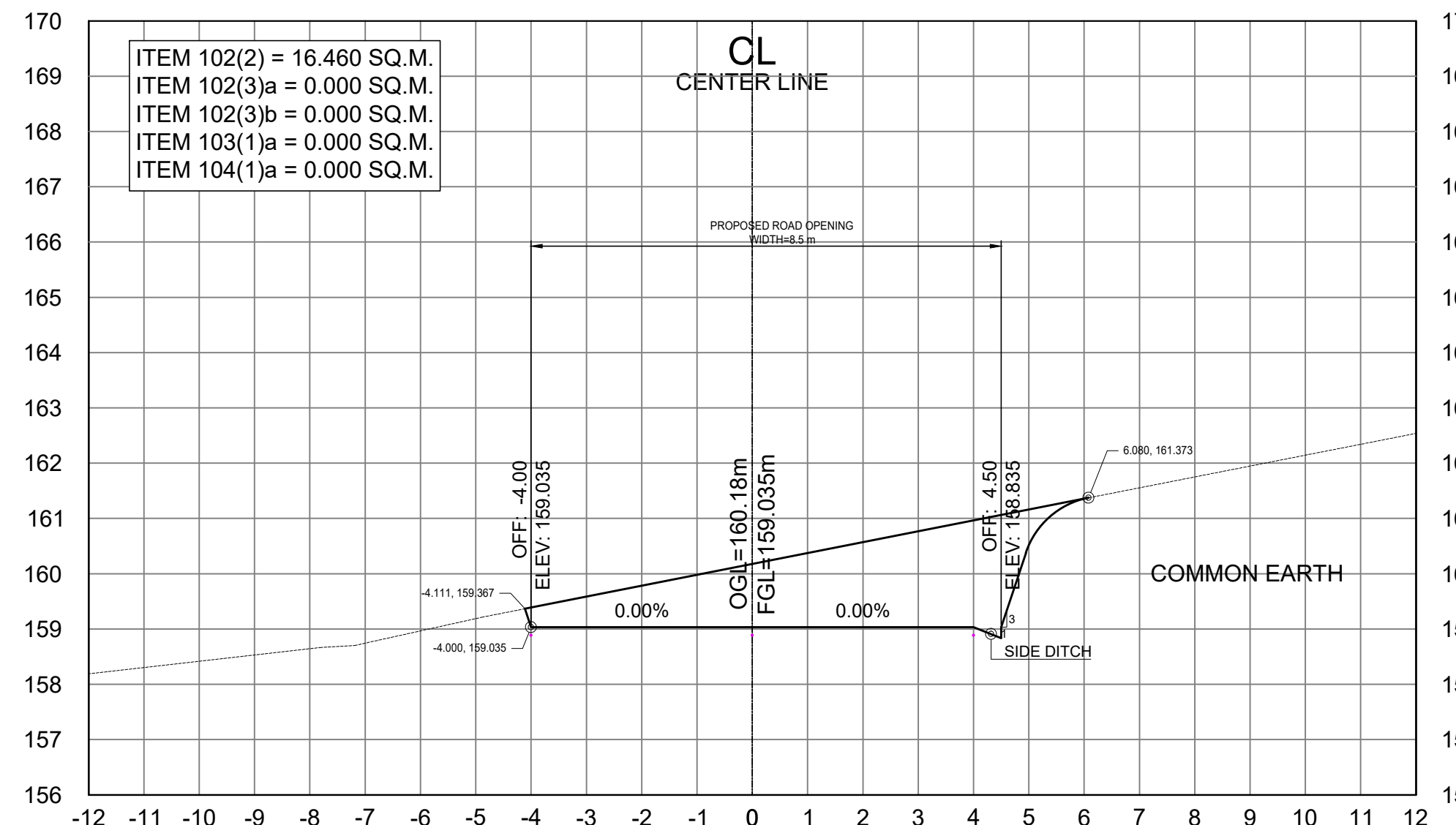
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STA. 2+920.00



STA. 2+960.00

SCALE	
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

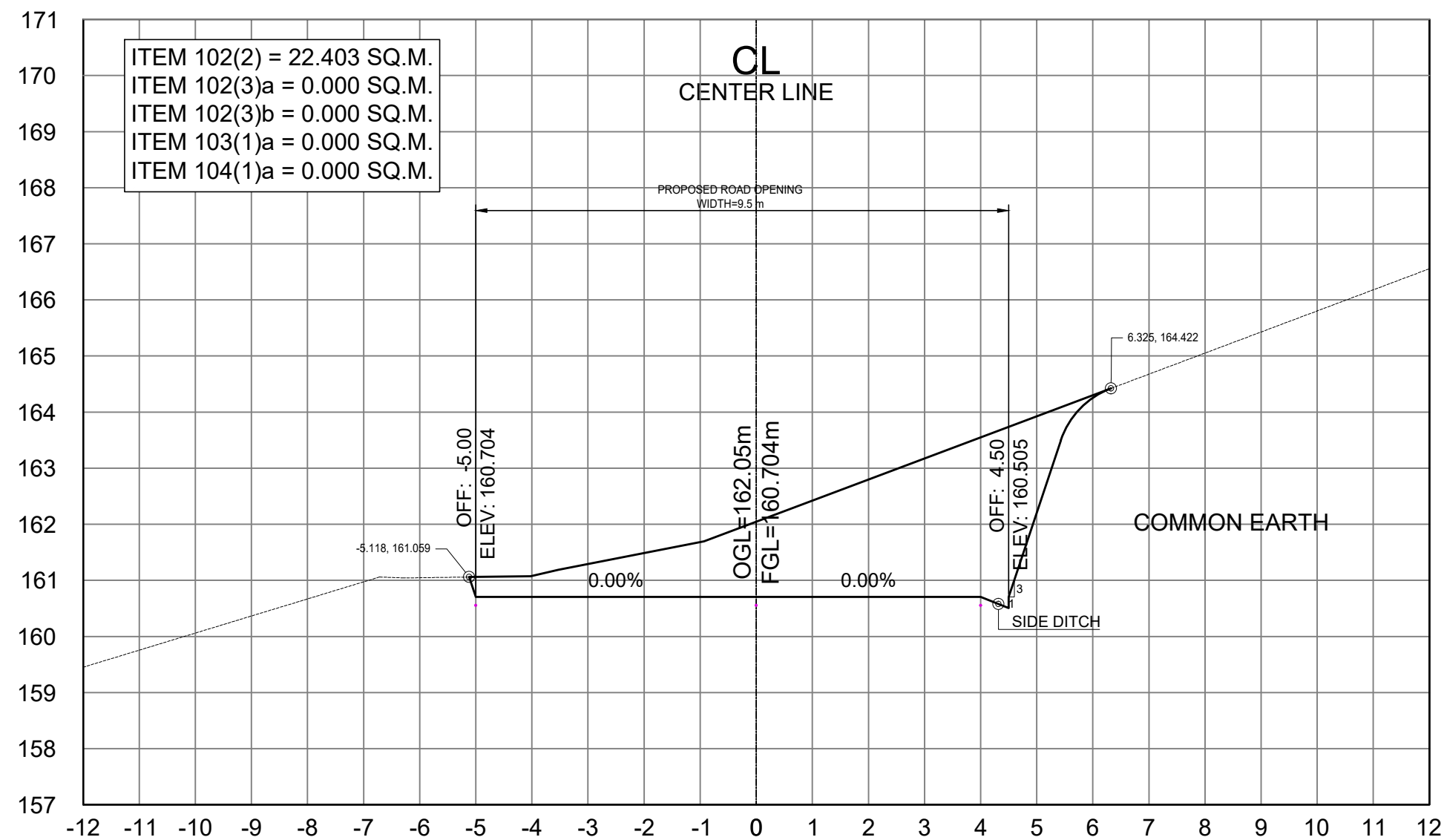
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

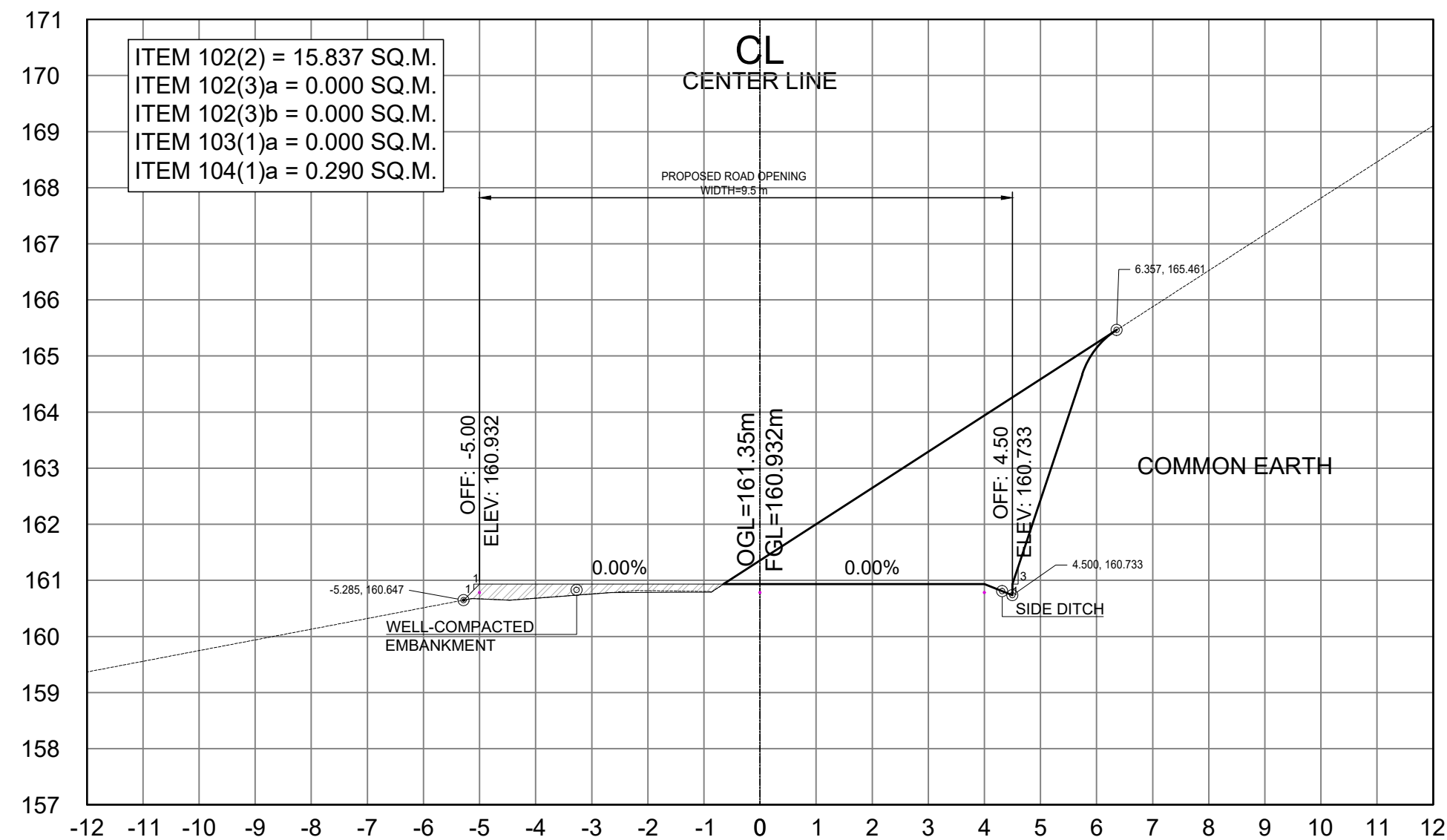
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SECTION
01 | 73

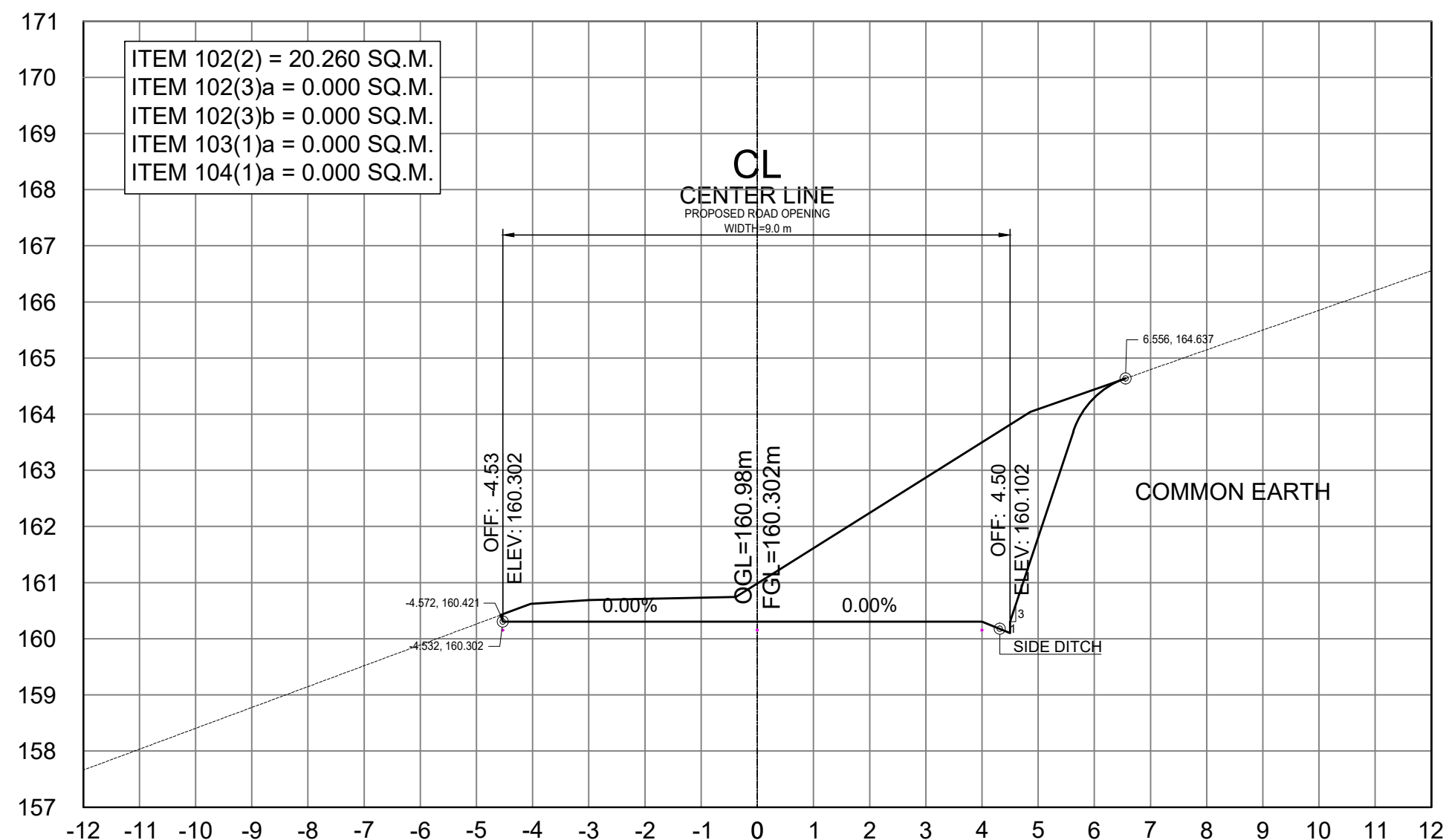
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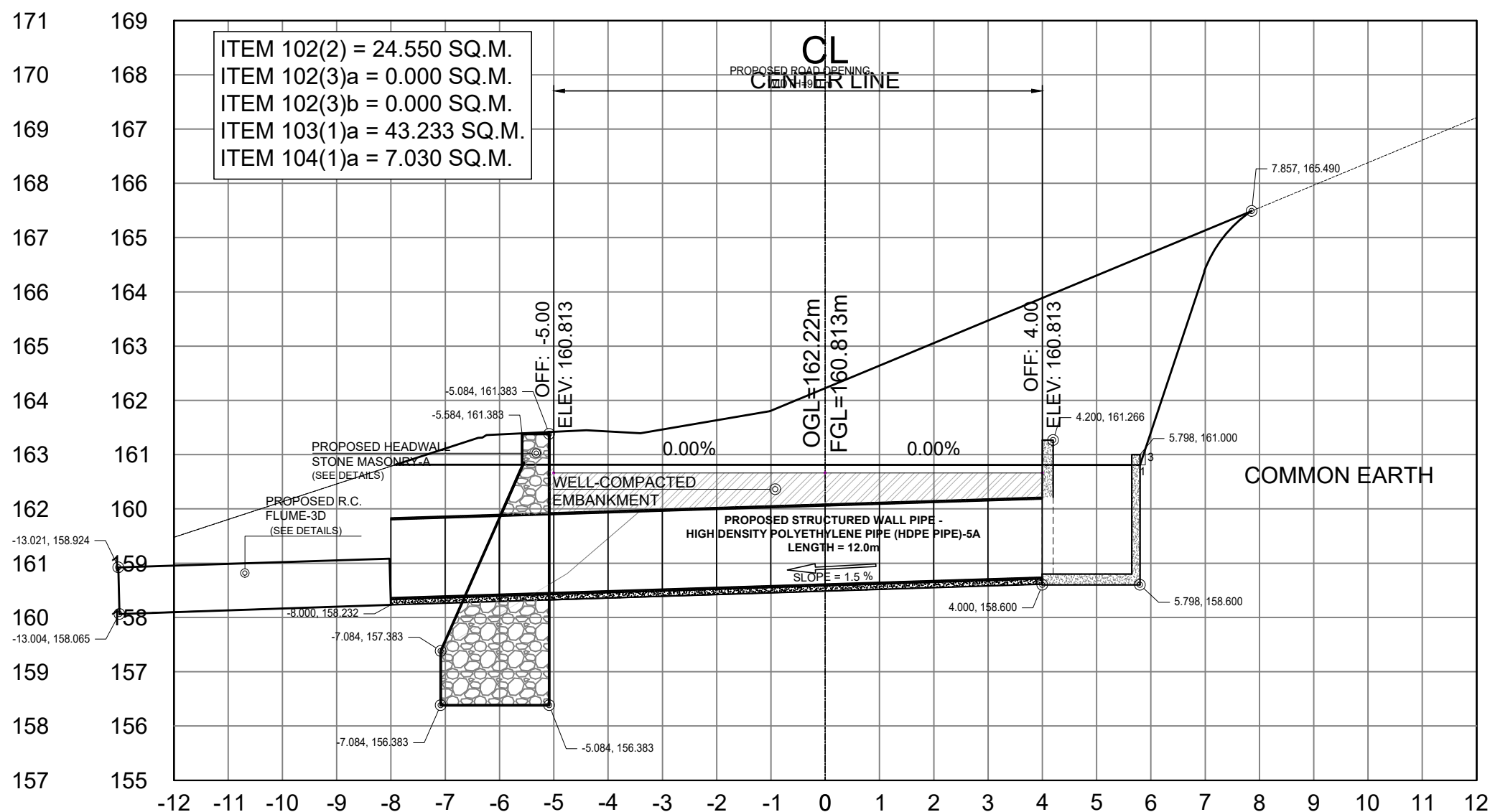
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

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PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

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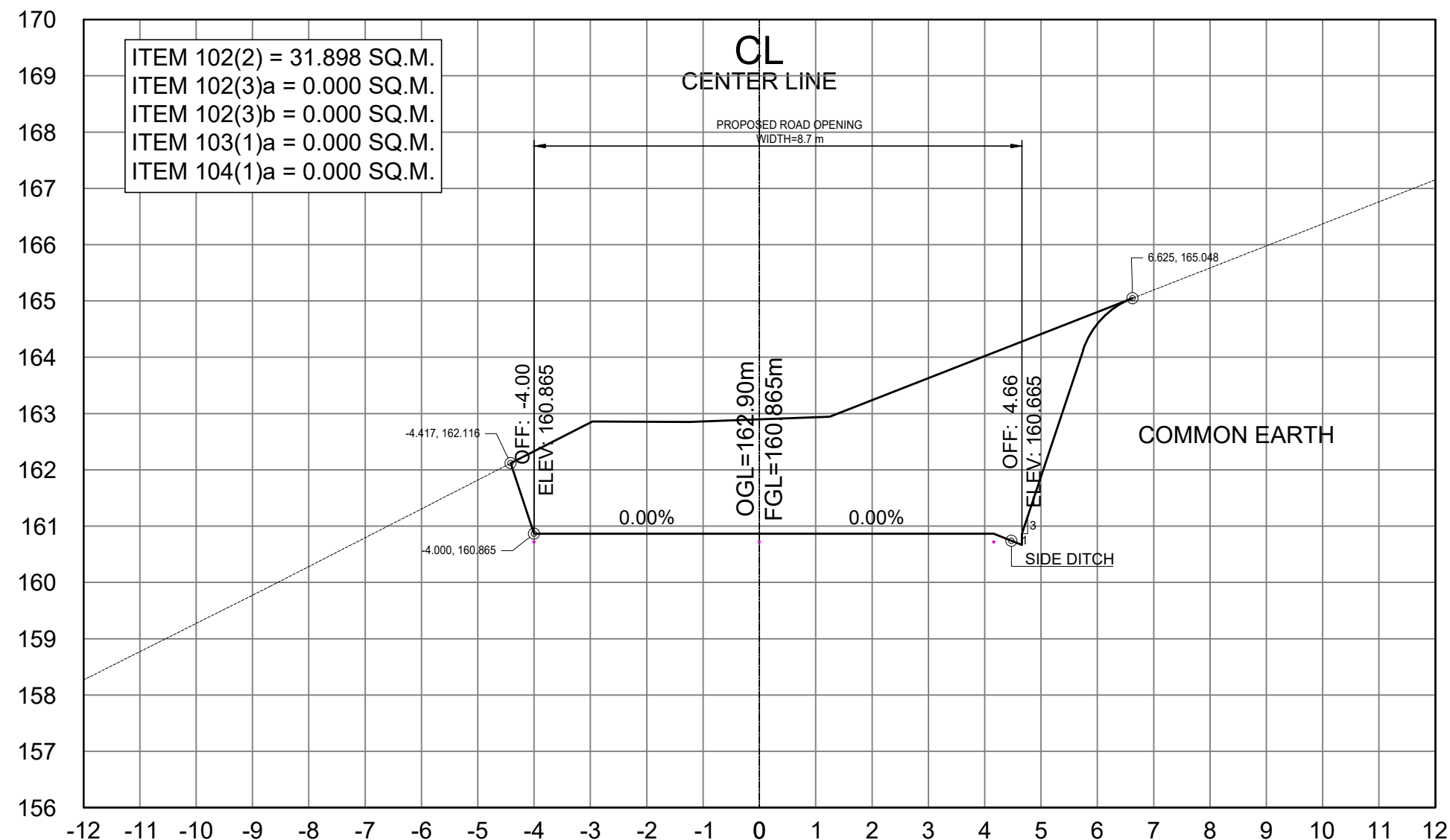
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

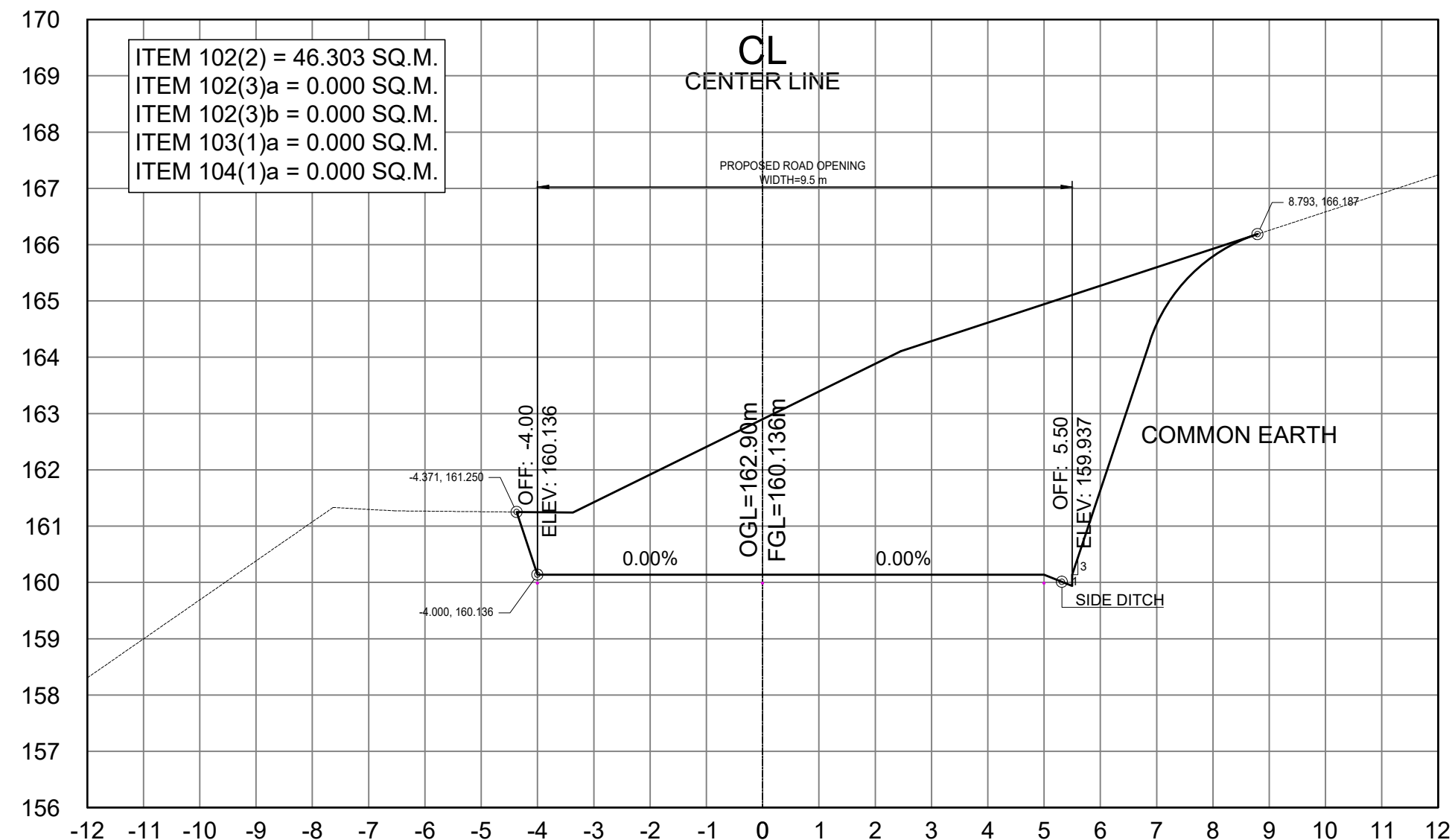
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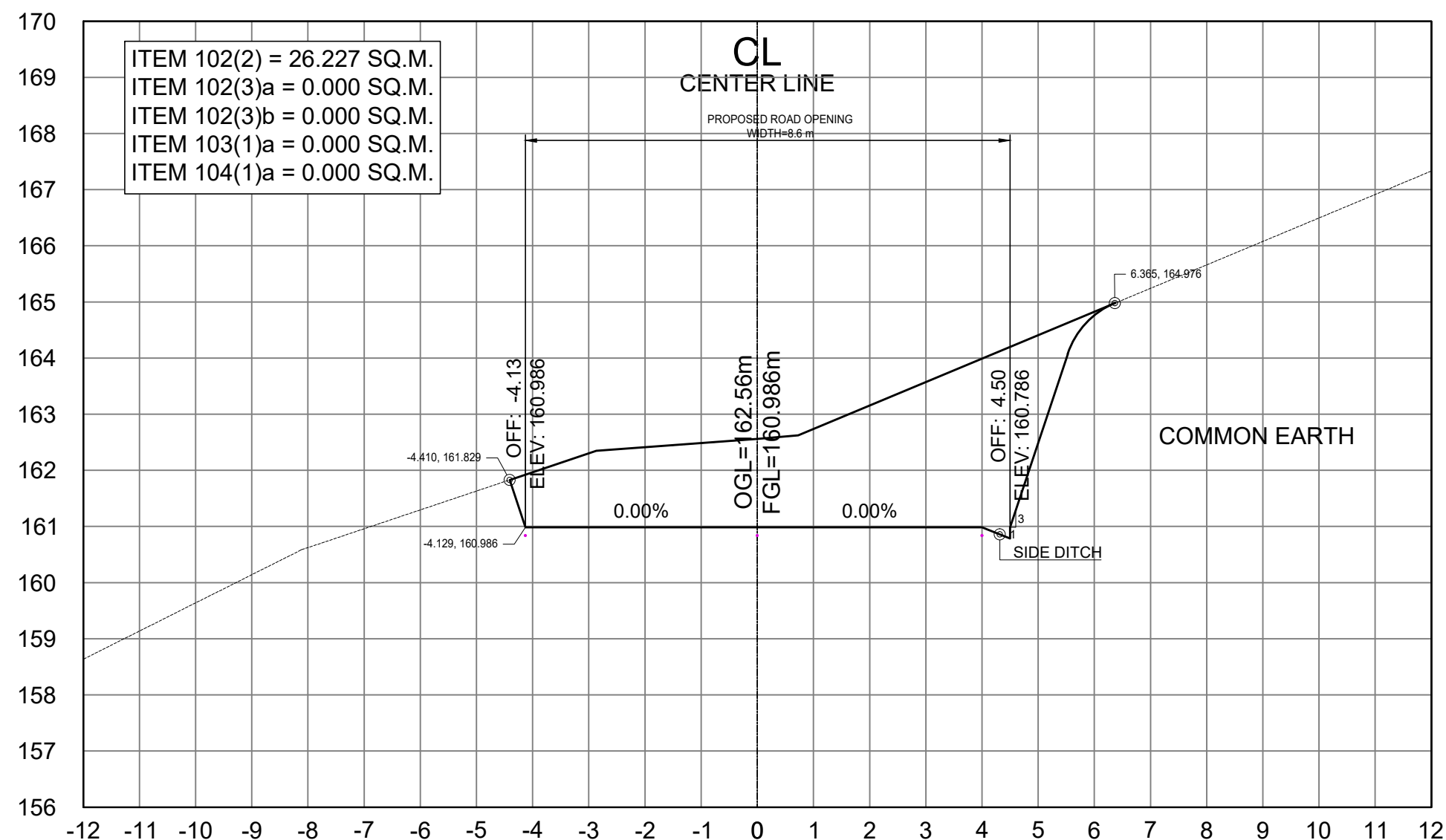
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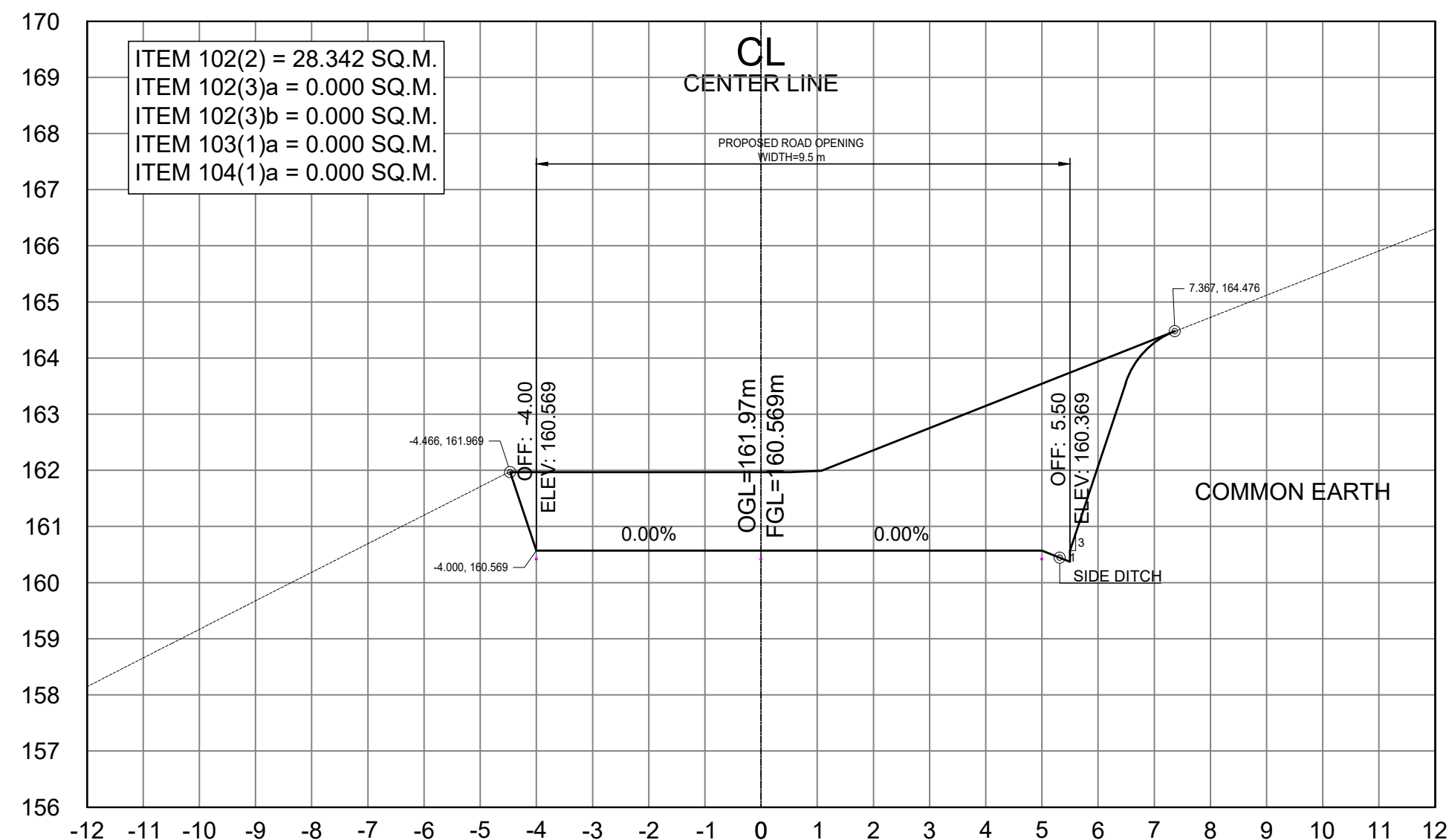
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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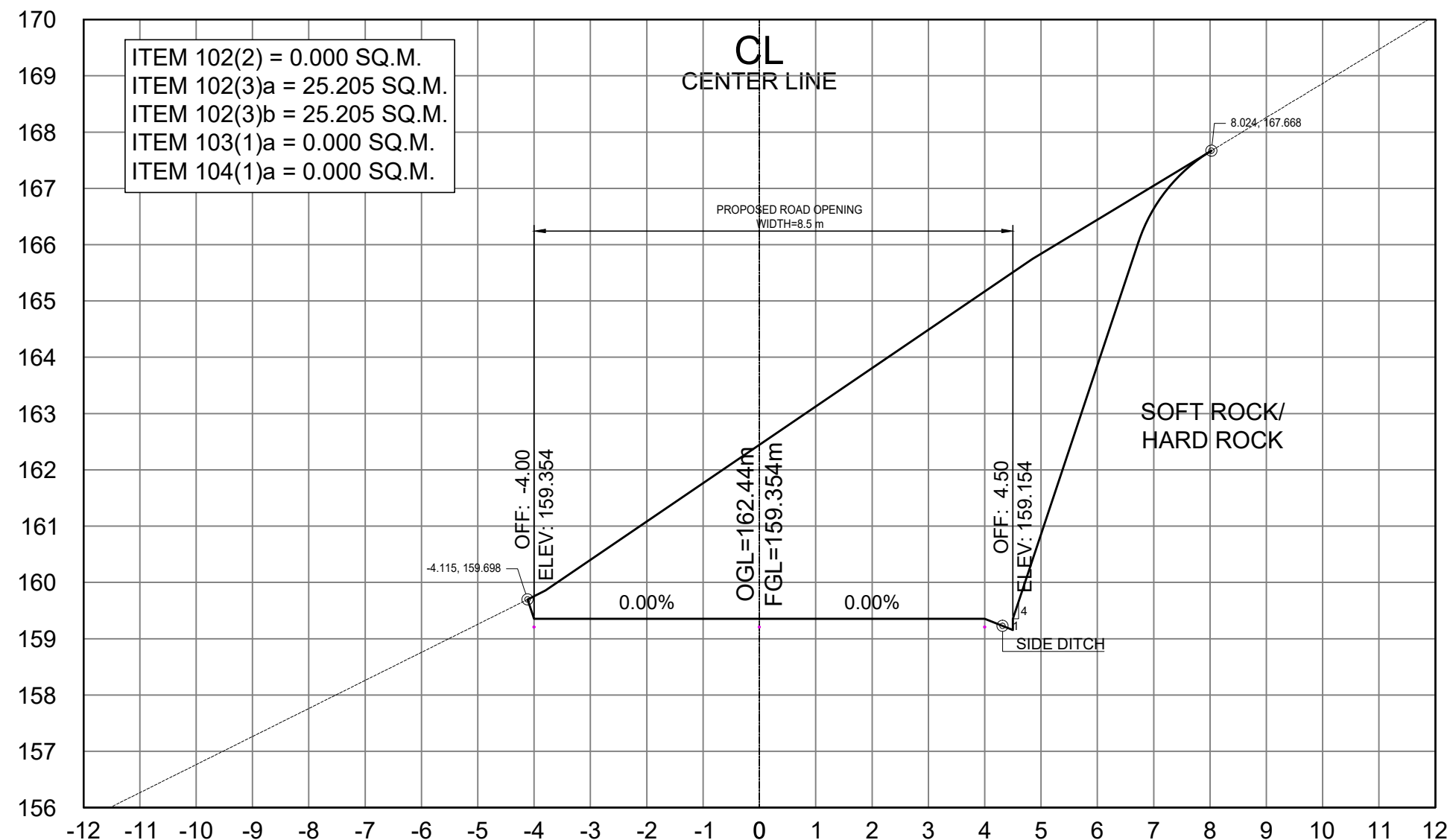
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

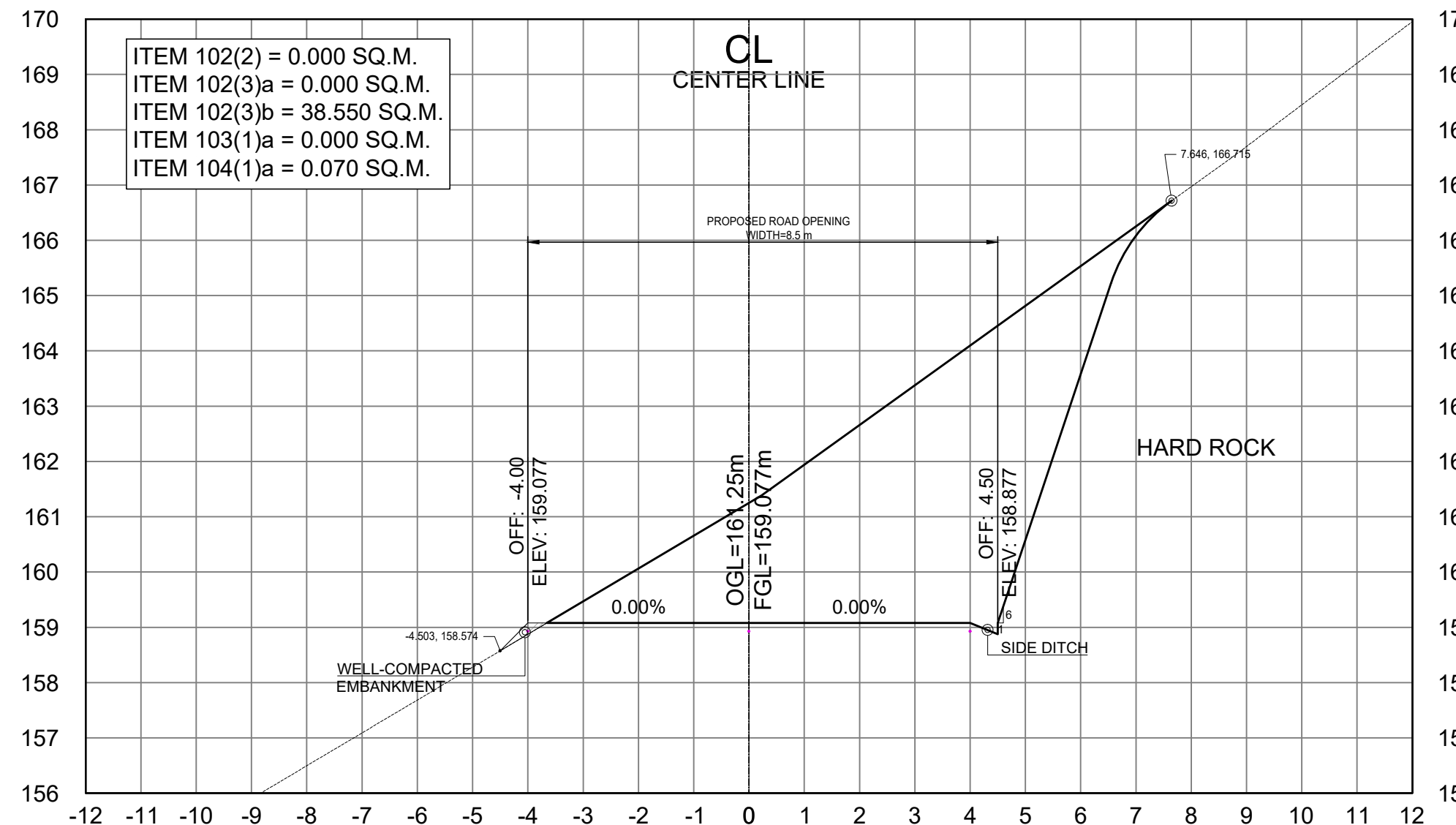
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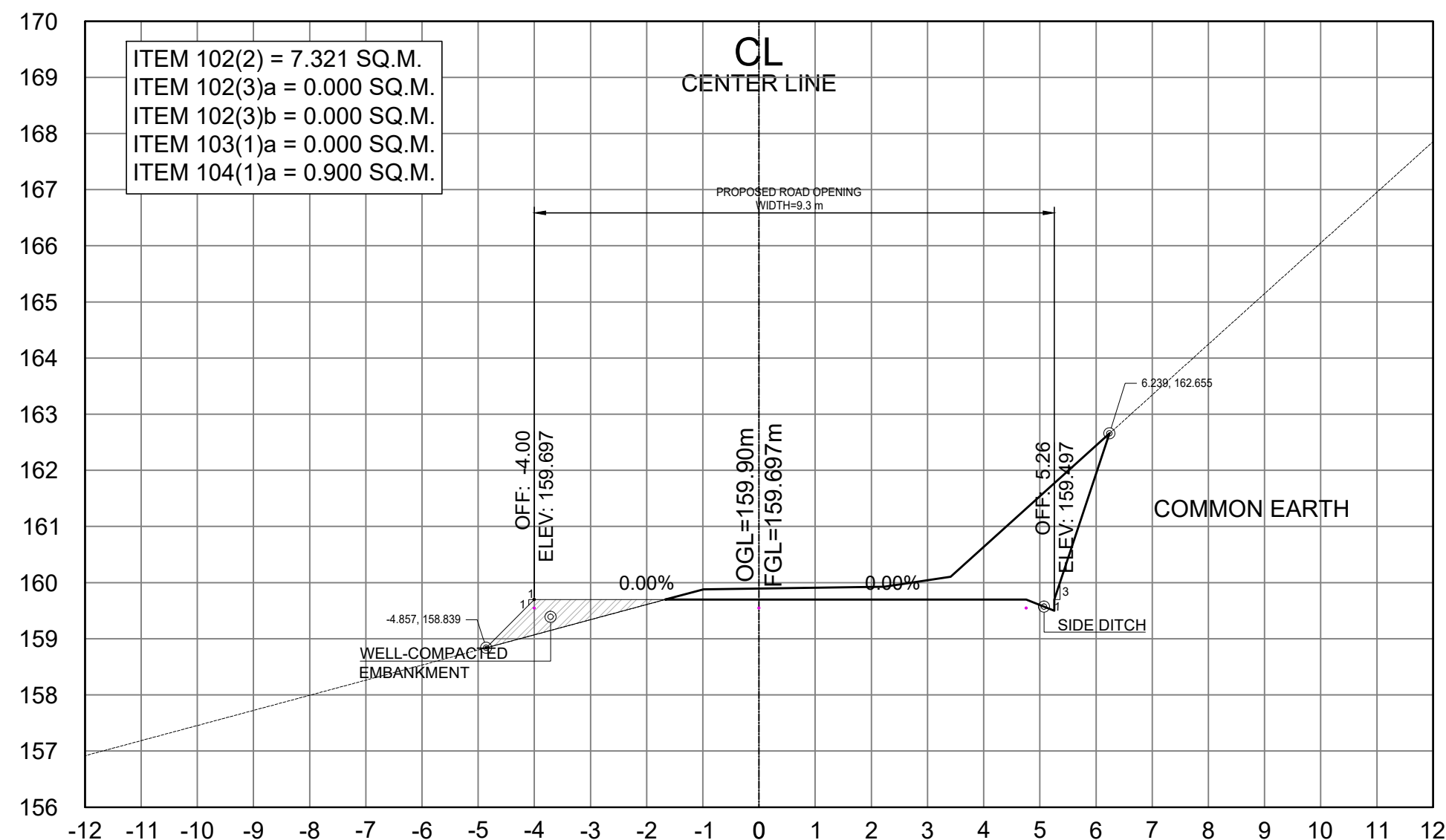
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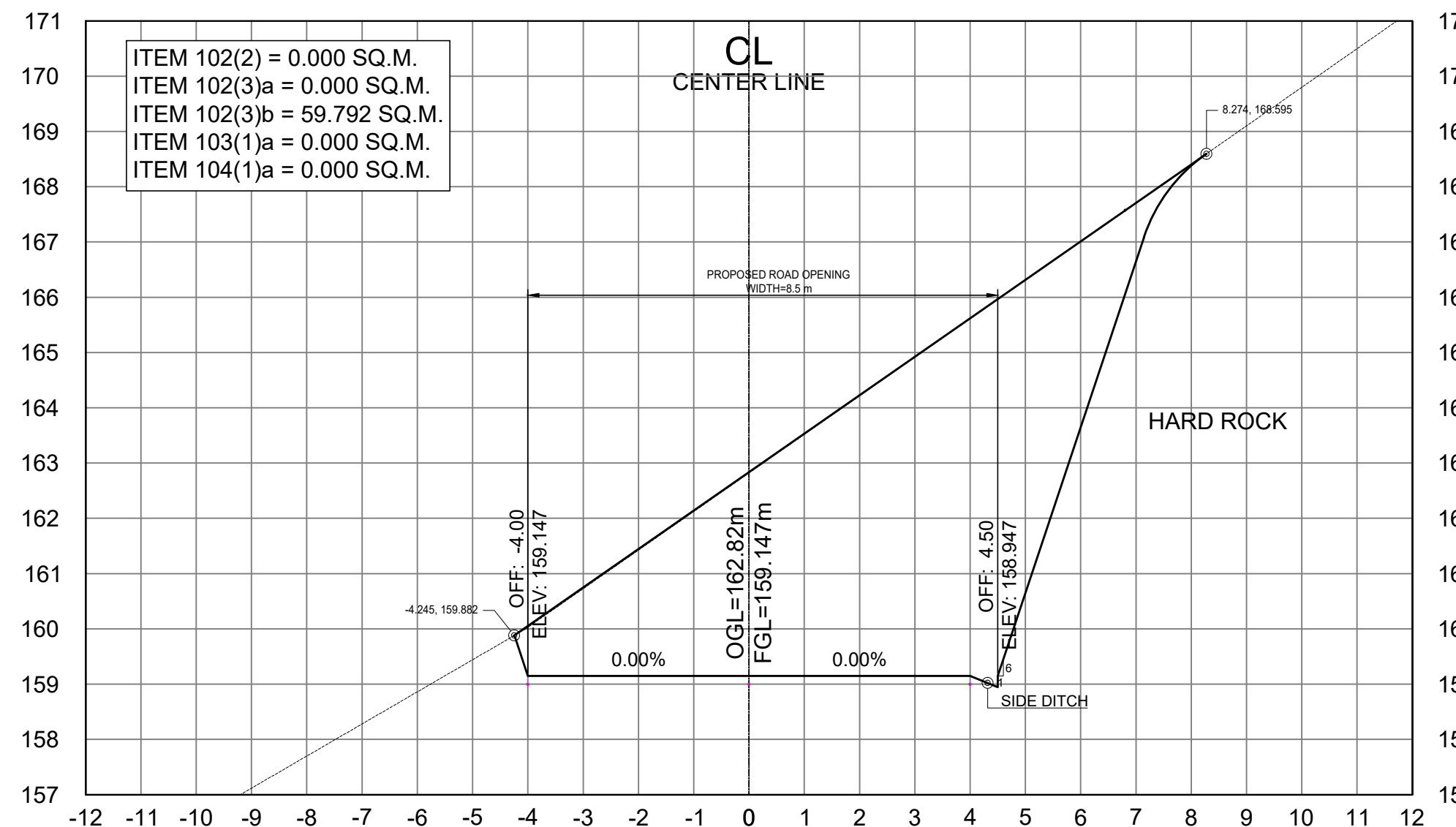
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SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

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TUBA, BENGUET

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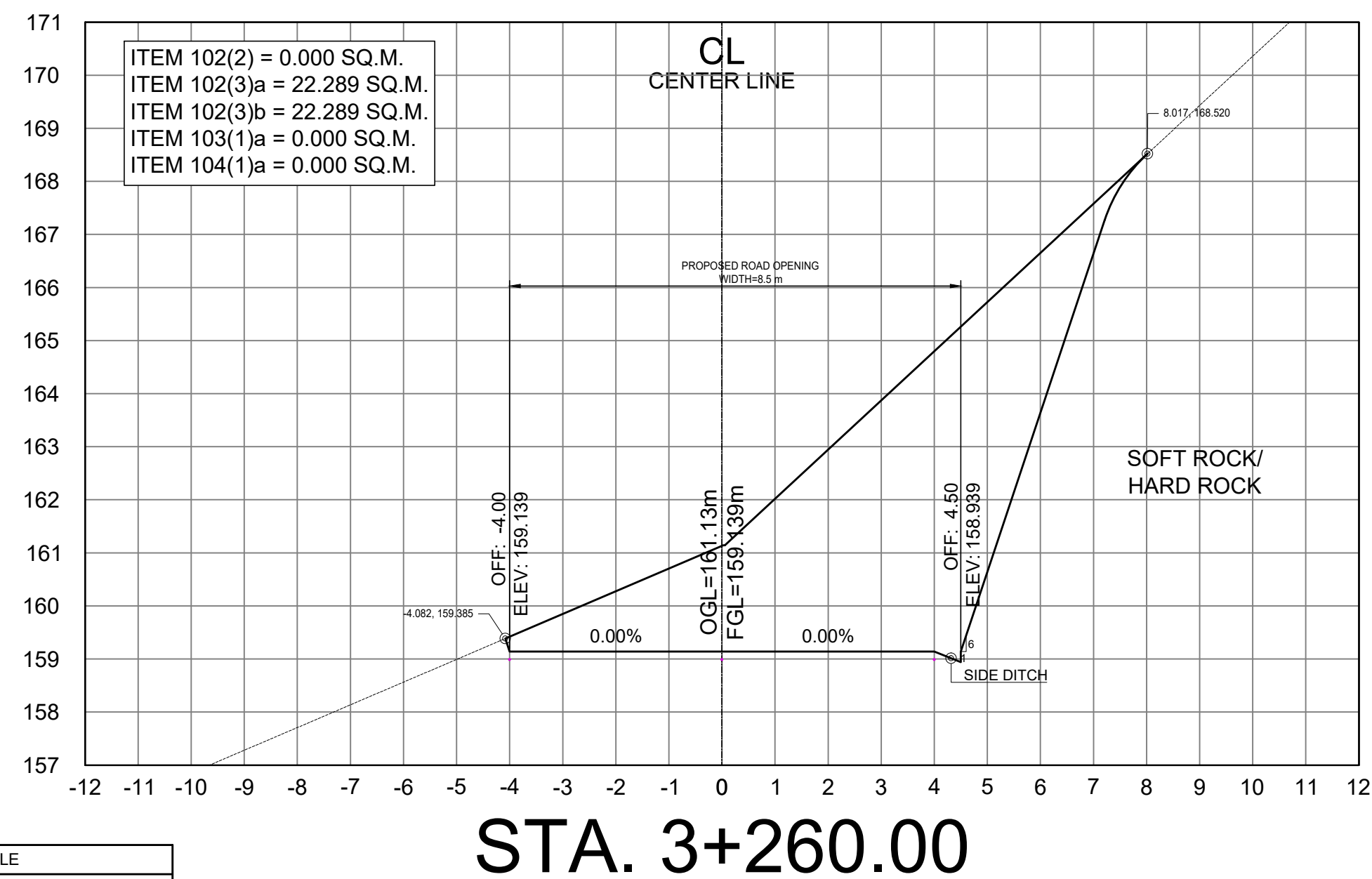
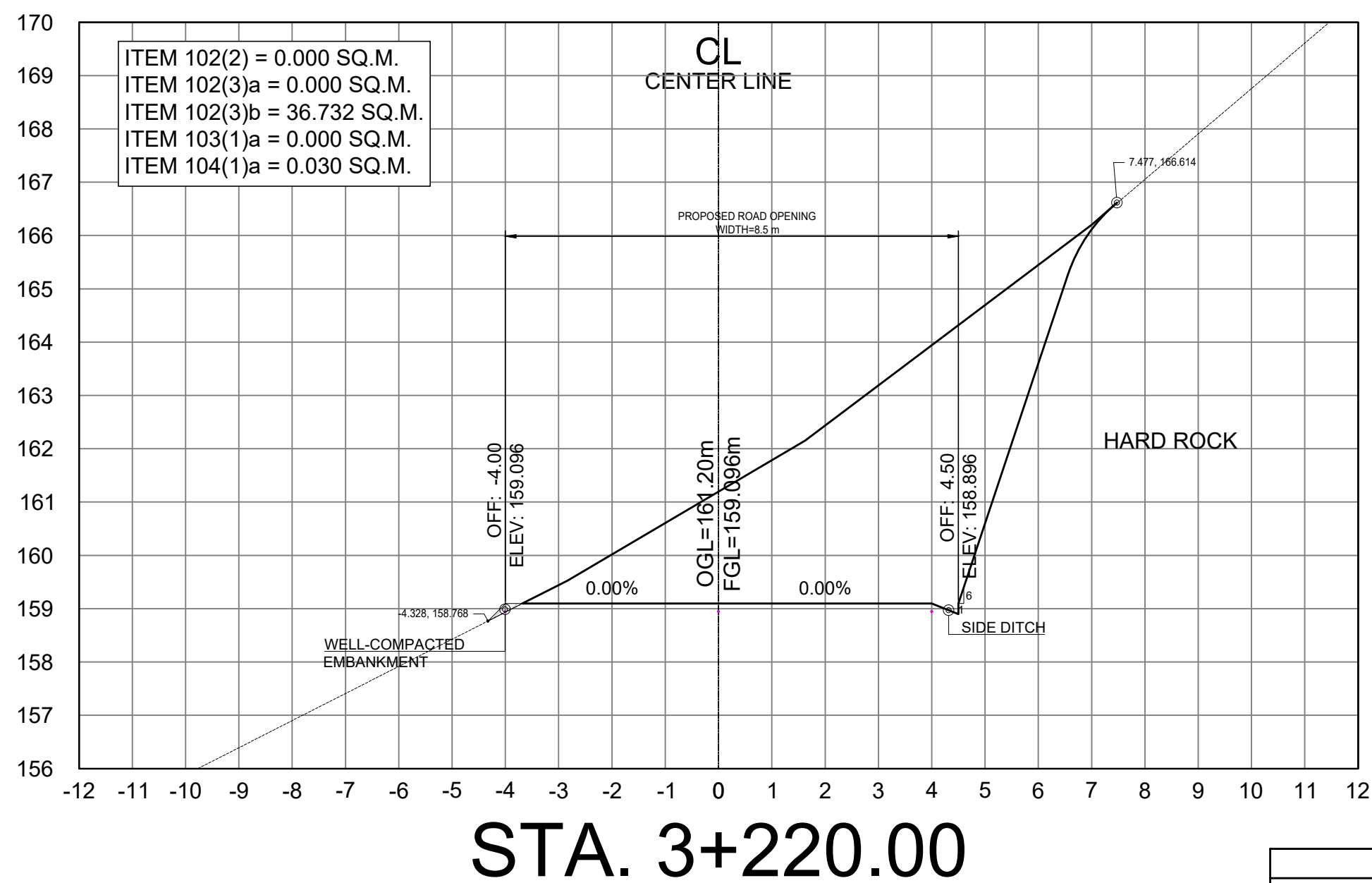
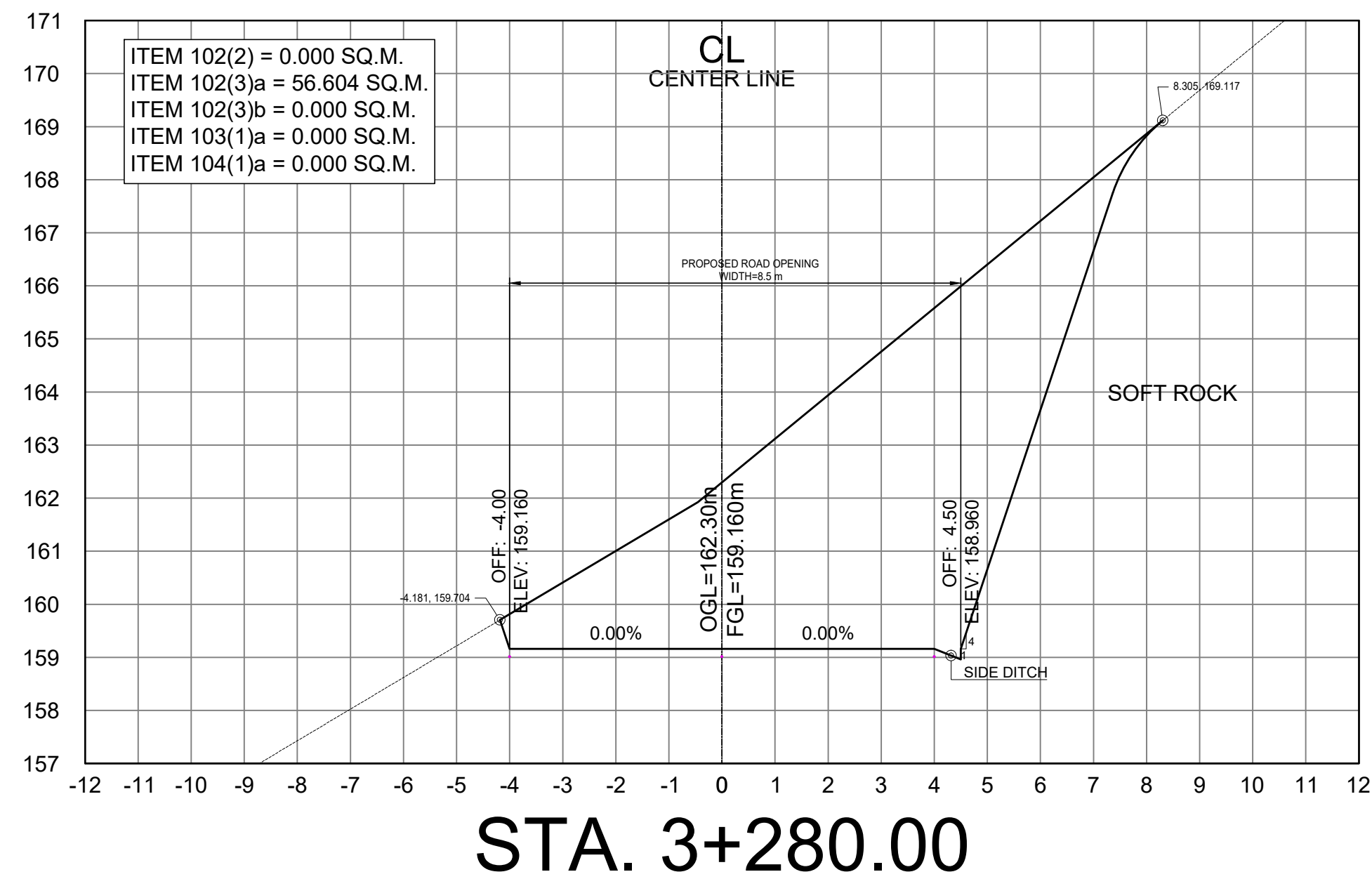
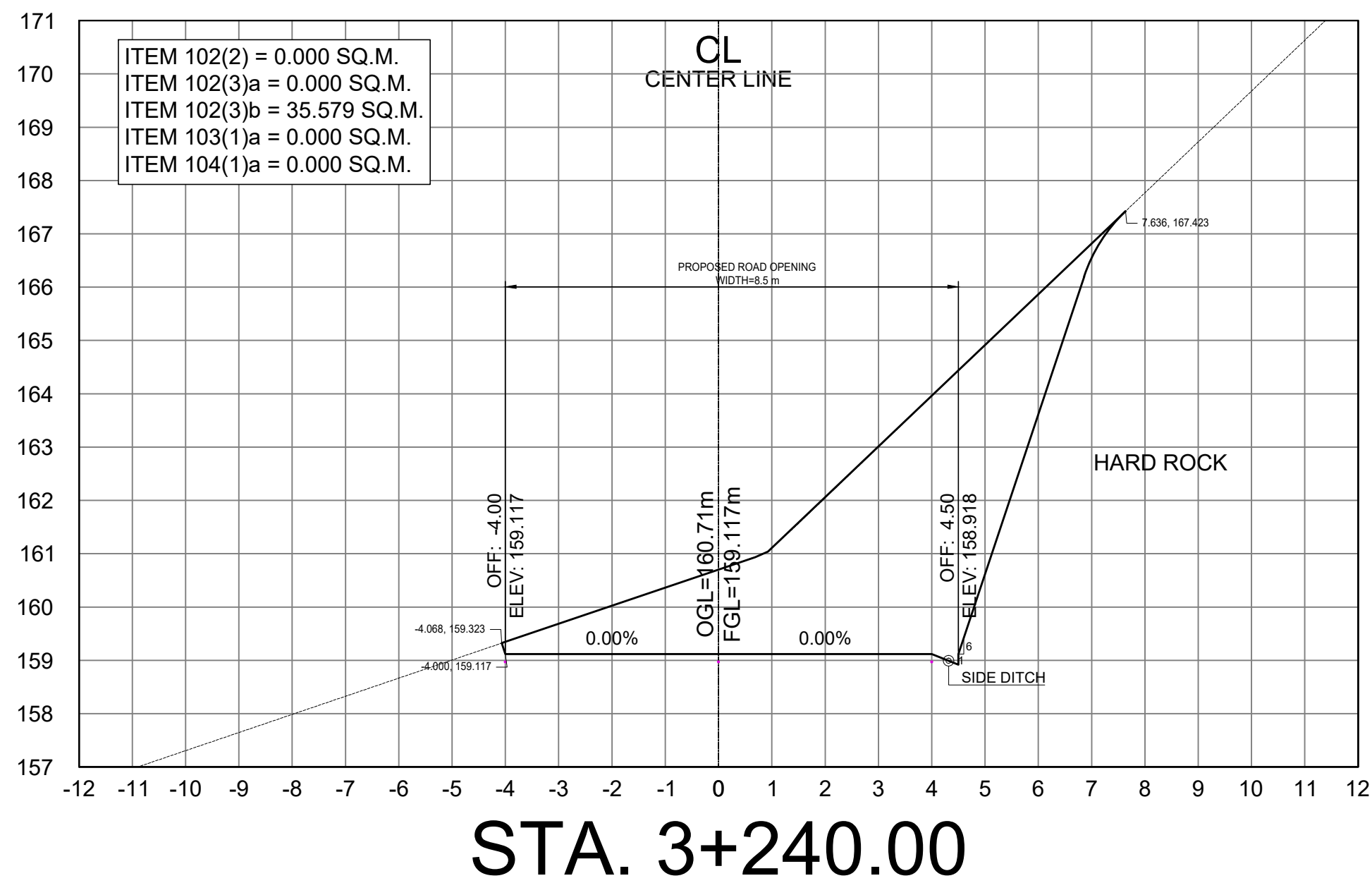
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

SET NO.

CROSS
SECTION
01 | 73

72
120



SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

SET NO.

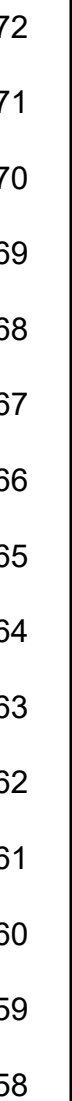
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SHEET NO.

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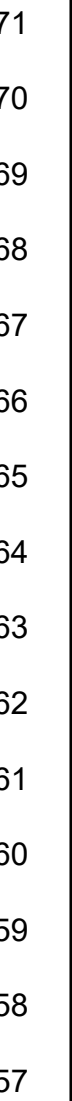
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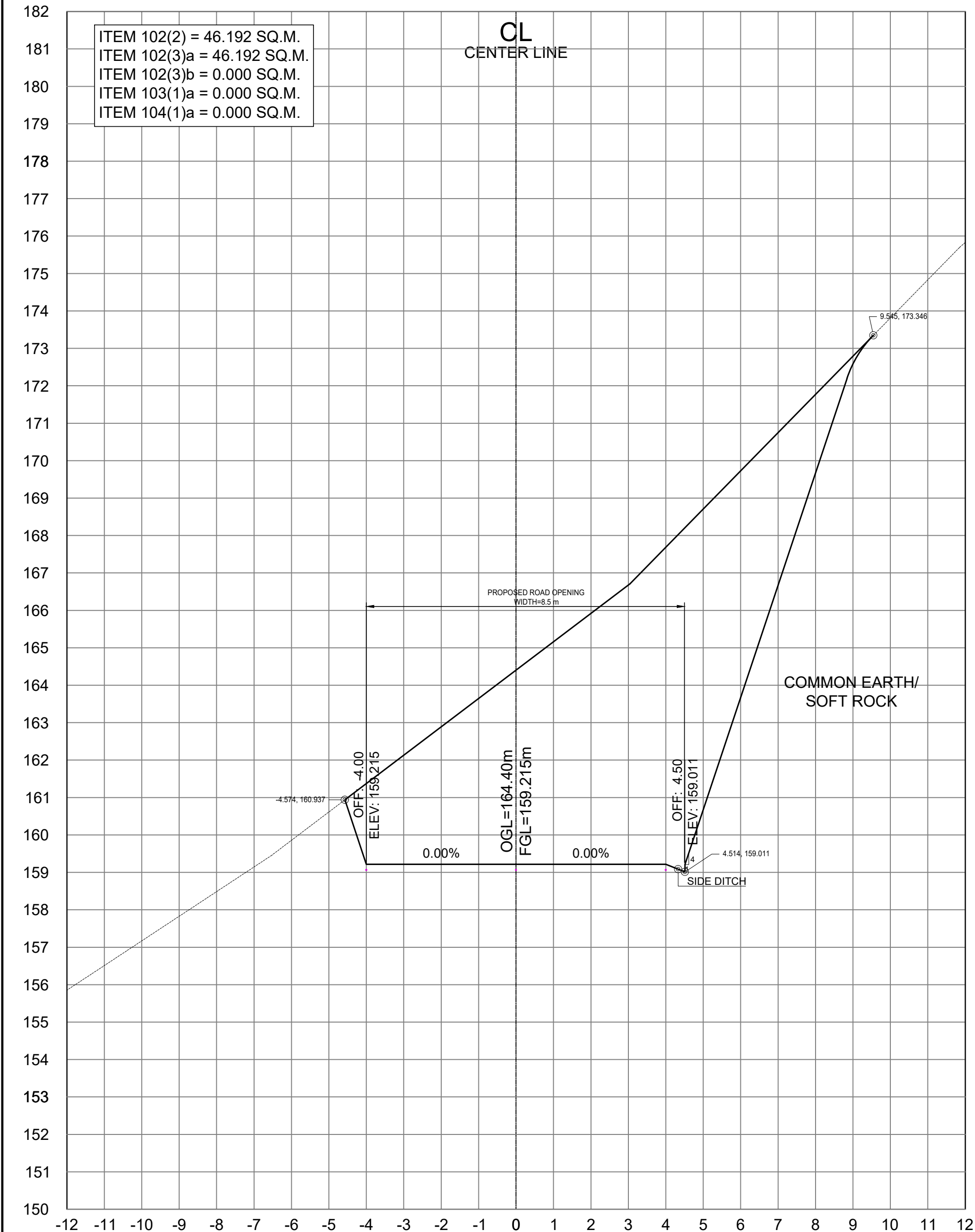


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MARK ANTHONY L. FERRER
ENGINEER II

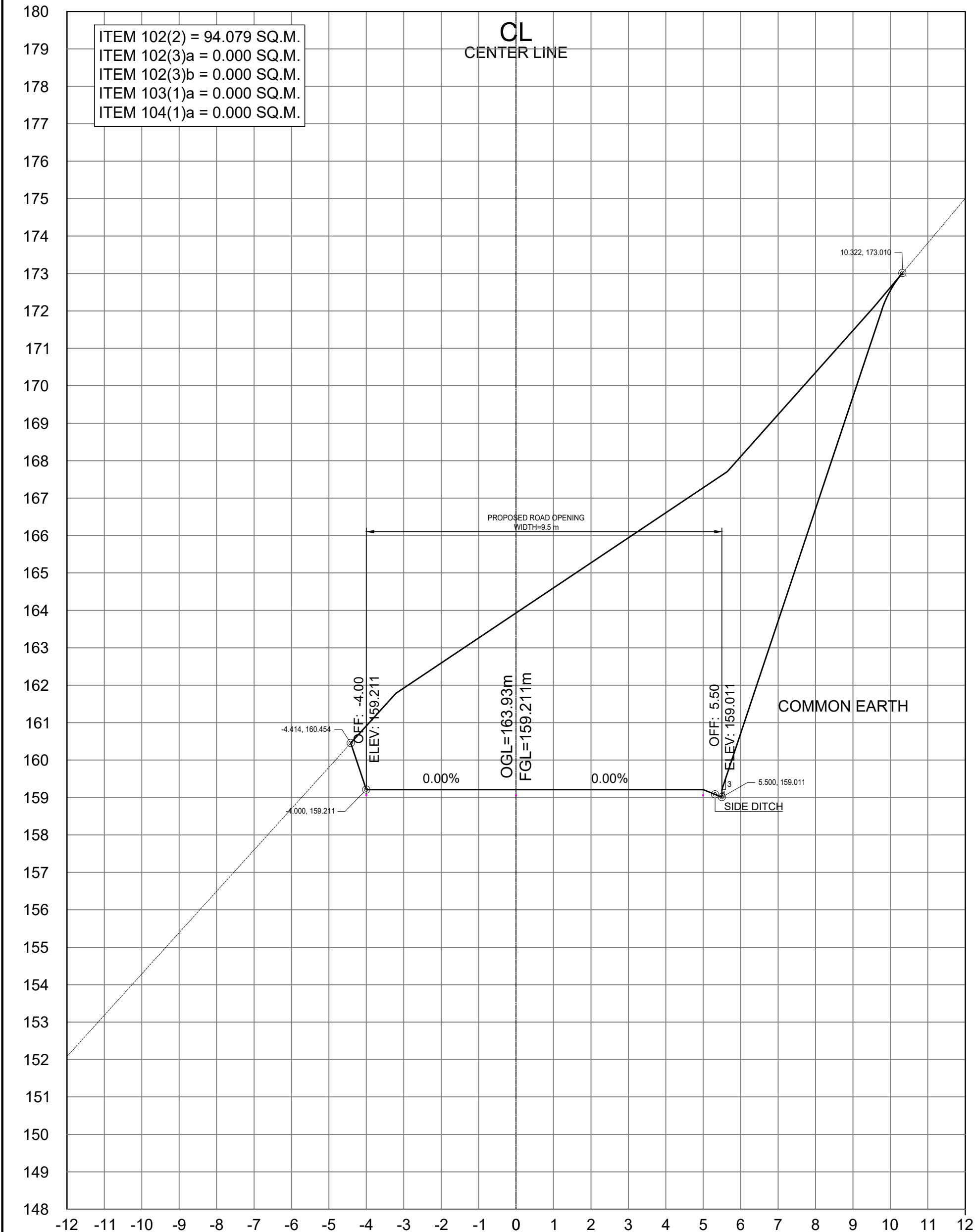
DEXTER G. BIALNO
ENGINEER II

REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
EDISON C. AMBALES ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE:	ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE:	ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE:	CROSS SECTION 73	74 120



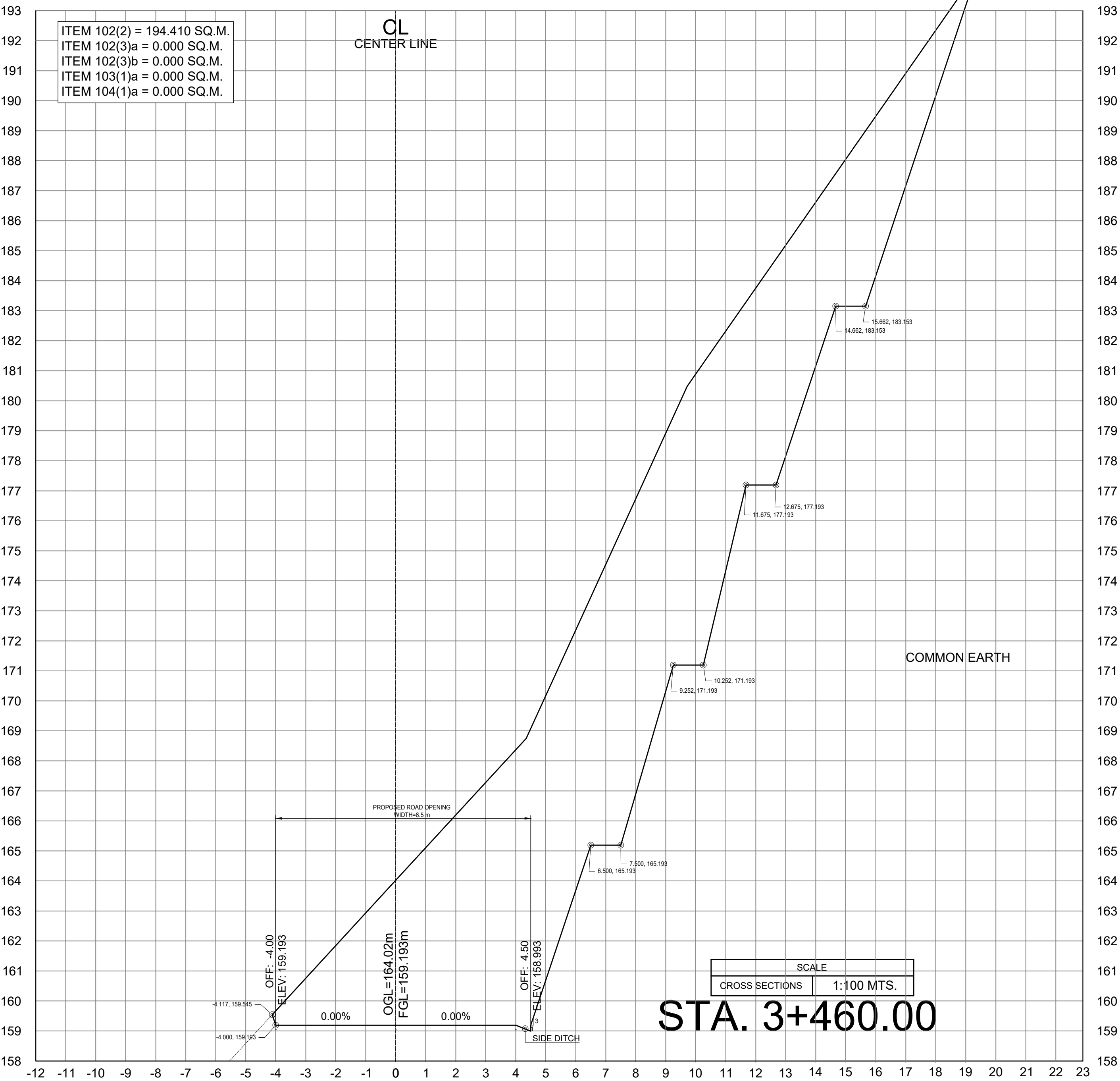
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	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1 ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	SHEET CONTENTS:	DRAFTED: MARK ANTHONY L. FERRER ENGINEER II PREPARED: DEXTER G. BIALNO ENGINEER II	REVIEWED: EDISON C. AMBALES ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE:	SUBMITTED: ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE:	SET NO. CROSS SECTION 01 73	SHEET NO. 75 120



SCALE	
CROSS SECTIONS	1:100 MTS.

	REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1 ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	SHEET CONTENTS:	DRAFTED: MARK ANTHONY L. FERRER ENGINEER II PREPARED: DEXTER G. BIALNO ENGINEER II	REVIEWED: EDISON C. AMBALES ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE:	SUBMITTED: ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE:	SET NO. CROSS SECTION 01 73	SHEET NO. 76 120
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**
TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:
MARK ANTHONY L. FERRER
ENGINEER II
PREPARED:
DEXTER G. BIALNO
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

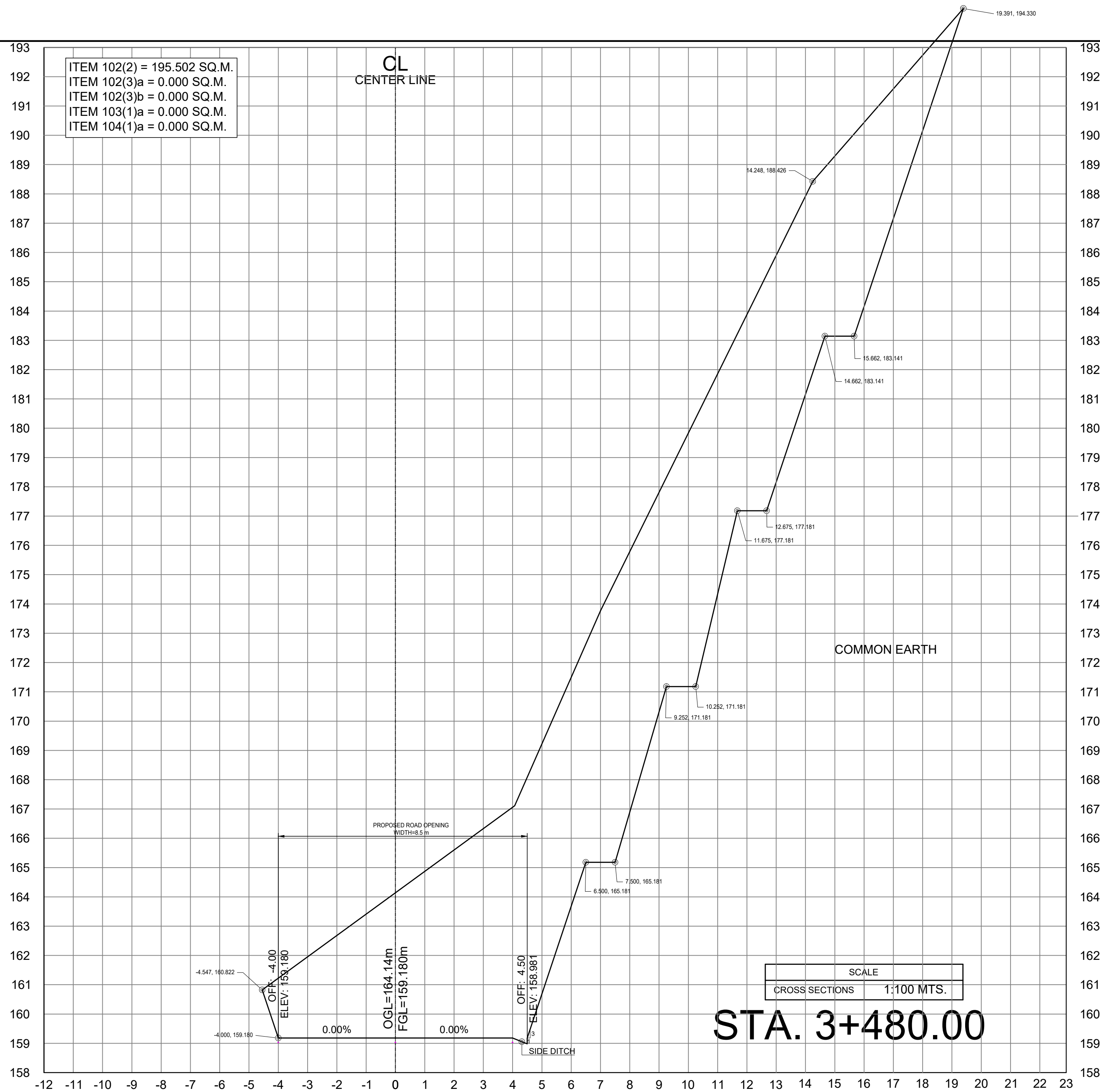
SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

CROSS
SECTION
01 73

77
120



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

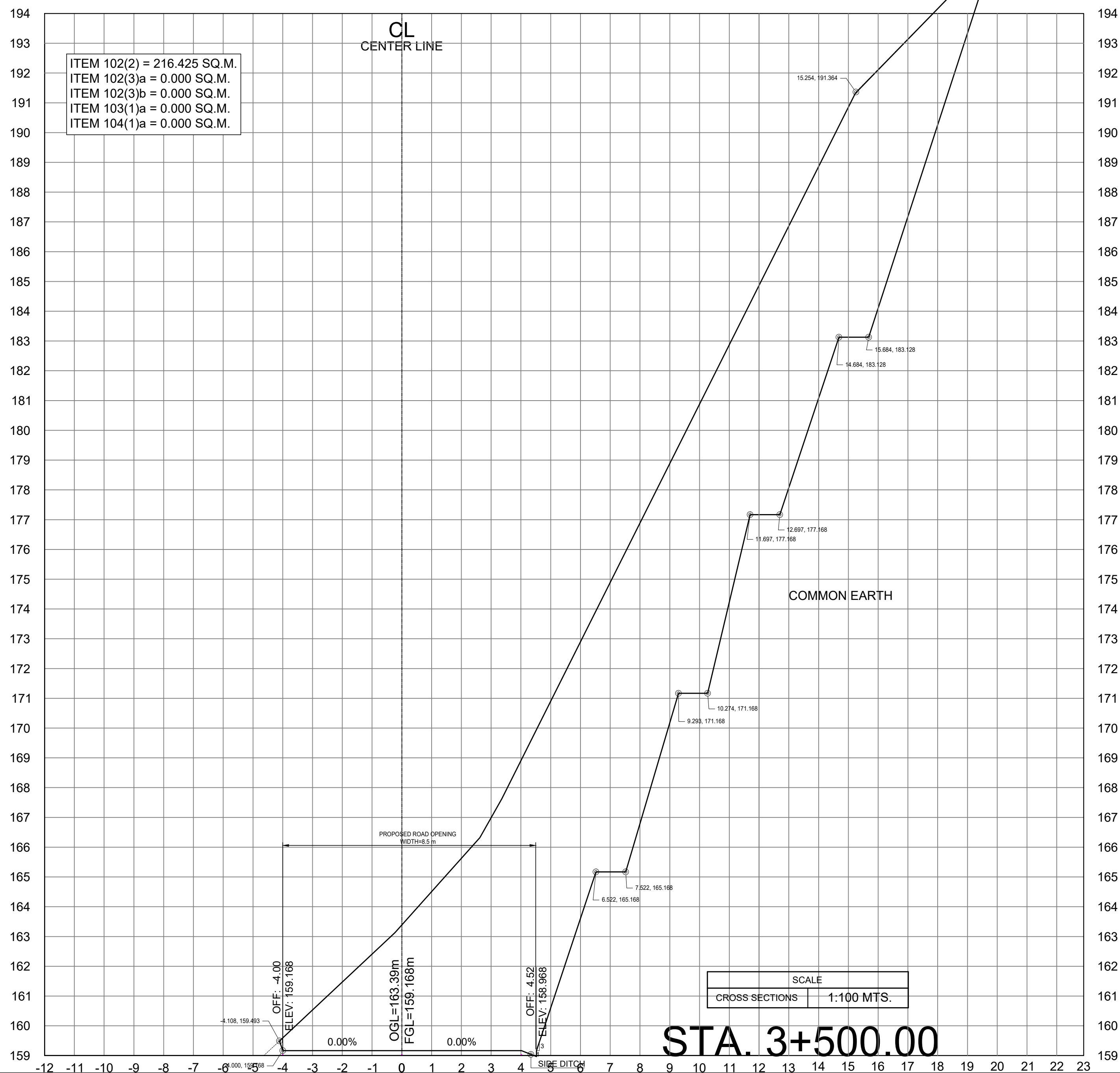
DATE:

SET NO.

CROSS
SECTION
01 | 73

SHEET NO.

78
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

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EDISON C. AMBALES
ASSISTANT CHIEF
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EDGARDO G. ENRIQUEZ
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DATE:

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ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

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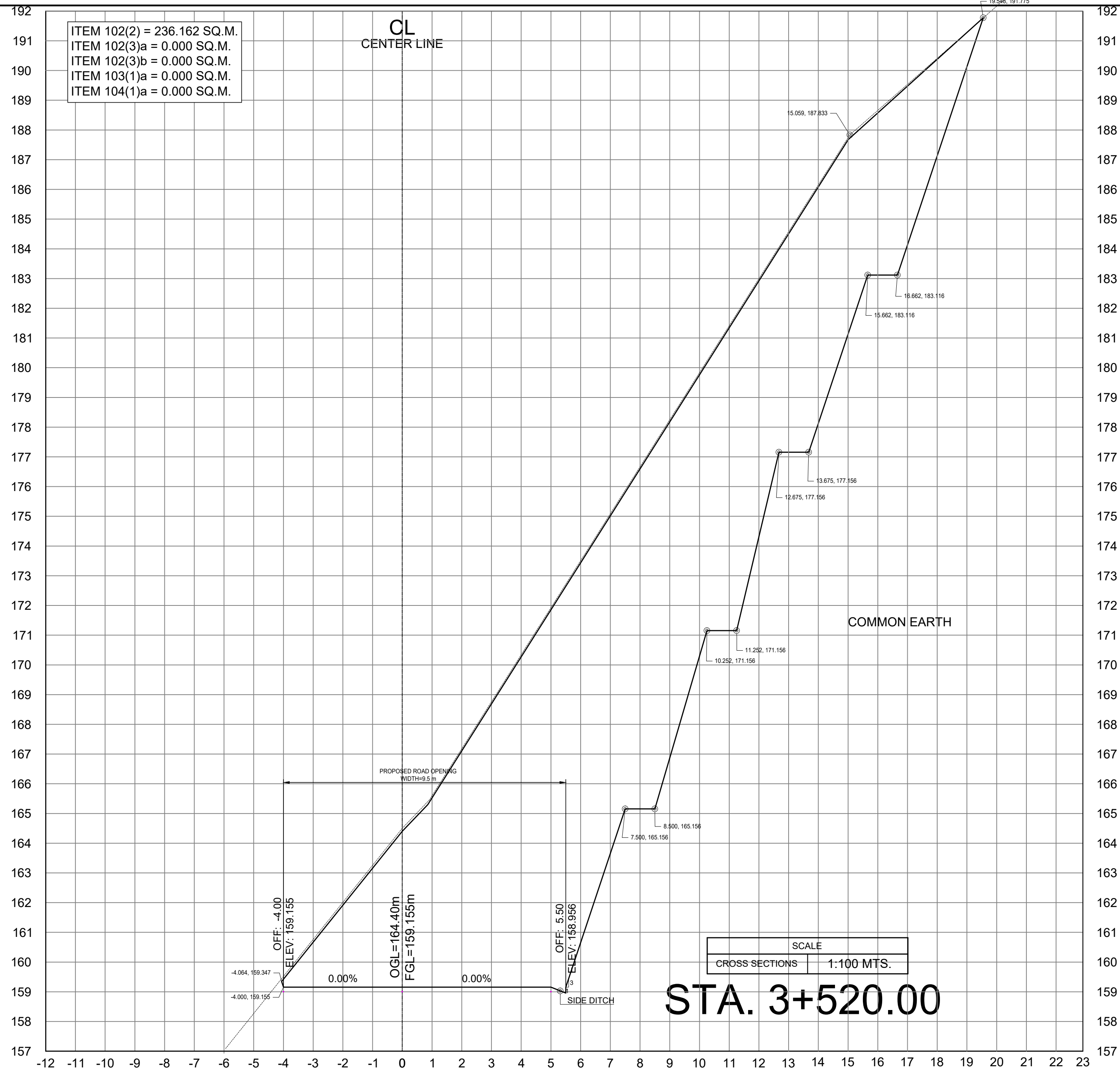
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SECTION
01 | 73

SHEET NO.

79

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

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MARK ANTHONY L. FERRER
ENGINEER II

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ASSISTANT DISTRICT ENGINEER

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ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

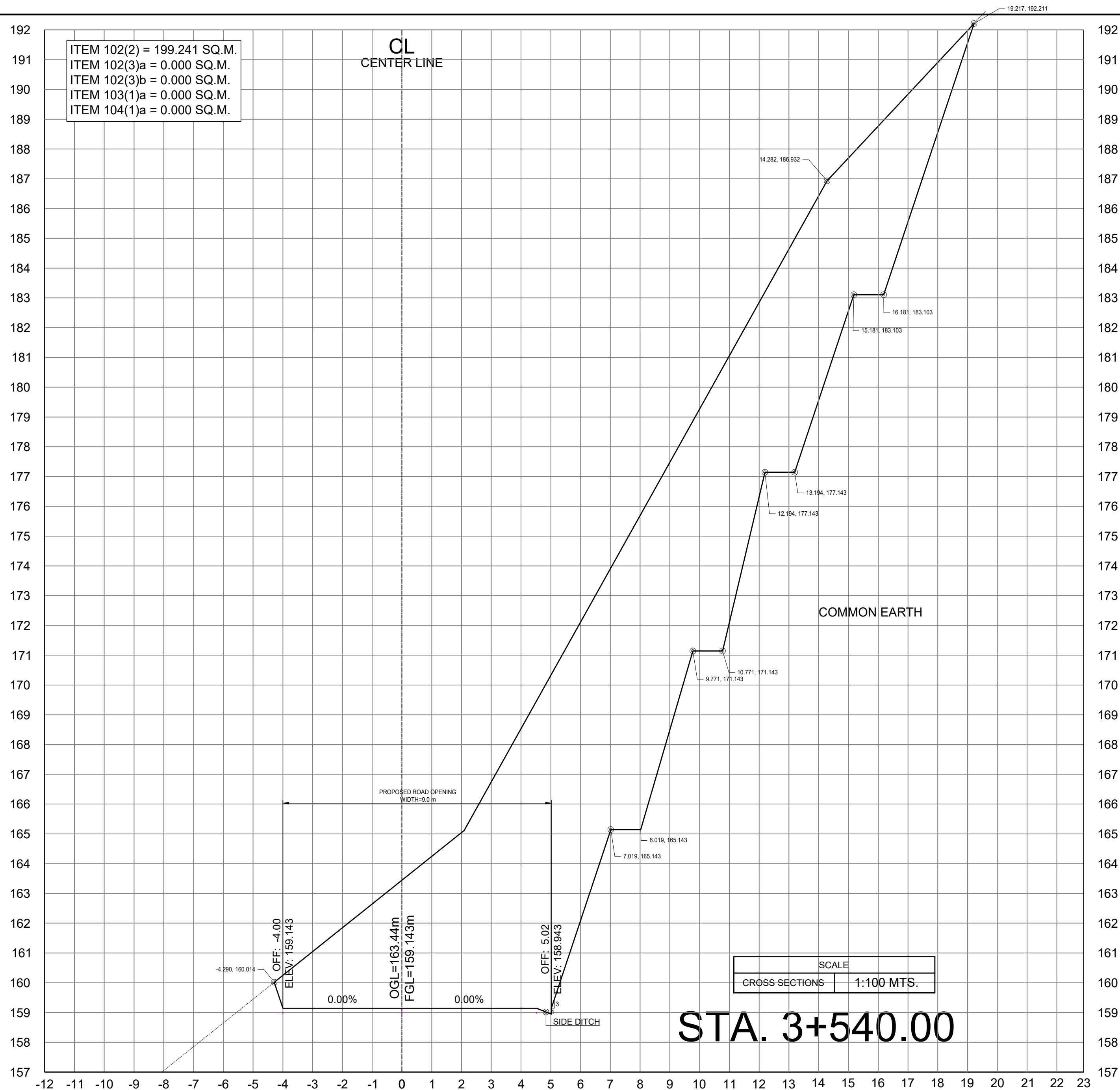
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SECTION
01 73

SHEET NO.

80
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

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PALAKPAK - LUMES - APNE, BARANGAY SAN
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TUBA, BENGUET

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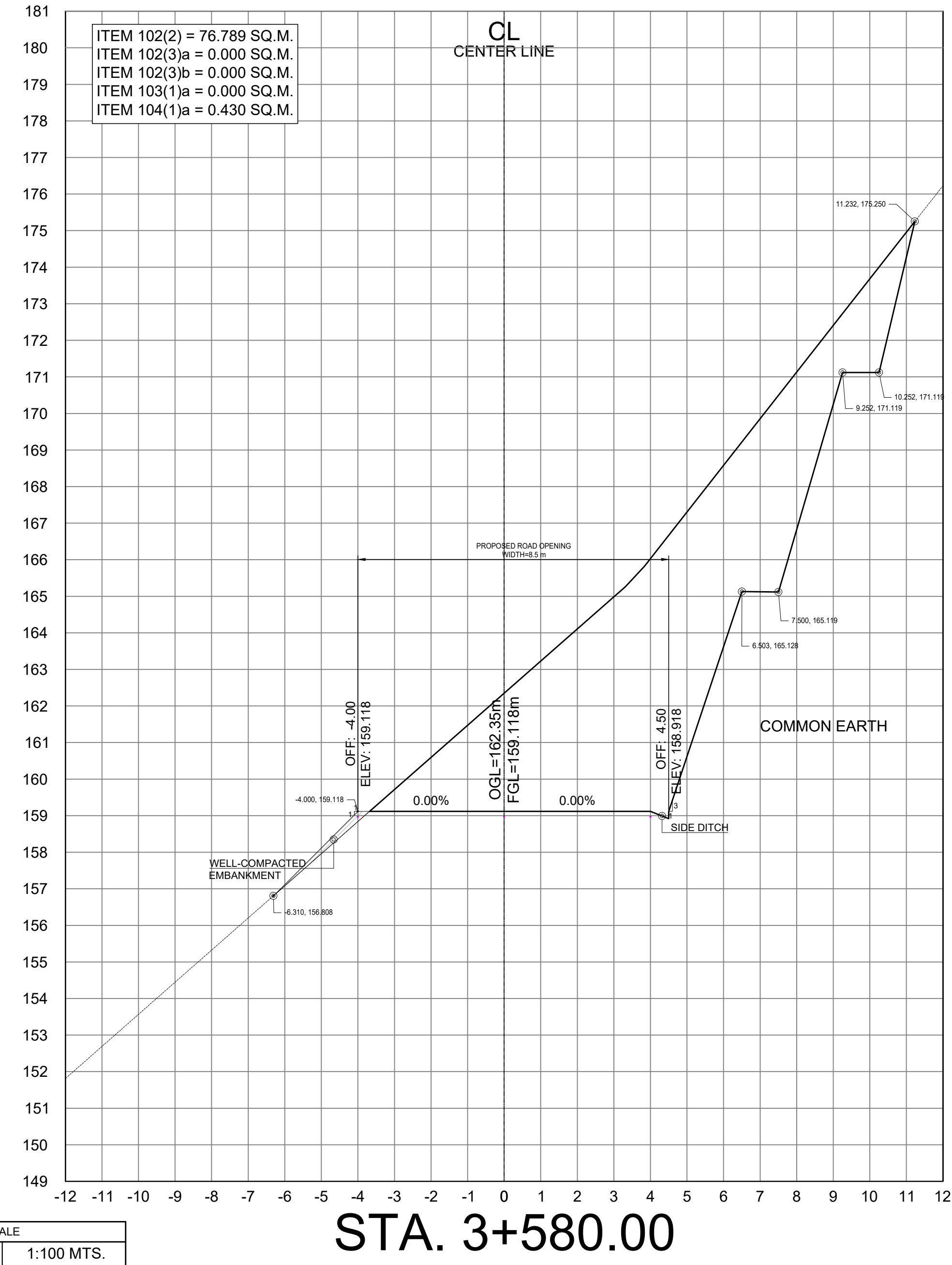
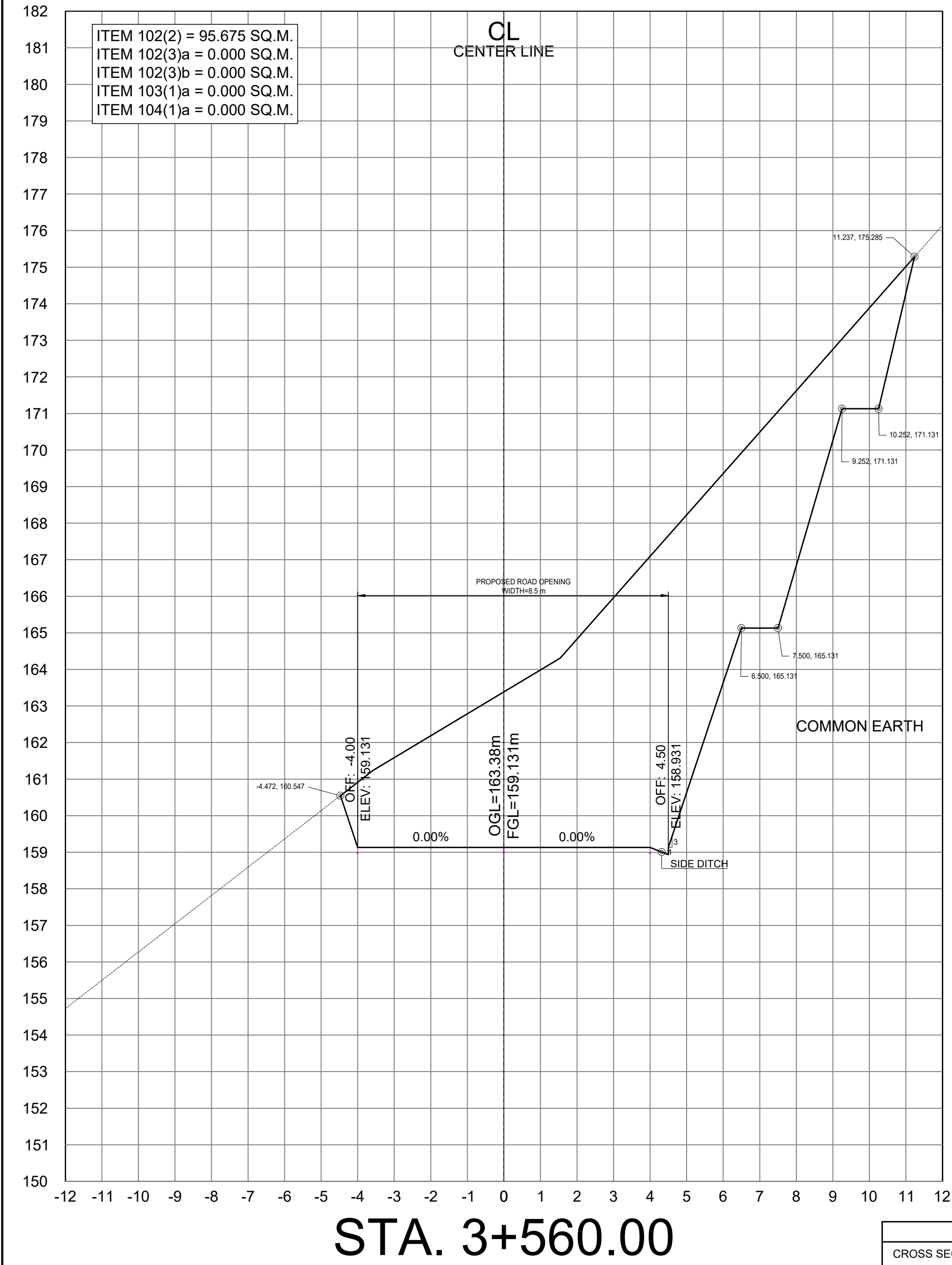
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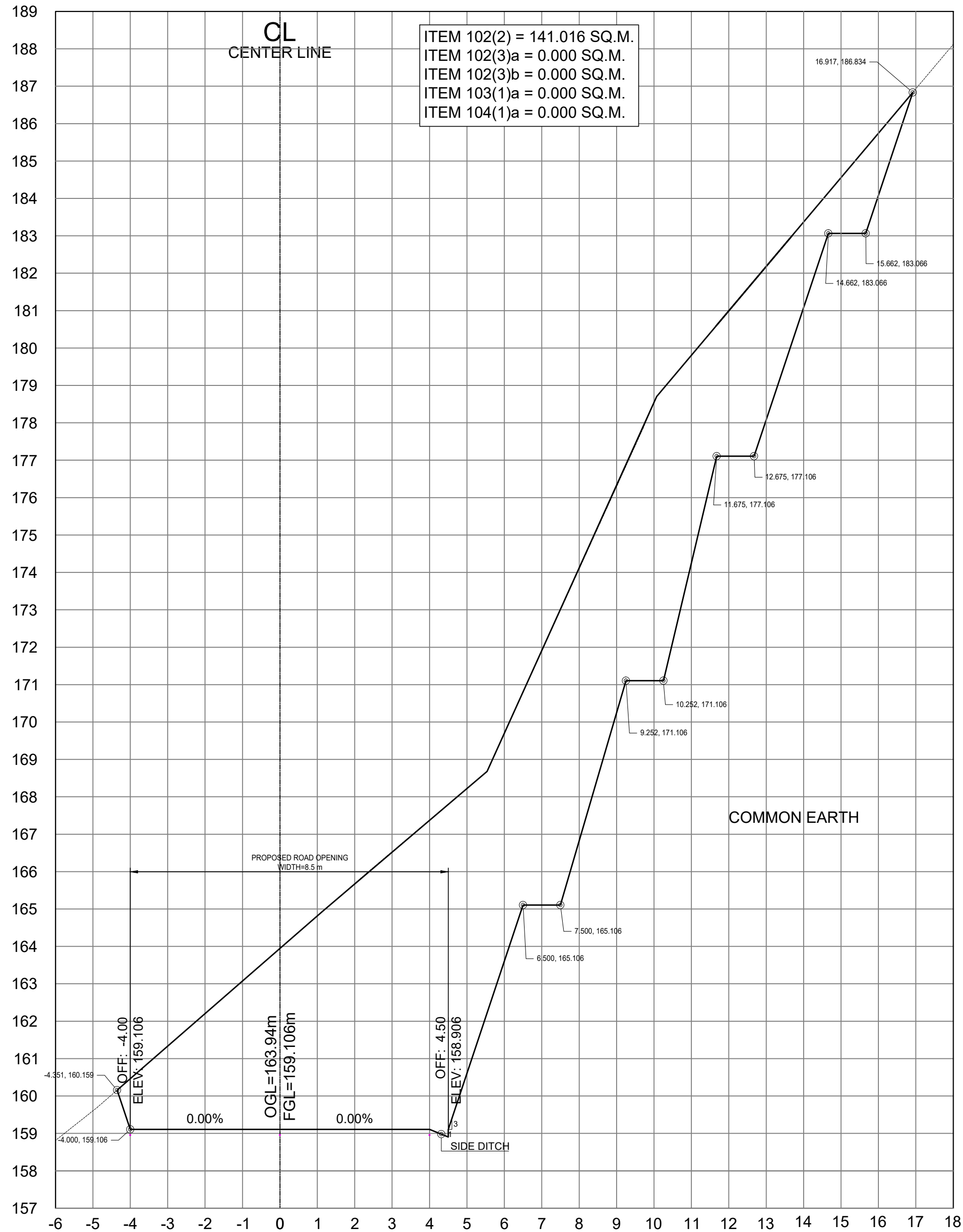
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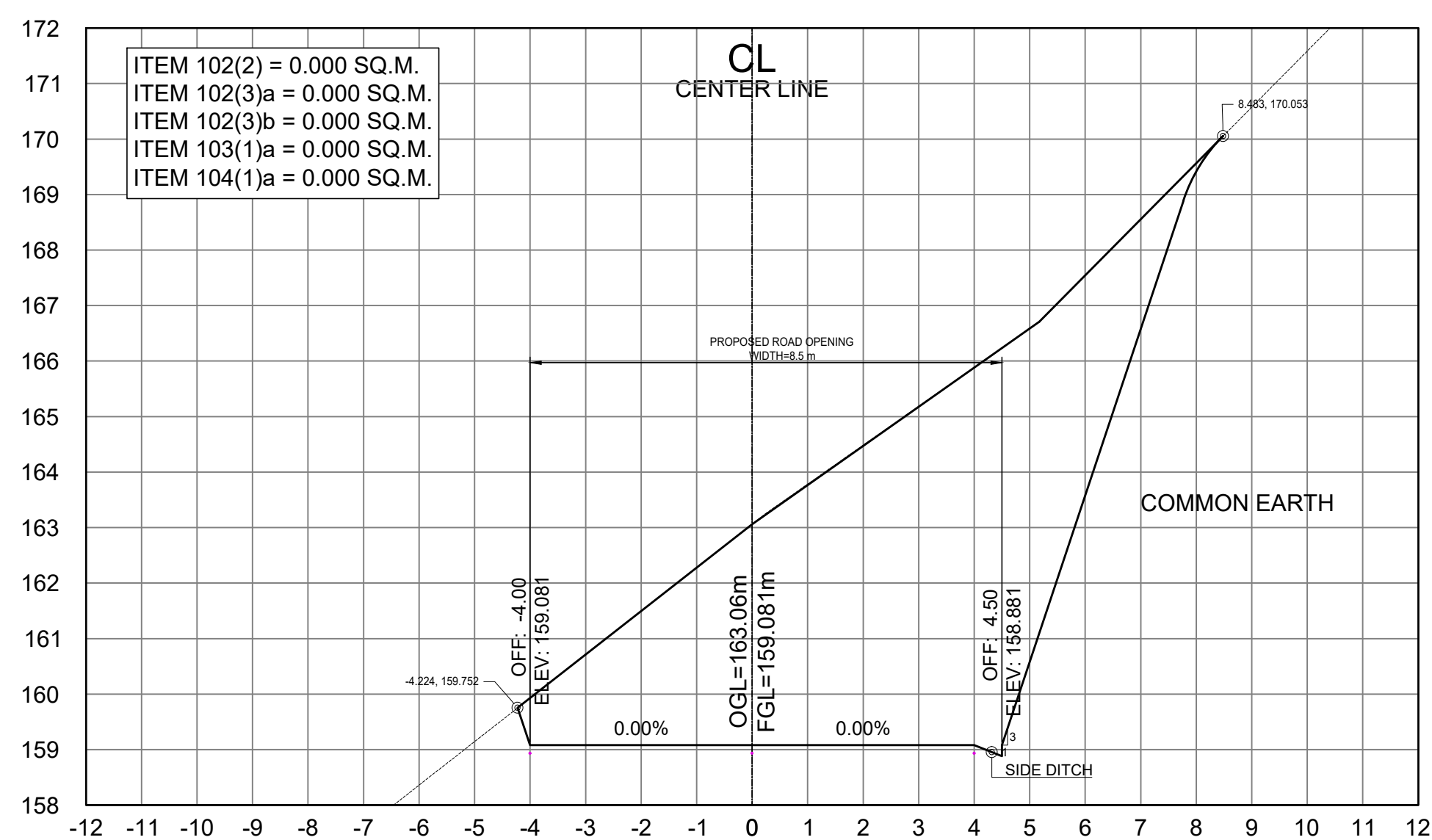
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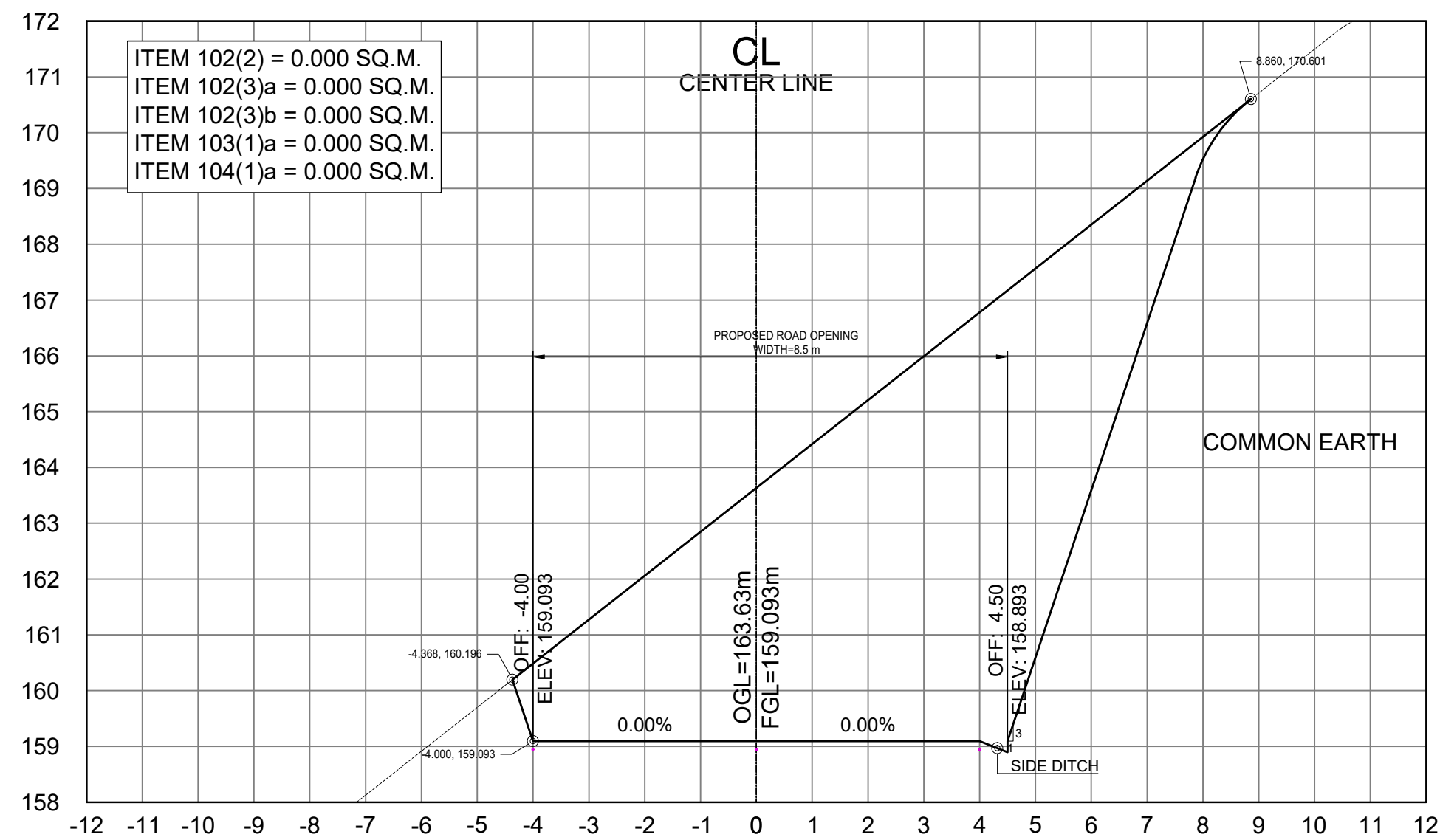


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CROSS SECTIONS	1:100 MTS.



STA. 3+640.00



STA. 3+620.00



REPUBLIC OF THE PHILIPPINES
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TUBA, BENGUET

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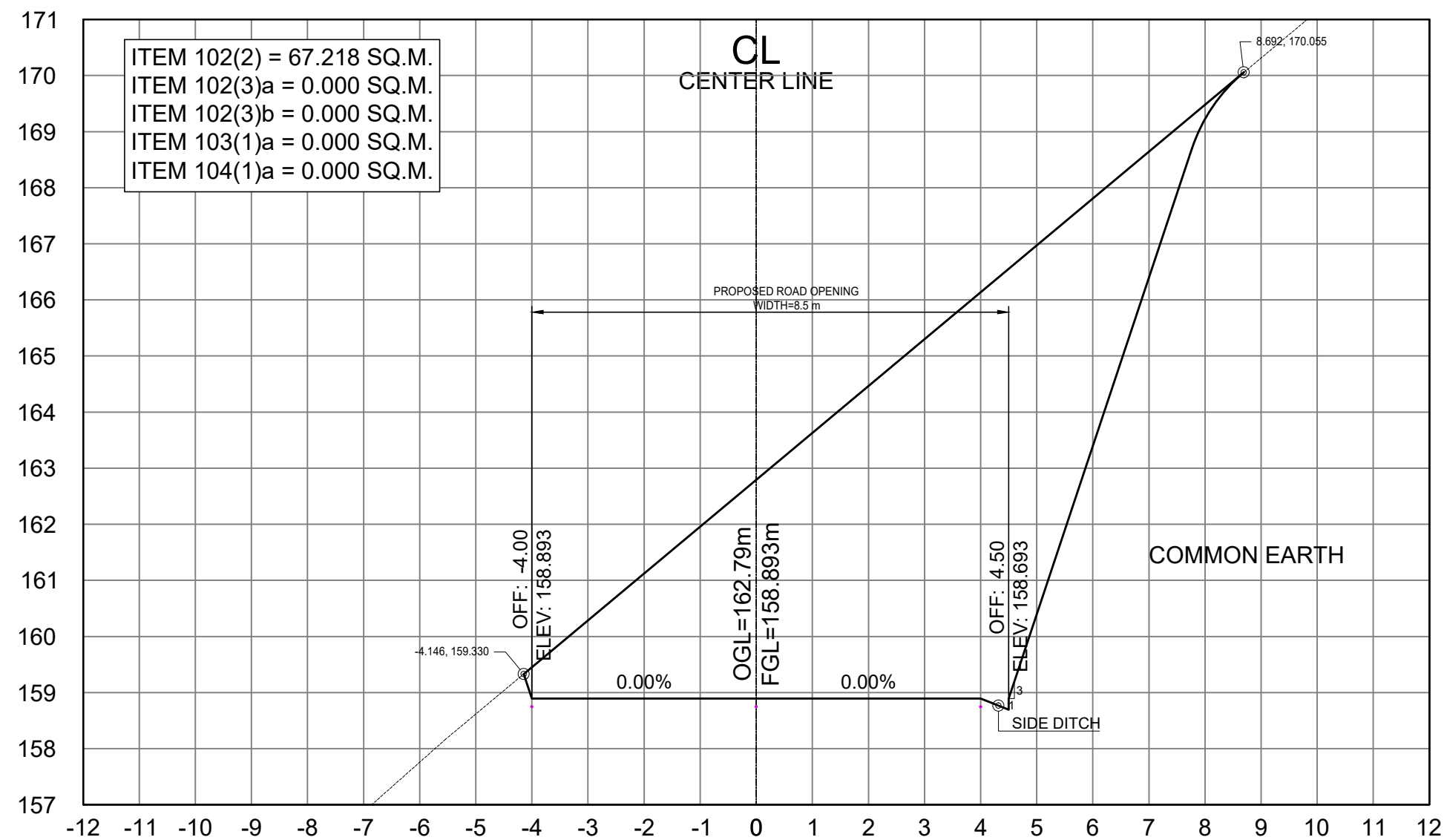
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

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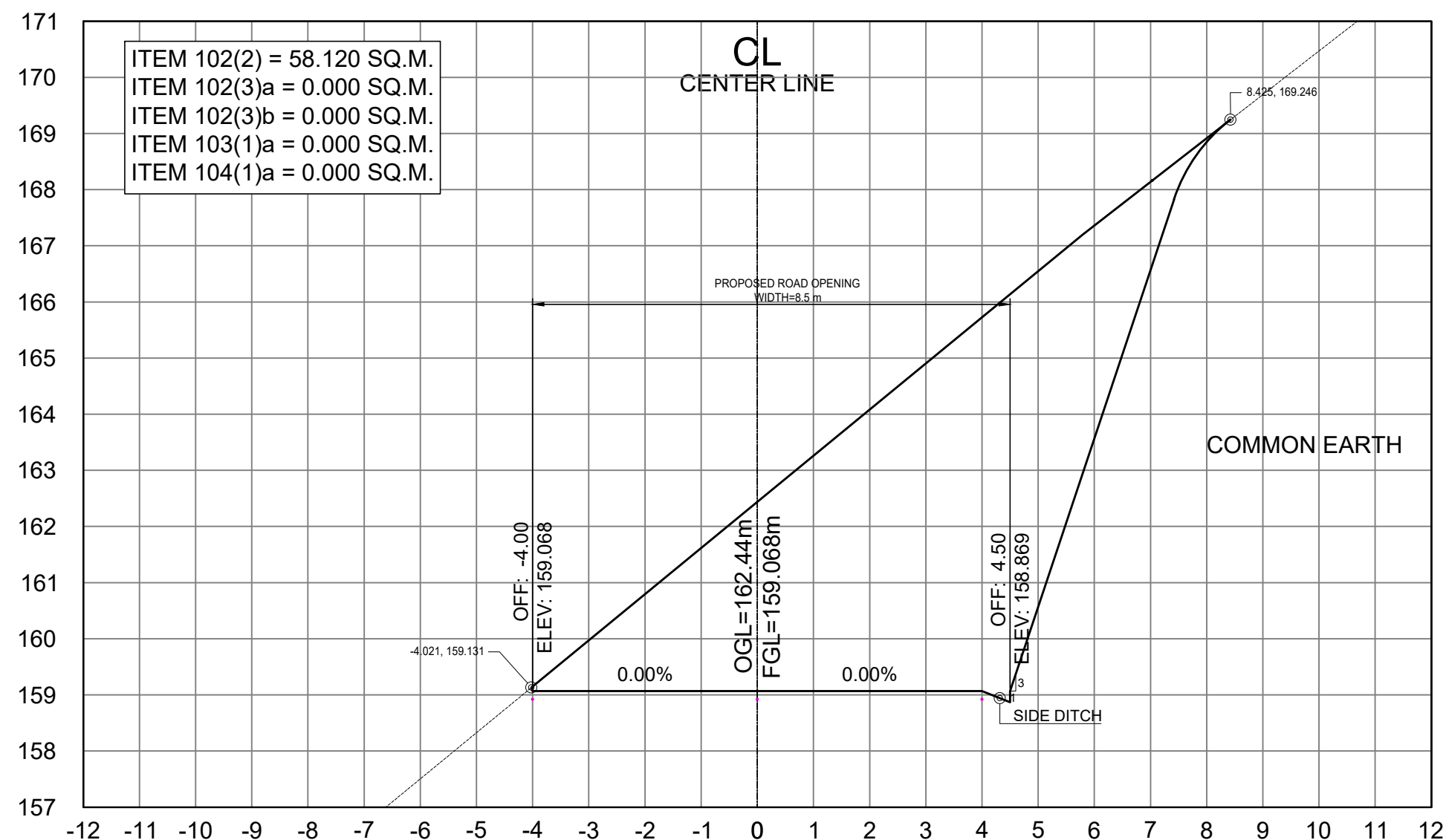
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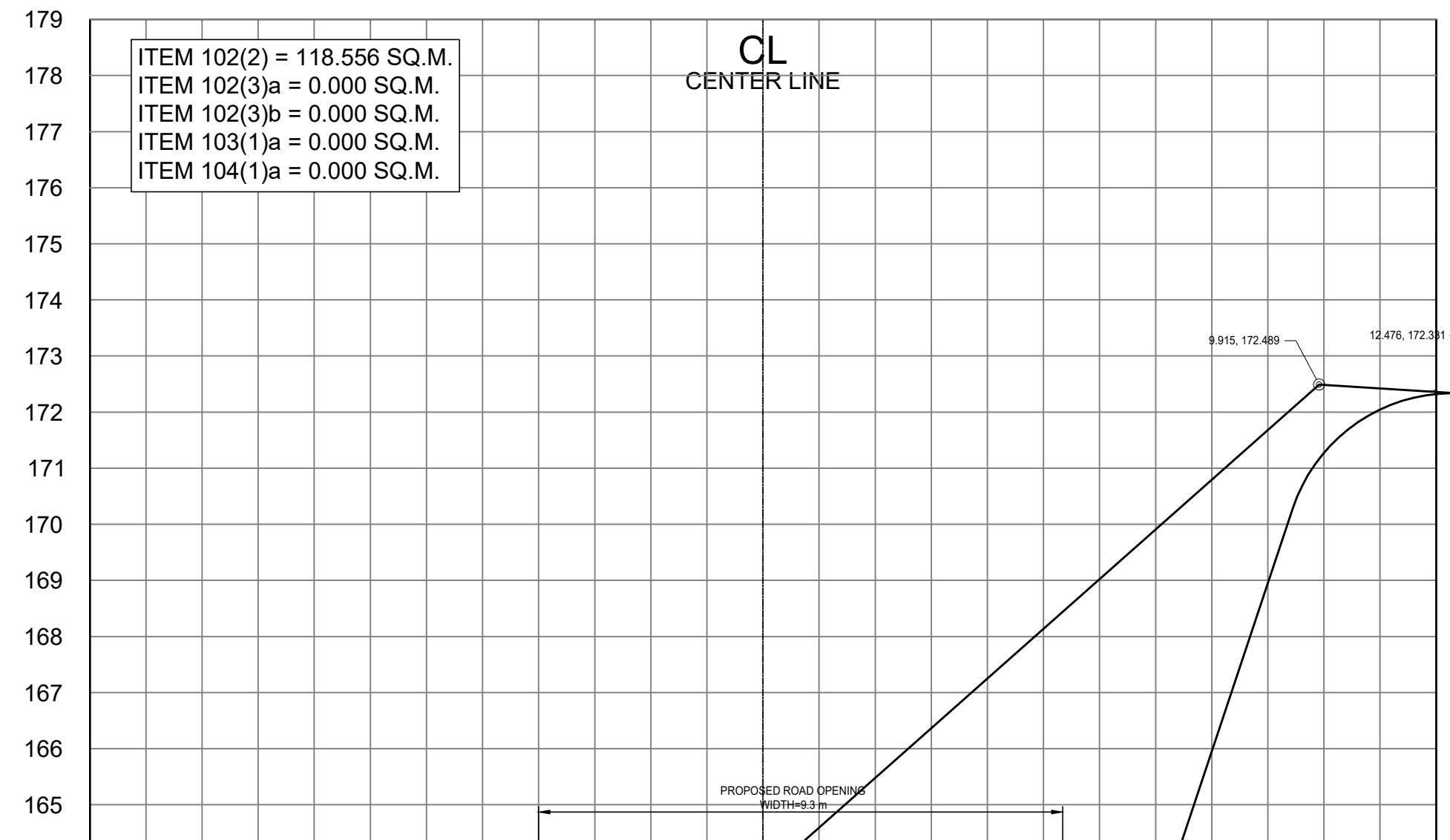
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STA. 3+660.00



STA. 3+700.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

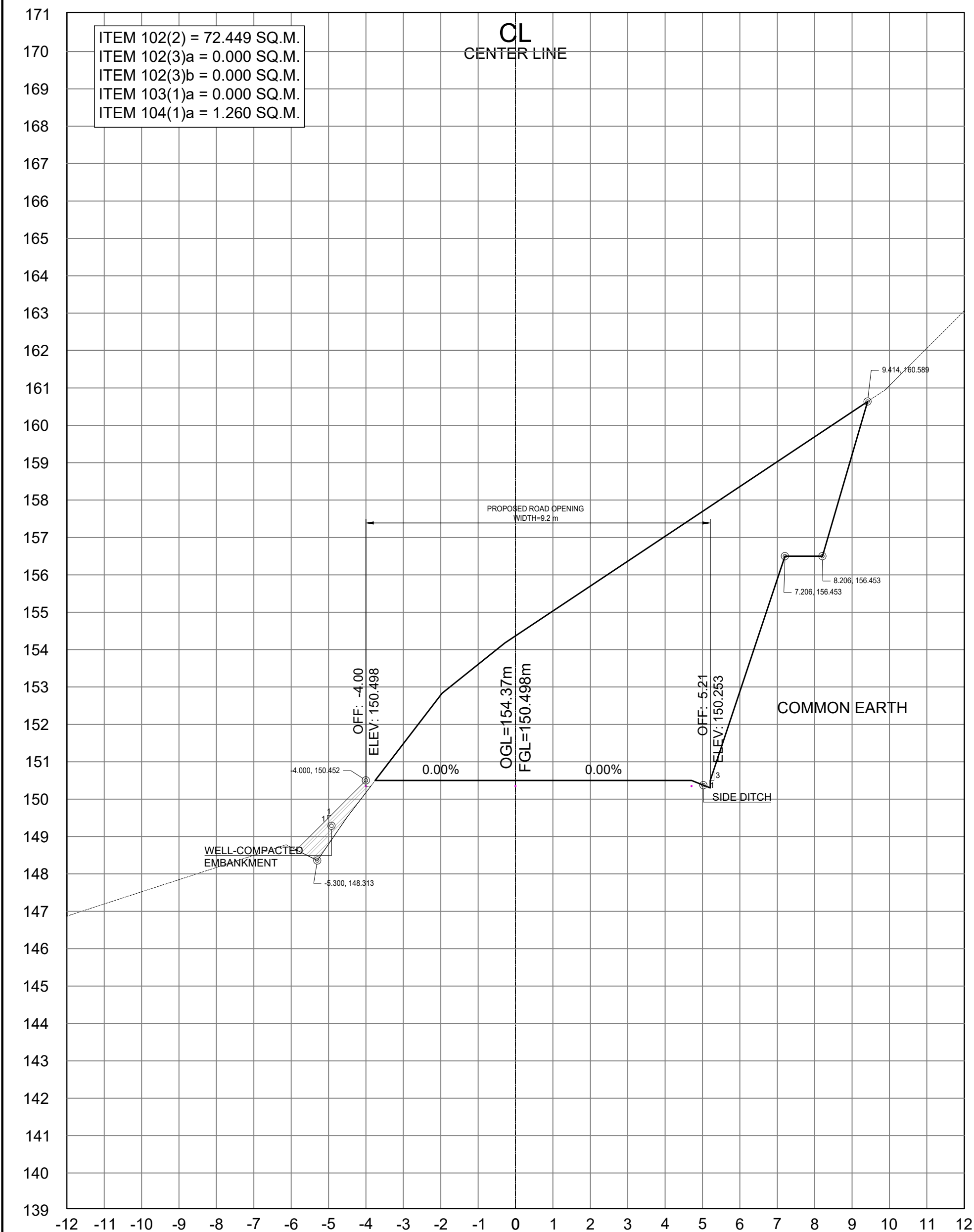
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CROSS
SECTION
01 | 73

84

SHEET NO.

120



STA. 3+760.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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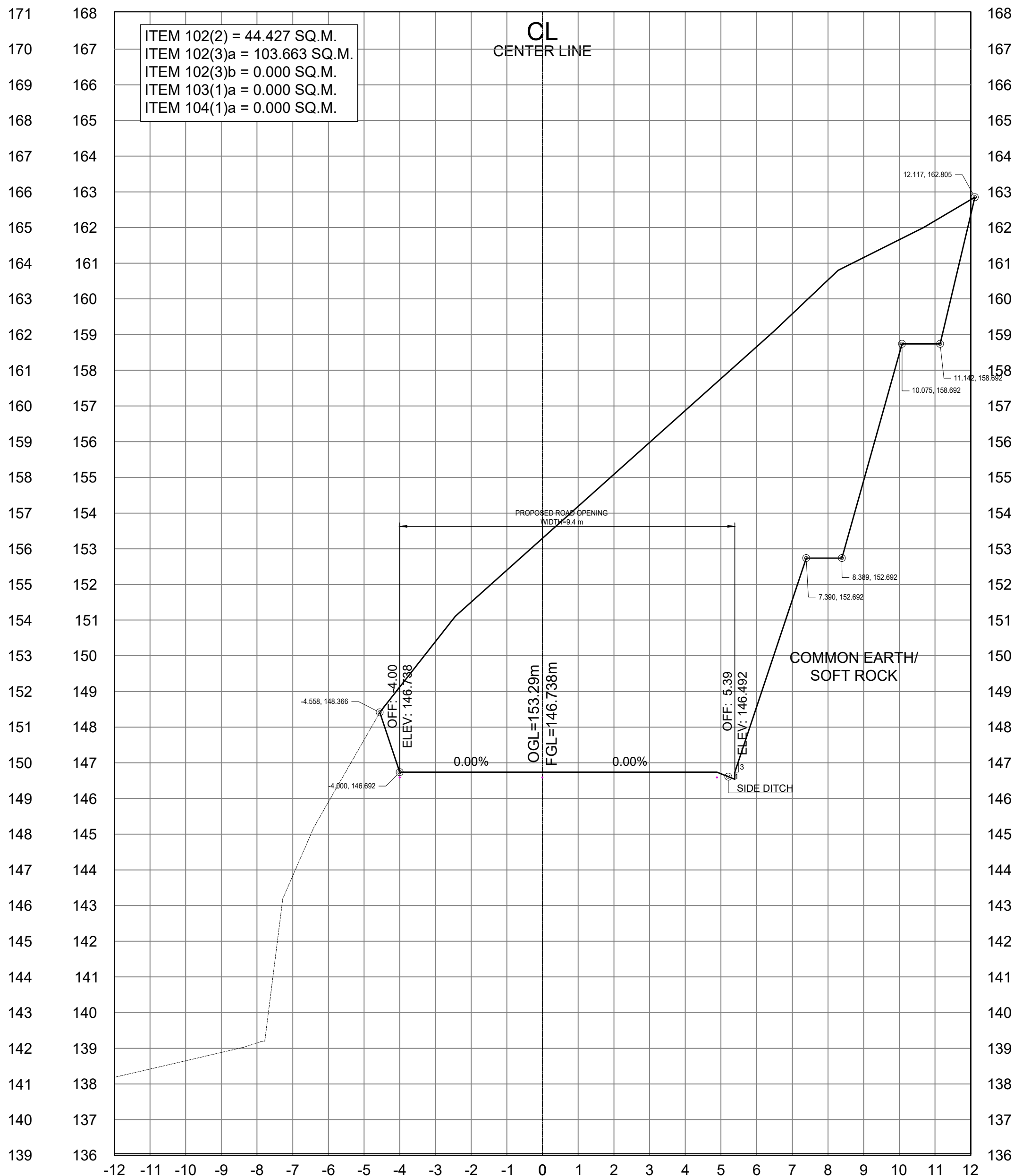
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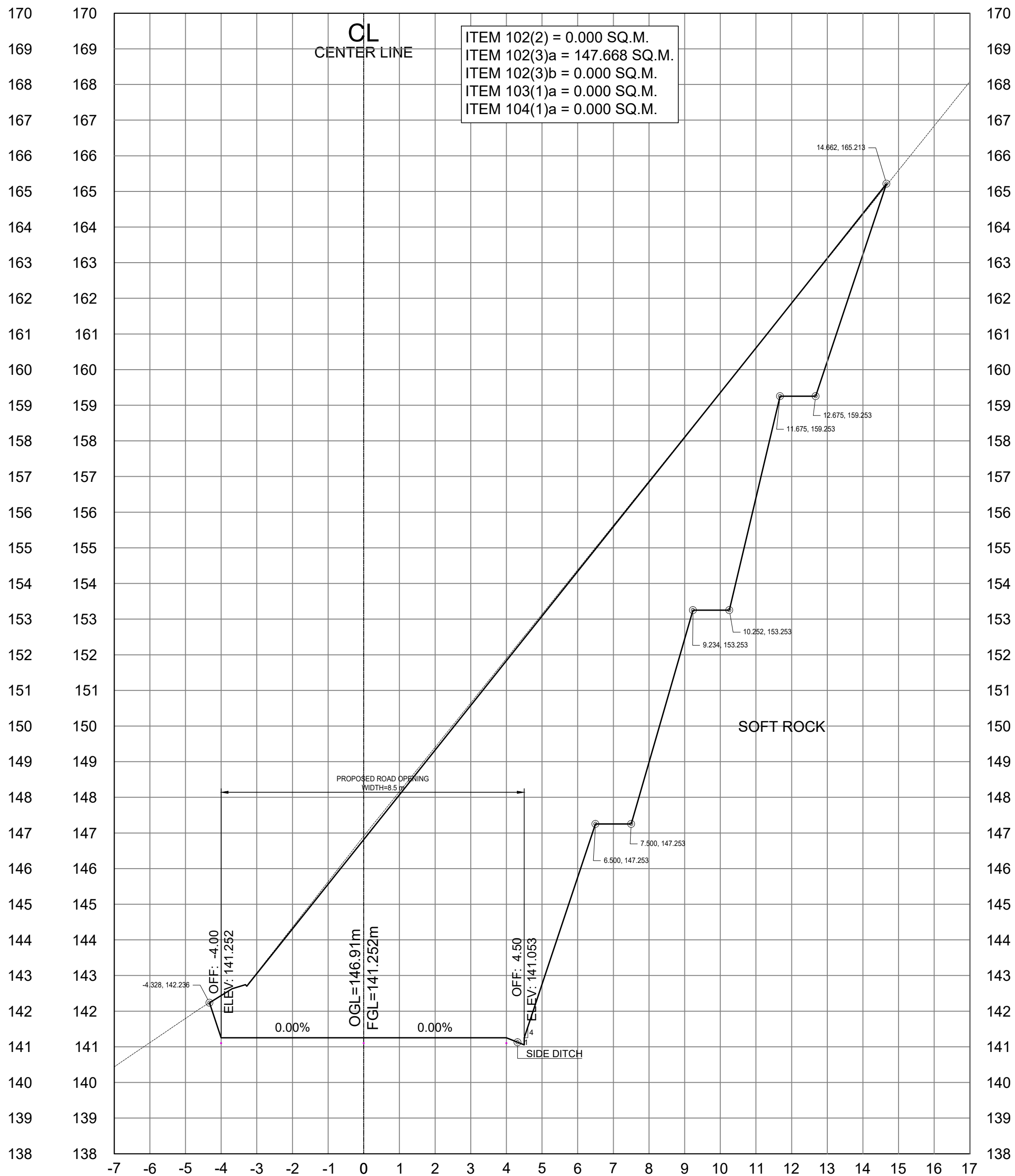
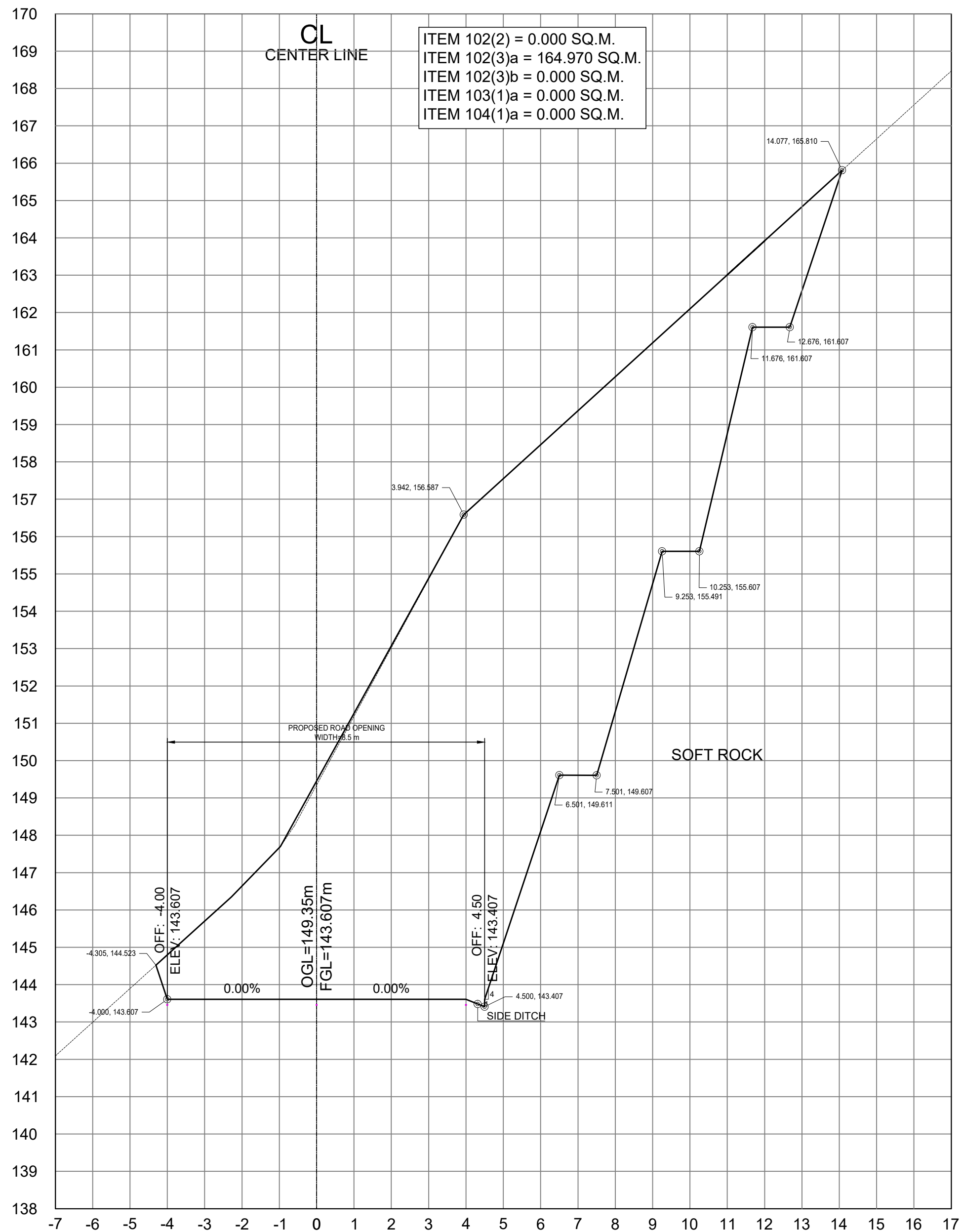
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SHEET NO.

86
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STA. 3+780.00



SCALE	
CROSS SECTIONS	1:100 MTS.



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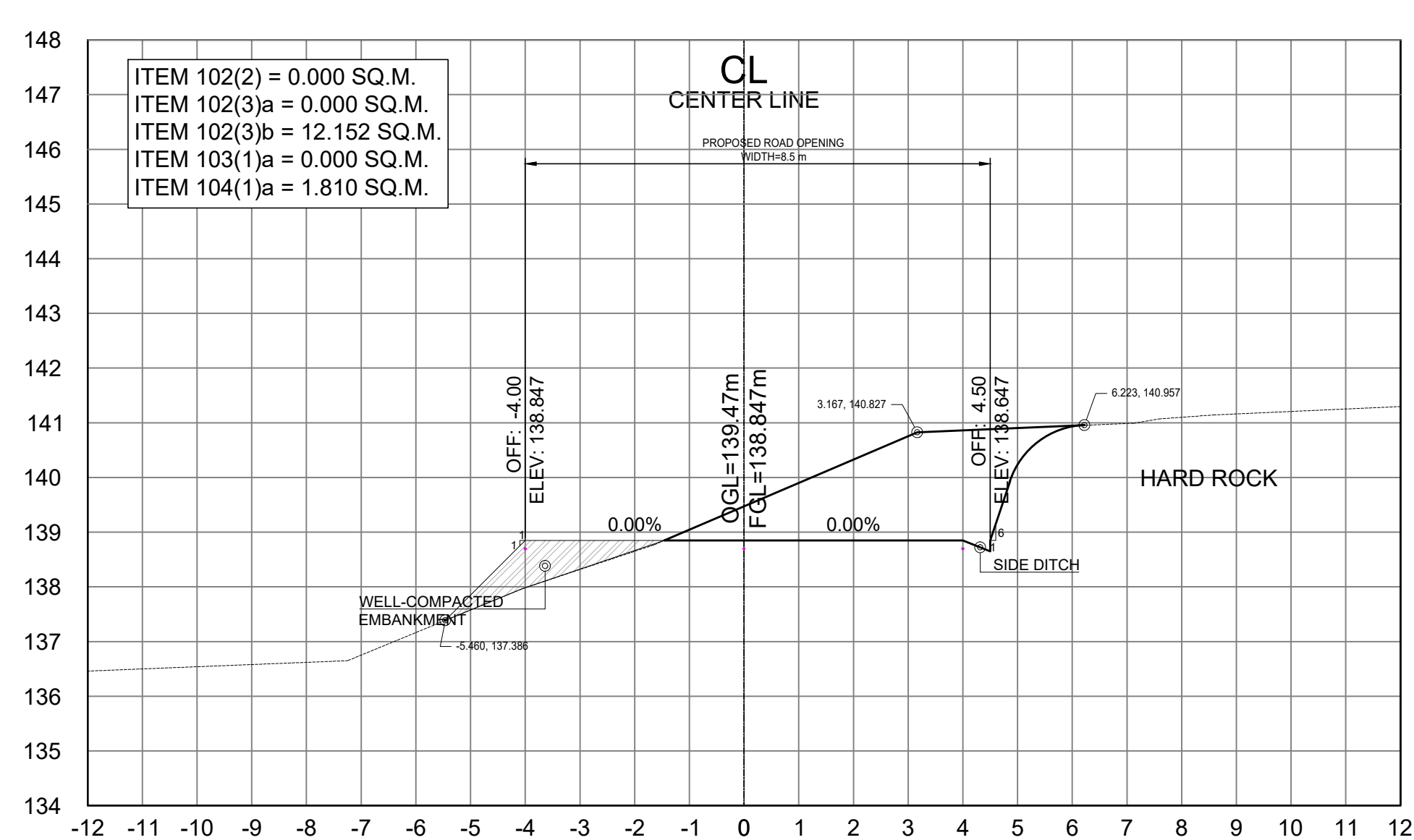
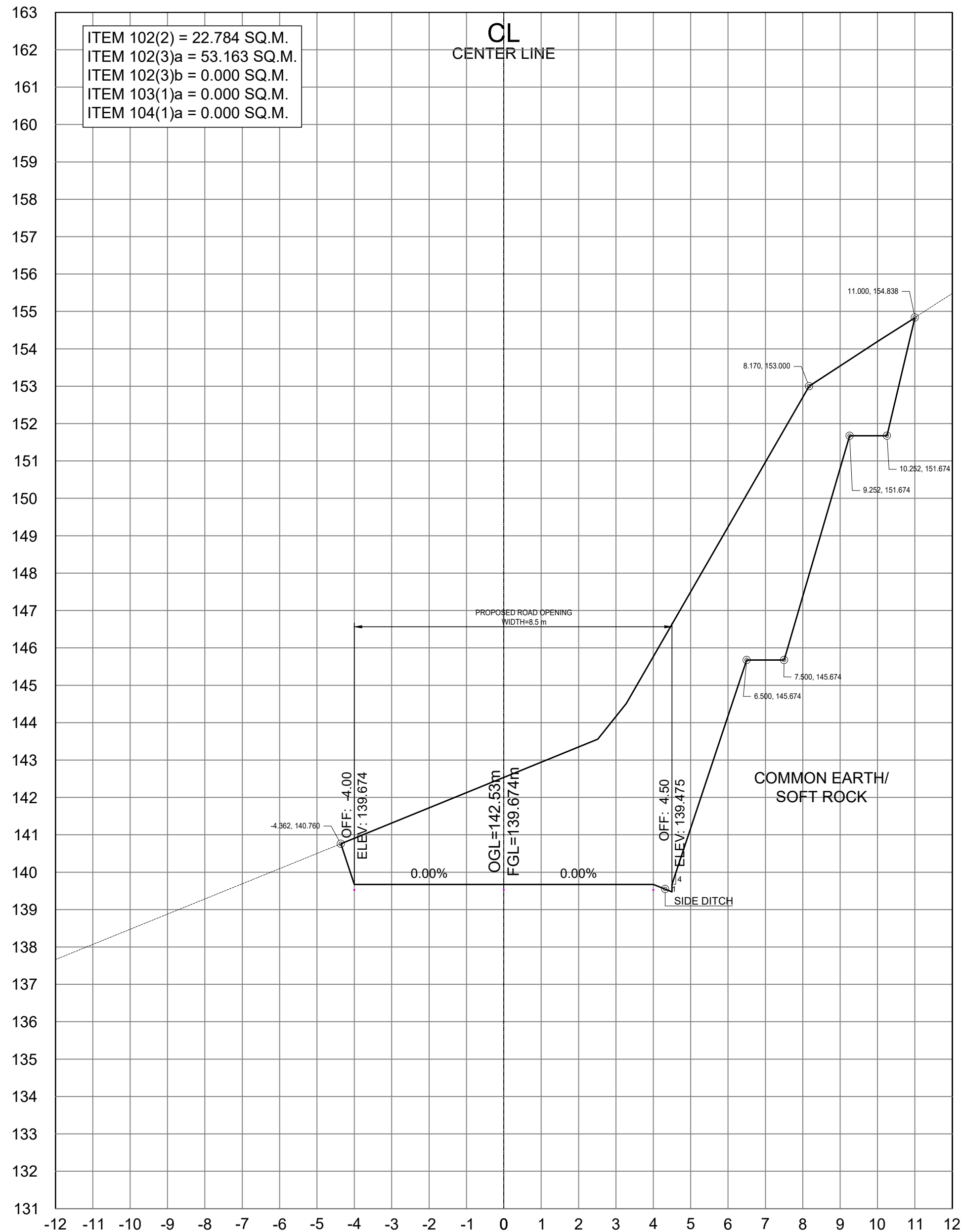
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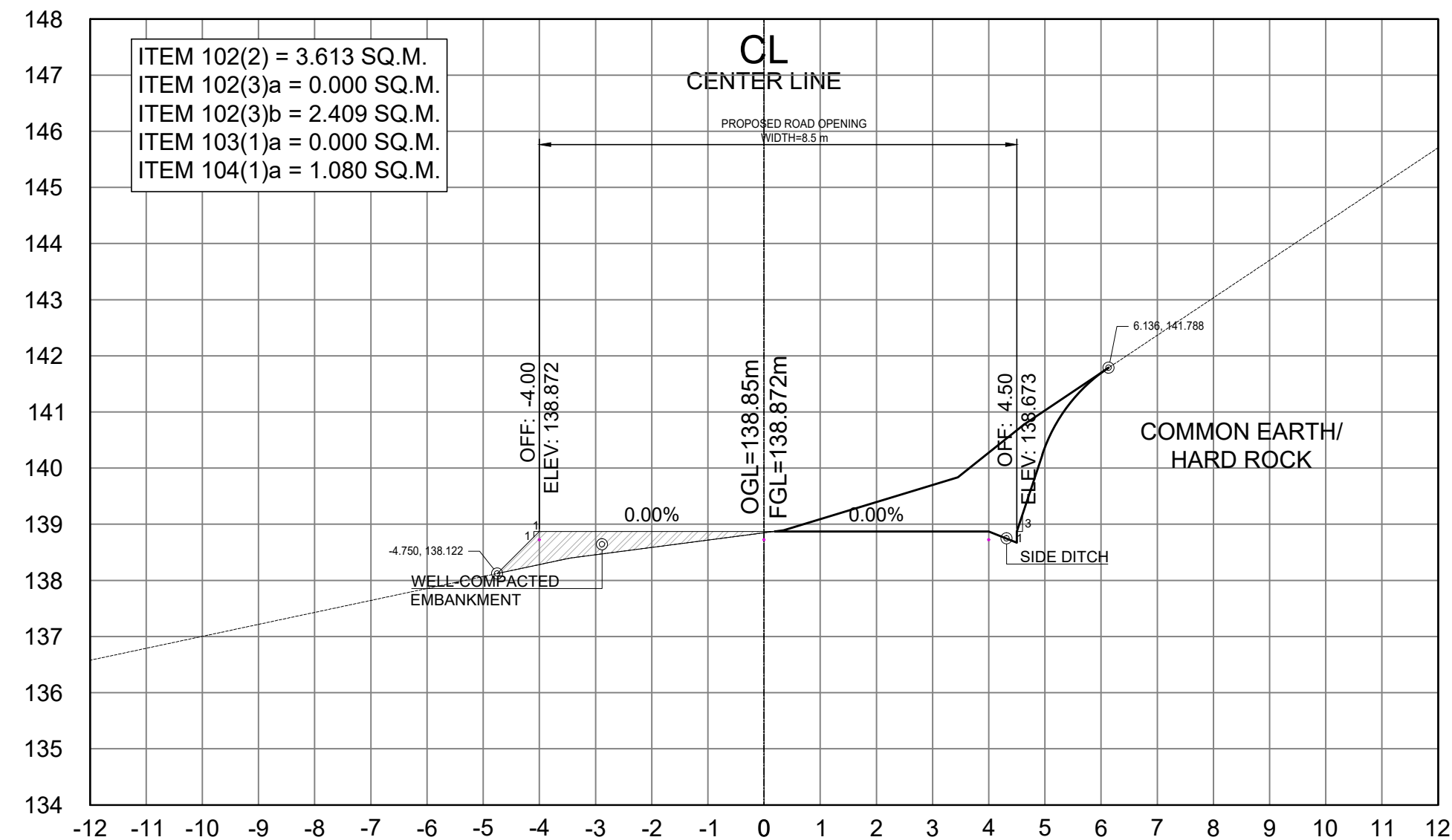
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SECTION
01 | 73

SHEET NO.

87
120



STA. 3+880.00



STA. 3+860.00

SCALE	
CROSS SECTIONS	1:100 MTS.



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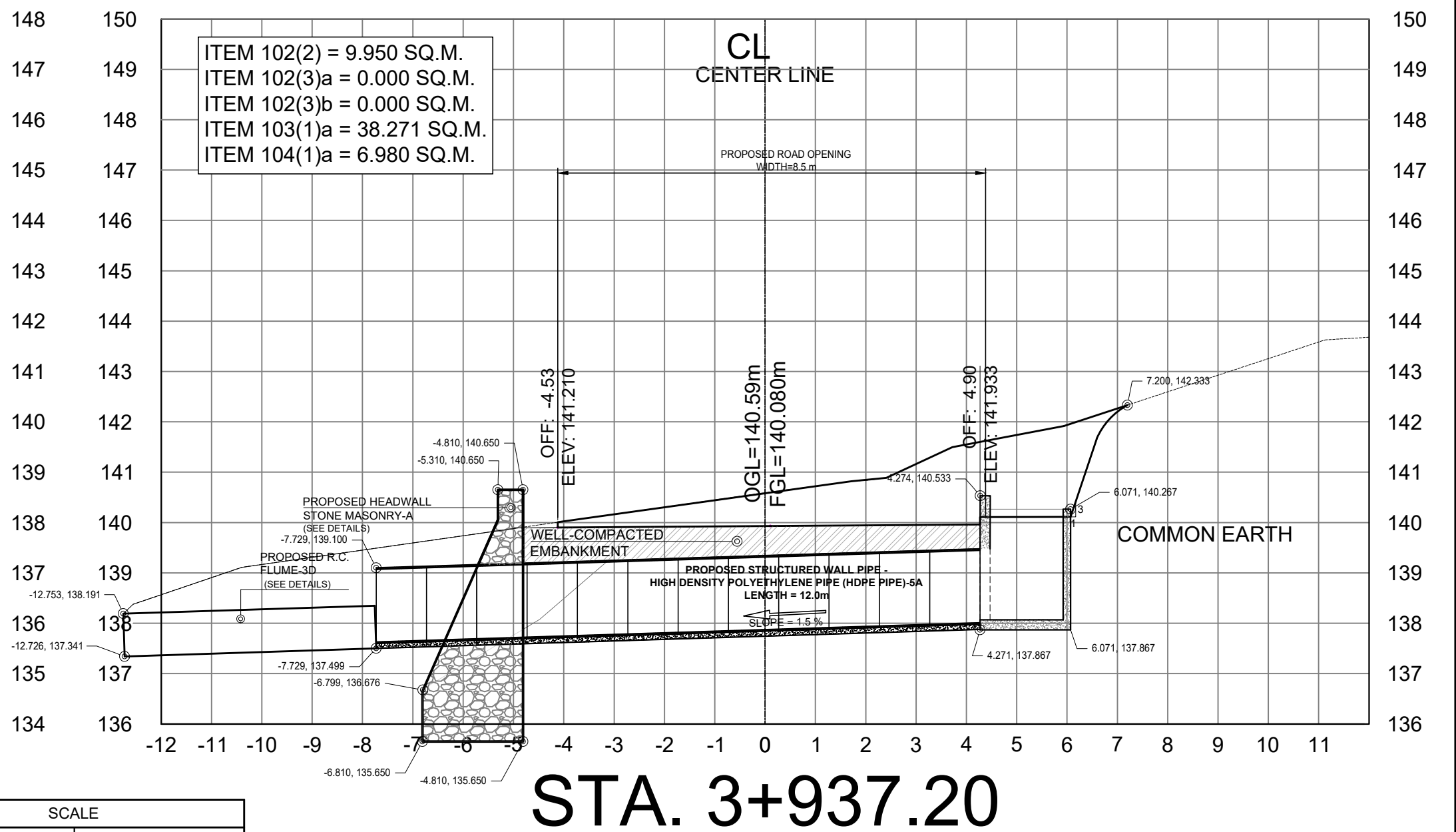
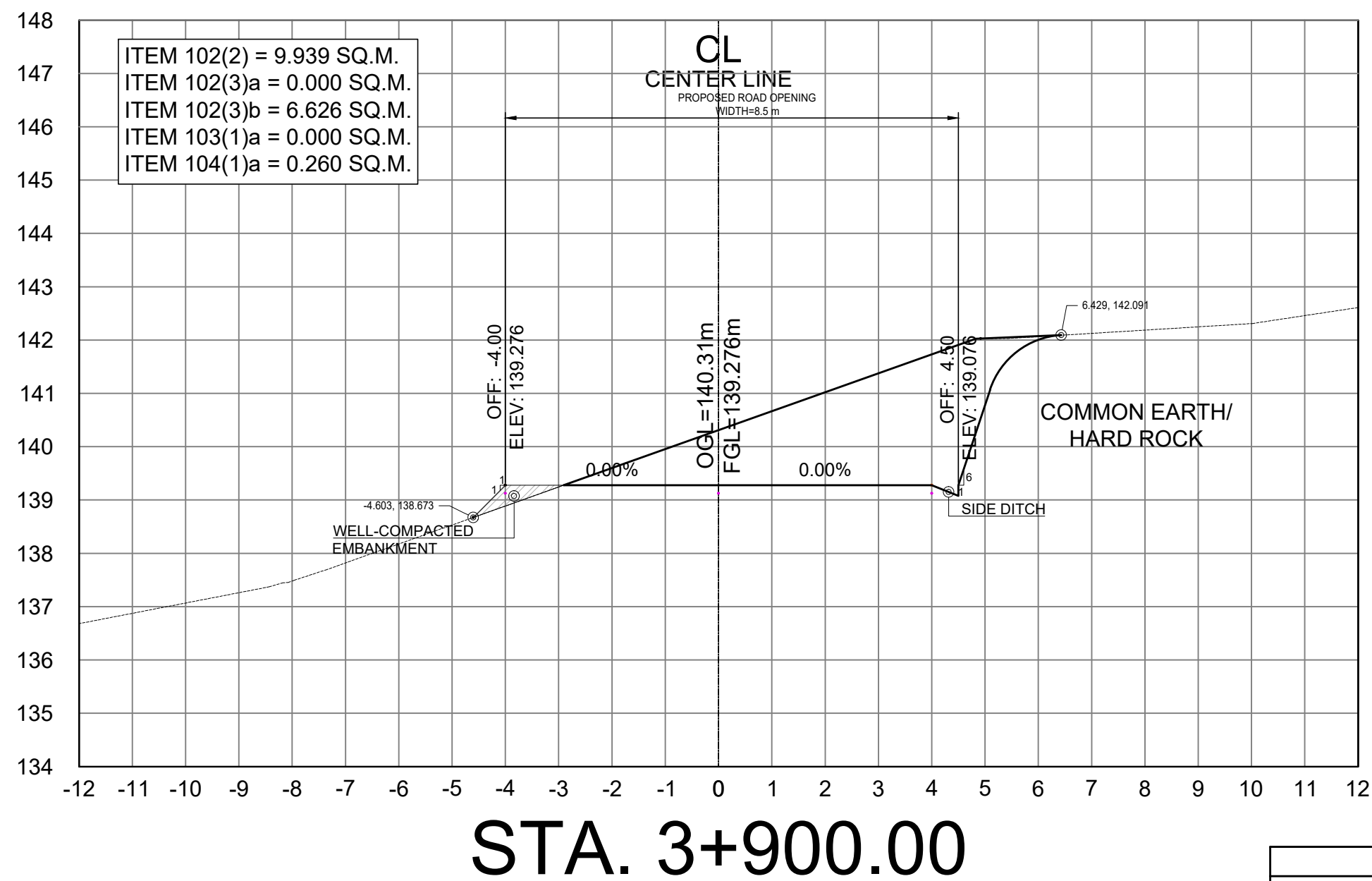
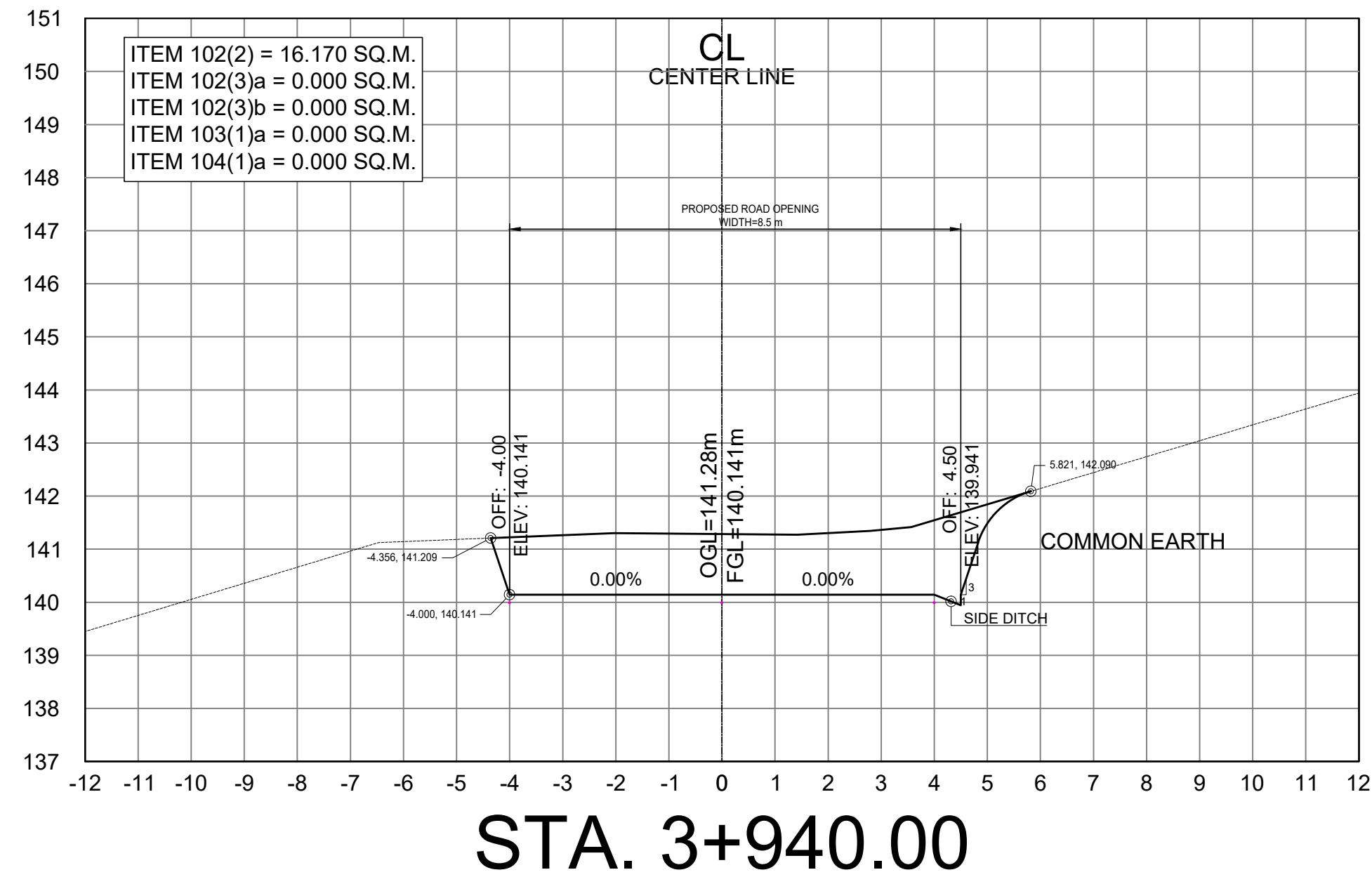
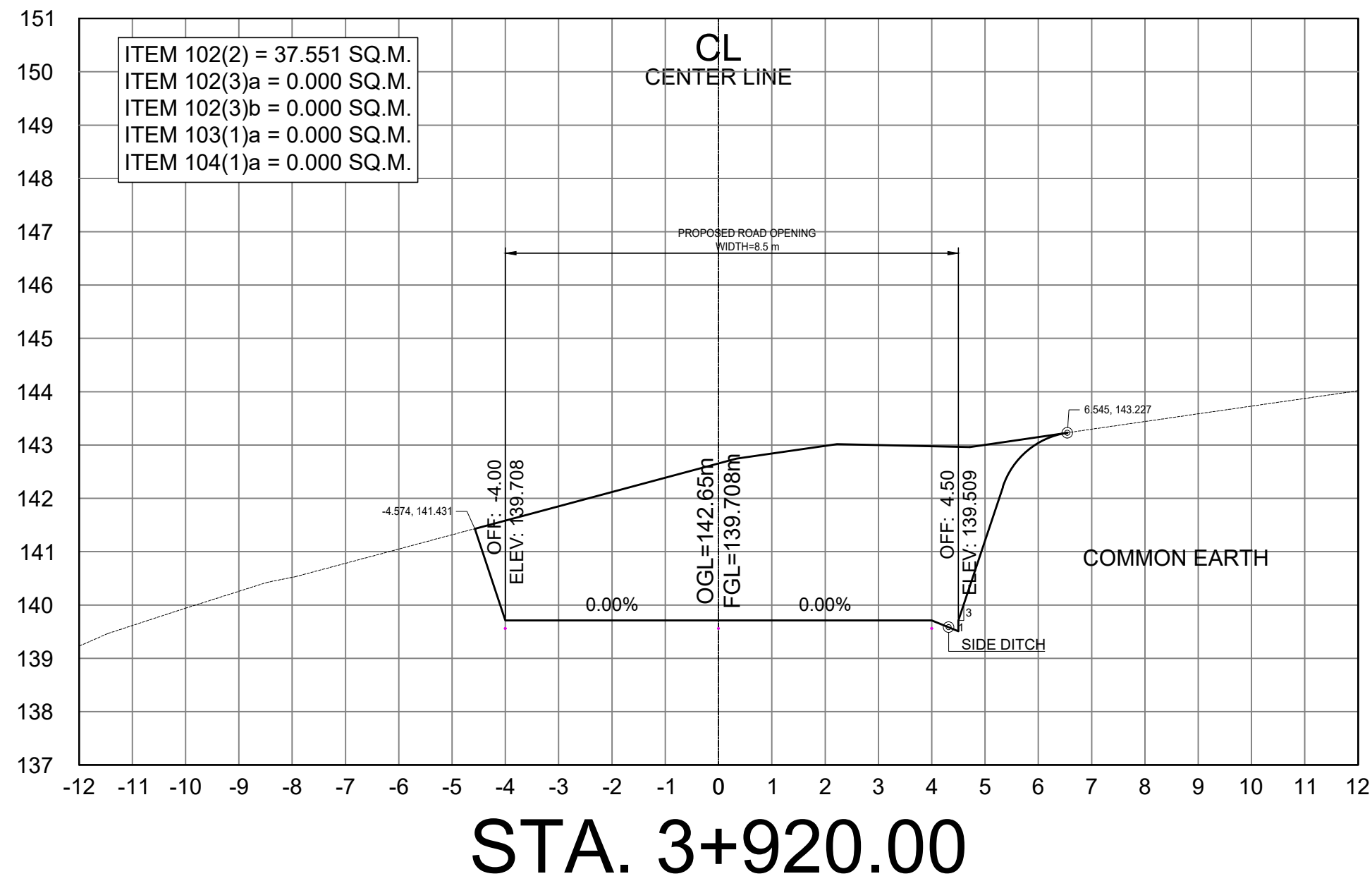
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CROSS
SECTION
01 73

88
120

SHEET NO.



SCALE	
CROSS SECTIONS	1:100 MTS.



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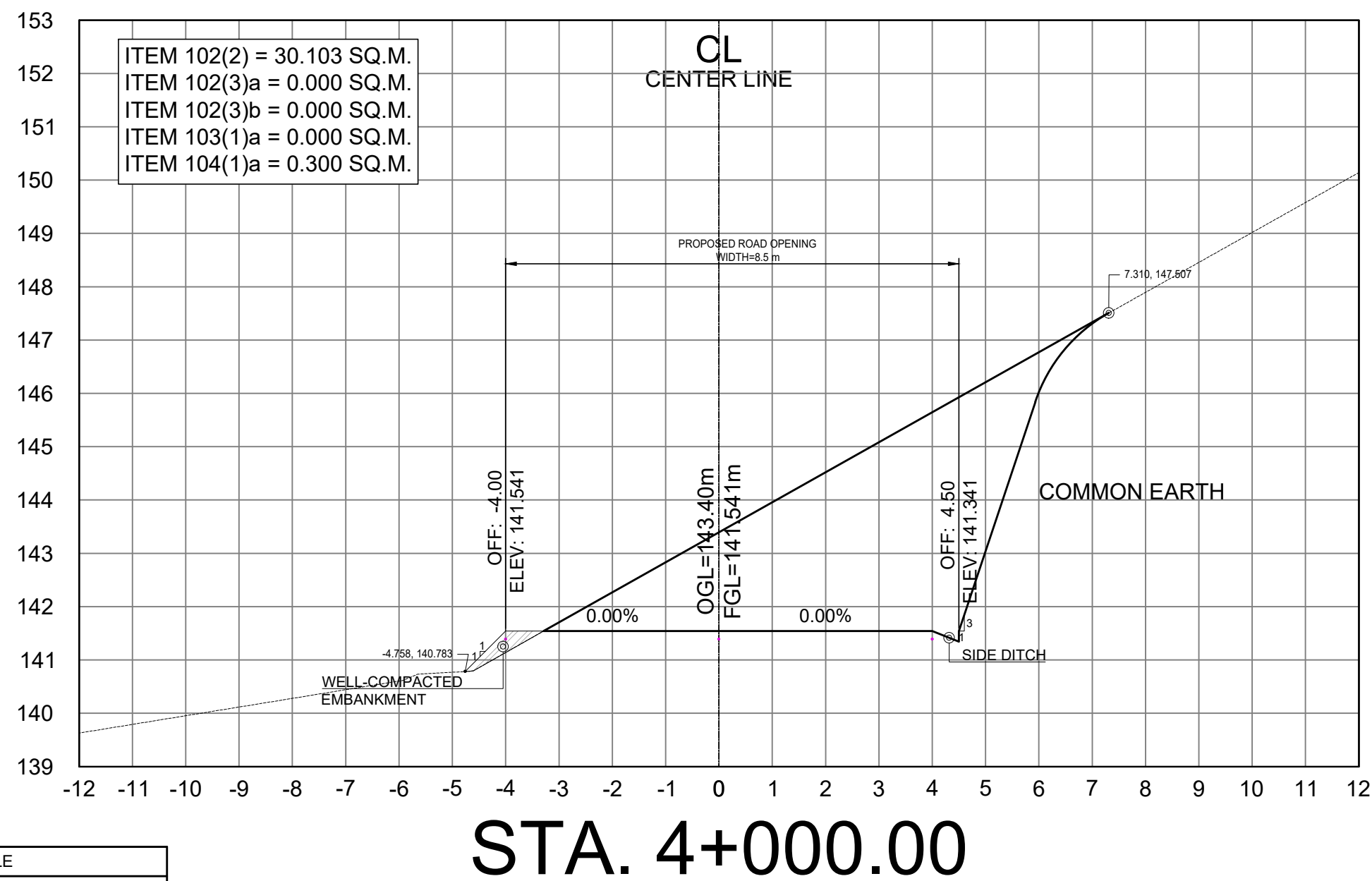
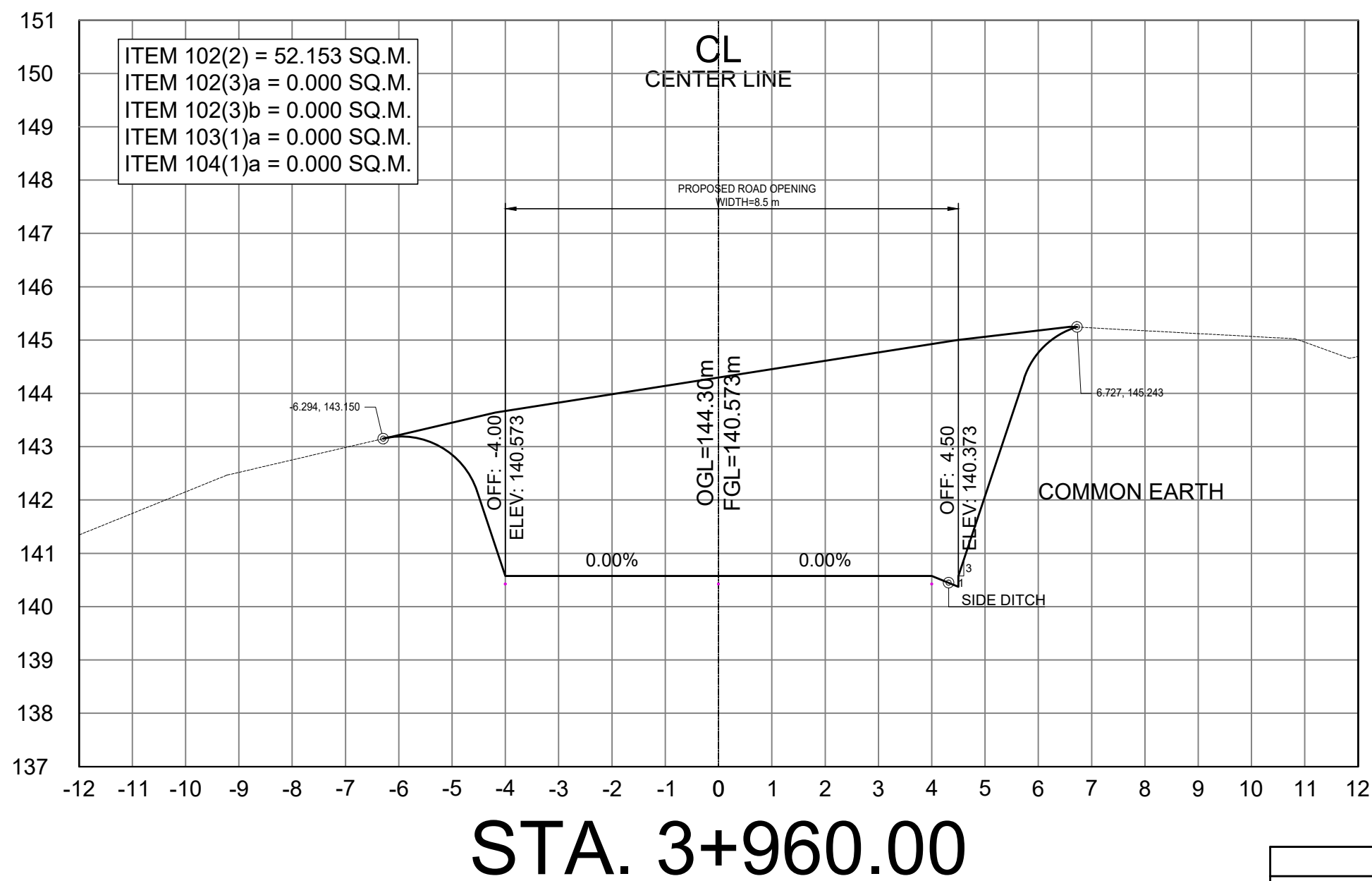
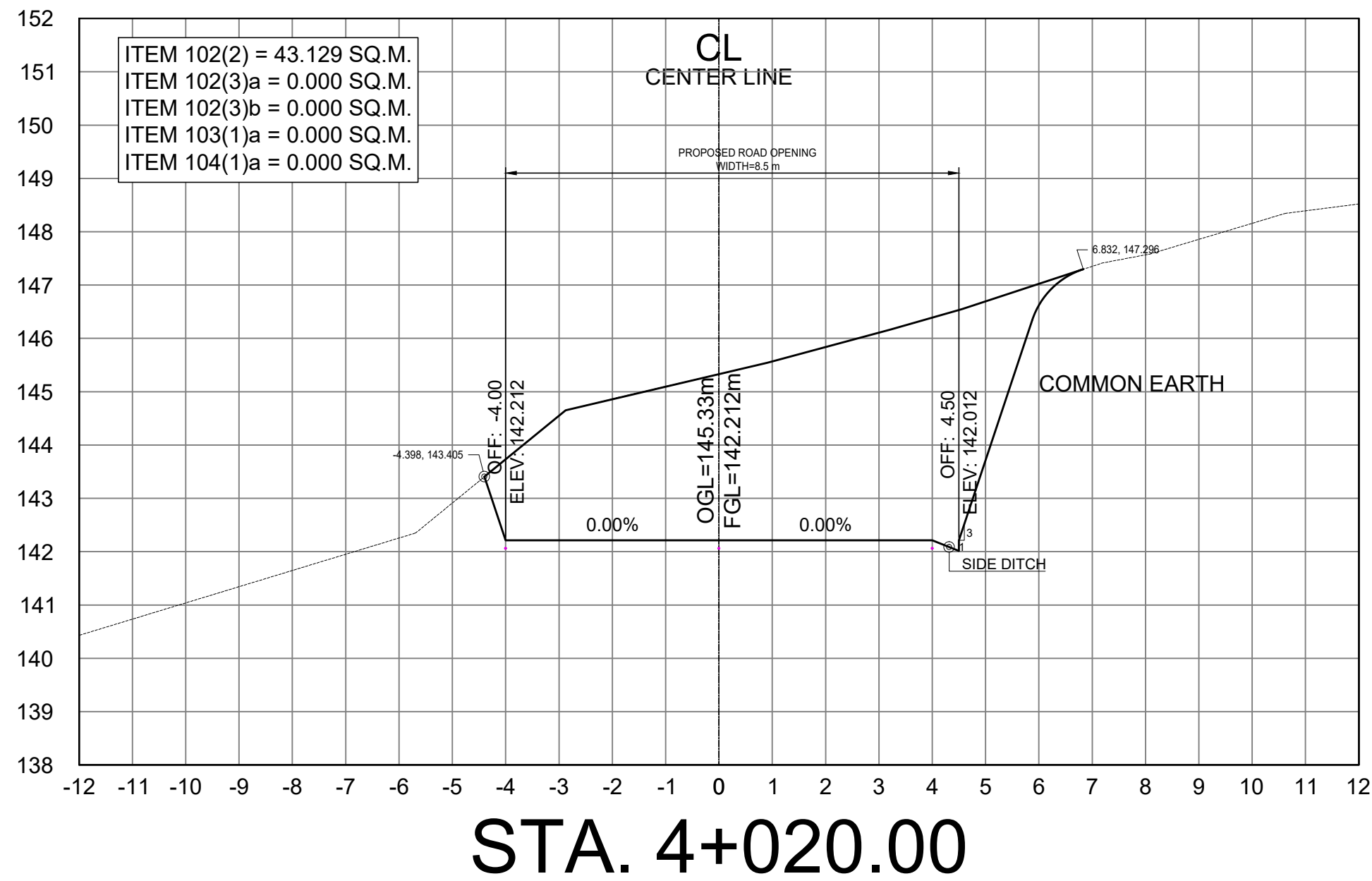
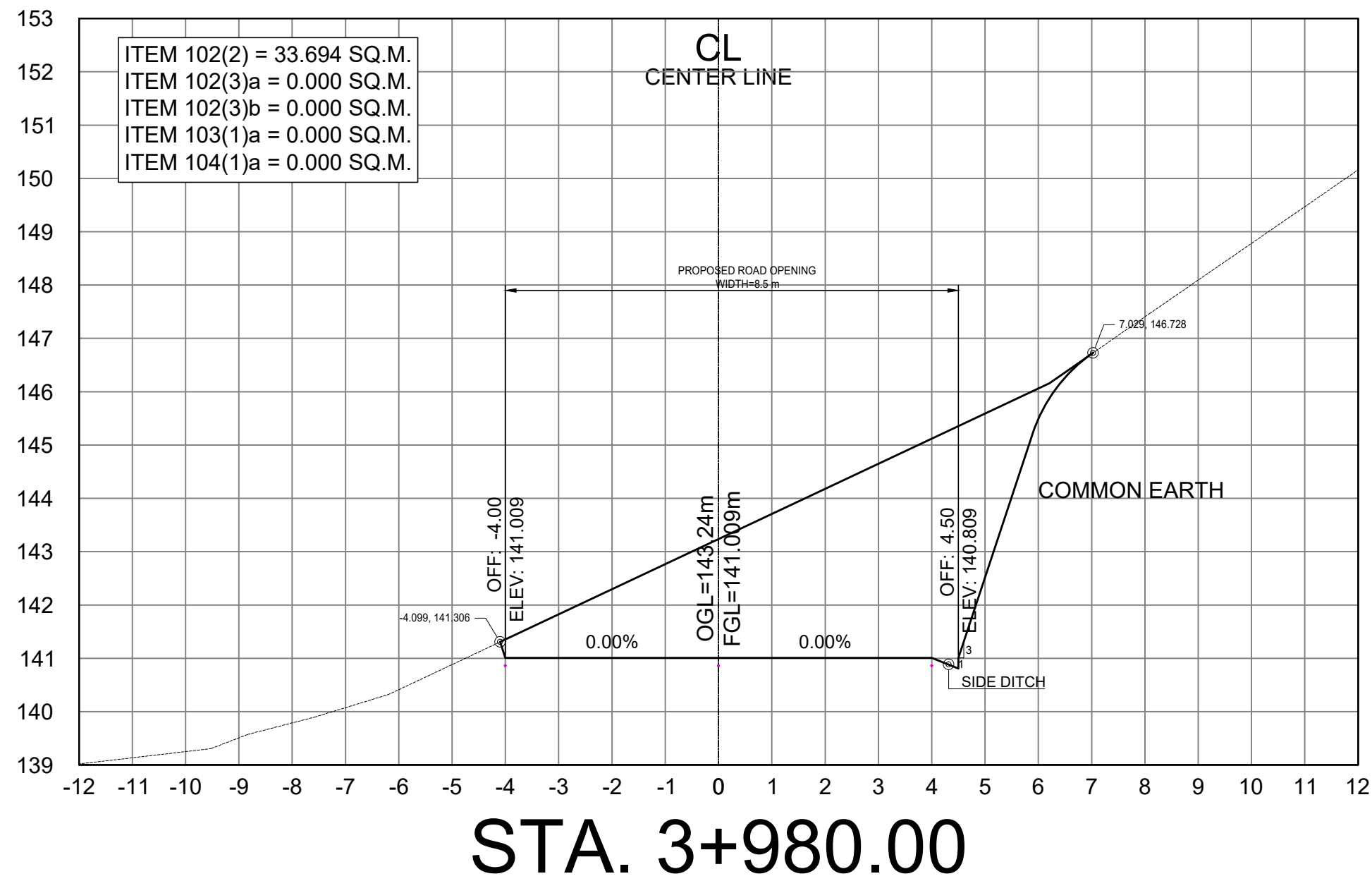
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

SET NO.

CROSS
SECTION
01 | 73

89
120



SCALE	
CROSS SECTIONS	1:100 MTS.



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ASSISTANT DISTRICT ENGINEER

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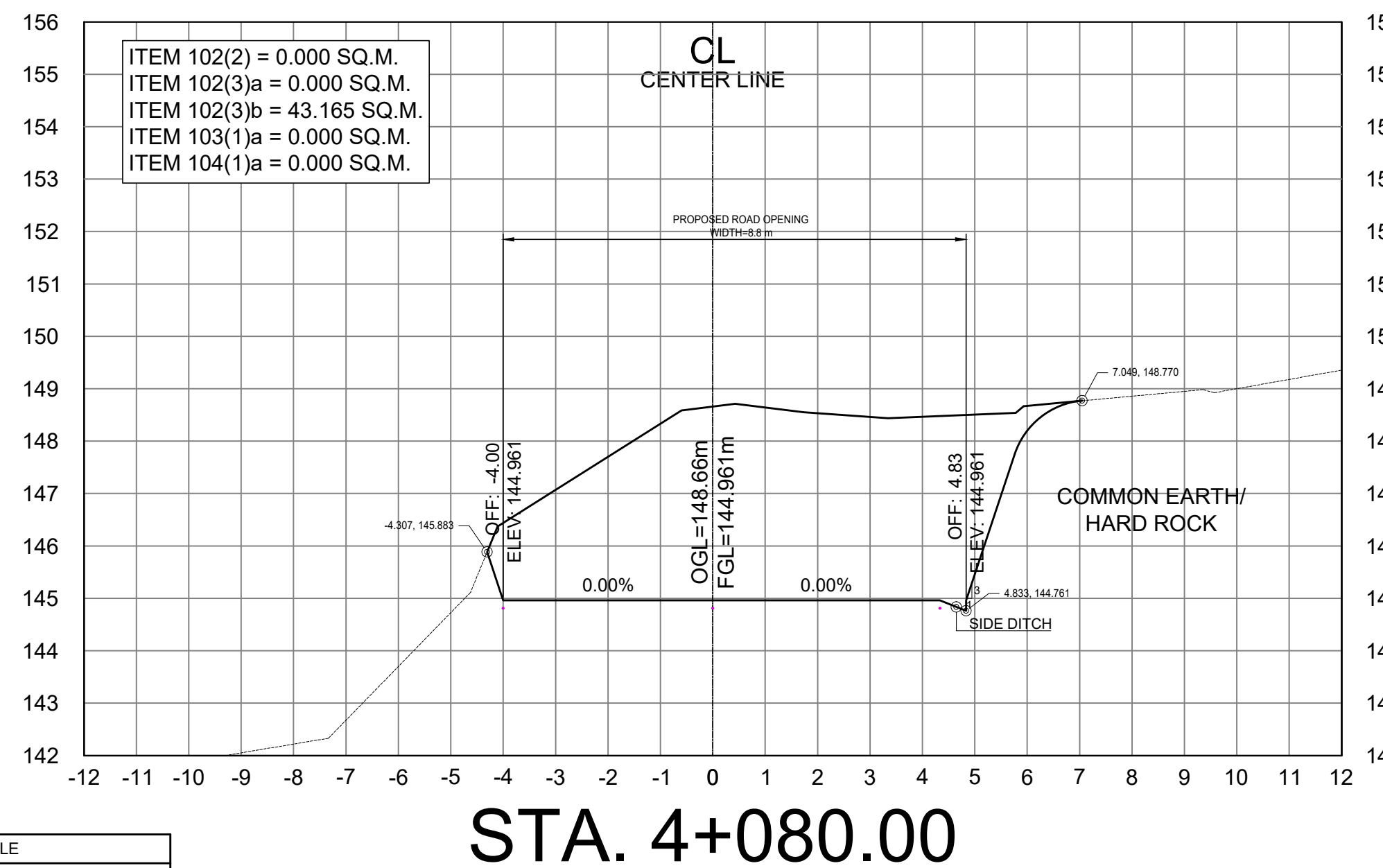
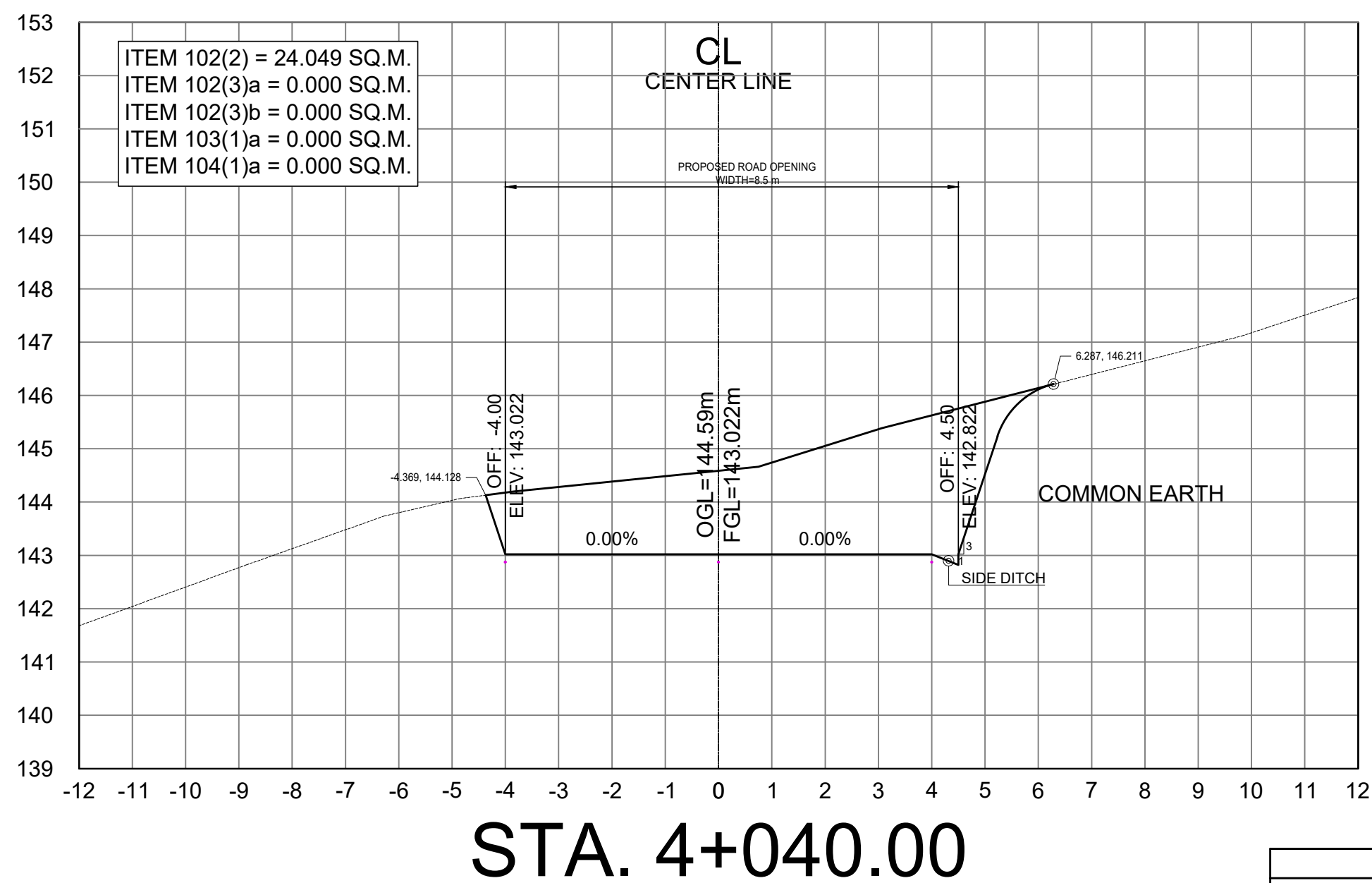
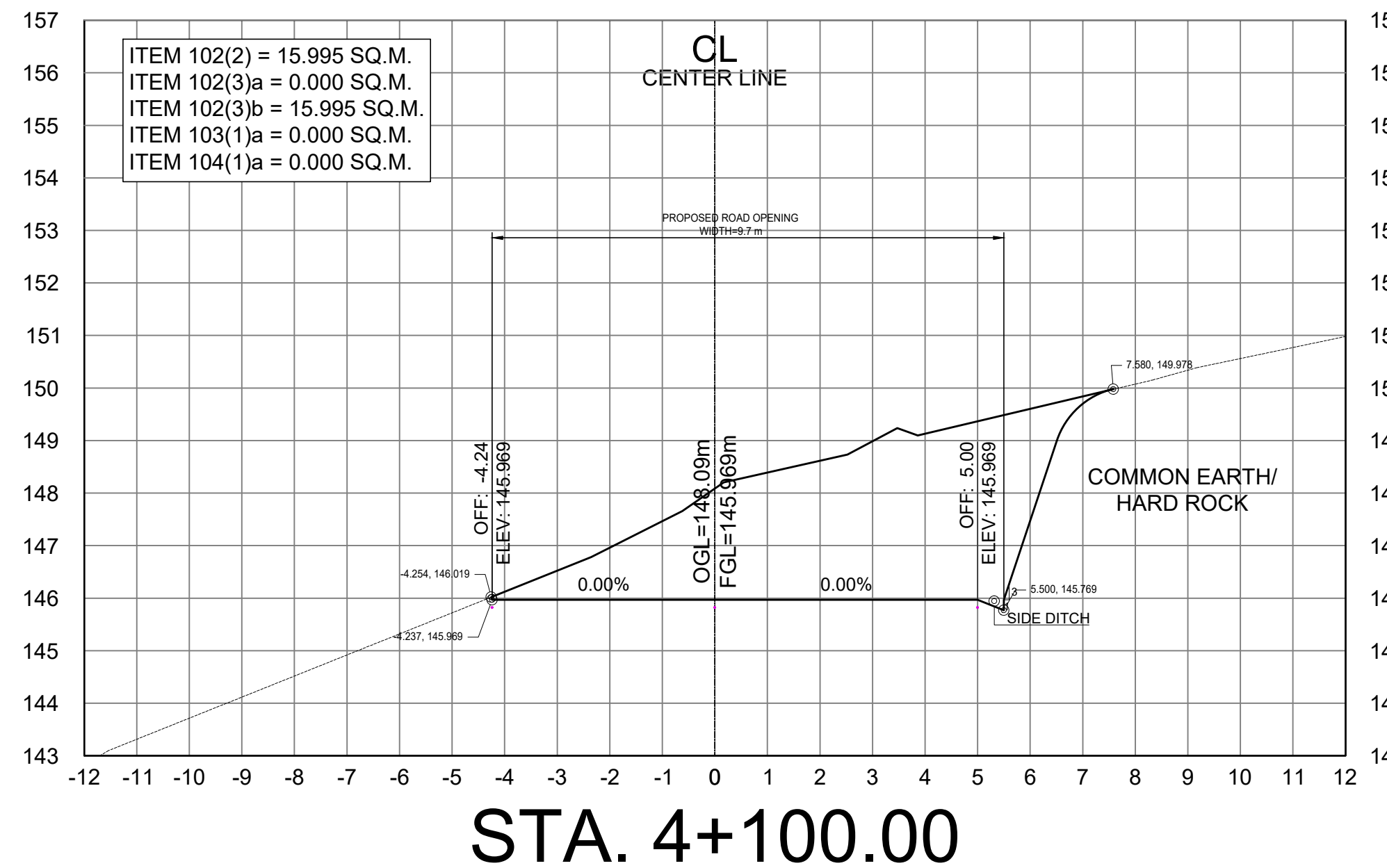
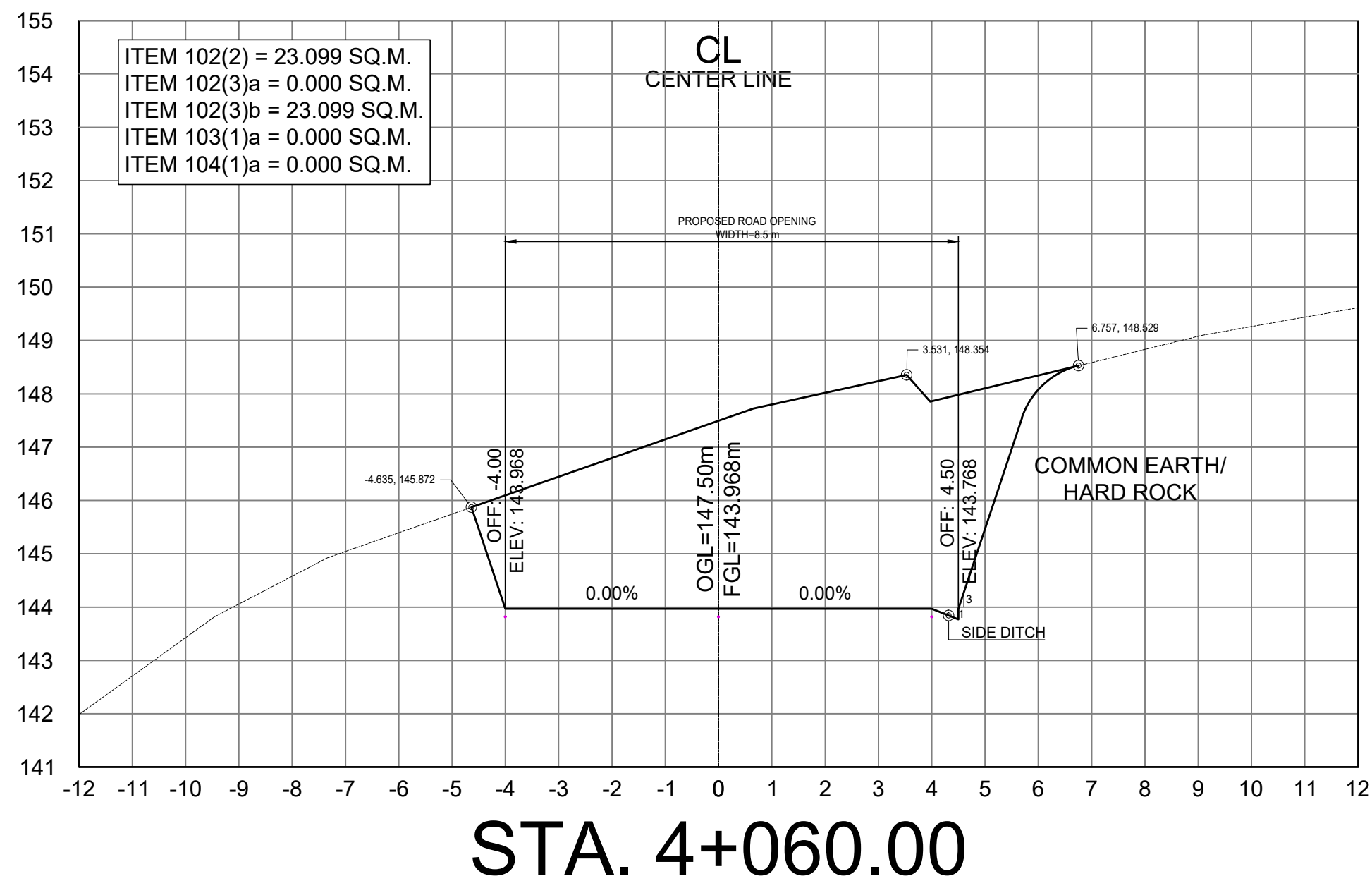
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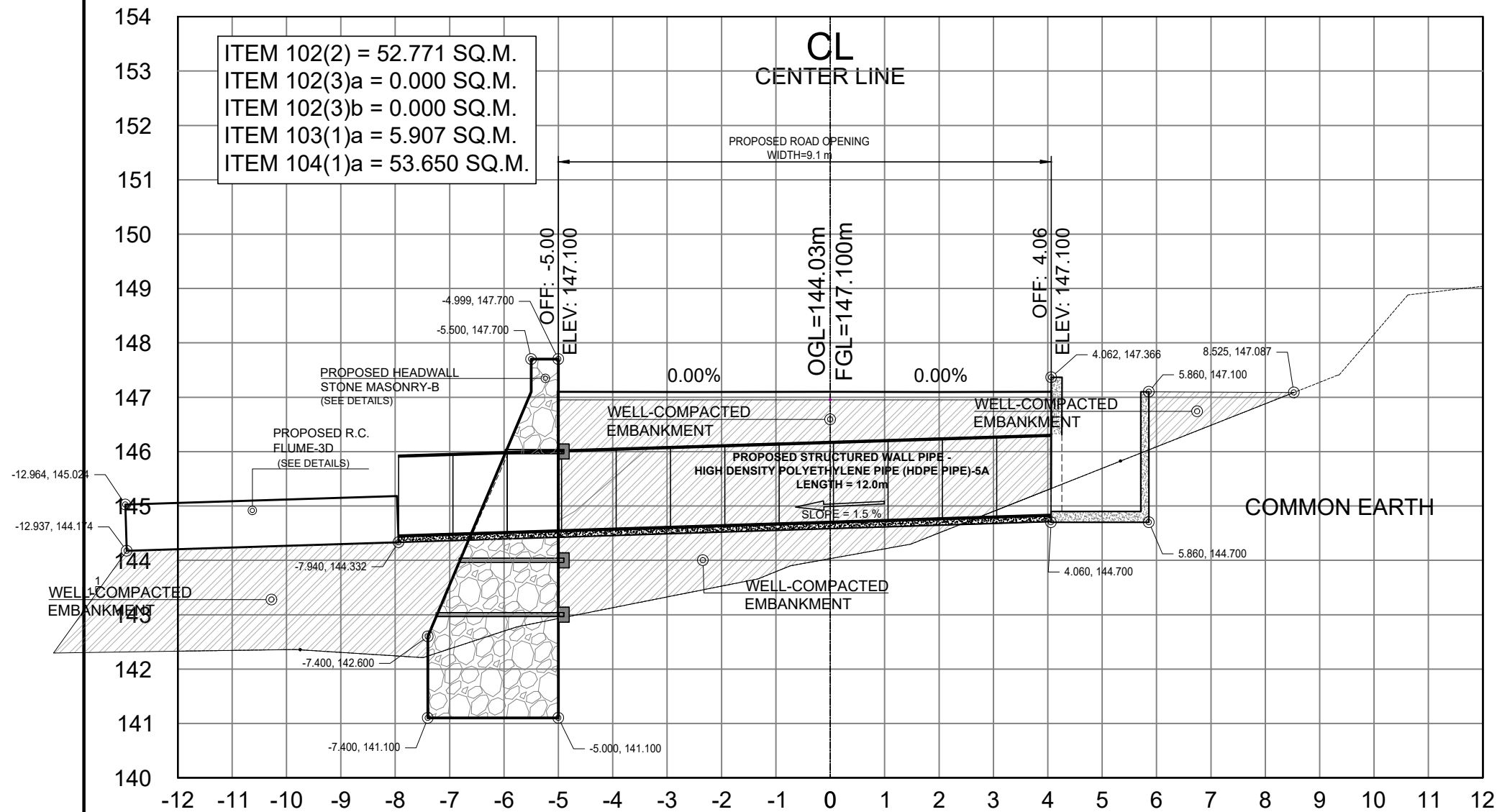
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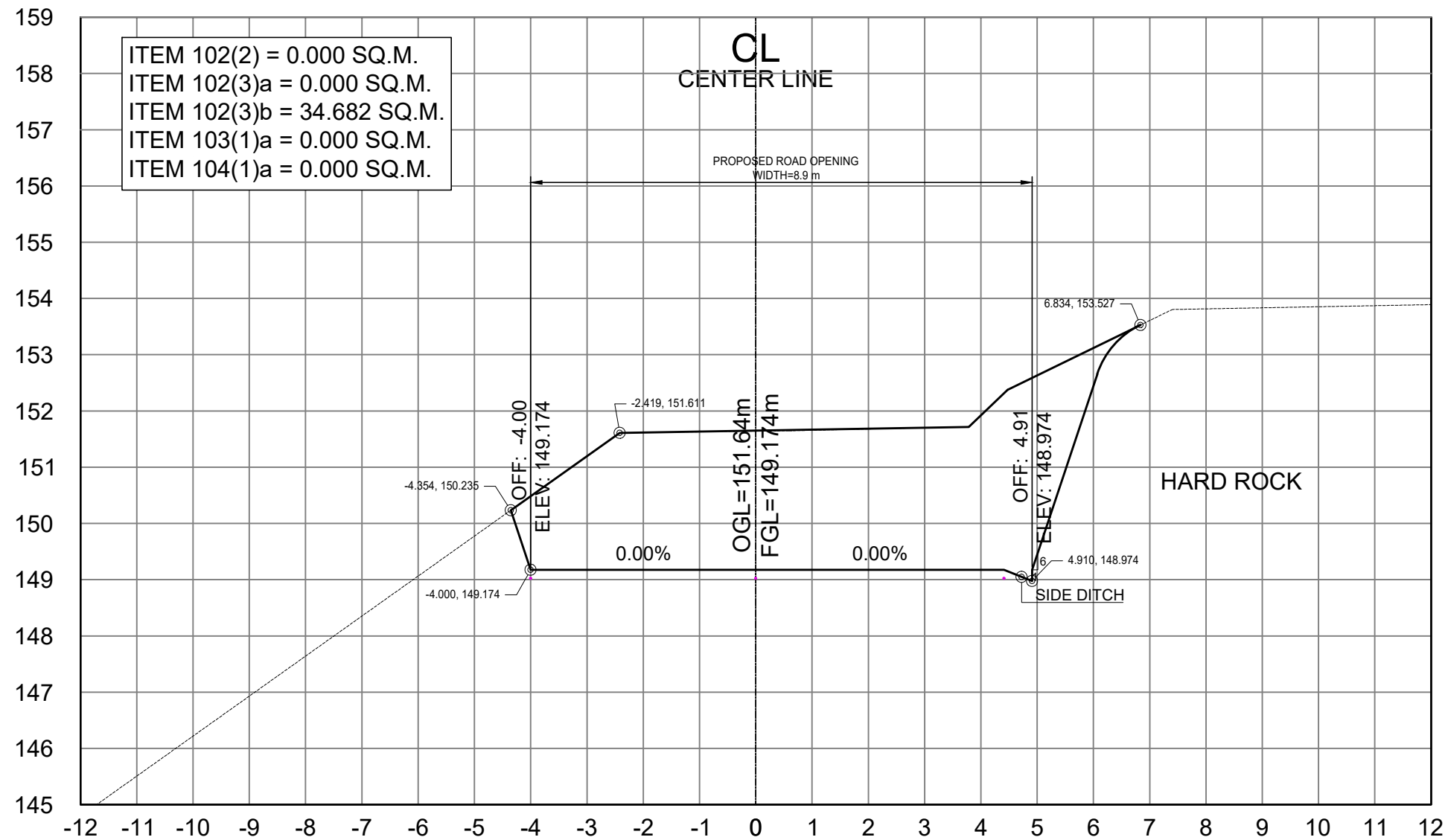
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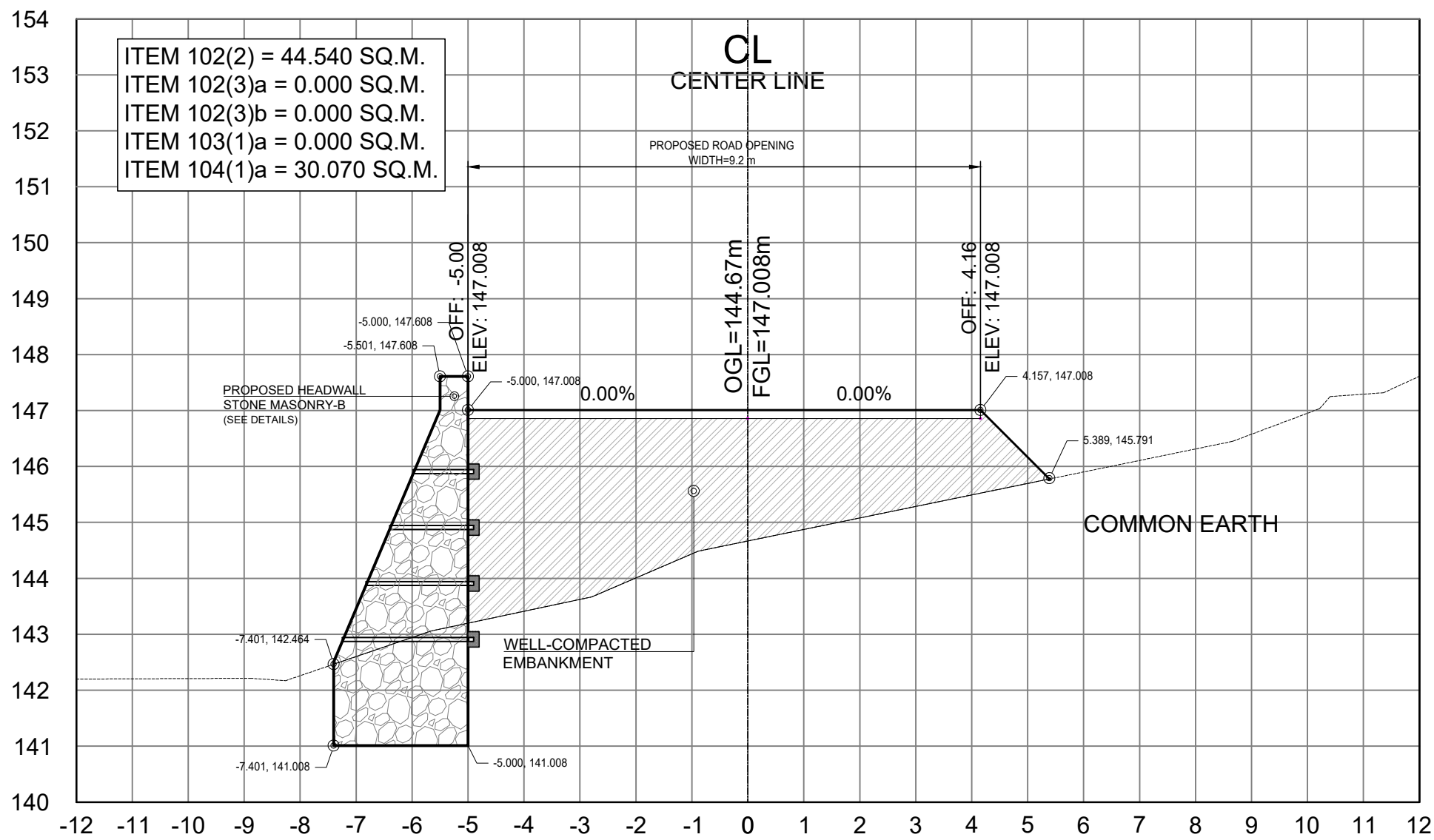
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CROSS SECTIONS	1:100 MTS.



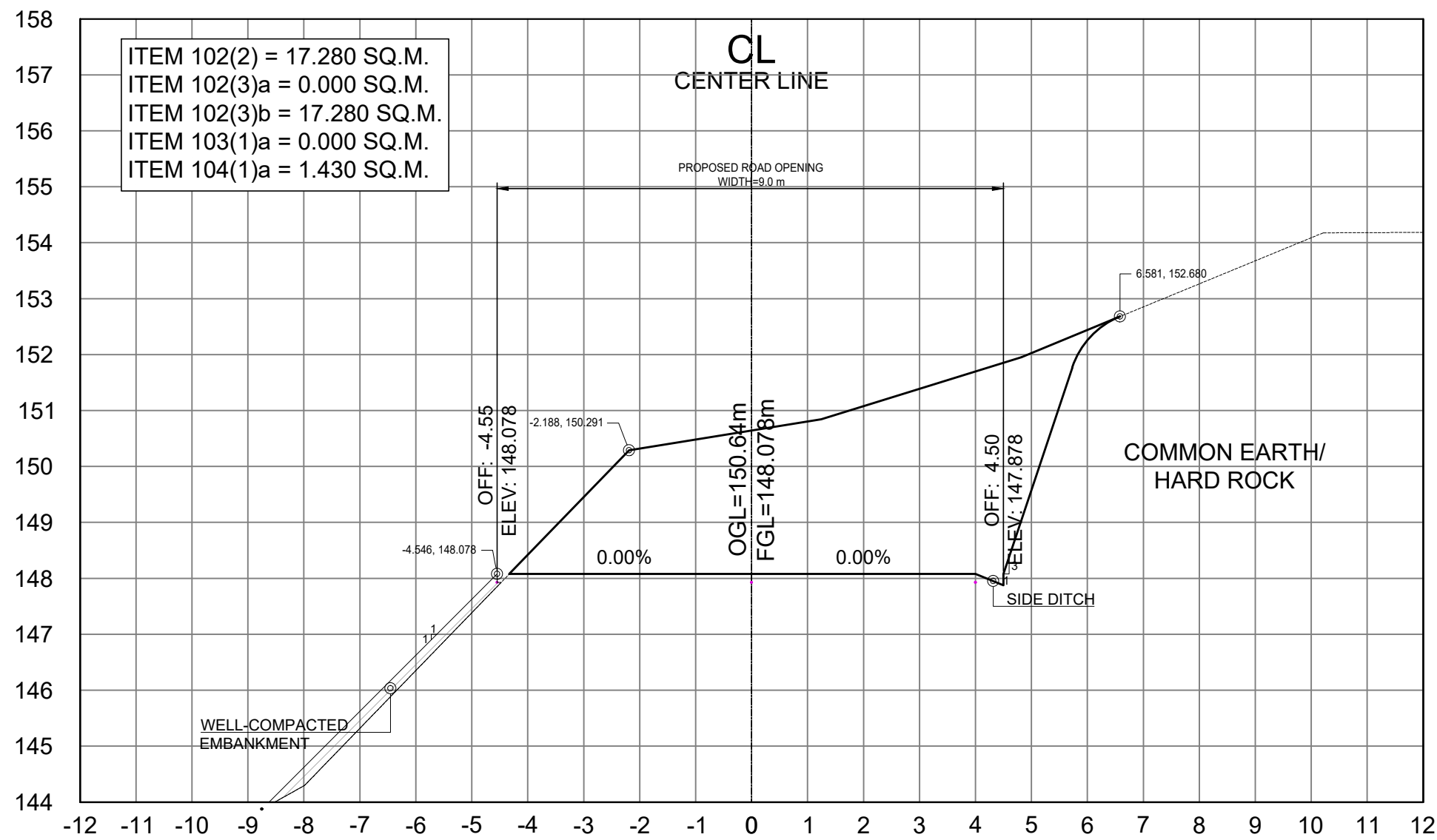
STA. 4+121.75



STA. 4+160.00



STA. 4+120.00



STA. 4+140.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET
TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:
MARK ANTHONY L. FERRER
ENGINEER II
PREPARED:
DEXTER G. BIALNO
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

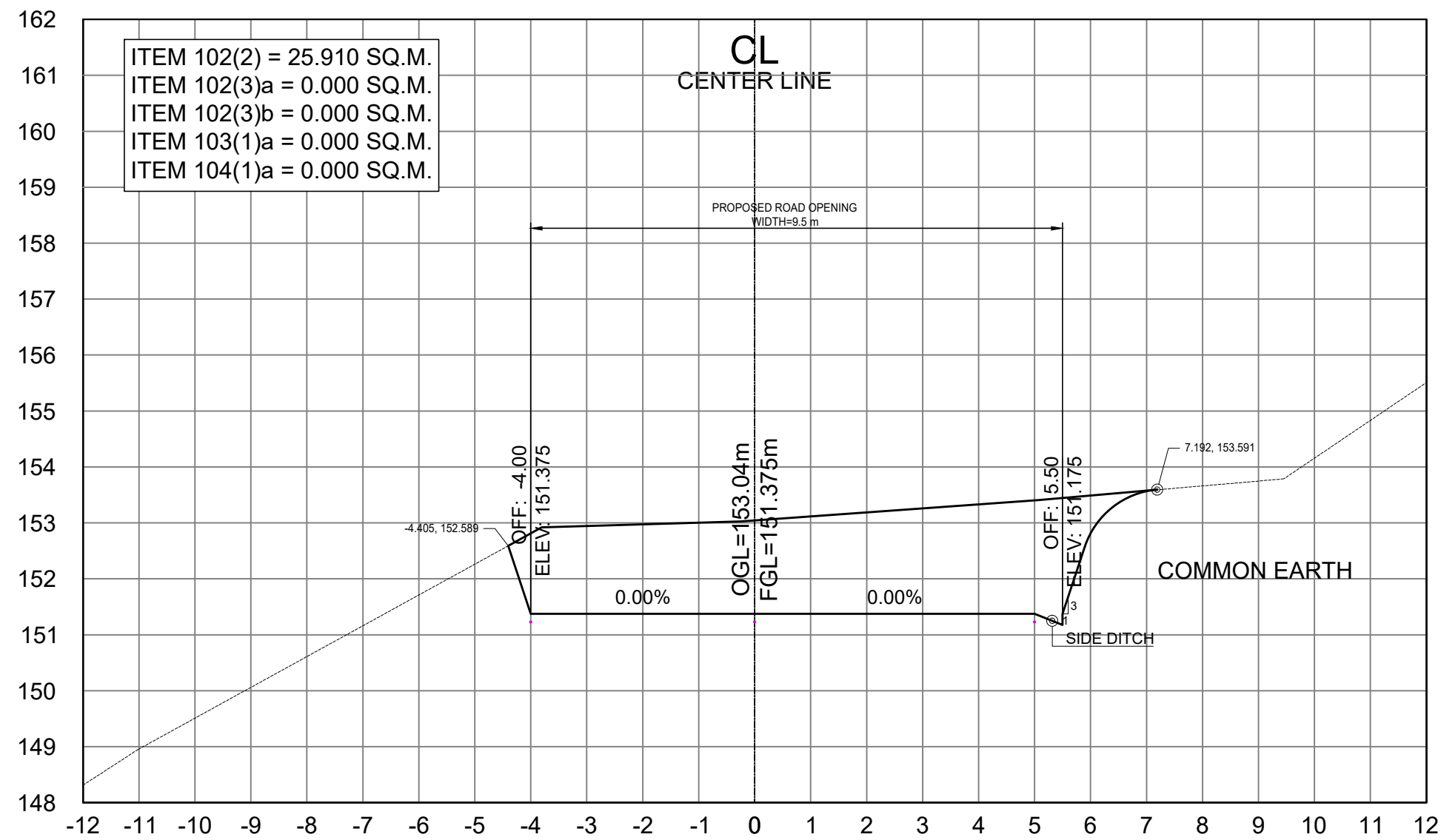
SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

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EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

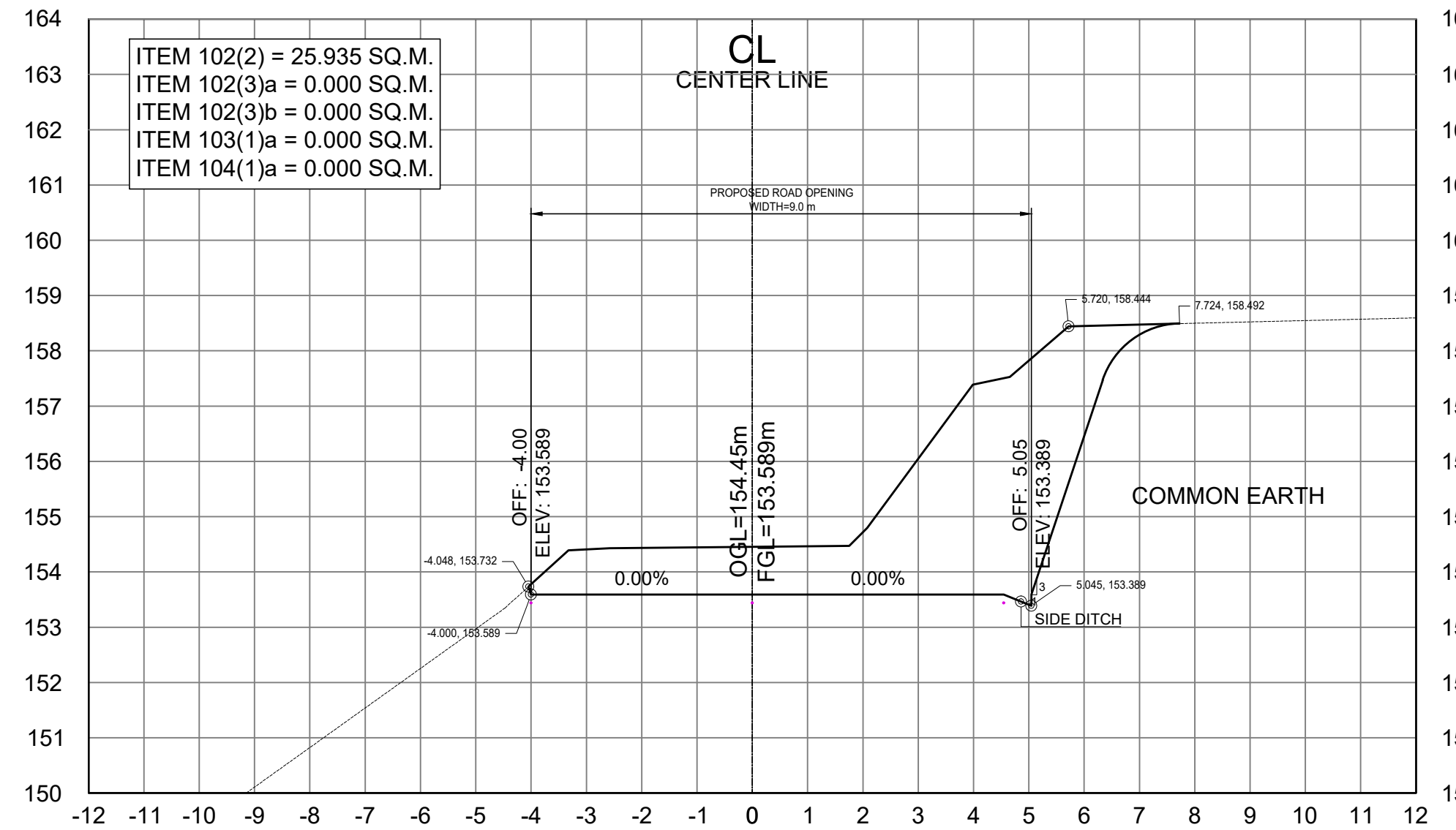
APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

SET NO.
CROSS
SECTION
01 73

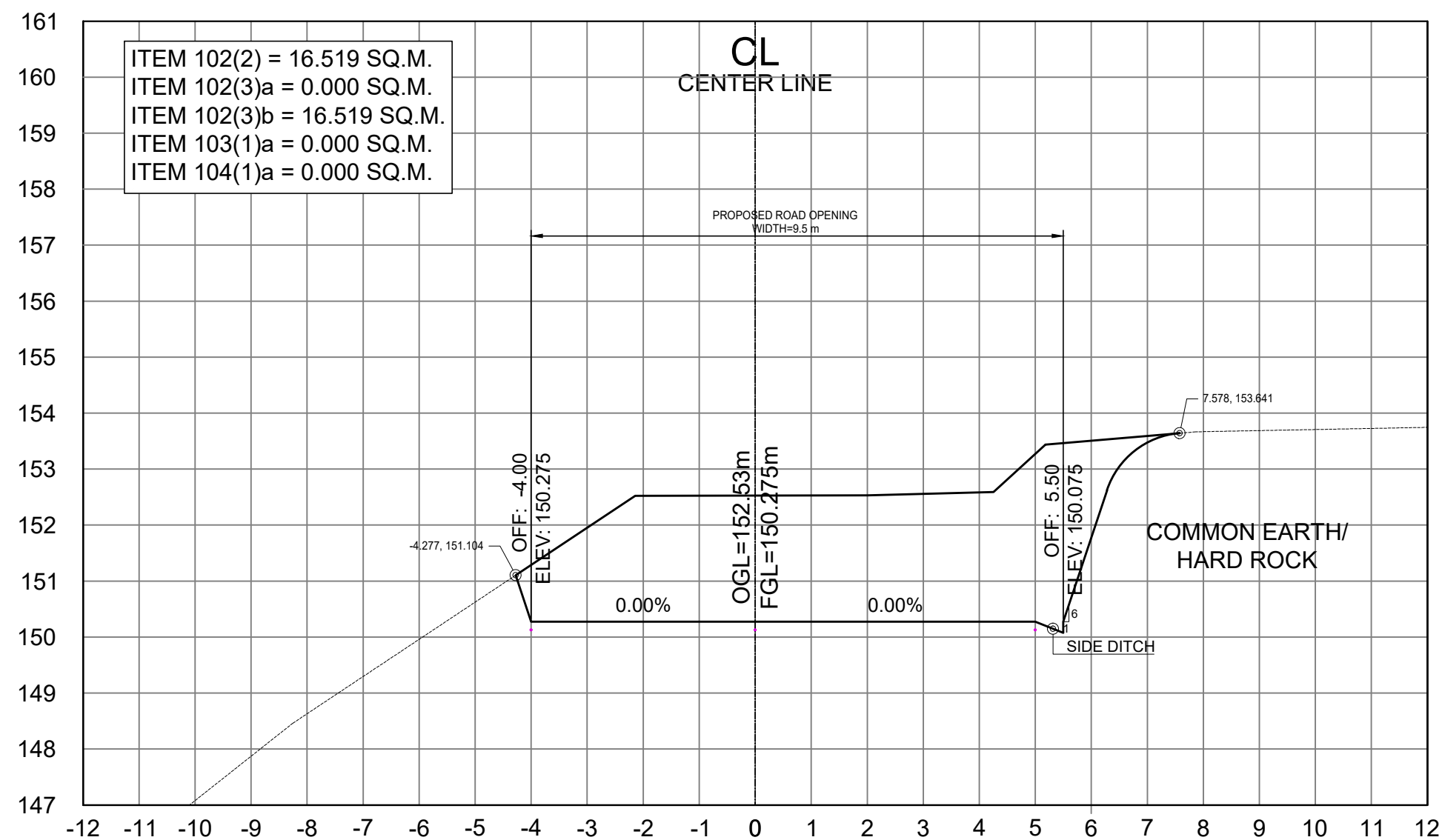
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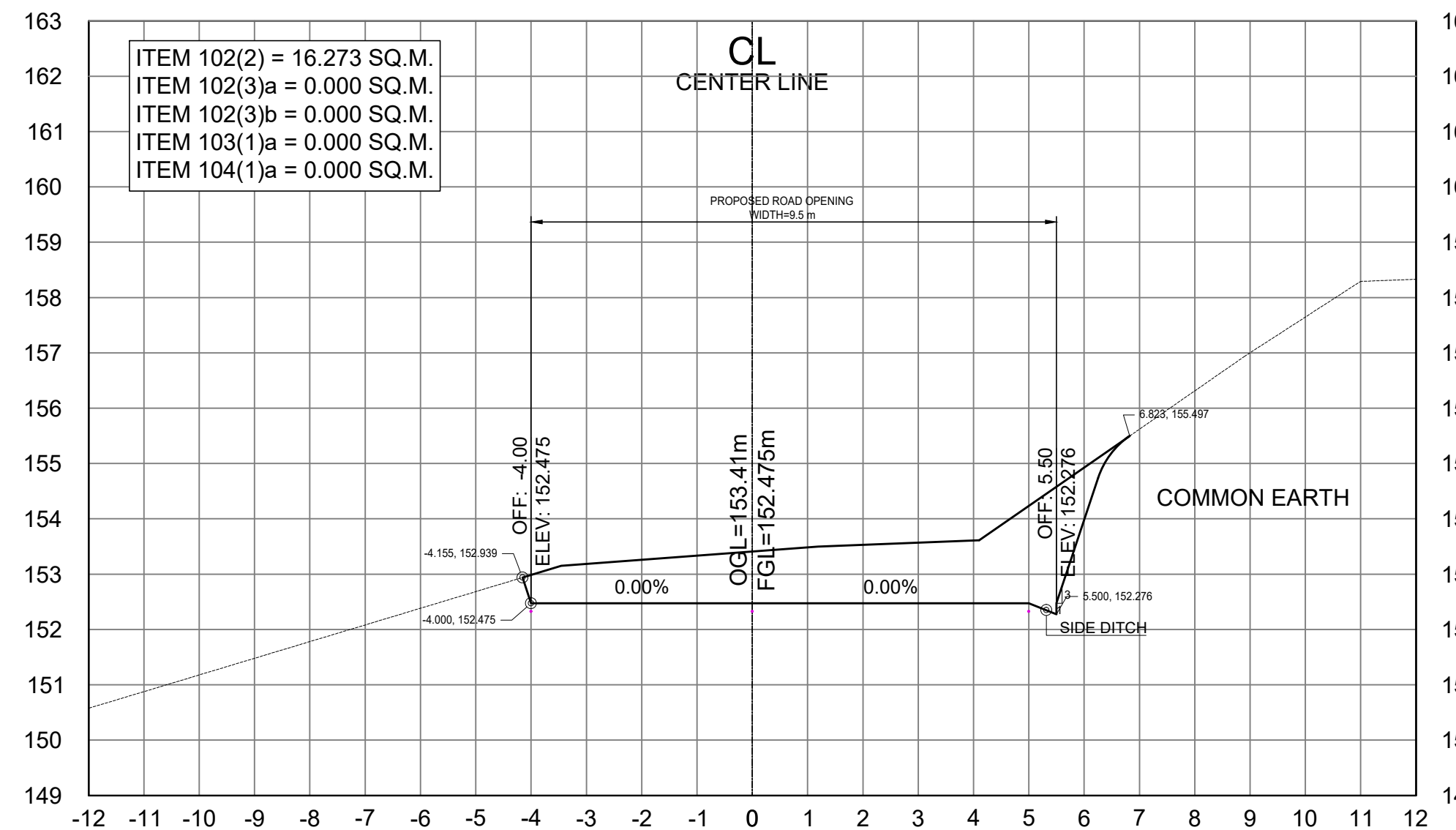
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STA. 4+240.00



STA. 4+180.00



STA. 4+220.00

SCALE	
CROSS SECTIONS	1:100 MTS.



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ASSISTANT DISTRICT ENGINEER

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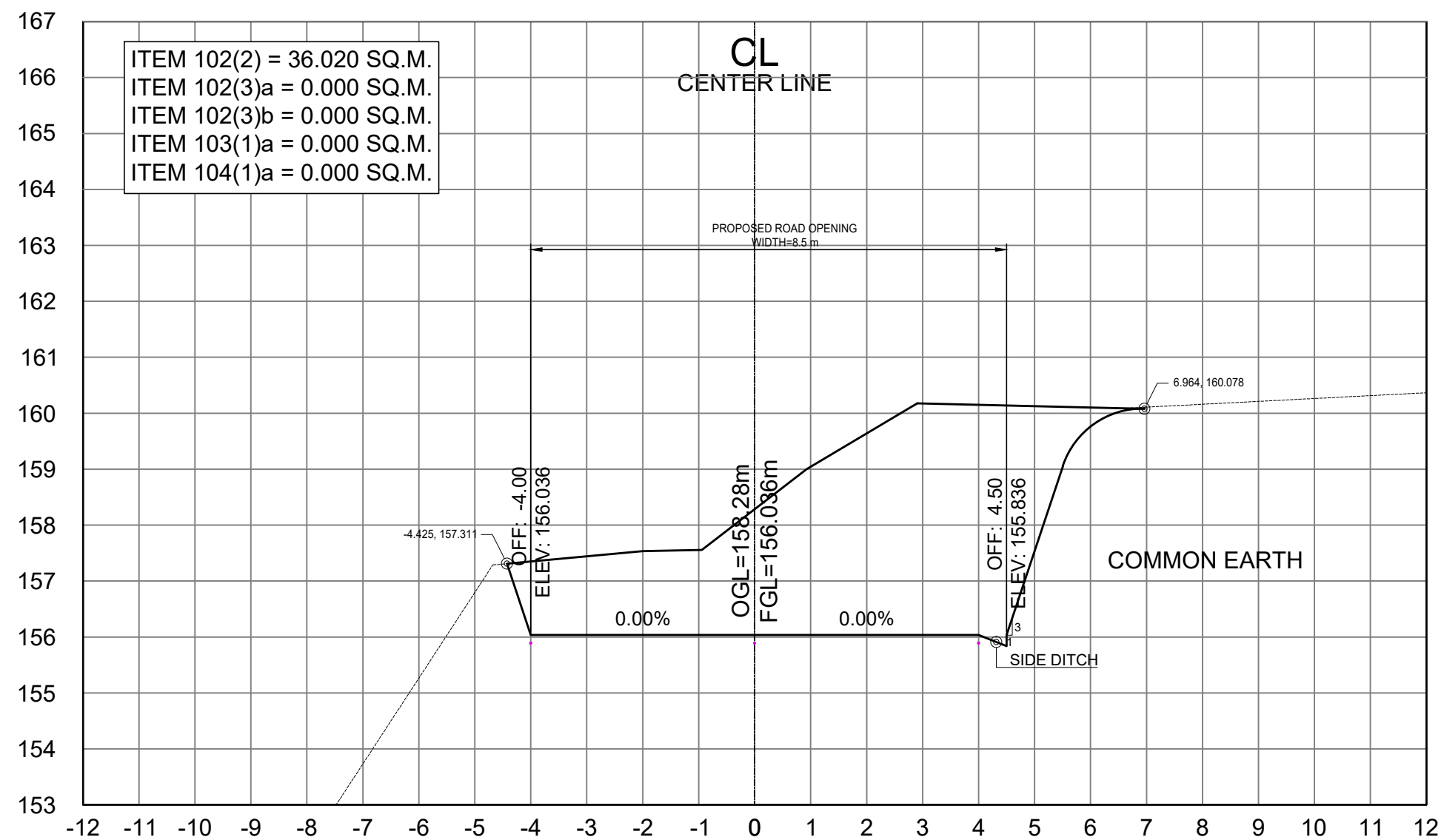
ISAGANI C. CAYME, CESE
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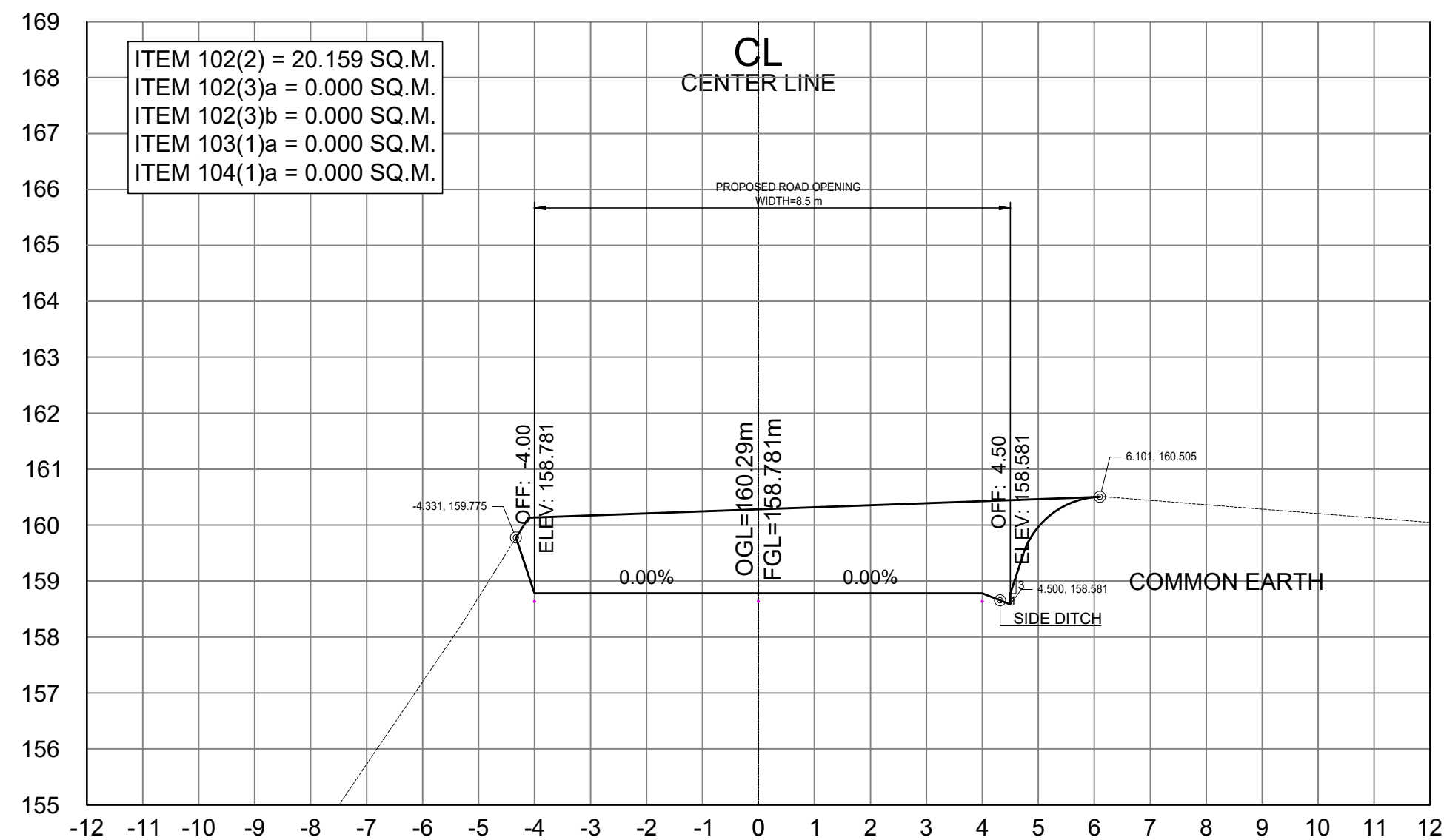
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01 | 73

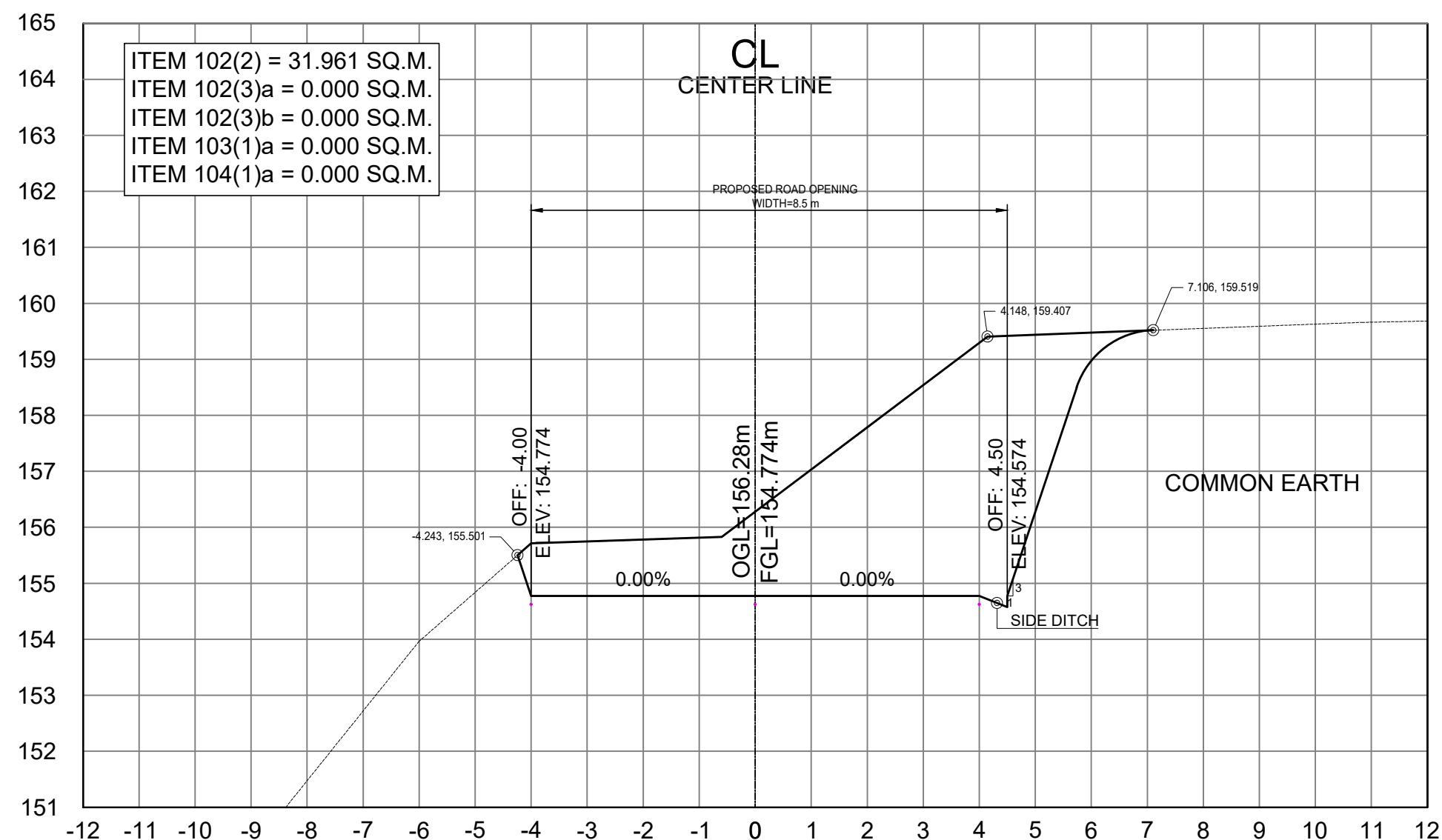
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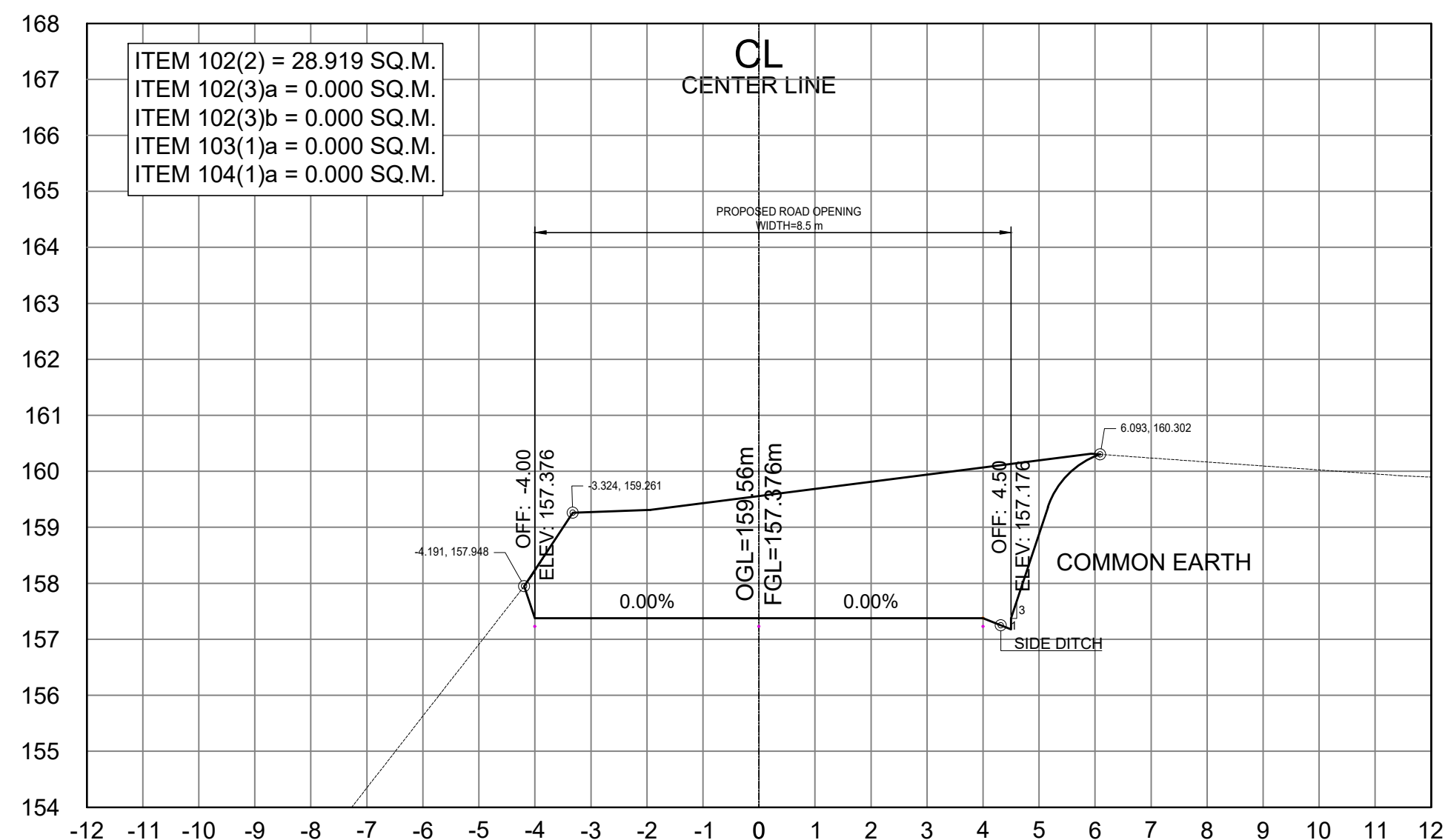
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STA. 4+320.00



STA. 4+260.00



STA. 4+300.00

SCALE	
CROSS SECTIONS	1:100 MTS.



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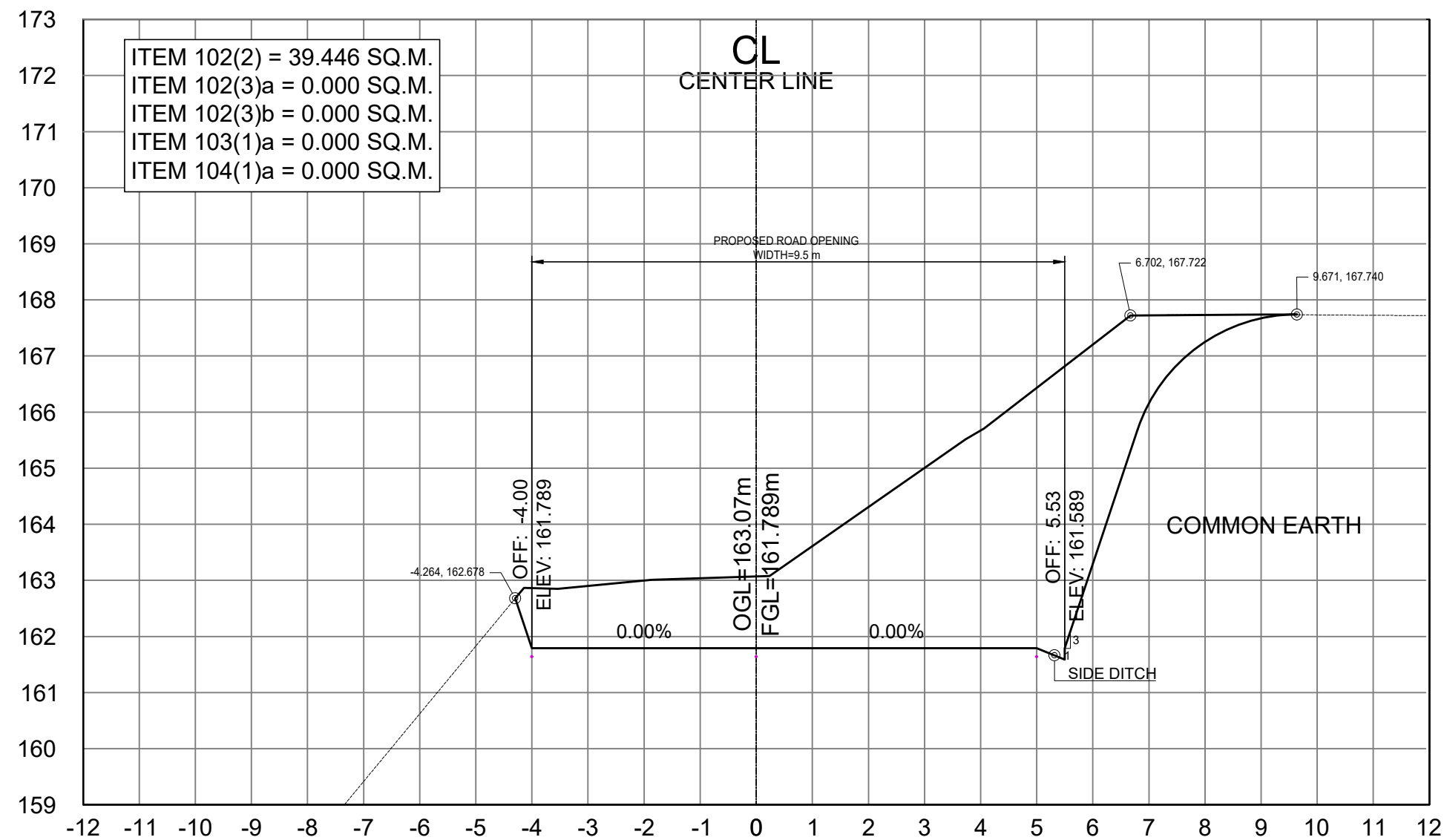
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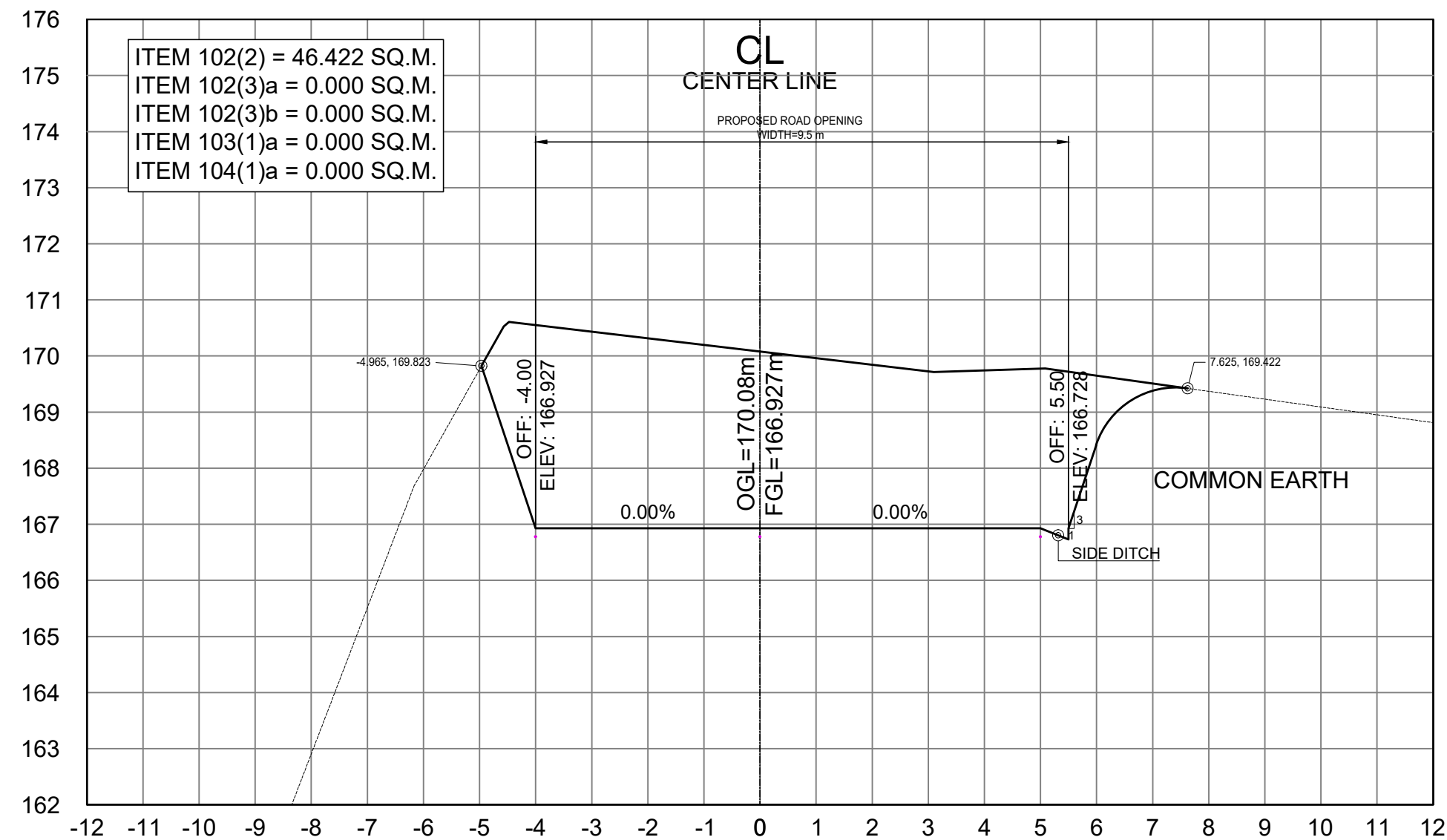
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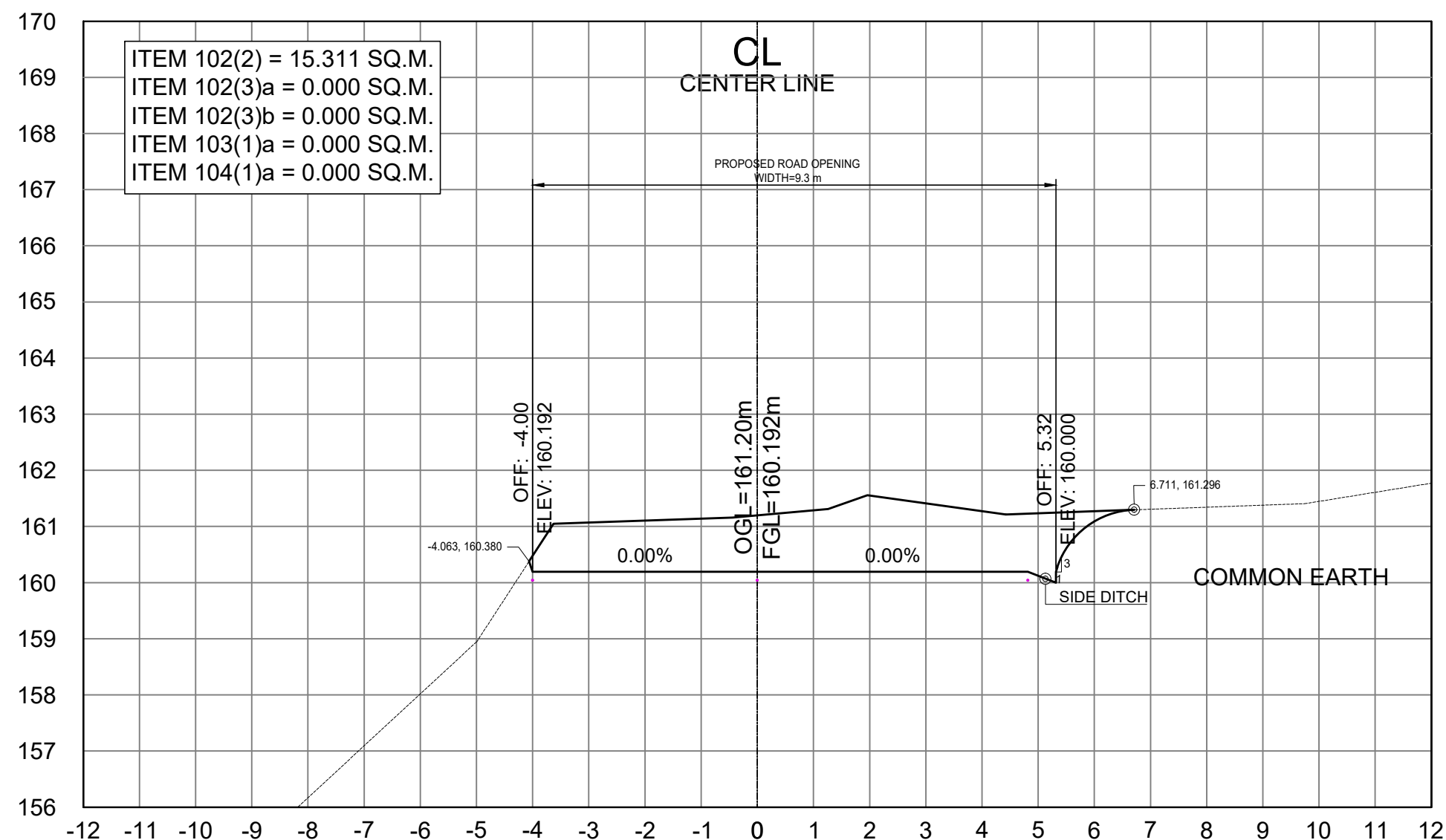
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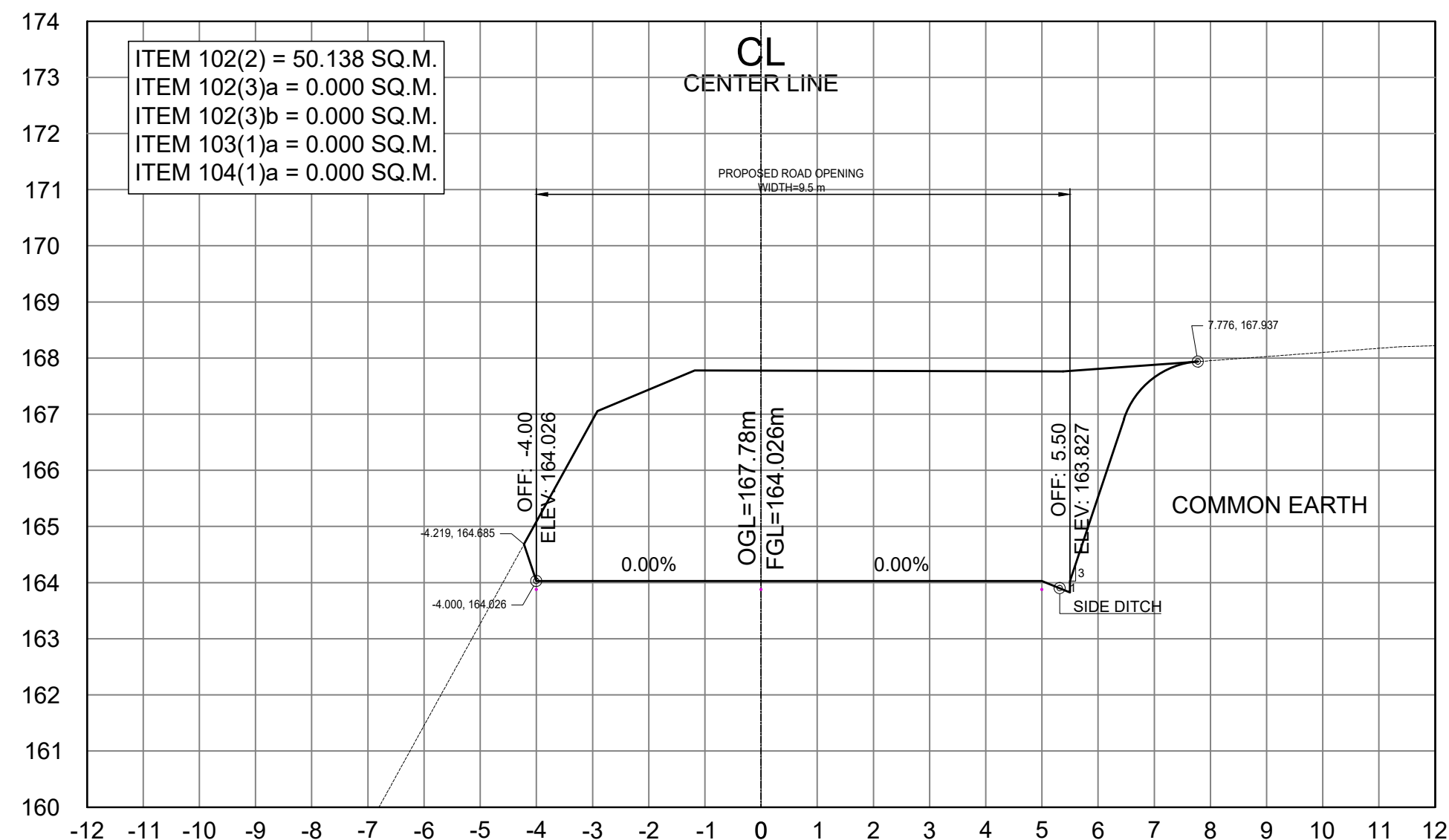
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STA. 4+400.00



STA. 4+340.00



STA. 4+380.00

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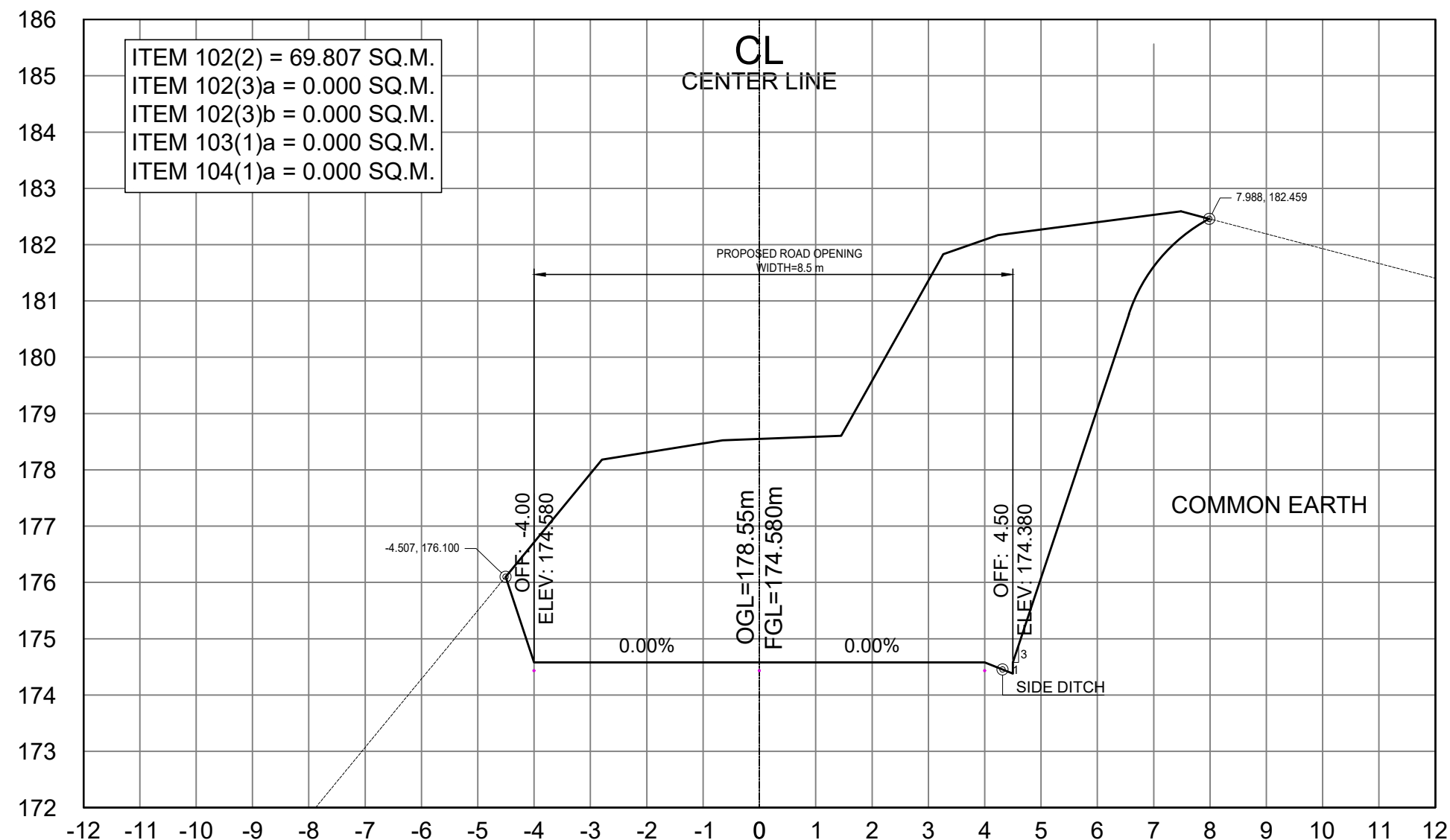
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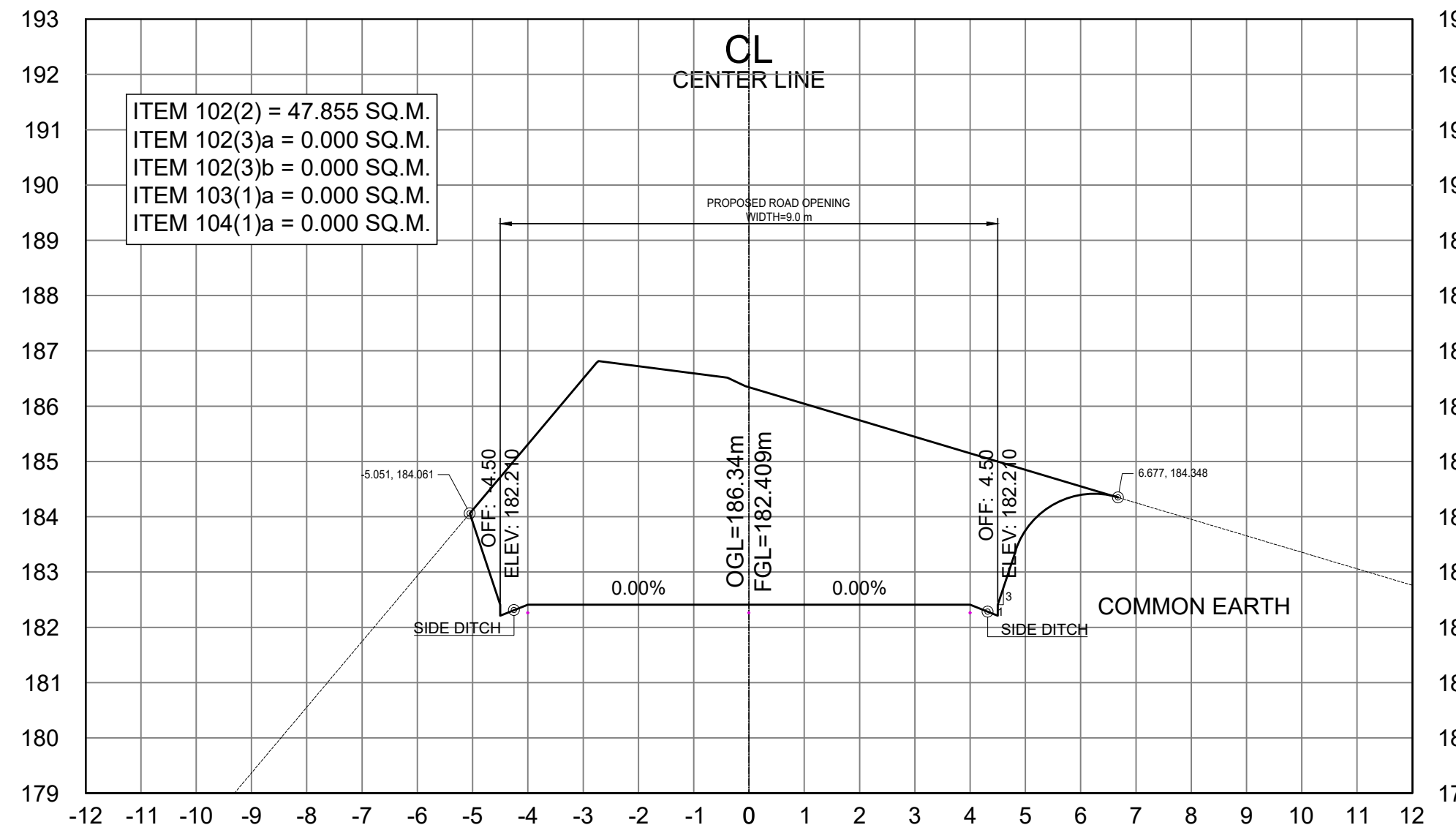
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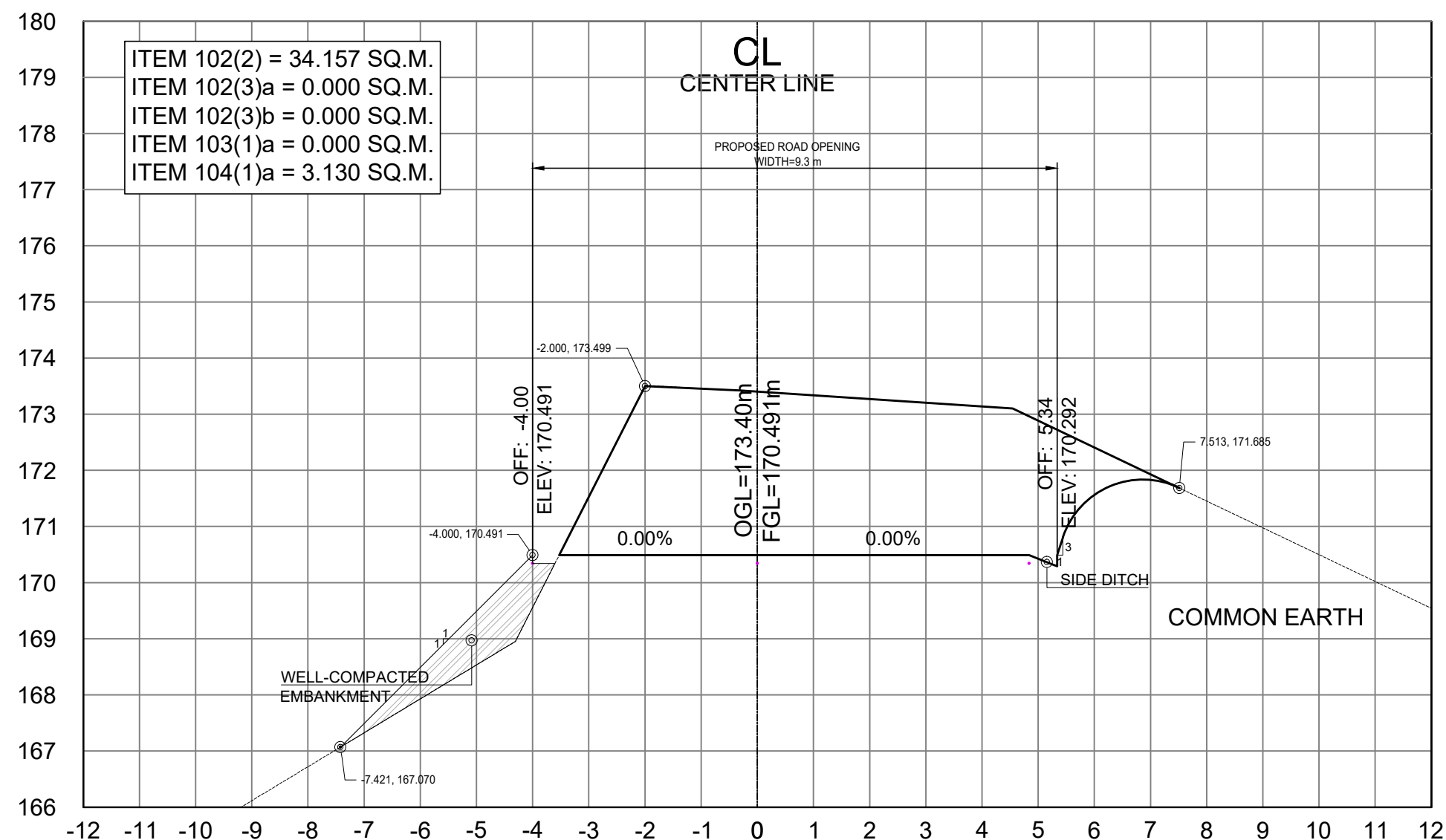
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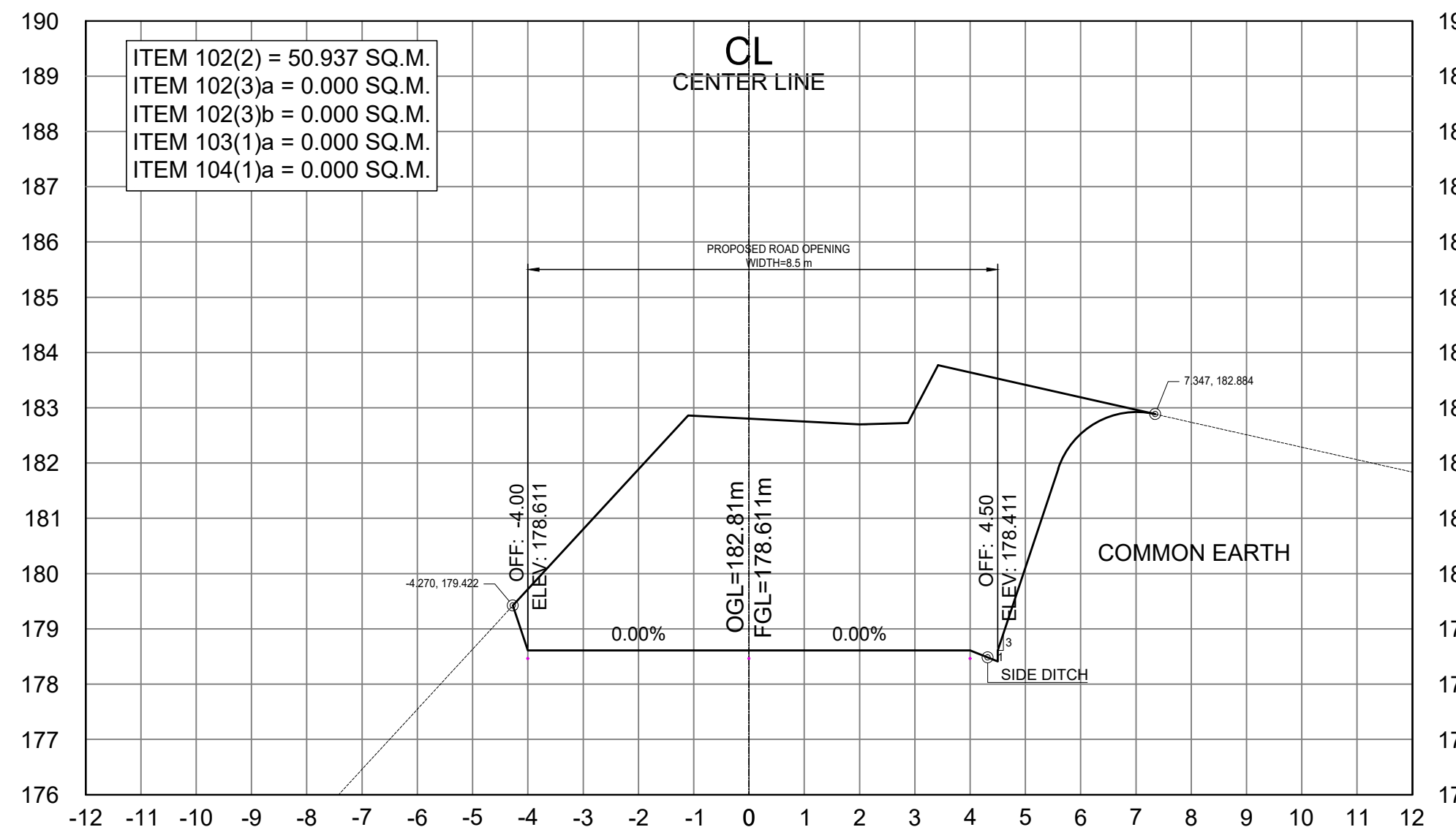
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STA. 4+420.00



STA. 4+460.00

SCALE	
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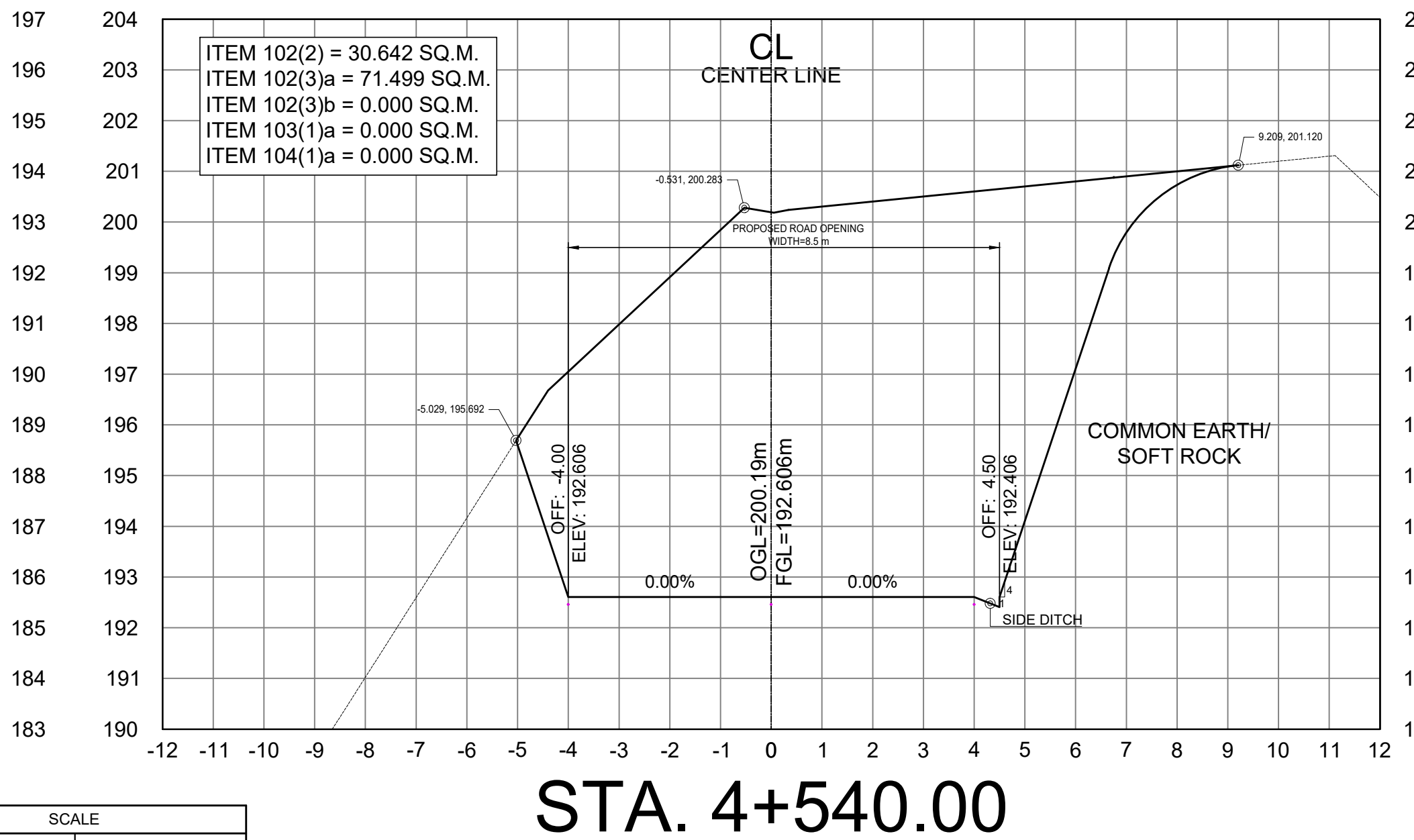
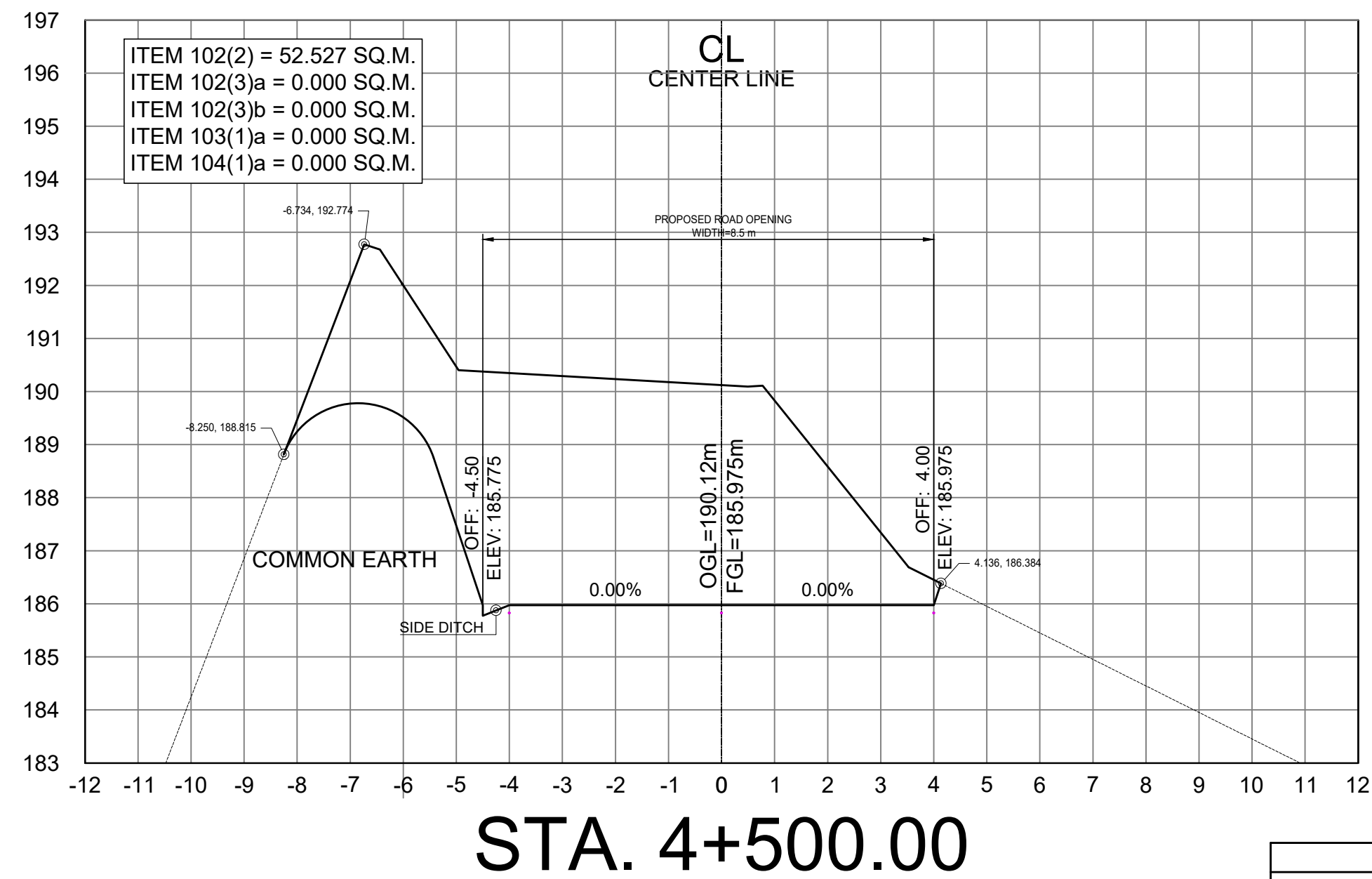
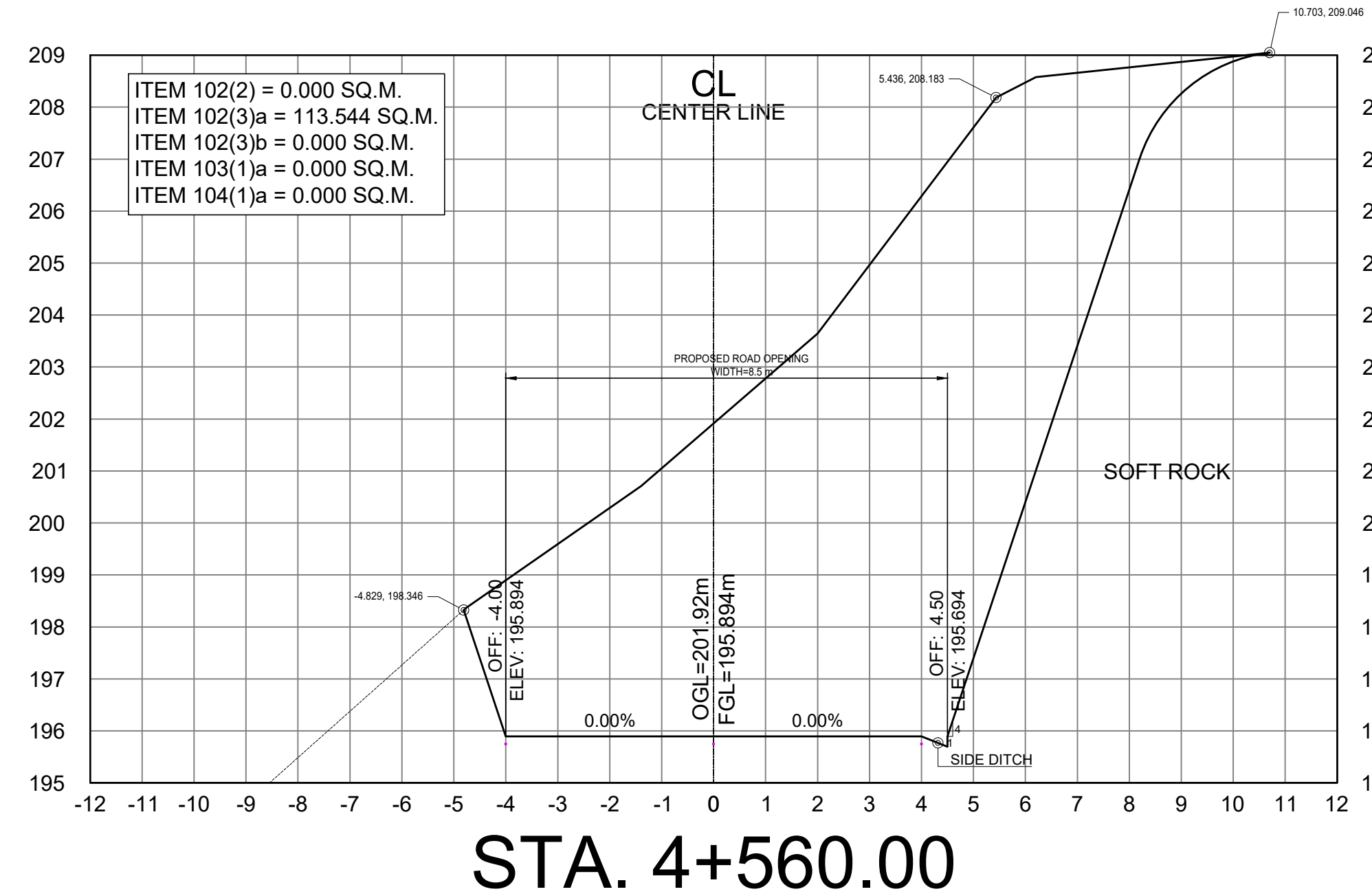
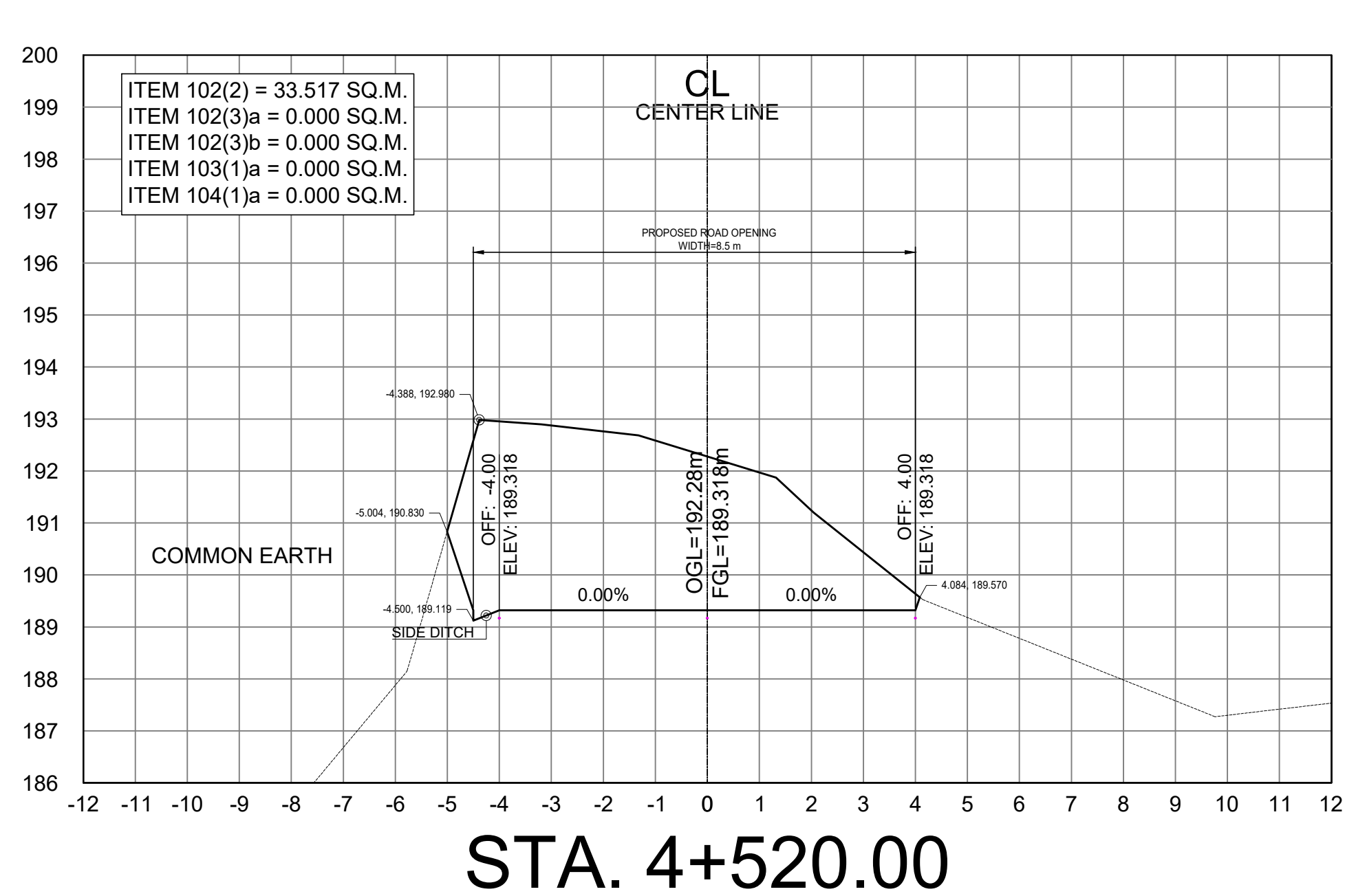
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96
120

SHEET NO.



SCALE	
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BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAK -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

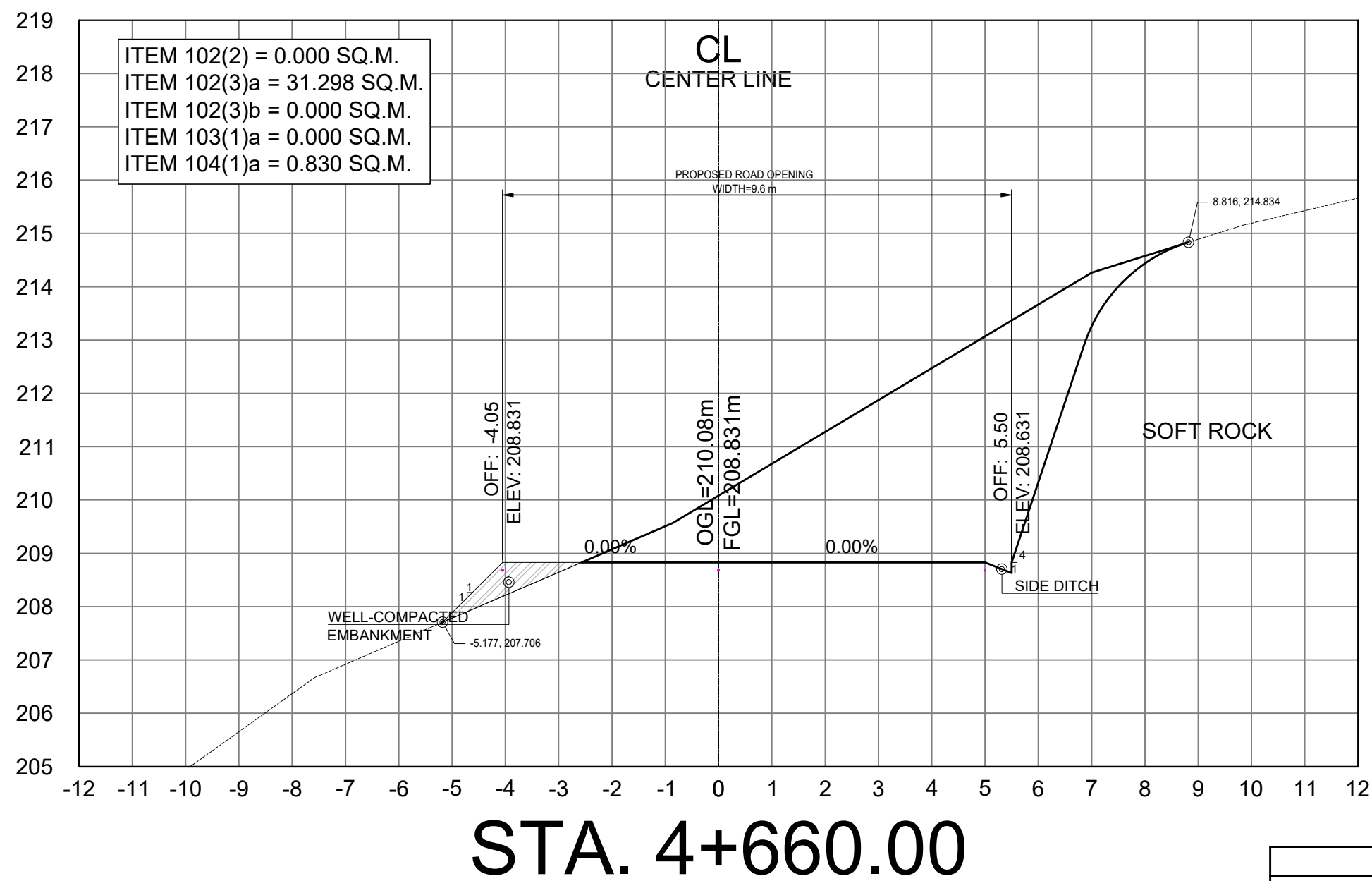
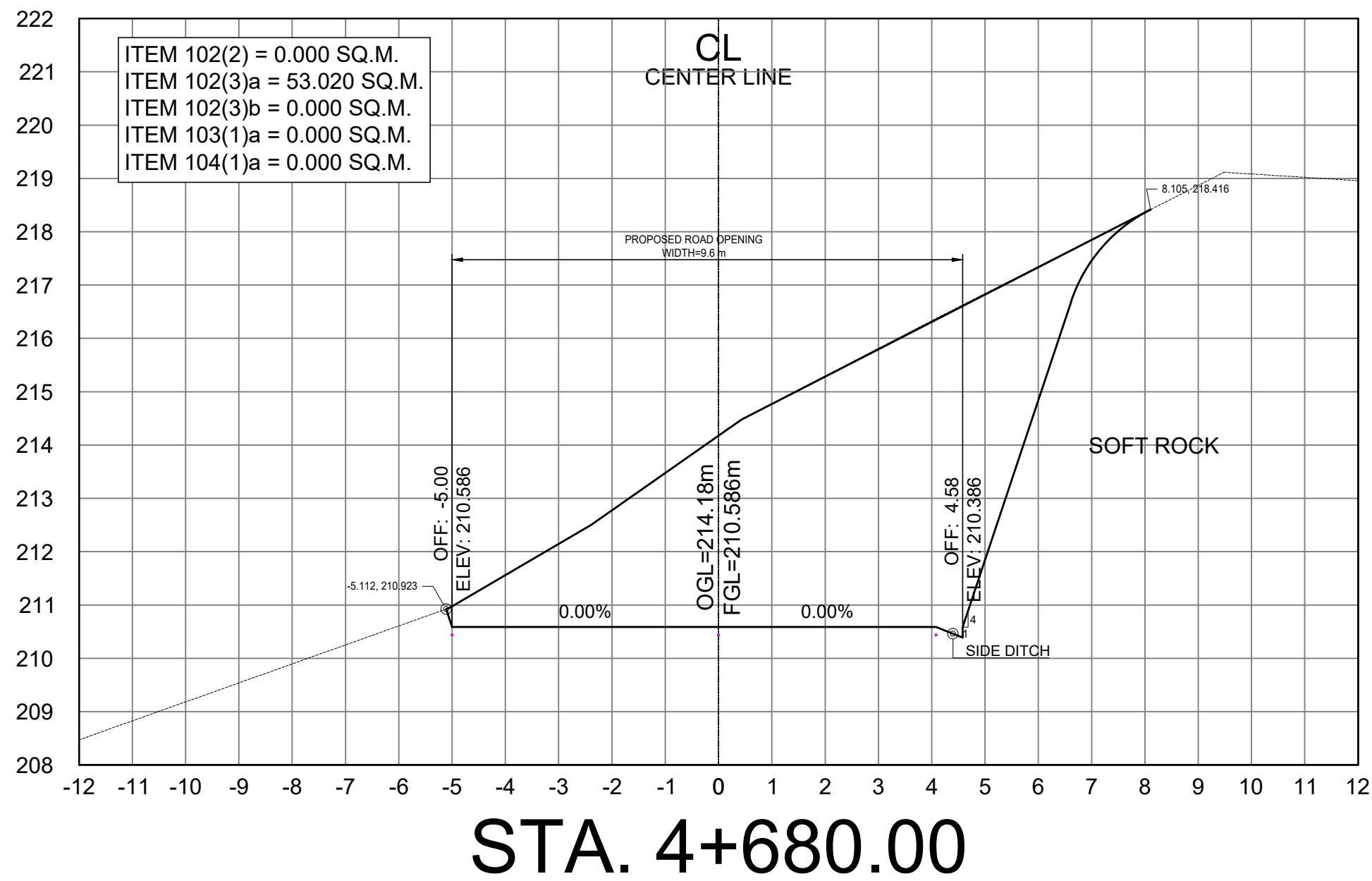
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

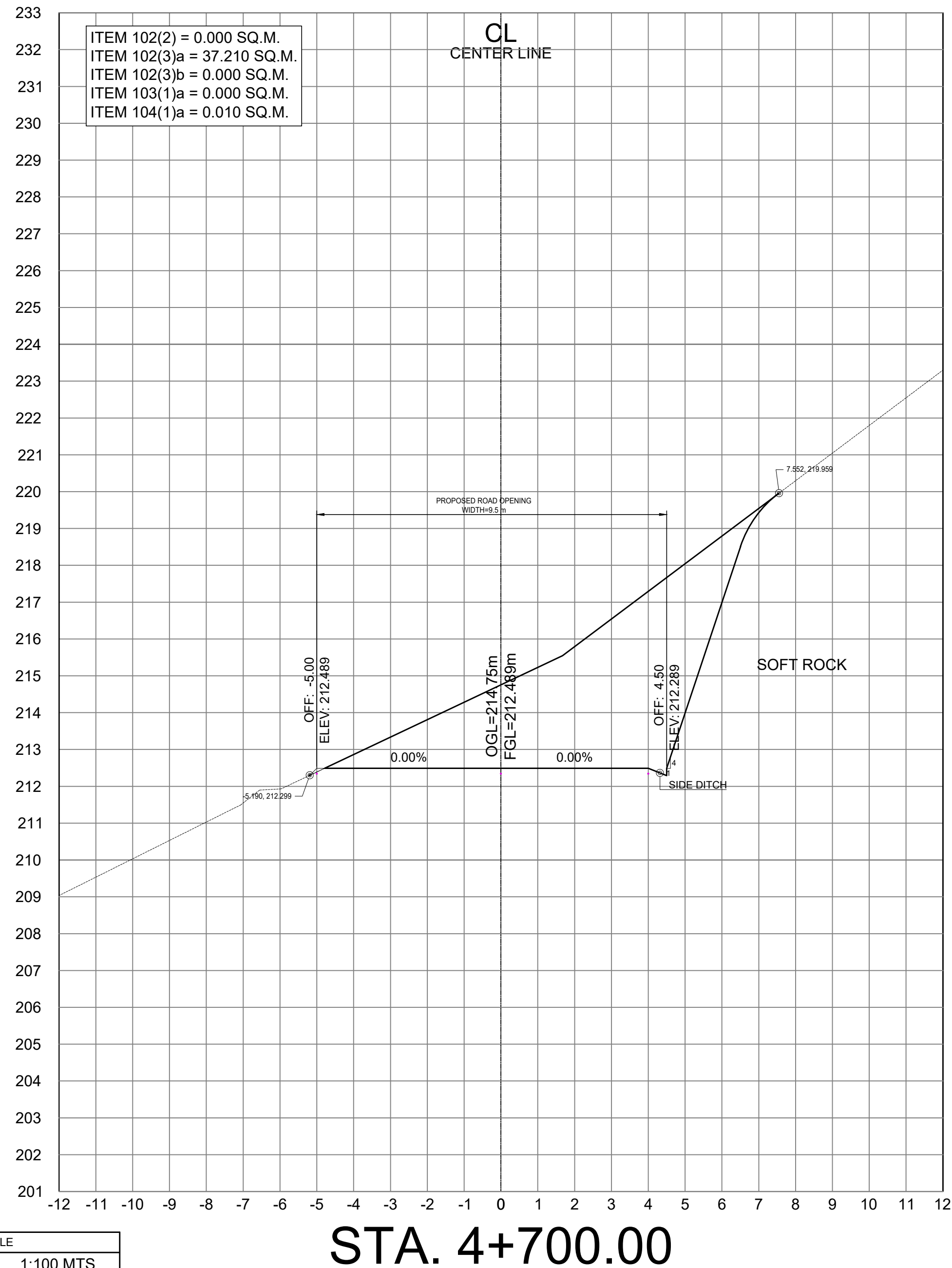
SET NO.

CROSS
SECTION
01 | 73

97
120



SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
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ISAGANI C. CAYME, CESE
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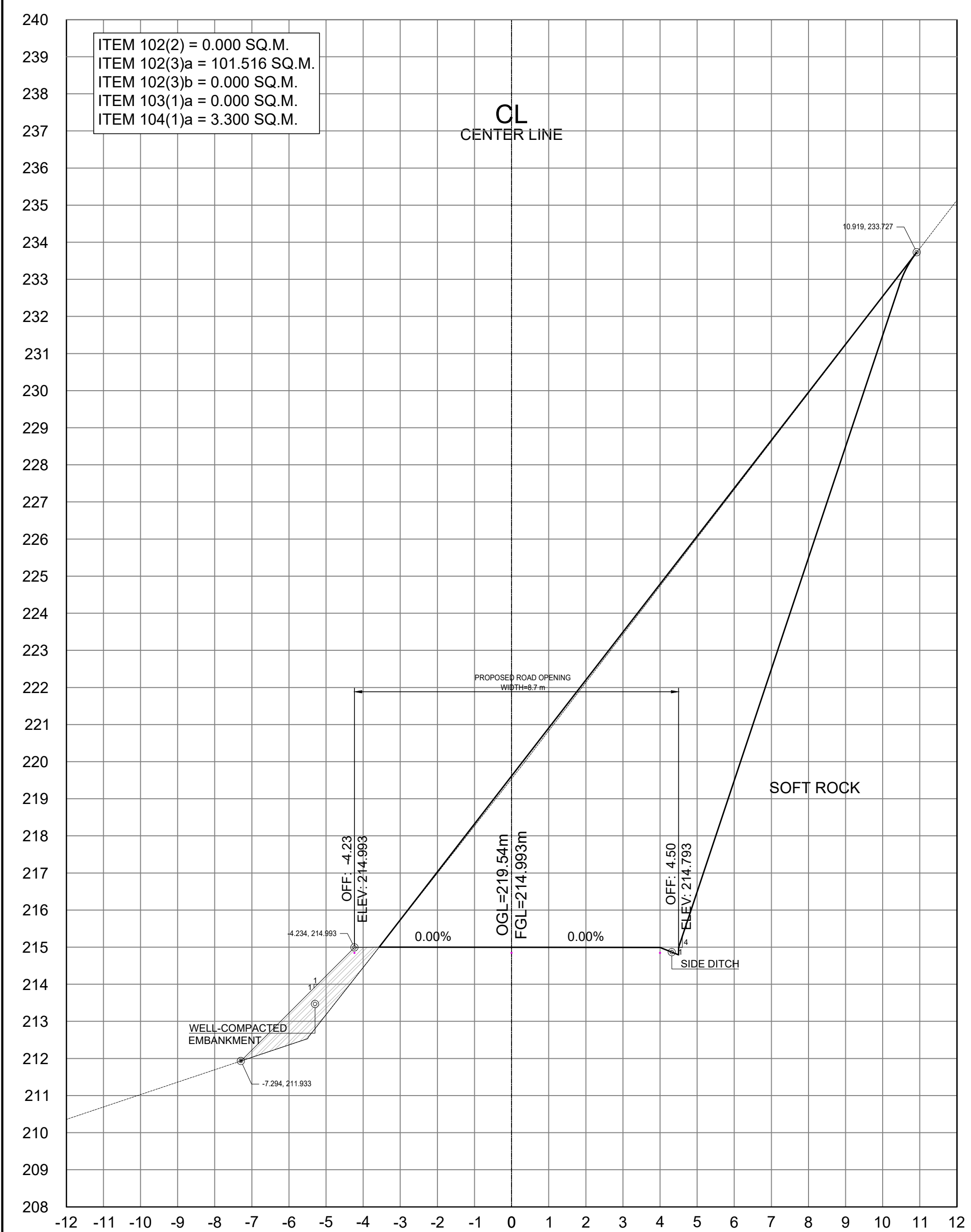
DATE:

SET NO.

CROSS
SECTION
01 73

SHEET NO.

99
120



STA. 4+720.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
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WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**
TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:
MARK ANTHONY L. FERRER
ENGINEER II
PREPARED:
DEXTER G. BIALNO
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

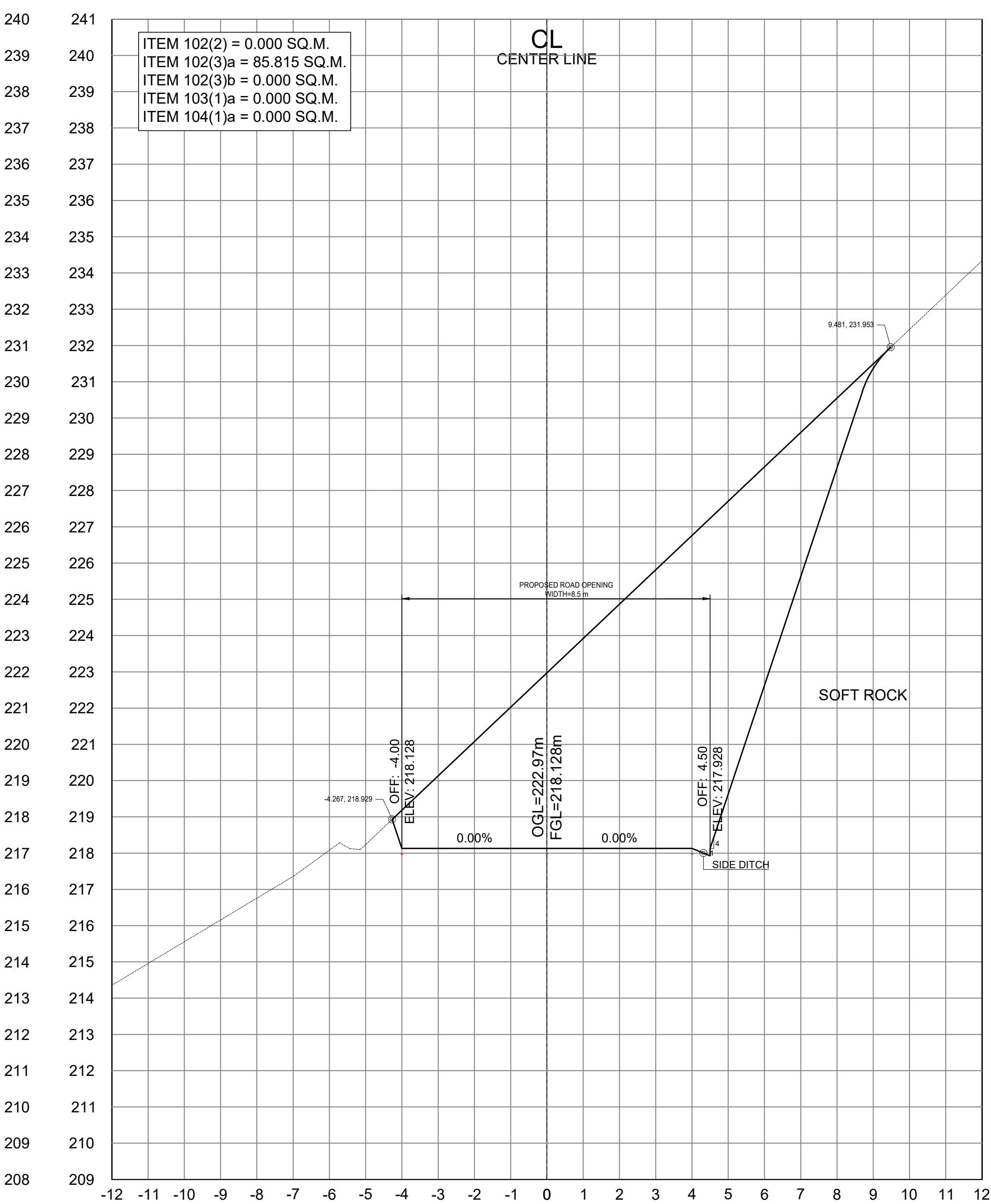
SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
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DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
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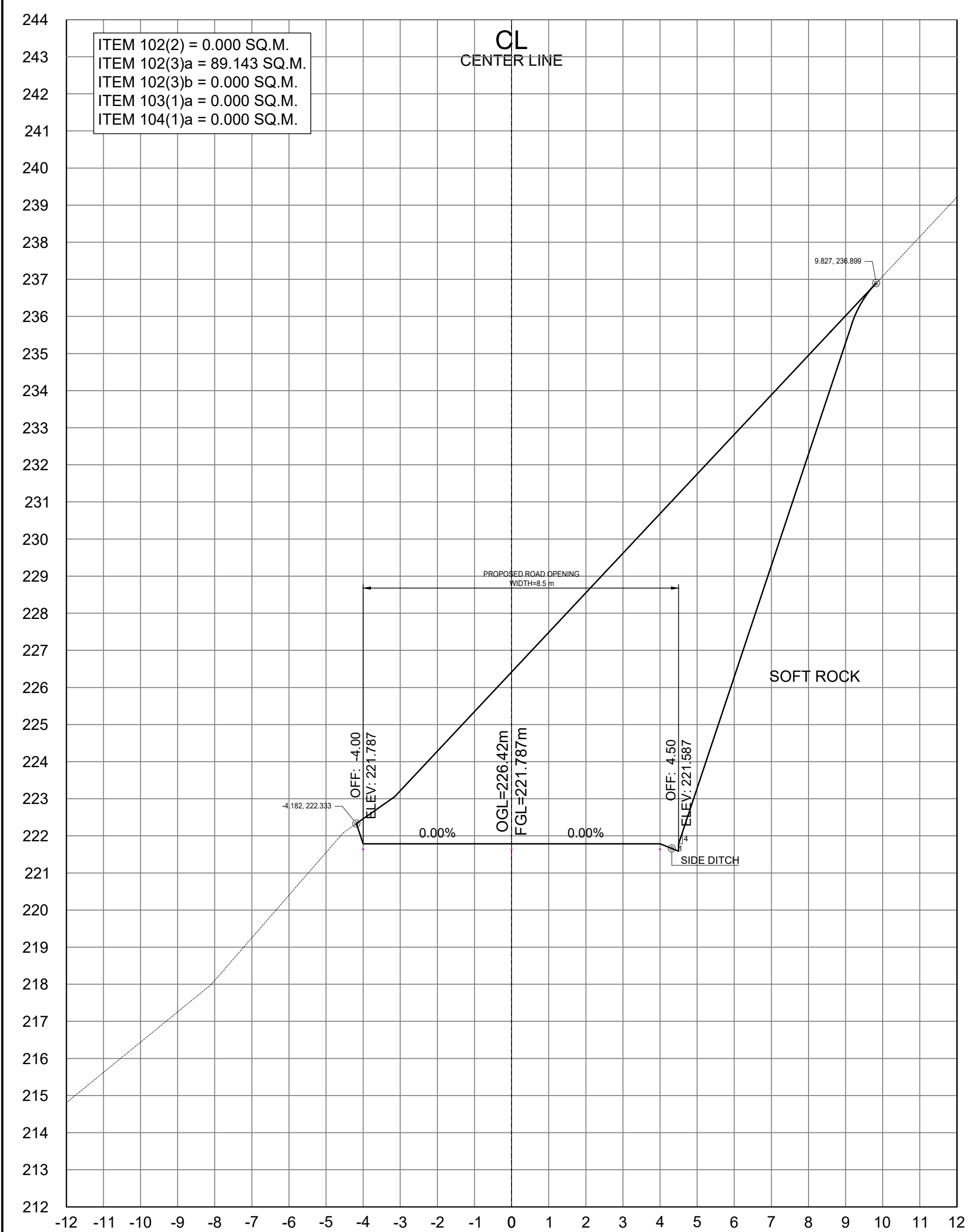
APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

SET NO.
CROSS
SECTION
01 | 73

SHEET NO.
100
120



STA. 4+740.00



STA. 4+760.00

SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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ENGINEER II
PREPARED:
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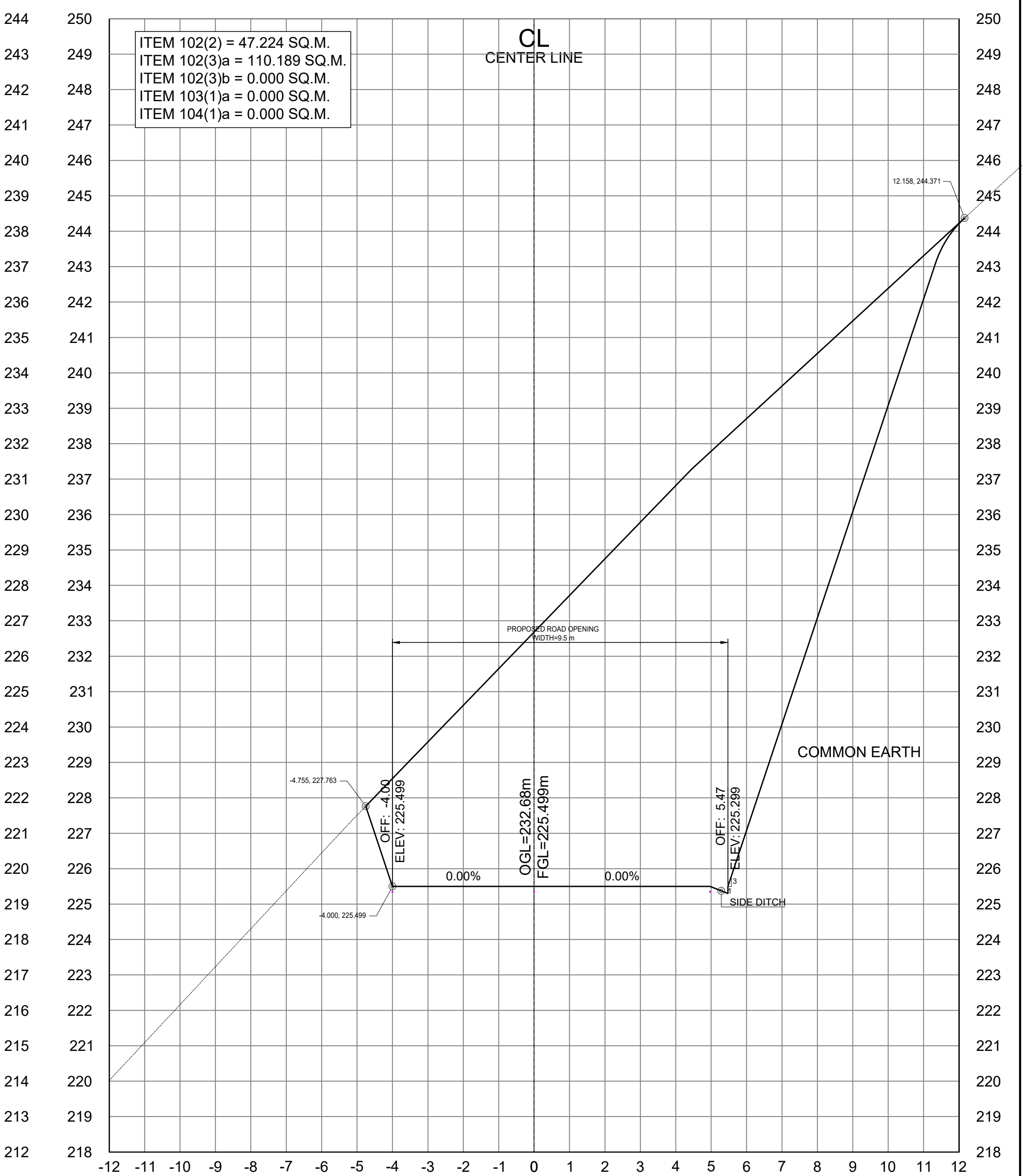
SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

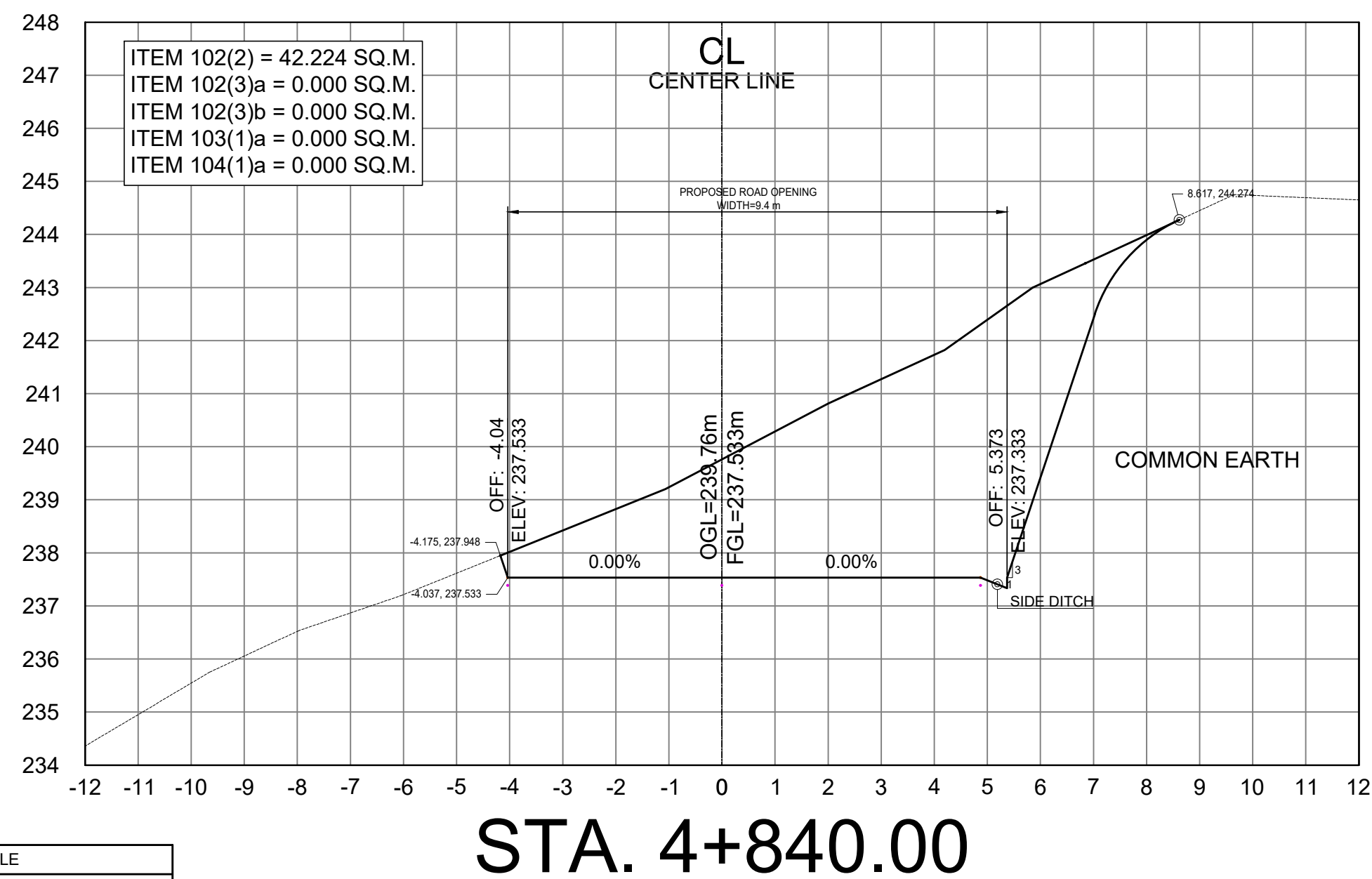
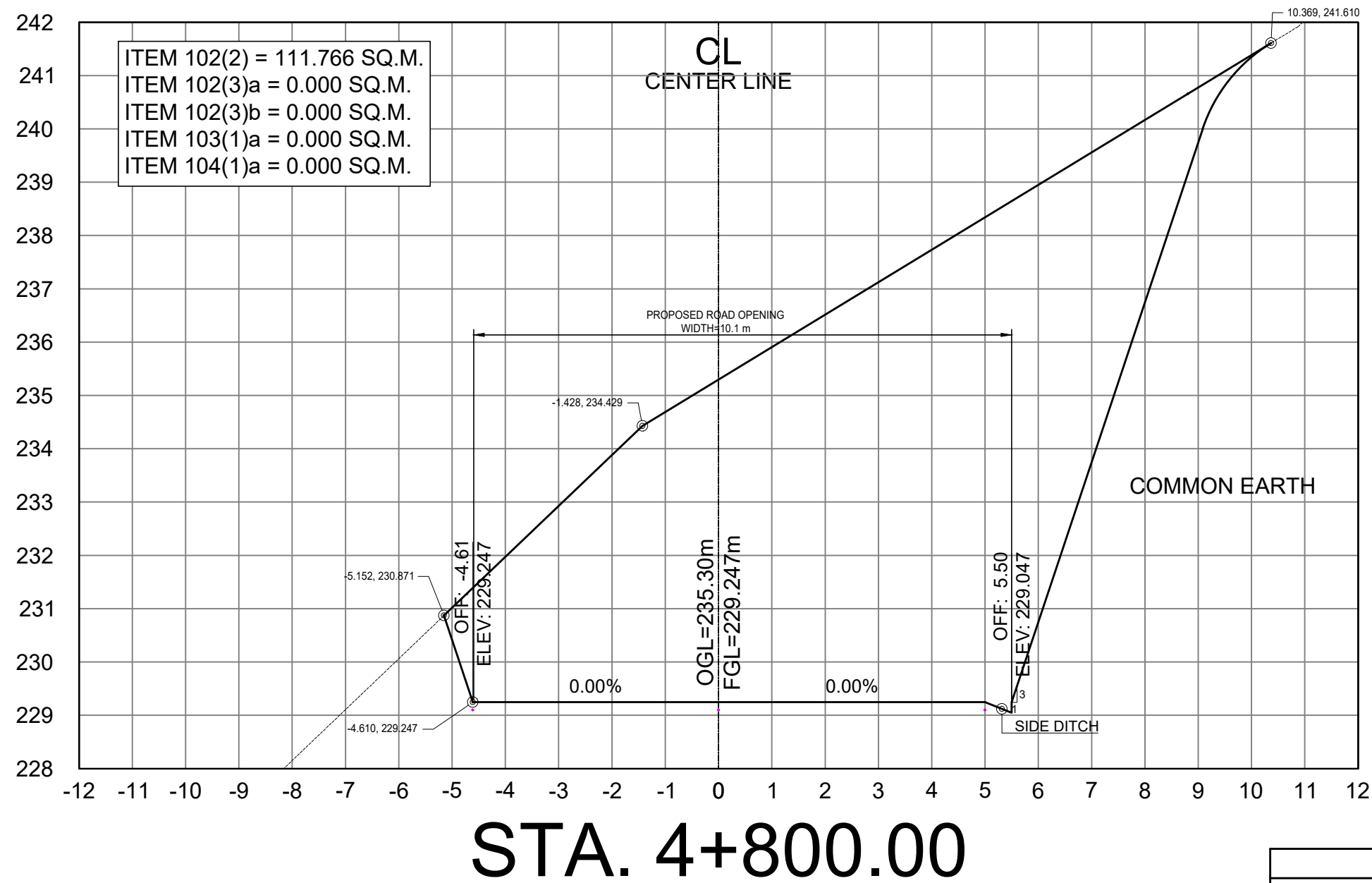
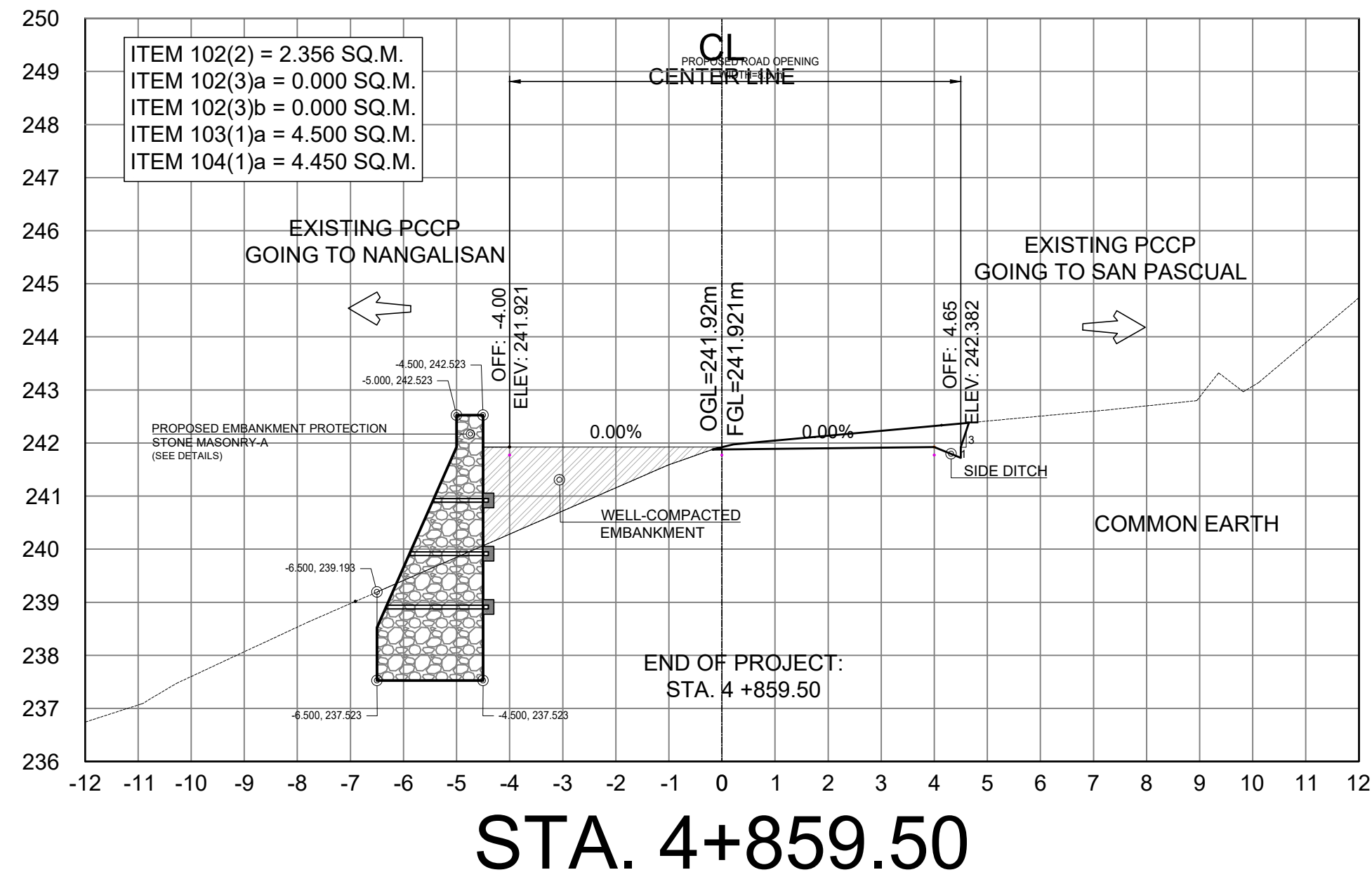
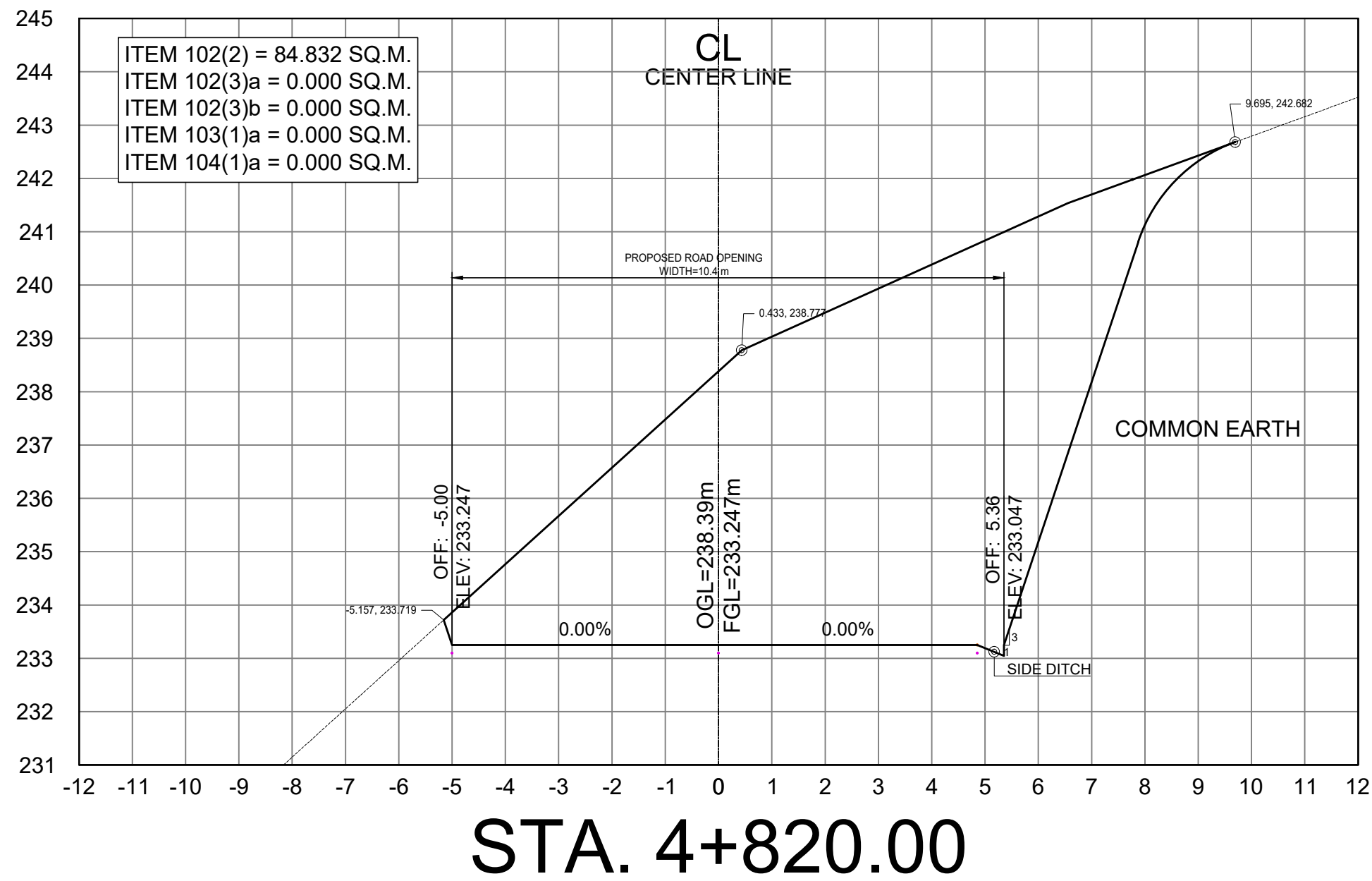
APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

CROSS SECTION
01 | 73

101
120



STA. 4+780.00



SCALE	
CROSS SECTIONS	1:100 MTS.



REPUBLIC OF THE PHILIPPINES
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PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

DRAFTED:

MARK ANTHONY L. FERRER
ENGINEER II

PREPARED:

DEXTER G. BIALNO
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REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION

DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION

DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER

DATE:

APPROVED:

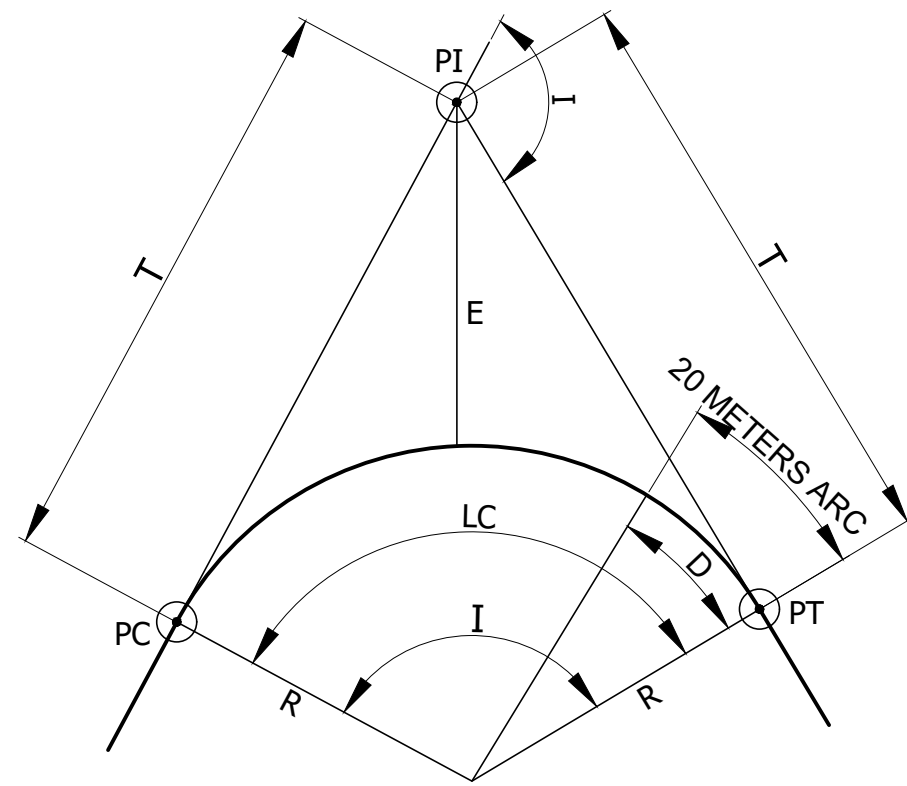
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER

DATE:

SET NO.

CROSS
SECTION
01 73

102
120



FORMULA :

$$T = R (\tan I / 2)$$

$$L_c = (\pi / 180) \cdot I \cdot R$$

$$D = 1145.916 / R$$

$$E = T (\tan I / 4)$$

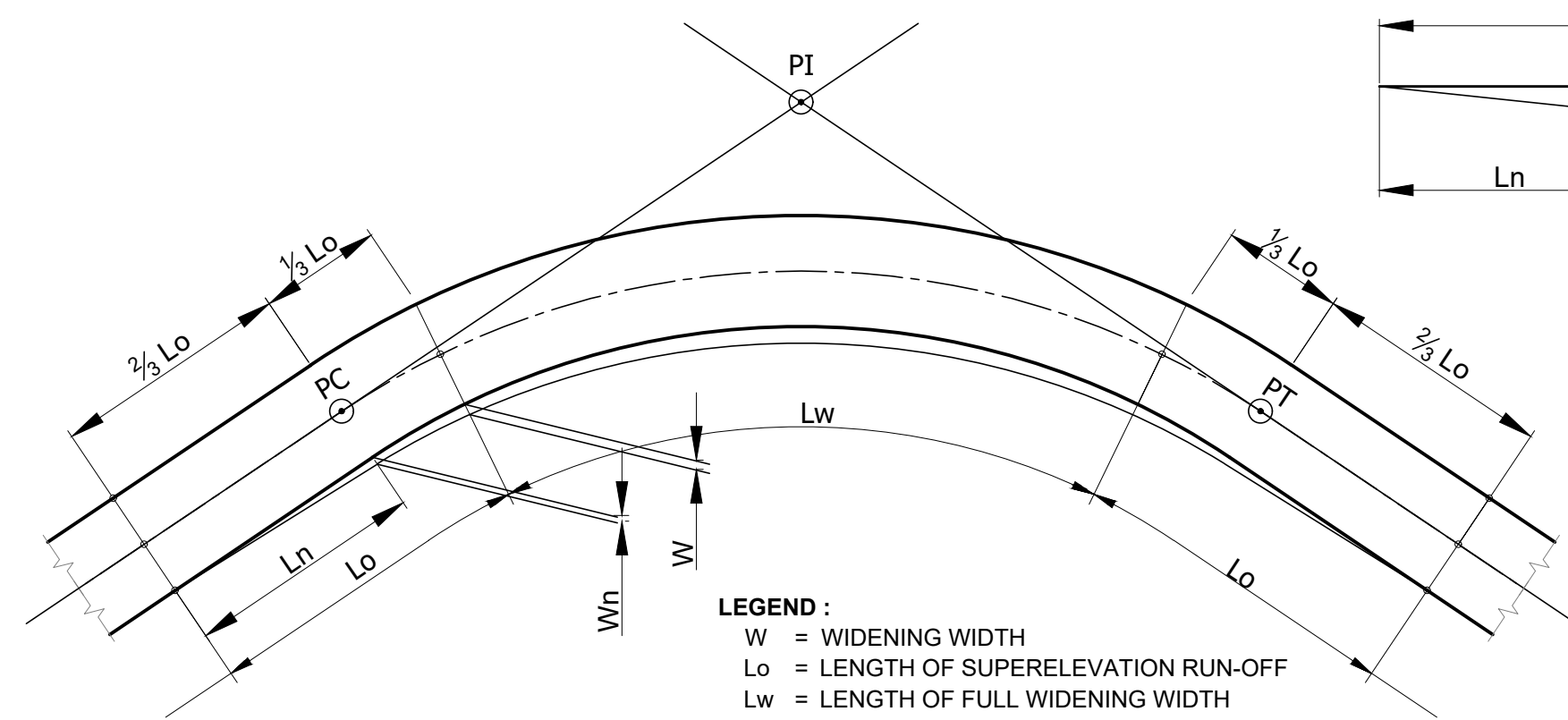
LEGEND :

PI- POINT OF HORIZONTAL INTERSECTION
I - INTERSECTION ANGLE
T - LENGTH OF TANGENT
R - HORIZONTAL RADIUS
Lc- LENGTH OF CIRCULAR CURVE
D - DEGREE OF CURVE (ARC DEFINITION)
PC- POINT OF CURVATURE
PT- POINT OF TANGENCY
E - EXTERNAL DISTANCE

**GEOMETRIC DESIGN STANDARD FOR
HORIZONTAL CURVE (CIRCULAR)**

1A
Det-01

NOT TO SCALE



LEGEND :

W = WIDENING WIDTH
Lo = LENGTH OF SUPERELEVATION RUN-OFF
Lw = LENGTH OF FULL WIDENING WIDTH
Ln = LENGTH FROM THE BEGINNING OF RUN-OFF
WITH A WIDENING OF Wn
Wn = WIDENING OF LENGTH Ln

FORMULA :

$$W_n = (W \cdot L_n) / L_o$$

1B WIDENING OF INNER SIDE OF HORIZONTAL CURVE

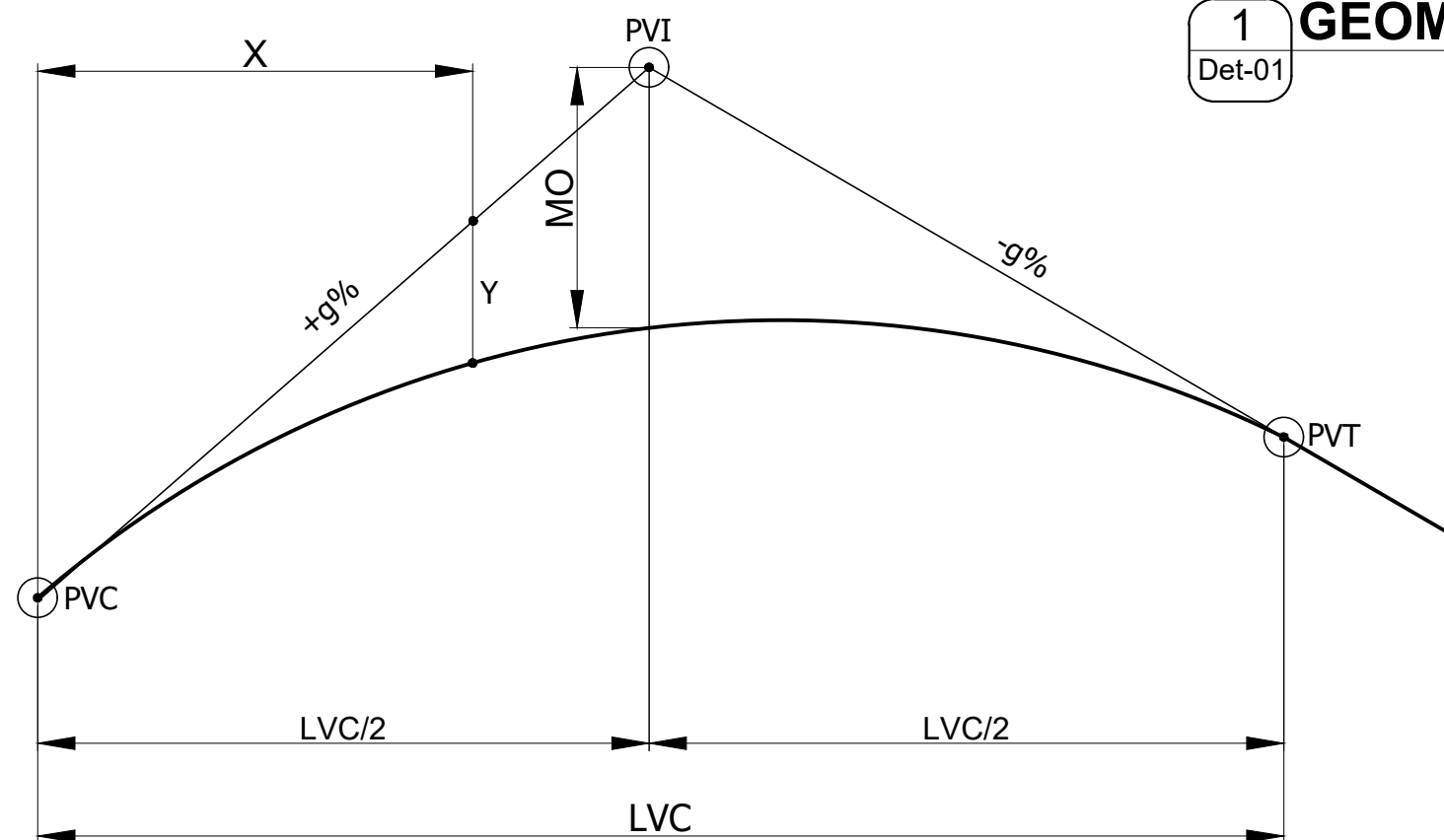
Det-01

NOT TO SCALE

1 GEOMETRIC DESIGN STANDARDS FOR HORIZONTAL CURVE

Det-01

NOT TO SCALE



LEGEND :

PVI - POINT OF VERTICAL INTERSECTION
PVC- POINT OF VERTICAL CURVATURE
PVT - POINT OF VERTICAL TANGENCY
LVC, LVC₁, LVC₂ - LENGTH OF VERTICAL CURVES
g - GRADE IN PERCENT (%)
MO - MIDDLE ORDINATE
X, X₁, X₂ - DISTANCE FROM PVC OR PVT TO ANY POINT ON CURVE
Y, Y₁, Y₂ - VERTICAL OFFSET
A - ALGEBRAIC DIFFERENCE OF GRADES IN %
K - RATE OF VERTICAL CURVATURE (m)

NOTE :

NO VERTICAL CURVE IS REQUIRED WHEN THE ALGEBRAIC DIFFERENCE IN GRADE IS LESS THAN 0.5%

DESIGN SPEED (Km/h)	30 KPH	40K PH	50K PH	60 KPH	70 KPH
MIN. K FOR CREST VERTICAL CURVE	3.00	5.00	10.00	17.00	25.00
MIN. K FOR SAG VERTICAL CURVE	4.00	8.50	11.00	16.00	18.50

IN ANY SYMMETRICAL VERTICAL PARABOLIC CURVE :

$$MO = (A \cdot LVC) / 800$$

$$Y = (X^2 \cdot MO) / (LVC / 2)^2$$

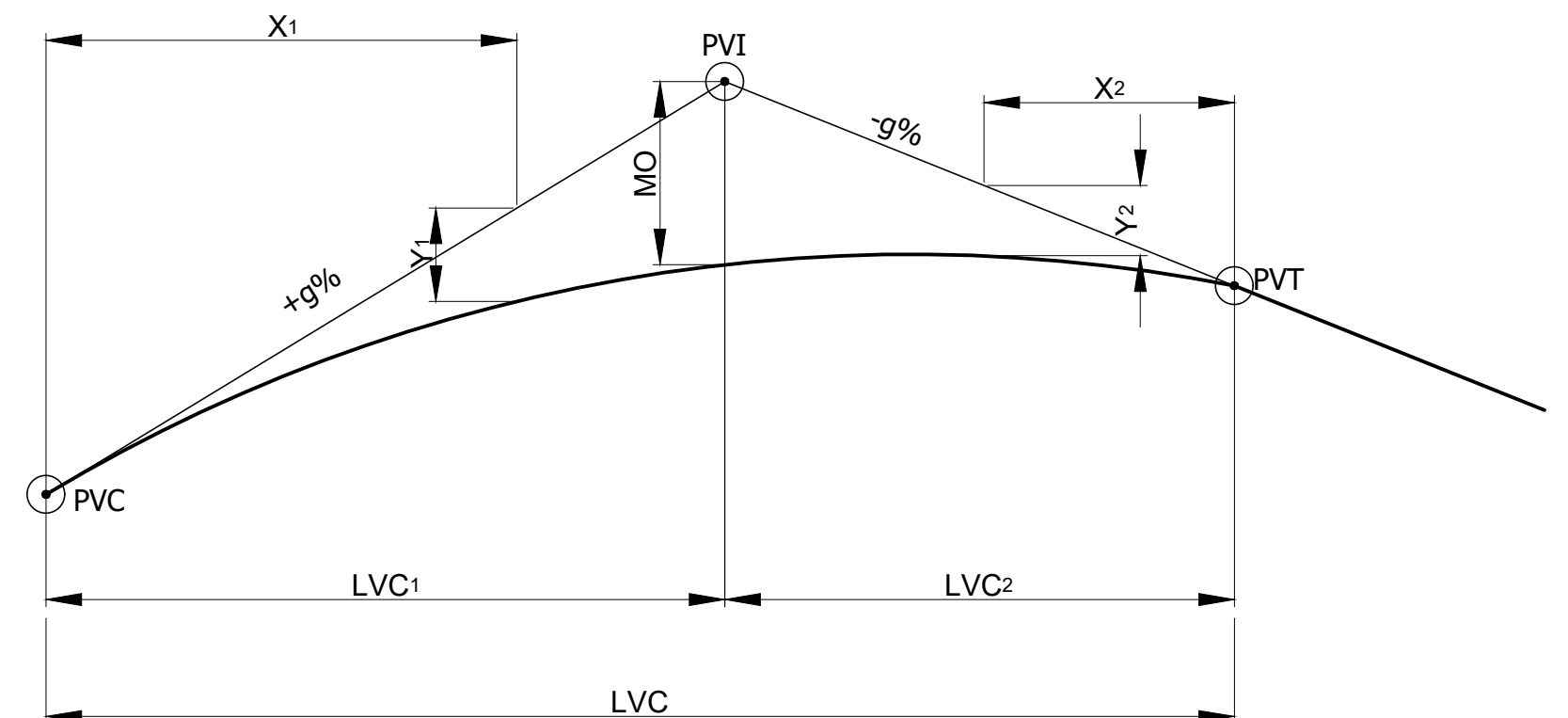
FORMULA :

$$LVC = K \cdot A$$

2A SYMMETRICAL VERTICAL PARABOLIC CURVE

Det-01

NOT TO SCALE



IN ANY UNSYMMETRICAL VERTICAL PARABOLIC CURVE :

$$MO = (LVC_1 \cdot LVC_2 \cdot A) / 200 \cdot LVC$$

$$Y_1 = MO (X_1)^2 / (LVC_1)^2$$

$$Y_2 = MO (X_2)^2 / (LVC_2)^2$$

FORMULA :

$$LVC = K \cdot A$$

2B UNSYMMETRICAL VERTICAL PARABOLIC CURVE

Det-01

NOT TO SCALE

2 GEOMETRIC DESIGN STANDARDS FOR VERTICAL CURVE

Det-01

NOT TO SCALE



REPUBLIC OF THE PHILIPPINES
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PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACAP -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**
TUBA, BENGUET

SHEET CONTENTS:
-GEOMETRIC DESIGN STANDARDS FOR
HORIZONTAL AND VERTICAL CURVE

PREPARED:
MARK ANTHONY L. FERRER
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

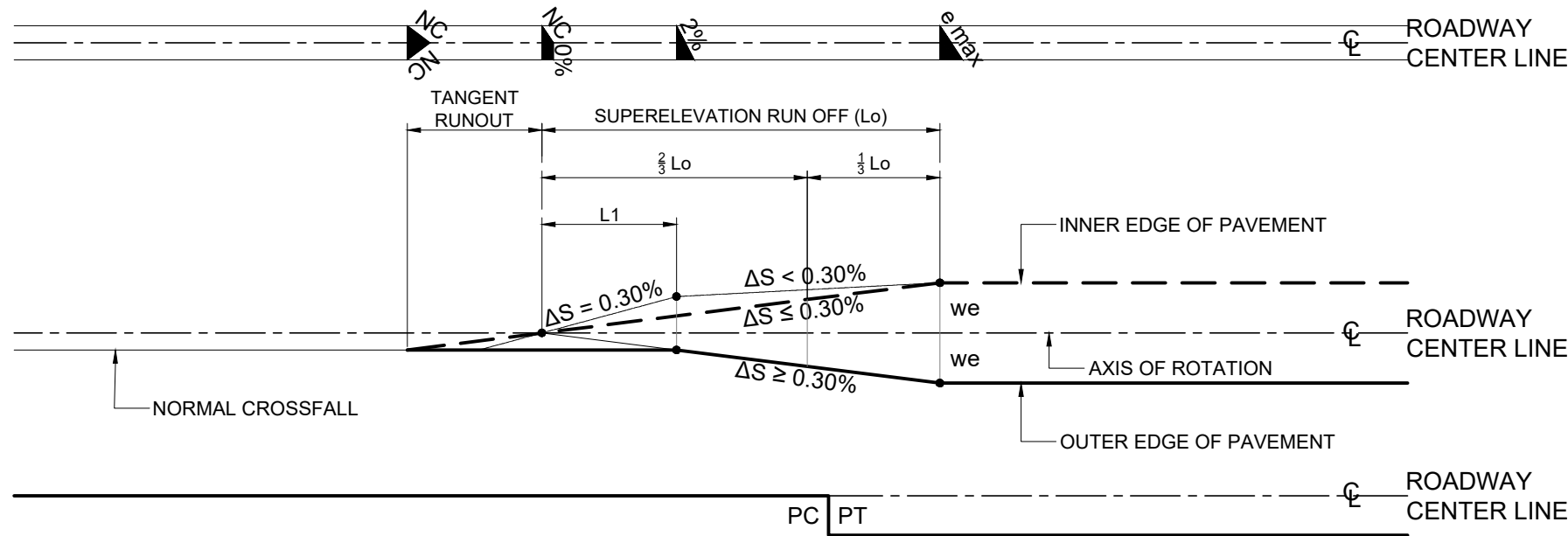
SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
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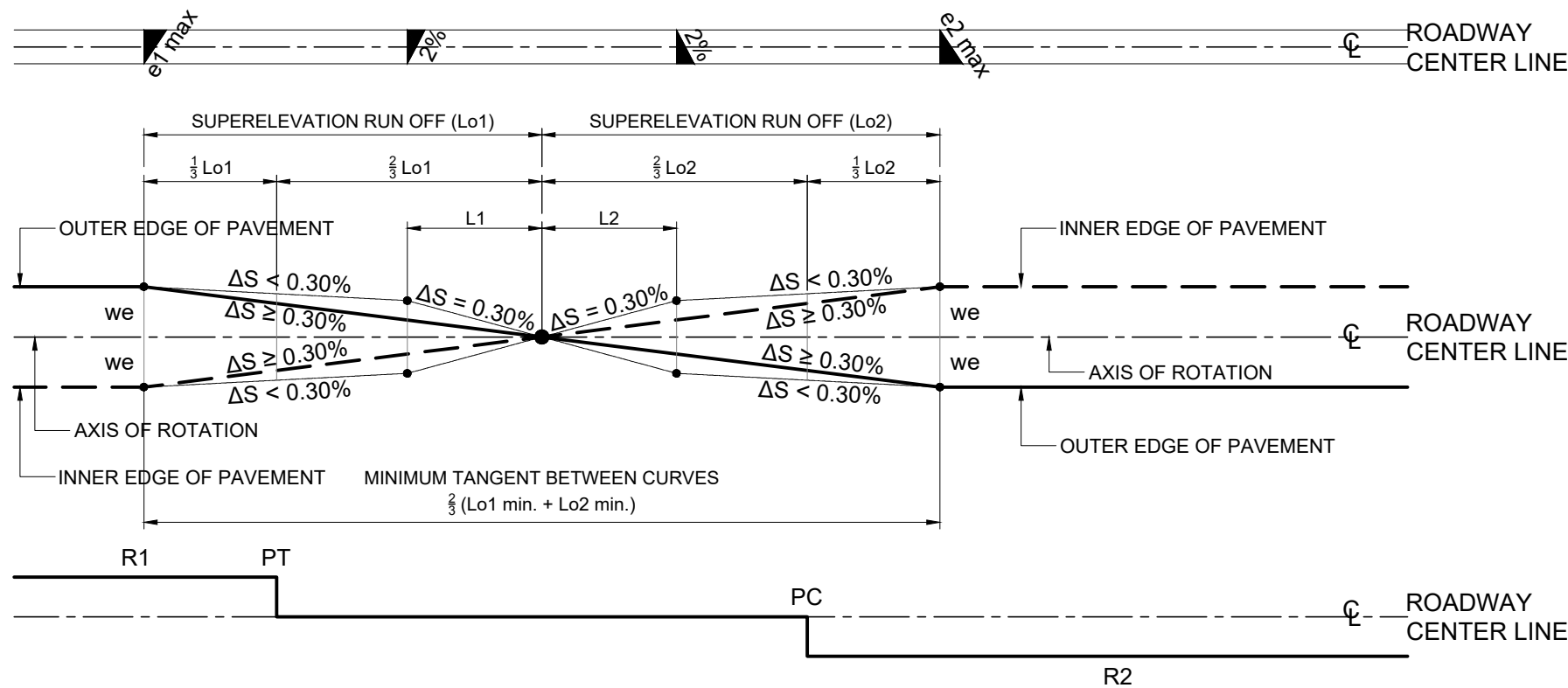
APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

SET NO.
**DETAILS
01 18**

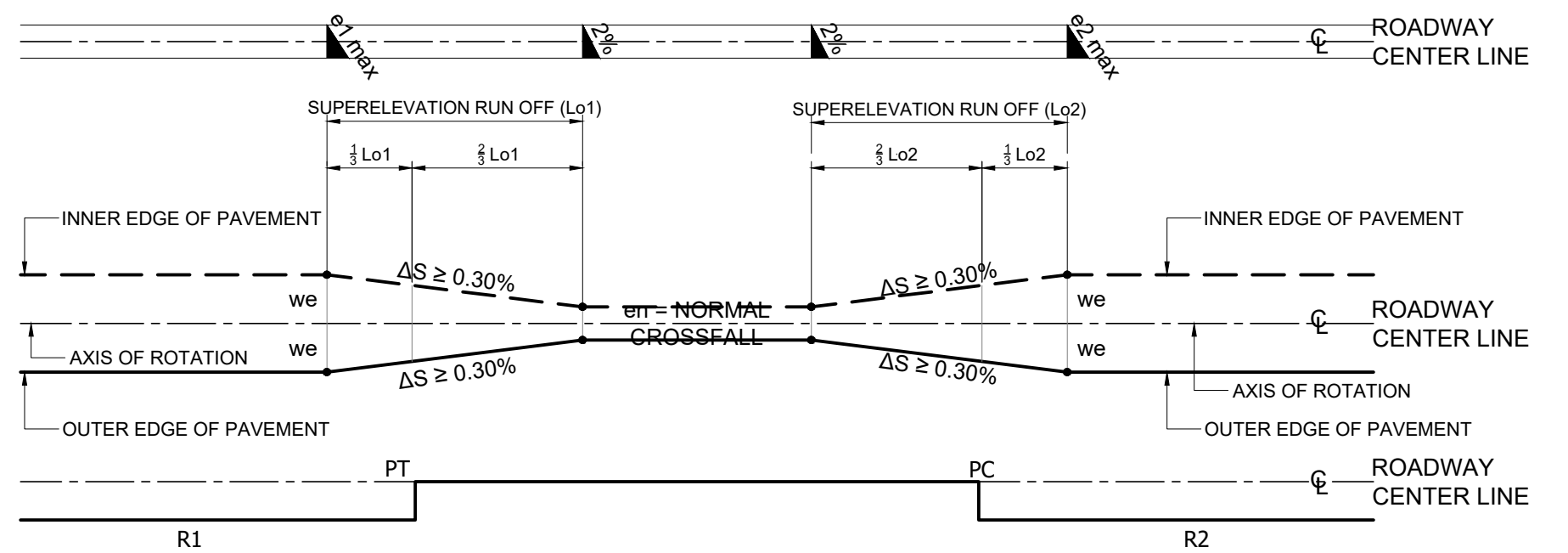
SHEET NO.
**103
120**



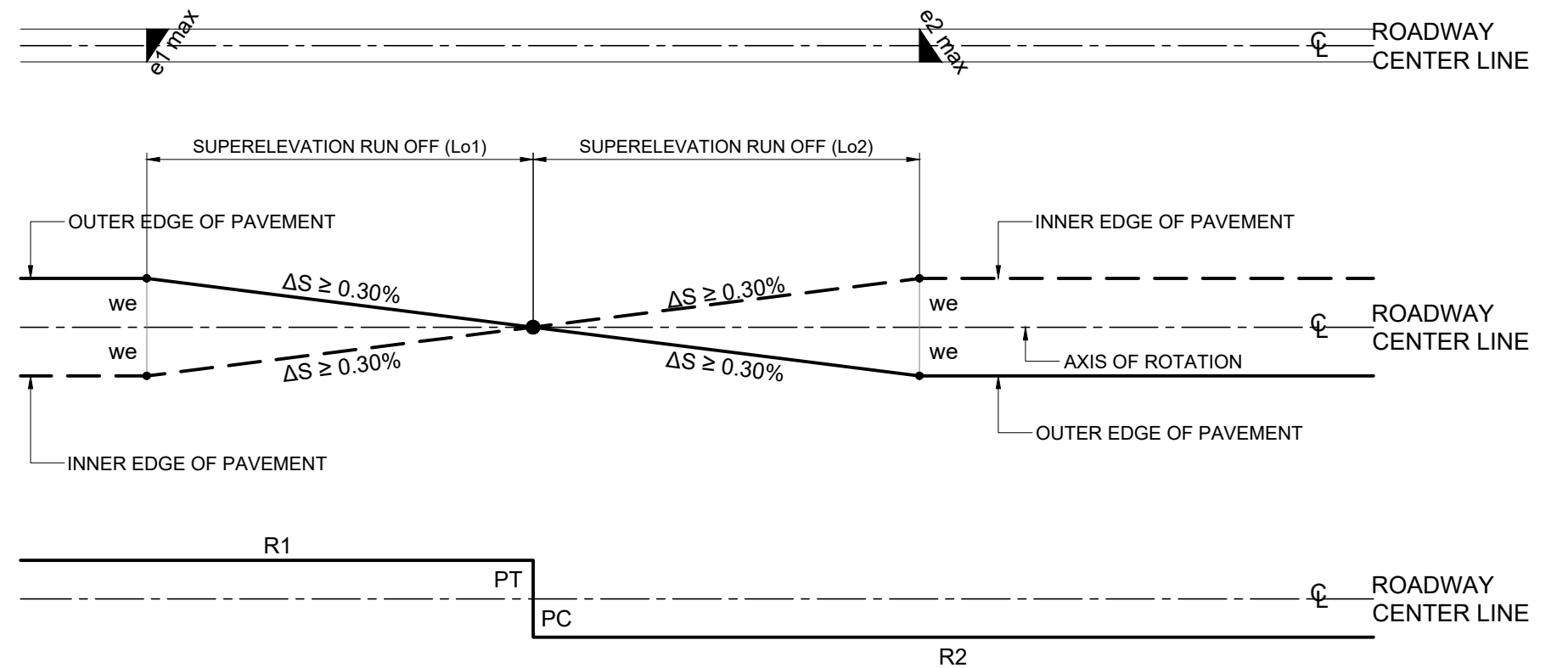
1A TRANSITION : STRAIGHT - CIRCULAR CURVE CASE 1
Det-02 NOT TO SCALE



1C TRANSITION : CIRCULAR CURVE - MINIMUM STRAIGHT - CIRCULAR CURVE CASE 3.1
Det-02 NOT TO SCALE



1B TRANSITION : CIRCULAR CURVE - STRAIGHT - CIRCULAR CURVE CASE 2
Det-02 NOT TO SCALE



1D TRANSITION : CIRCULAR CURVE - MINIMUM STRAIGHT - CIRCULAR CURVE CASE 3.2
Det-02 NOT TO SCALE

GENERAL NOTES :

- FOR EFFECTIVE DRAINAGE, THE SLOPE OF EDGE OF PAVEMENT (ΔS) SHALL BE $\geq 0.30\%$ BETWEEN $\pm 2\%$ GRADE.
- $e = e_{max}$. CAN BE TAKEN FROM TABLE OF DESIGN VALUE FOR SUPERELEVATION.
- THE SLOPE OF SHOULDER SHALL ALWAYS FALL IN THE DIRECTION OF THE OUTSIDE EDGE OF THE TRAVELED WAY.
- WHEN THE SUPERELEVATION IS GREATER THAN 3% THEN THE SLOPE OF LOWER SHOULDER SHALL BE THE SAME AS FOR THE TRAVELED WAY.
- WHEN THE SUPERELEVATION IS 4% OR LESSER, THEN THE LOWER SHOULDER SHALL HAVE A SLOPE OF 3%.
- IF THE SUPERELEVATION IS 5%, THEN THE CROSS SLOPE OF THE HIGHER SHOULDER IS 2%. BUT FOR A MAXIMUM SUPERELEVATION OF 8%, THE SLOPE OF THE HIGHER SHOULDER WILL BE 1%.
- SUPERELEVATION SHOWN ON THE PROFILE ARE BASED ON CONSTANT 6.70m. PAVEMENT WIDTH AND NOT ON VARYING PAVEMENT WIDTH DUE TO WIDENING.
- THE CROSS SLOPE OF SUBBASE IS ALWAYS FALLING IN THE SAME DIRECTION AS THE ROADWAY.
- ALGEBRAIC DIFFERENCE OF CROSSOVER SHOULD NOT EXCEED 7%.
- FOR $e > 7\%$ SHOULDERS SHOULD BE PAVED.

DESIGN VALUES FOR SUPERELEVATION RELATED TO DESIGN SPEED AND HORIZONTAL RADIUS

DESIGN SPEED	30 km/hr	40 km/hr	50 km/hr	60 km/hr
e%	8% (max.)	8% (max.)	8% (max.)	8% (max.)
N.C.	ABOVE 500	ABOVE 800	ABOVE 1200	ABOVE 1500
R.C.	500 ~ 400	800 ~ 600	1200 ~ 800	1500 ~ 1200
2	400 ~ 261	600 ~ 441	800 ~ 626	1200 ~ 868
3	260 ~ 170	440 ~ 293	625 ~ 418	867 ~ 581
4	169 ~ 118	292 ~ 209	417 ~ 301	580 ~ 426
5	117 ~ 81	208 ~ 146	300 ~ 222	425 ~ 312
6	80 ~ 59	145 ~ 104	221 ~ 161	311 ~ 232
7	58 ~ 41	103 ~ 71	160 ~ 116	231 ~ 170
8	40 ~ BELOW	70 ~ BELOW	115 ~ BELOW	169 ~ BELOW

RECOMMENDED SLOPE OF SUPERELEVATION RUN-OFF RELATED TO DESIGN SPEED (CONSIDERING WIDENING OF PAVEMENT)

DESIGN SPEED	30 km/hr	40 km/hr	50 km/hr	60 km/hr
MAX. RELATIVE SLOPE (%)	0.75	0.70	0.65	0.60

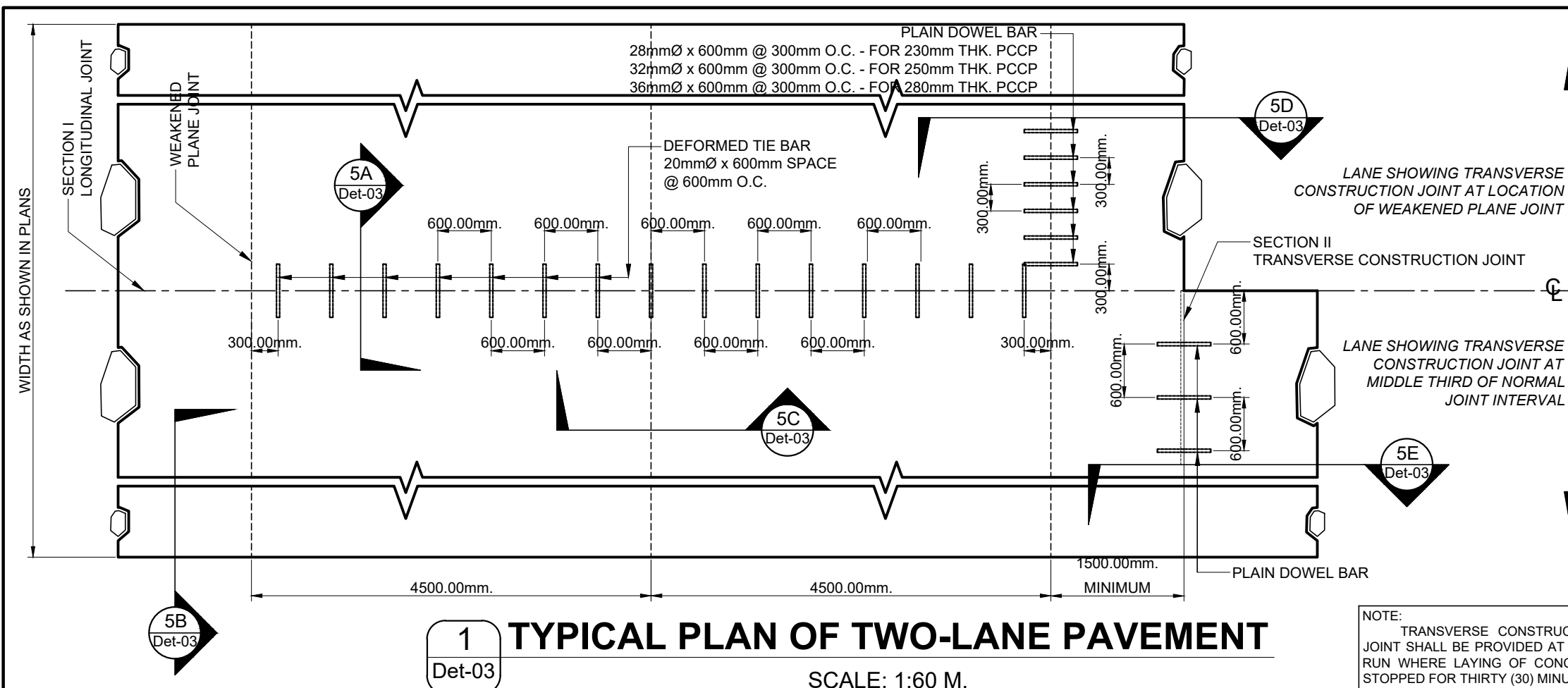
NOTE :

IN MOUNTAINOUS SECTIONS AND AT BRIDGE APPROACHES, THE DESIGN SPEED OF 30 Km/h AND THE MAXIMUM SUPERELEVATION OF 4% INSTEAD OF 8% WILL BE ADOPTED WHEN NECESSARY.

LEGEND :

- ΔS - SLOPE OF EDGE OF PAVEMENT IN %
- Lo - SUPERELEVATION RUN-OFF
- NC - SUPERELEVATION AT NORMAL CROWN RATE IN %
- e - FULL SUPERELEVATION IN %
- L1 or L2 - LENGTH BETWEEN SUPERELEVATION (0%) AND NC
- NC - NORMAL CROWN
- we - LANE WIDTH
- W - WIDENING WIDTH

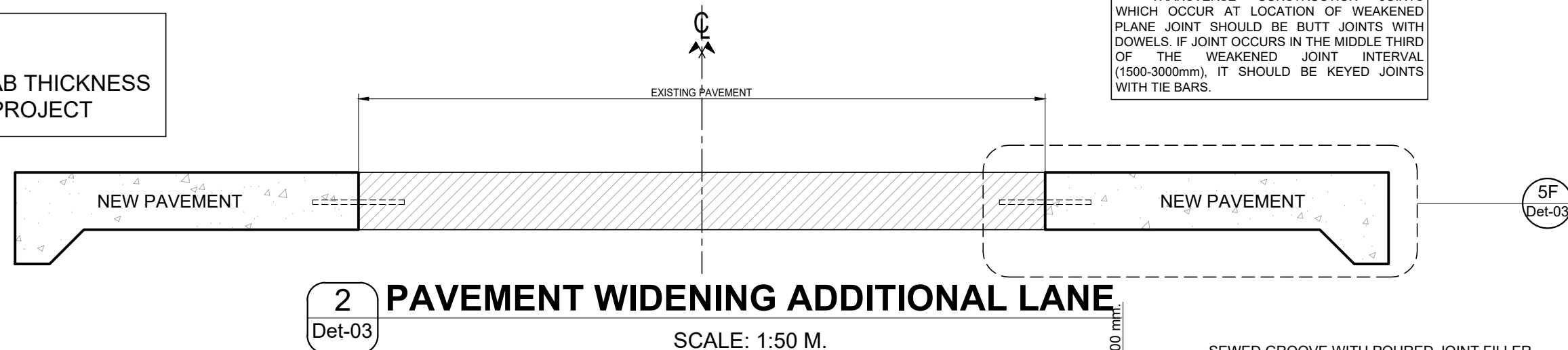
1 SUPERELEVATION
Det-02 NOT TO SCALE



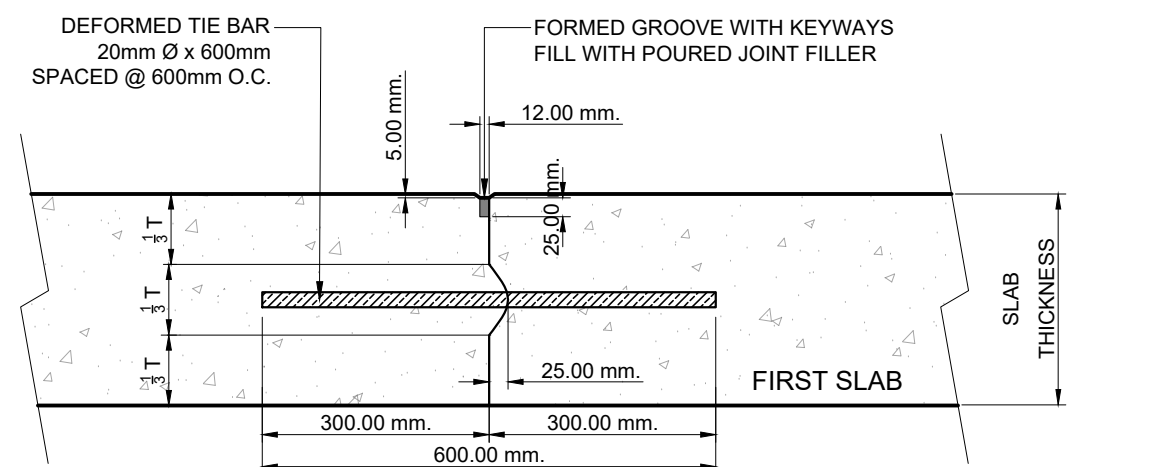
1 TYPICAL PLAN OF TWO-LANE PAVEMENT
Det-03
SCALE: 1:60 M.

NOTE:
230mm SLAB THICKNESS
FOR THIS PROJECT

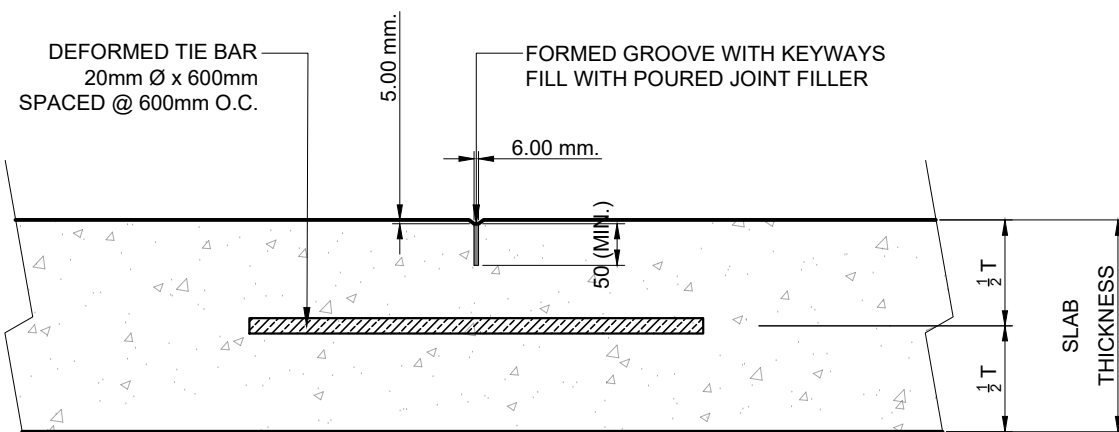
NOTE:
TRANSVERSE CONSTRUCTION (CONTACT) JOINT SHALL BE PROVIDED AT THE END OF ANY RUN WHERE LAYING OF CONCRETE HAS BEEN STOPPED FOR THIRTY (30) MINUTES OR LONGER. TRANSVERSE CONSTRUCTION JOINTS WHICH OCCUR AT LOCATION OF WEAKENED PLANE JOINT SHOULD BE BUTT JOINTS WITH DOWELS. IF JOINT OCCURS IN THE MIDDLE THIRD OF THE WEAKENED JOINT INTERVAL (1500-3000mm), IT SHOULD BE KEYED JOINTS WITH TIE BARS.



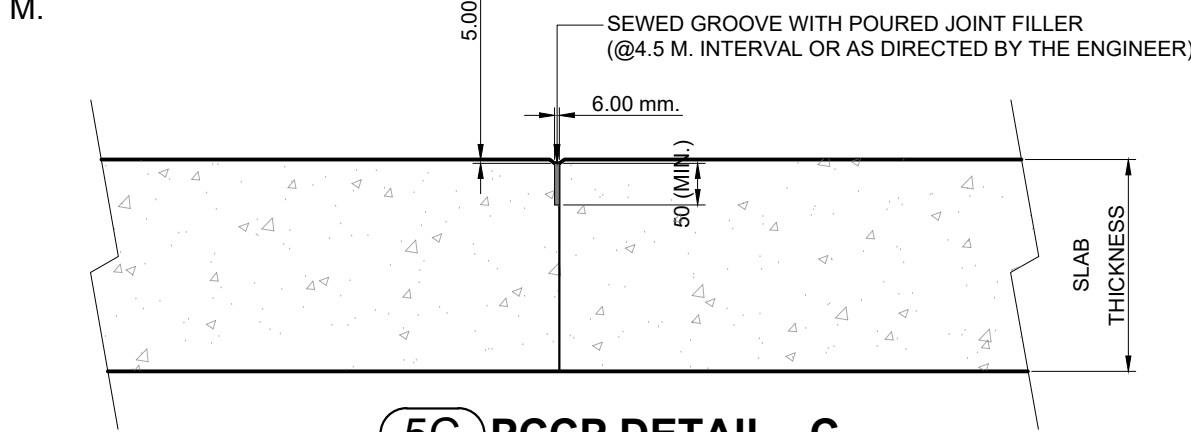
2 PAVEMENT WIDENING ADDITIONAL LANE
Det-03
SCALE: 1:50 M.



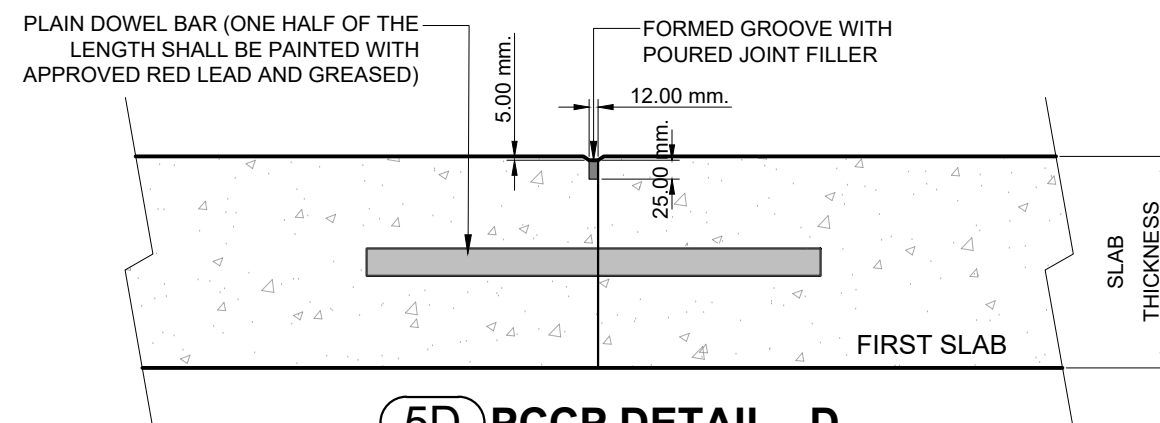
5A PCCP DETAIL - A
Det-03
SCALE: 1:10 M.



5B PCCP DETAIL - B
Det-03
SCALE: 1:10 M.

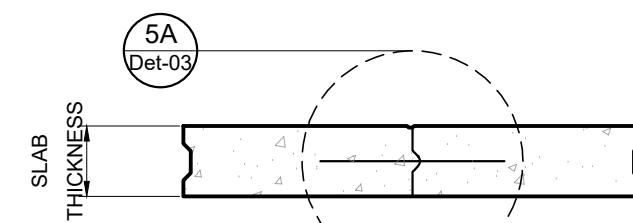


5C PCCP DETAIL - C
Det-03
SCALE: 1:10 M.

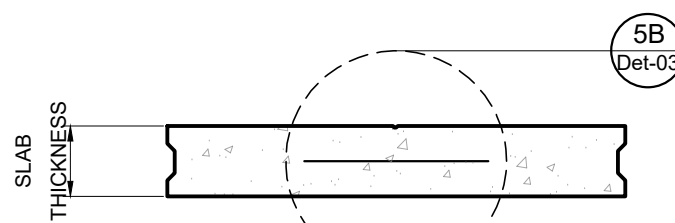


5D PCCP DETAIL - D
Det-03
SCALE: 1:10 M.

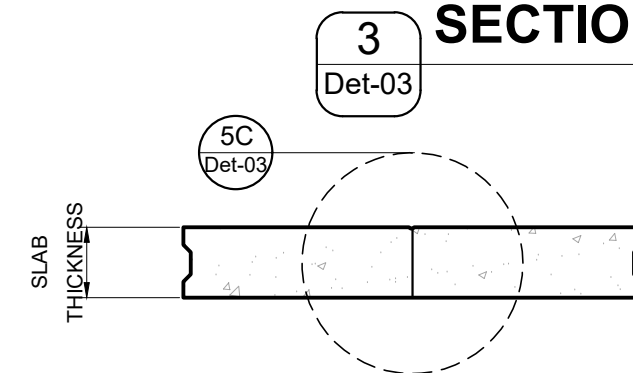
5 TYPICAL PCCP DETAILS
Det-03
SCALE AS SHOWN



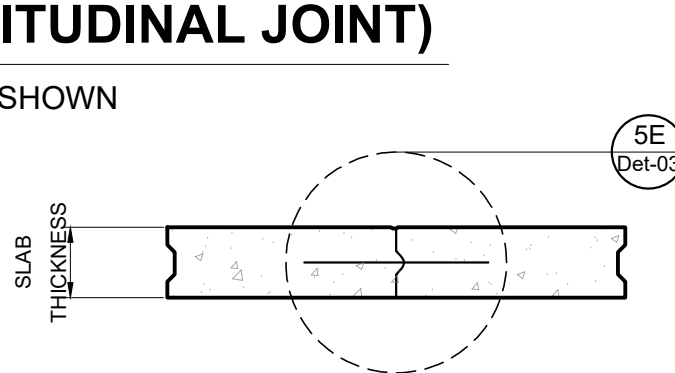
3A CONTACT JOINT (HALF-LANE PAVING)
Det-03
SCALE: 1:30 M.



3B SAWED JOINT (TWO-LANE PAVING)
Det-03
SCALE: 1:30 M.



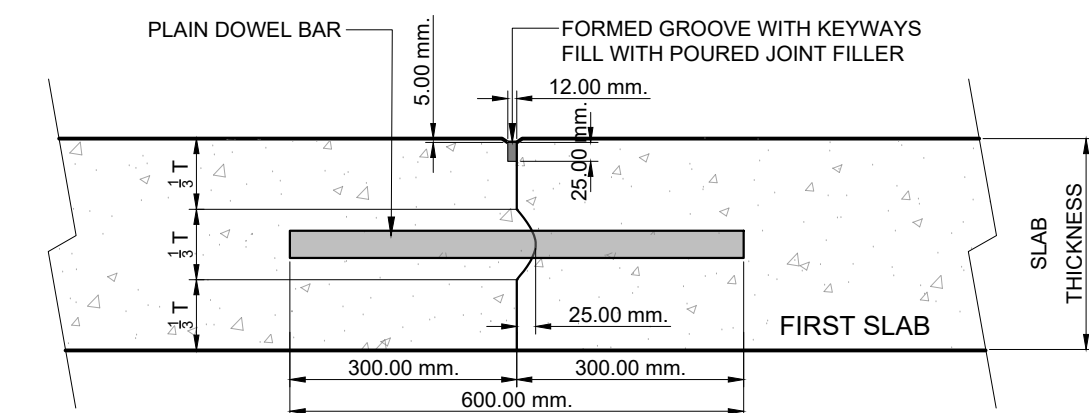
3 SECTION - I (LONGITUDINAL JOINT)
Det-03
SCALE AS SHOWN



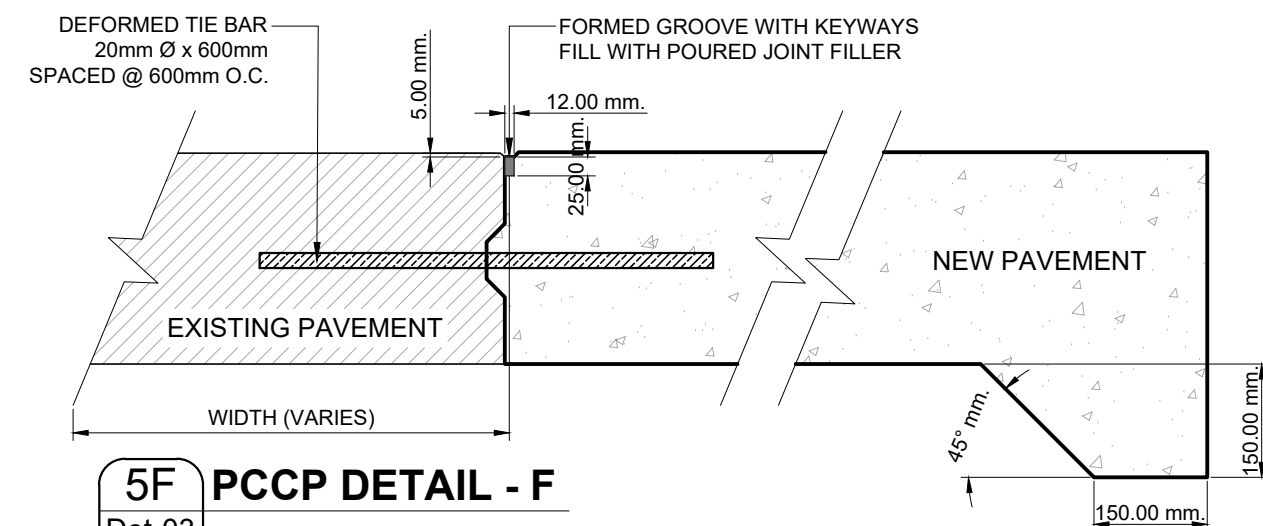
3 SECTION - II (TRANSVERSE JOINT)
Det-03
SCALE AS SHOWN

4A CONTRACTION JOINT
Det-03
SCALE: 1:30 M.

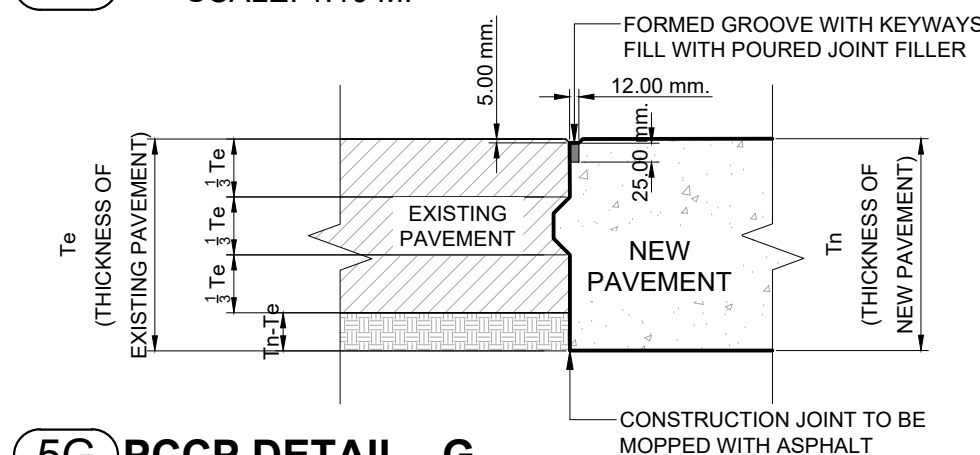
4B CONSTRUCTION JOINT
Det-03
SCALE: 1:30 M.



5E PCCP DETAIL - E
Det-03
SCALE: 1:10 M.

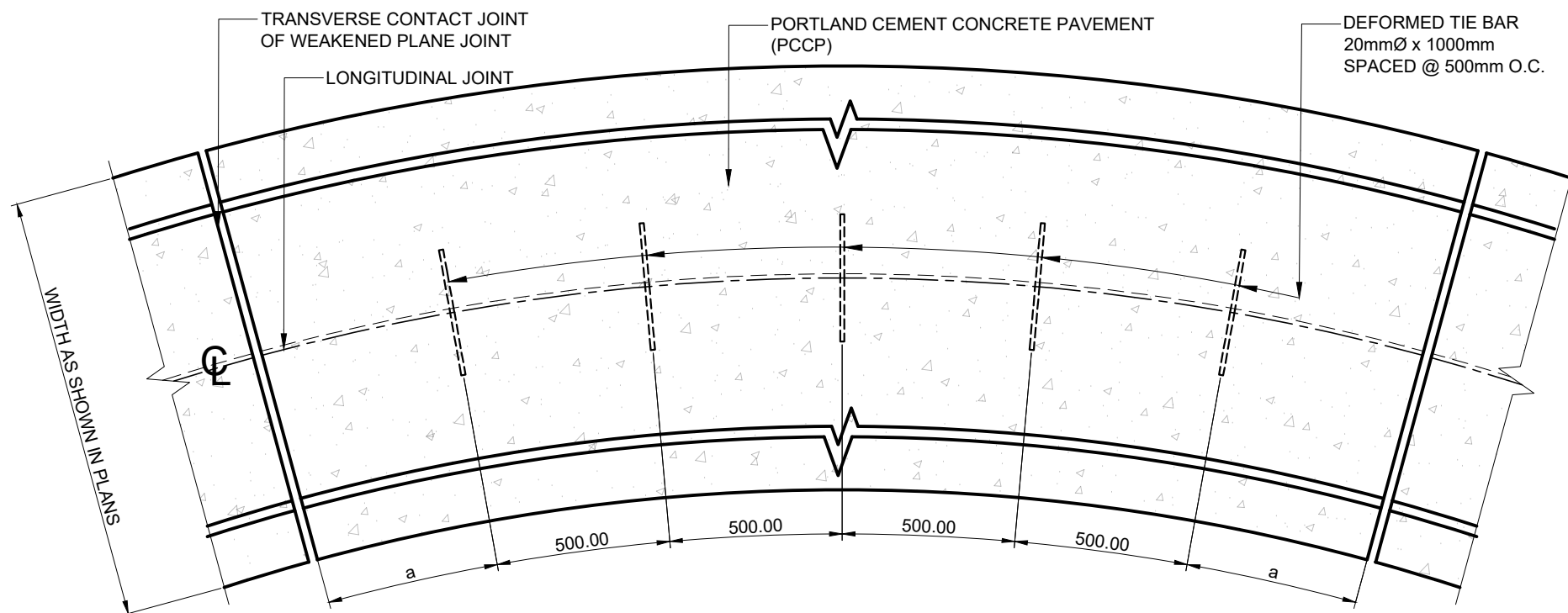


5F PCCP DETAIL - F
Det-03
SCALE: 1:10 M.

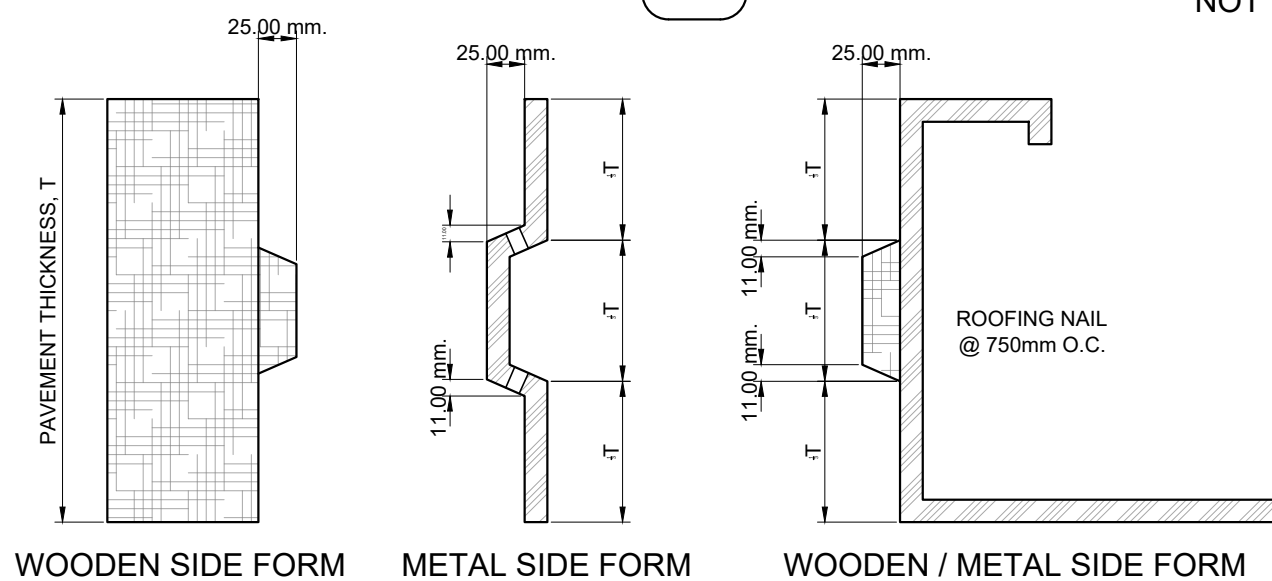


5G PCCP DETAIL - G
Det-03
SCALE: 1:10 M.

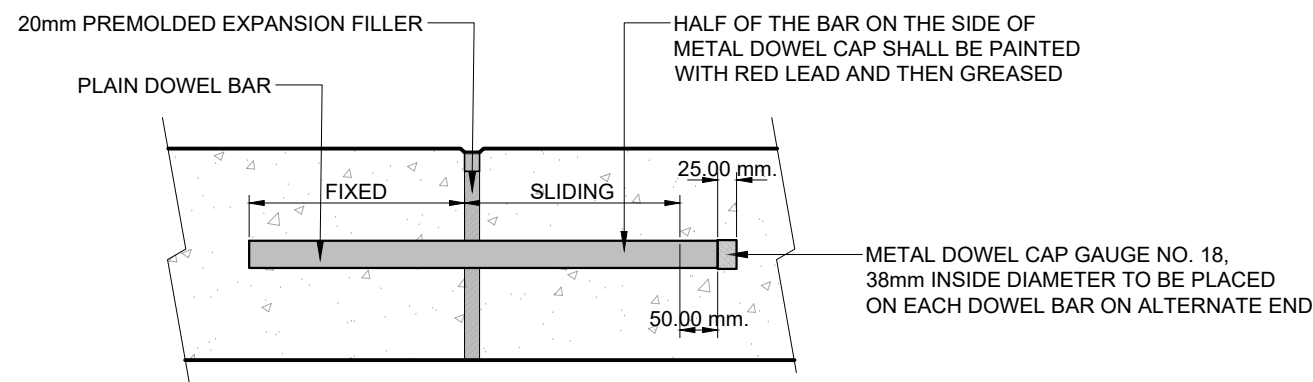
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION: CONSTRUCTION OF ROAD, PAYACAP - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET	SHEET CONTENTS: - TYPICAL PORTLAND CEMENT CONCRETE PAVEMENT (PCCP) DETAILS AND NOTES	PREPARED: MARK ANTHONY L. FERRER ENGINEER II	REVIEWED: EDISON C. AMBALES ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE:	SUBMITTED: ROMUALDO T. APALIAS OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	RECOMMENDED: EDGARDO G. ENRIQUEZ ASSISTANT DISTRICT ENGINEER DATE:	APPROVED: ISAGANI C. CAYME, CESE DISTRICT ENGINEER DATE:	SET NO. DETAILS 03 18	SHEET NO. 105 120
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1 DETAIL OF BAR SPACING ALONG CURVES
Det-04 NOT TO SCALE



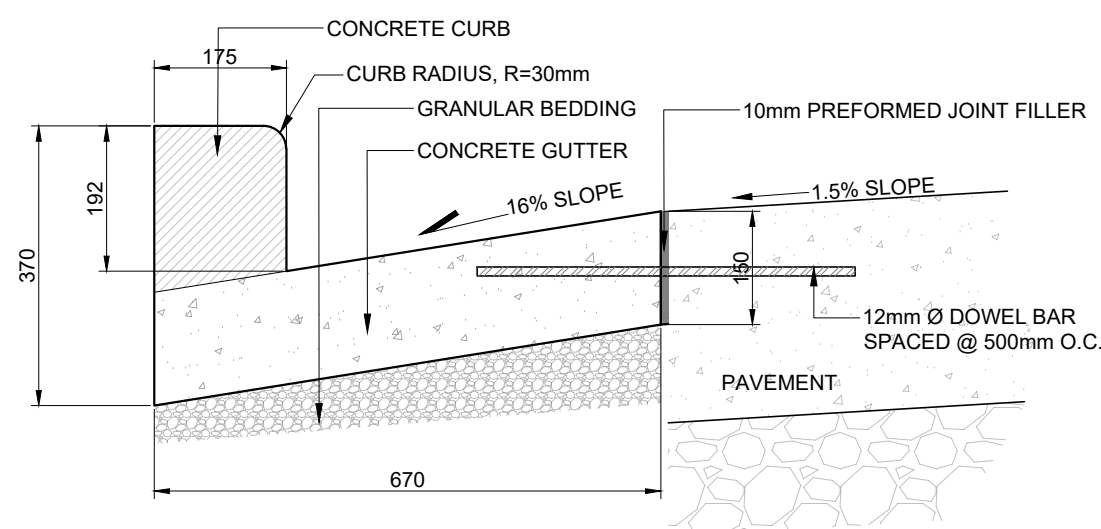
2 DETAIL OF SIDE FORMS
Det-04 SCALE: 1:5 M.



3 DETAIL OF EXPANSION JOINT (DOWELED) AT CERTAIN INTERSECTIONS AND STRUCTURES
Det-04 SCALE: 1:10 M.

GENERAL NOTES:

1. MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE "DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS, 2013".
2. CONSTRUCTION (CONTRACT) JOINTS ARE FORMED WHEN CONCRETE ON ONE SIDE OF THE JOINT IS POURED AHEAD AND ALLOWED TO SET BEFORE POURING ON THE OTHER SIDE.
3. AT CONSTRUCTION JOINTS (LONGITUDINAL OR TRAVERSE) CARE SHOULD BE TAKEN THAT NO CONCRETE FROM THE LAST SLAB PLACED OVERHANGS ANY PORTION OF THE FIRST SLAB.
4. THE BARS SHOULD BE DEFORMED STEEL BARS, ALL DOWEL BAR SHALL BE SMOOTH ROUND STEEL BAR FREE FROM RUST AND OTHER DEFECTS WHICH MIGHT RESTRICT THEIR MOVEMENT.
5. TYPE OF WEAKENED JOINT TO BE USED SHALL BE AS SPECIFIED IN THE PLANS AND ONLY ONE TYPE SHALL BE USED FOR THE WHOLE PROJECT.
6. MATERIAL FOR THE METAL SIDE FORM SHALL BE BRAND NEW SHEET METAL GAUGE NO.18 OF BLACK IRON FREE FROM RUST AND LINKS.
7. AT LEAST SIX (6) SUCCESSIVE DOWELLED BUTT JOINTS AT NORMAL JOINT SPACING SHALL BE PROVIDED BEFORE OR AFTER AN EXPANSION JOINT.
8. THE GROOVE OR CRACK ABOVE JOINTS (LONGITUDINAL OR TRAVERSE) SHALL BE SEALED WITH 30-50 PENETRATION ASPHALT SEAL OR COLD APPLIED LIQUID RUBBER COMPOUND AFTER THE CONCRETE HAD BEEN CURED AND BEFORE OPENING PAVEMENT TO TRAFFIC.
9. ALL TRANSVERSE JOINTS, EXCEPT CONSTRUCTION JOINT, SHALL BE CONTINUOUS FROM EDGE TO EDGE.
10. ALL LONGITUDINAL JOINT SHALL MEET AT INTERSECTIONS WITH NO GAPS OR OFFSET.
11. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
12. AVOID STOPPAGE OF FORMWORKS ALONG CURVES.



4 CONCRETE CURB & GUTTER DETAIL
Det-04 SCALE: 1:10 M.

GENERAL NOTES:

1. MATERIALS AND CONSTRUCTION REQUIREMENTS SHALL CONFORM TO DPWH STANDARD SPECIFICATION FOR HIGHWAYS AND BRIDGES, 2004
2. USE OF MONOFILAMENT POLYPROPYLENE SYNTHETIC FIBERS (D.O. NO. 95, SERIES OF 2005) AS ADDITIVE TO CONCRETE MIX.
3. CONCRETE CURB SHALL BE CONSIDERED IN THE DESIGN OF PAVED ROADS IF THE FUNCTION IS TO SEPARATE THE ROAD FROM THE ROADSIDE, DISCOURAGING DRIVERS FROM PARKING OR DRIVING ON SIDEWALKS AND LAWNS.
4. CONCRETE CURB AND GUTTER SHALL BE CONSIDERED IN THE DESIGN OF PAVED ROADS IF THE FUNCTION IS TO FACILITATE THE CHANNELING OF SURFACE WATER RUN-OFF THUS PREVENTING THE EROSION OF SHOULDERS AND SLOPE
5. CAST-IN-PLACE CONCRETE CURB AND GUTTER MAY STILL BE ADOPTED PROVIDED THAT CONCRETE PAVER SHALL BE USED (AS PER D.O. NO. 62, SERIES OF 2013).



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
CONSTRUCTION OF ROAD, PAYACAP - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET
TUBA, BENGUET

SHEET CONTENTS:
-DETAIL OF BAR SPACING ALONG CURVES
-DETAIL OF SIDE FORMS
-DETAIL OF EXPANSION JOINT
-CONCRETE CURB AND GUTTER DETAIL

MARK ANTHONY L. FERRER
ENGINEER II

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

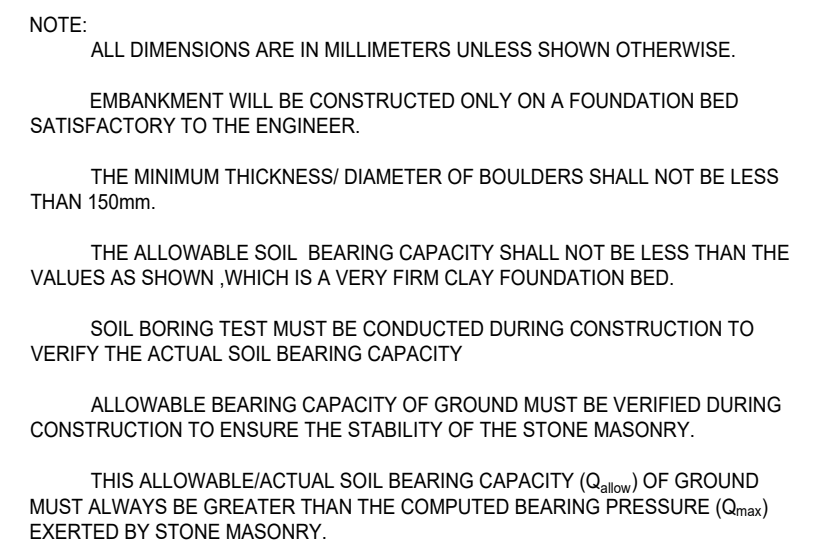
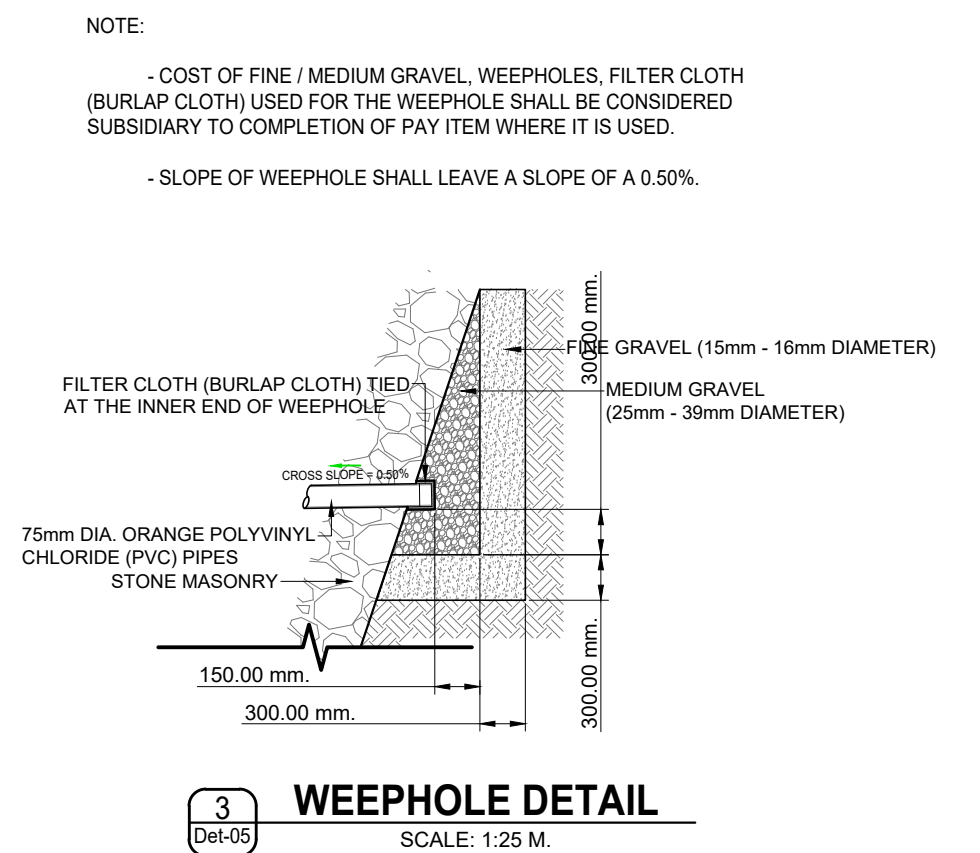
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

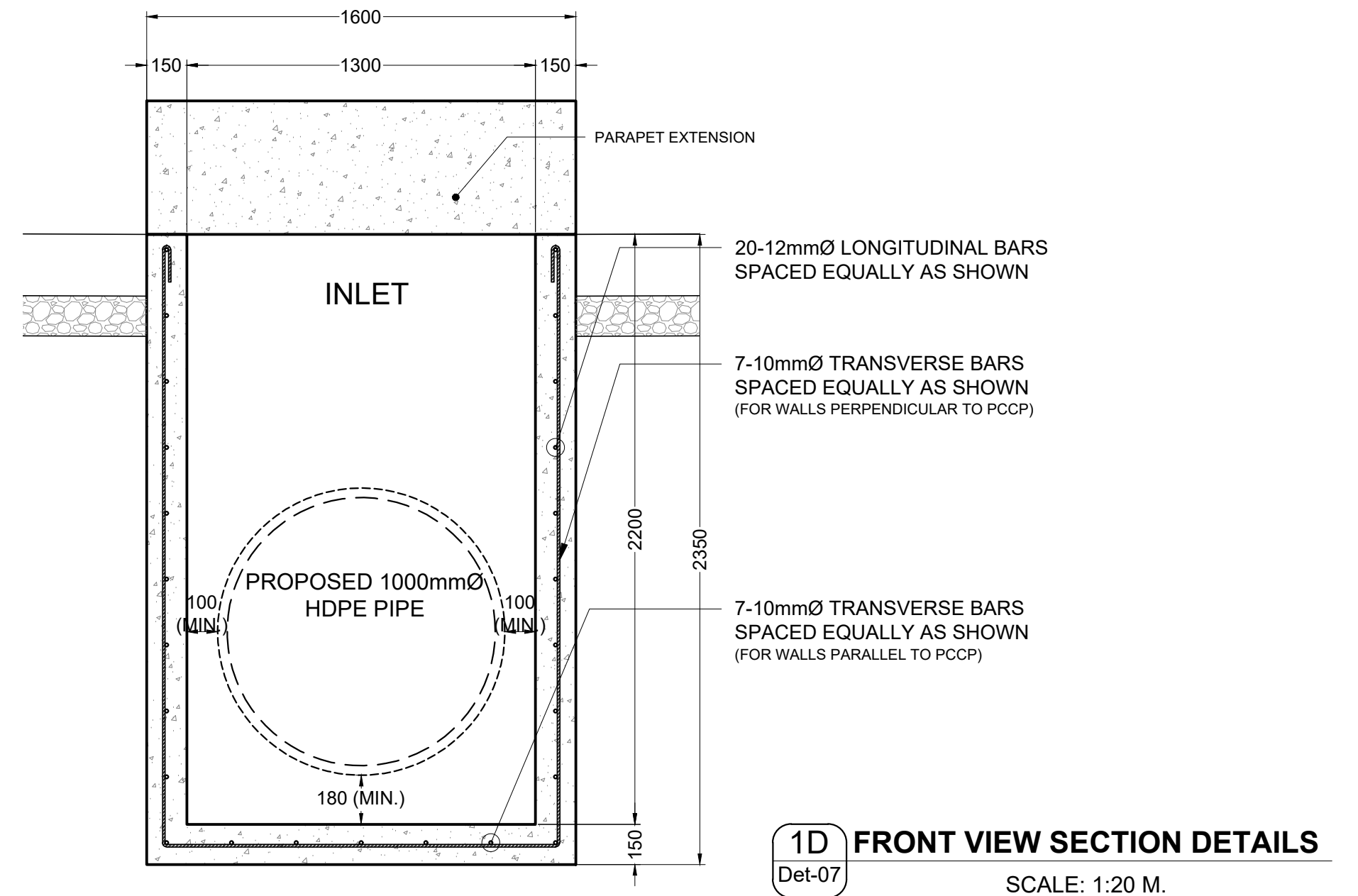
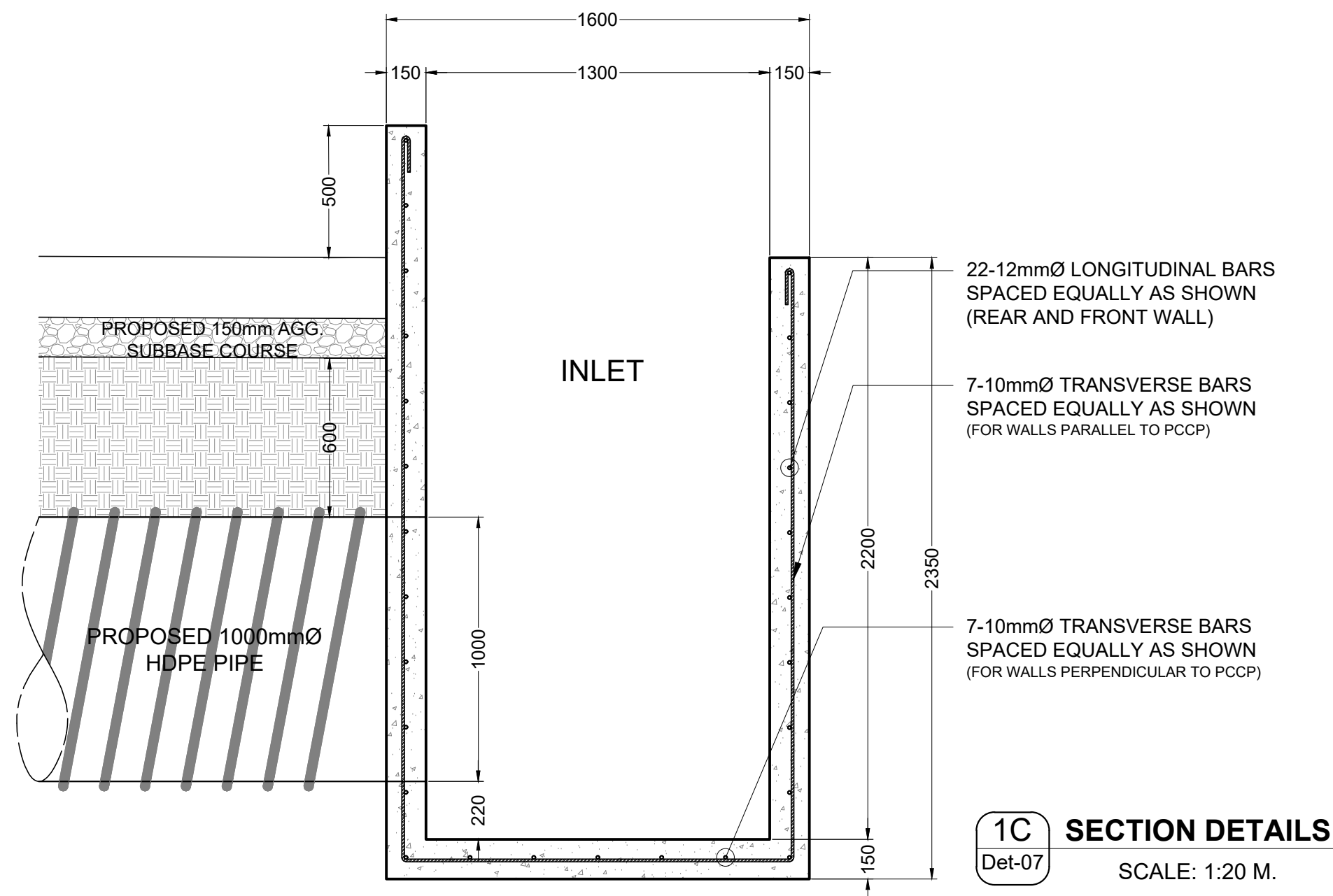
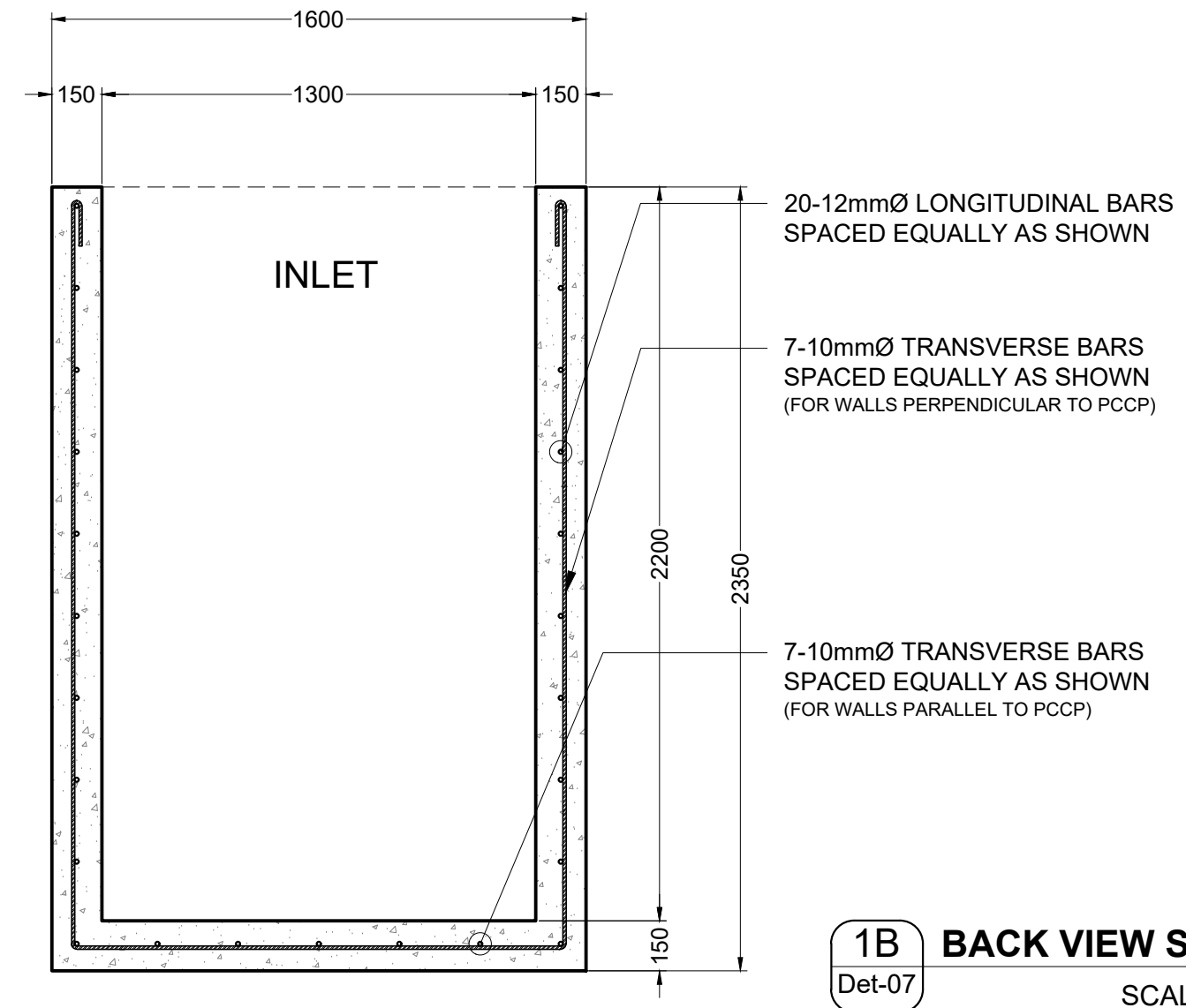
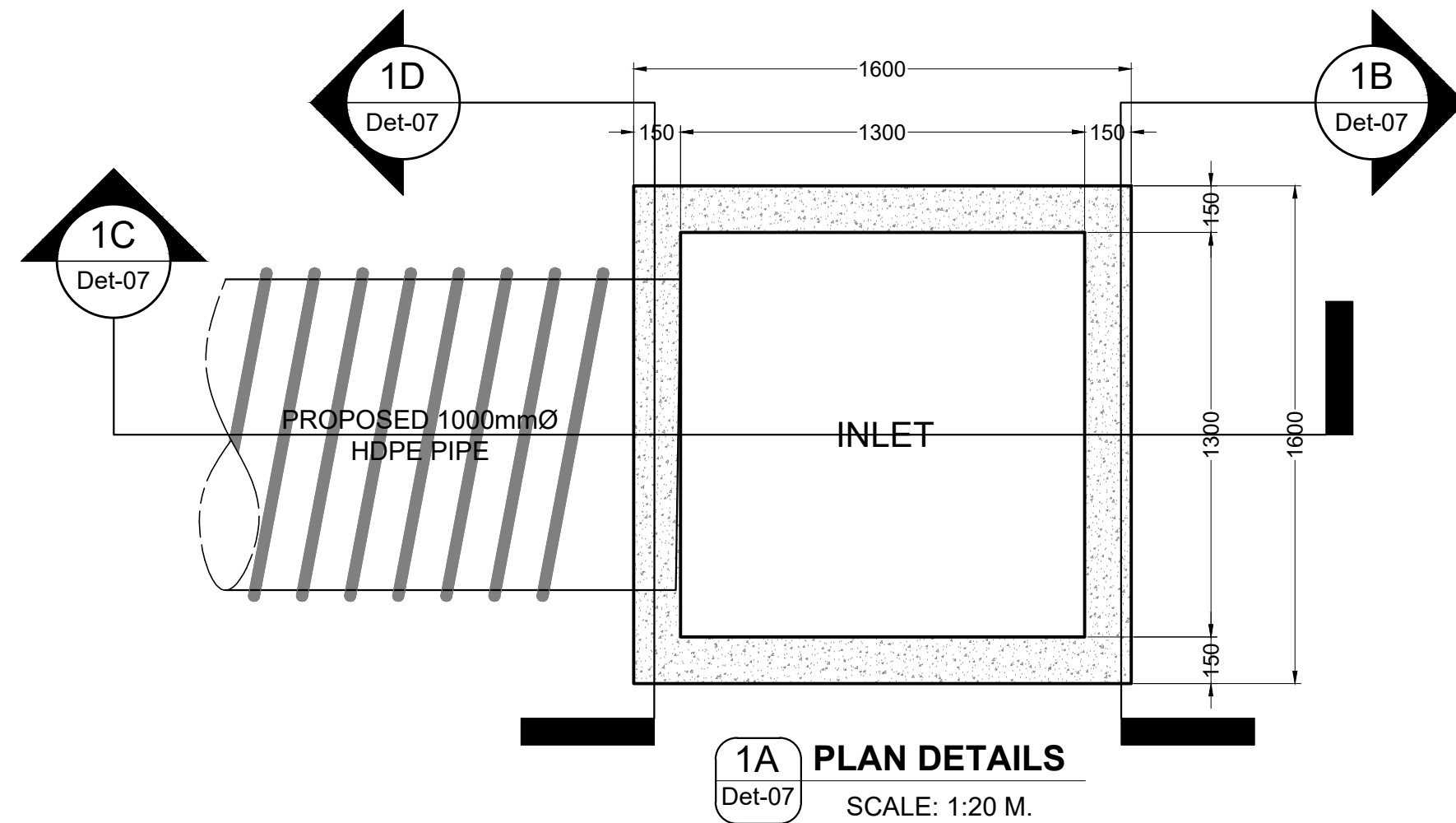
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

DETAILS
04 18

106
120



 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAC - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	-STONE MASONRY HEADWALL DETAILS -DUMPING SITE STRUCTURE	<u>MARK ANTHONY L. FERRER</u> ENGINEER II	<u>EDISON C. AMBALES</u> ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE: _____	<u>ROMUALDO T. APALIAS</u> OIC-CHIEF PLANNING AND DESIGN SECTION DATE: _____	<u>EDGARDO G. ENRIQUEZ</u> ASSISTANT DISTRICT ENGINEER DATE: _____	<u>ISAGANI C. CAYME, CESE</u> DISTRICT ENGINEER DATE: _____	DETAILS 05 18	107 120



1 REINFORCED CONCRETE INLET DETAILS
Det-07
SCALE AS SHOWN



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:
**CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET**
TUBA, BENGUET

SHEET CONTENTS:
- REINFORCED CONCRETE INLET DETAILS

PREPARED:
MARK ANTHONY L. FERRER
ENGINEER II

REVIEWED:
EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

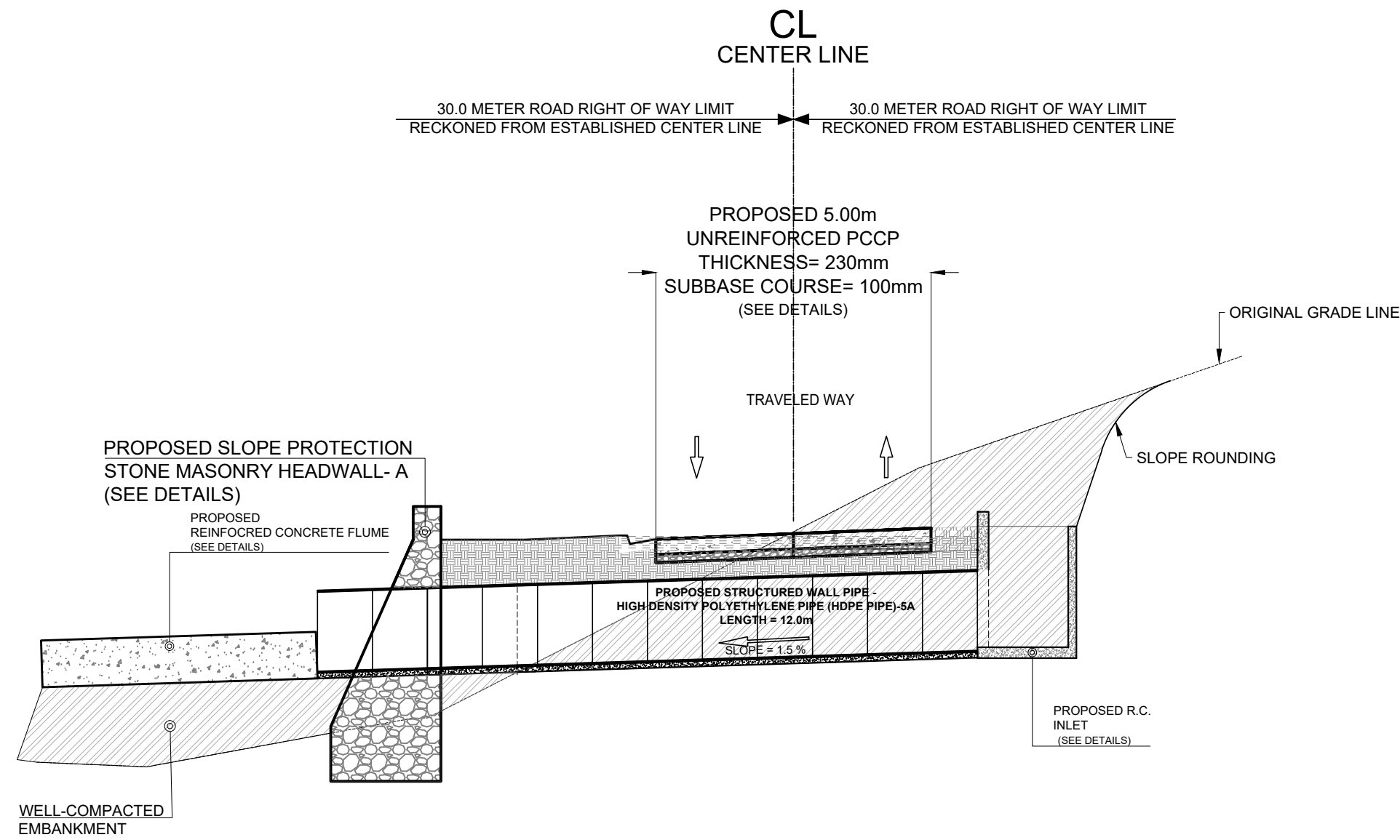
SUBMITTED:
ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:
EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

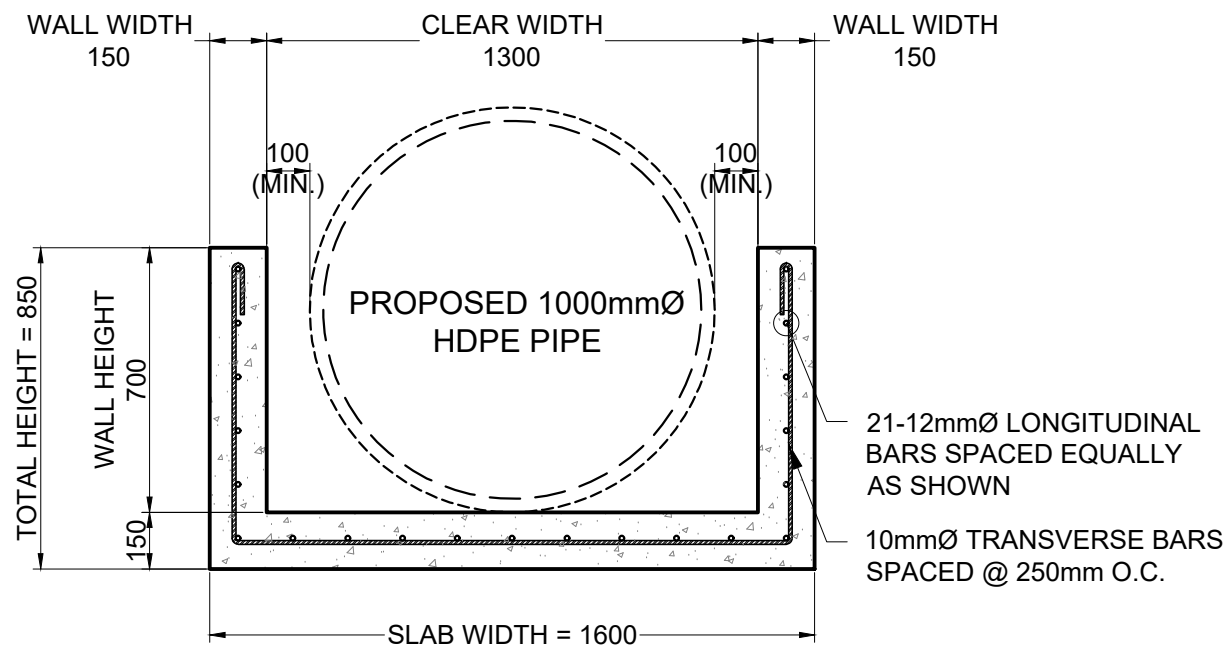
APPROVED:
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

DETAILS
07 18

109
120



1 HIGH DENSITY POLYETHYLENE (HDPE) PIPE SECTION DETAILS
Det-08 NOT TO SCALE



2 REINFORCED CONCRETE FLUME DETAILS
Det-08 SCALE: 1:20 M.

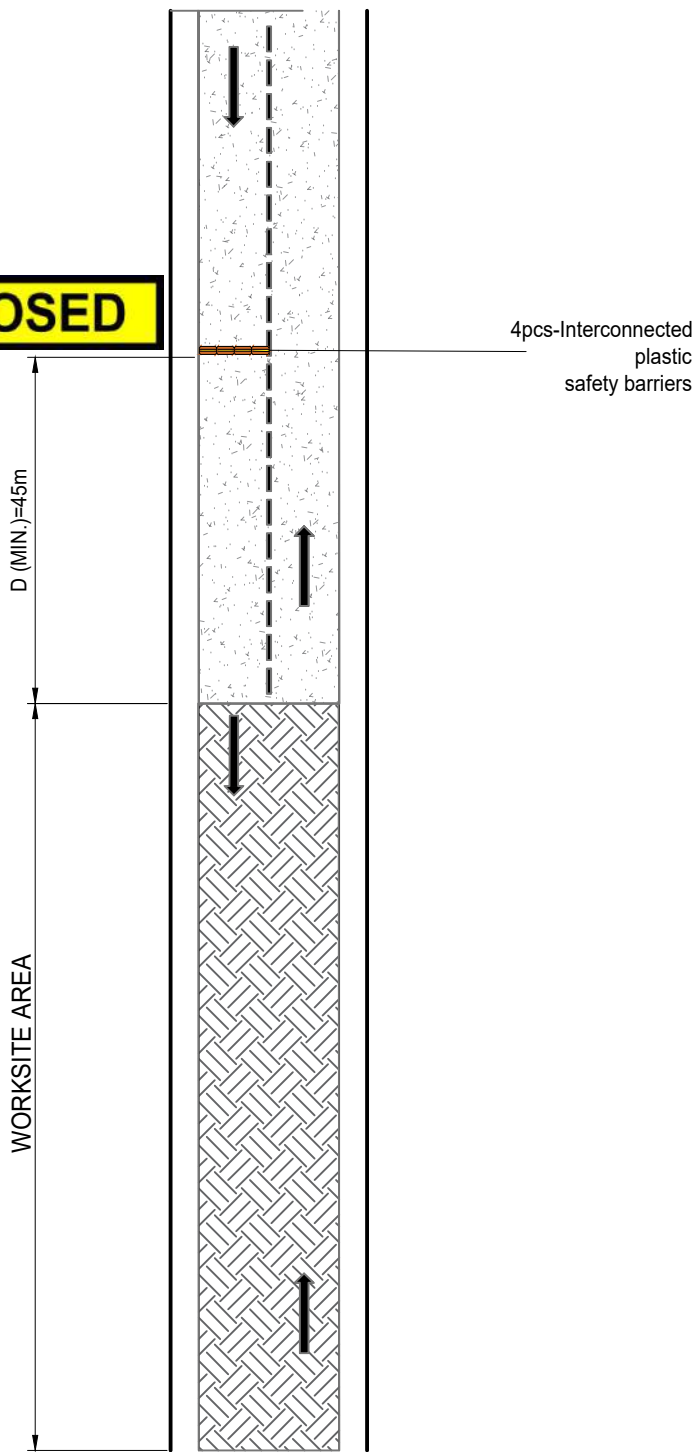
SOURCE:
HIGHWAY SAFETY DESIGN STANDARDS
PART 2
ROAD SIGNS AND PAVEMENT MARKINGS MANUAL

Table 3.1: Advance Warning Signs Distance (In Meters)

Approach Speed (kph)	Desired Speed (kph)			
	Stop	20	30	40
50	75	60	45	30
60	100	90	75	60
70	160	150	140	120
80	225	200	190	170

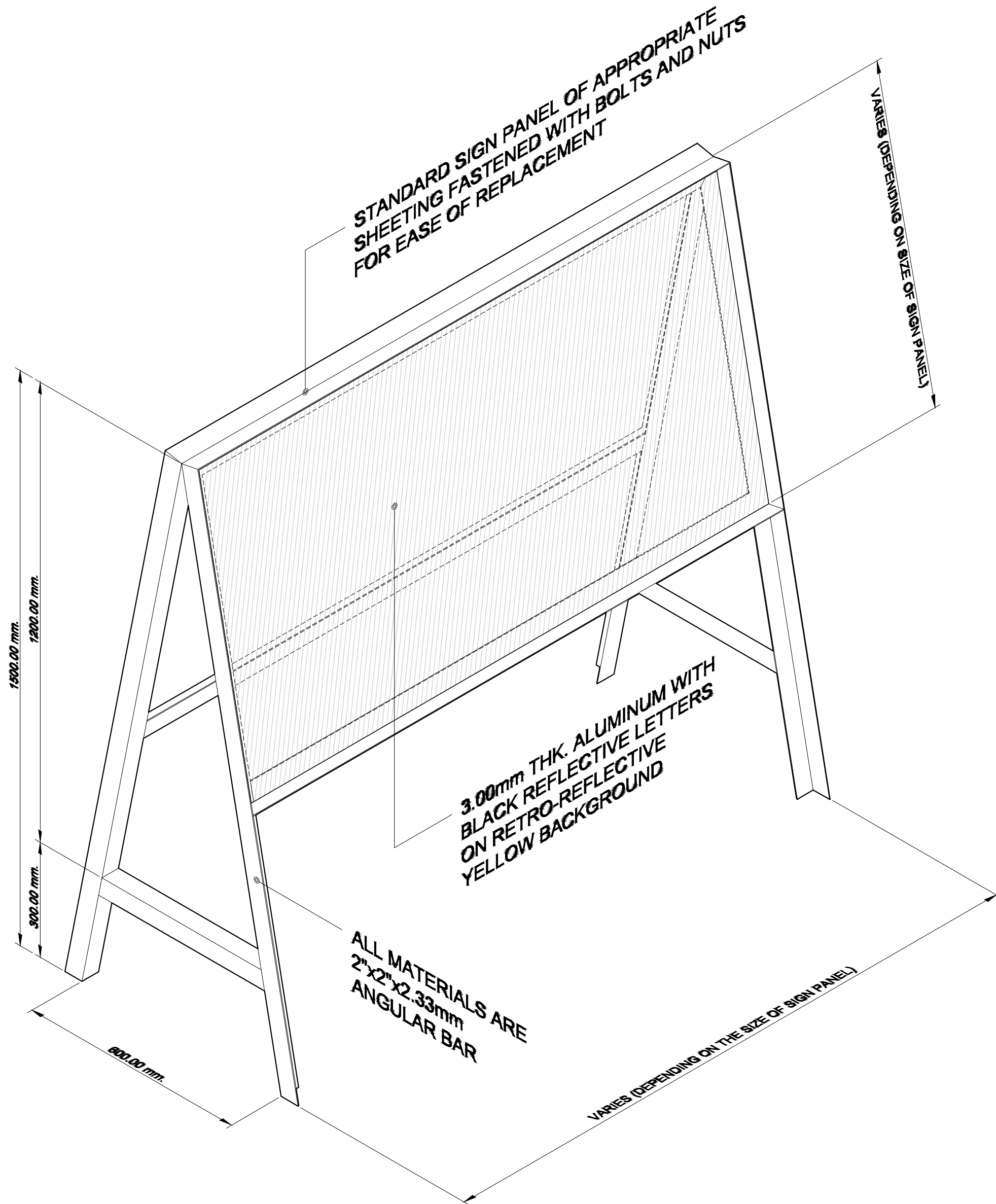
LOWER CHAINAGE

ROAD CLOSED



HIGHER CHAINAGE

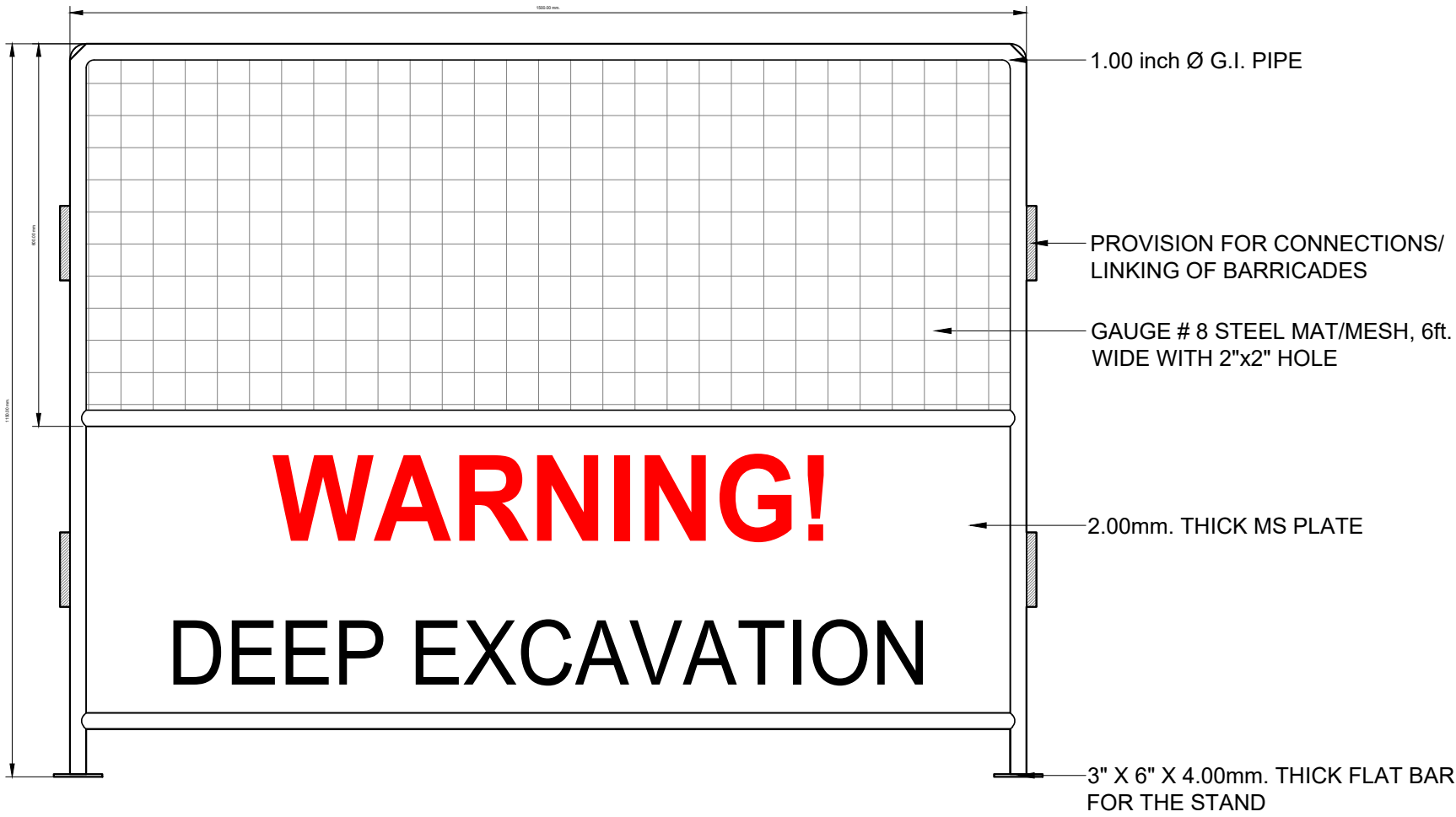
3 TRAFFIC MANAGEMENT LAYOUT
Det-08 SCALE AS SHOWN



1
Det-09

TWO-SIDE SIGN FRAME DETAIL

SCALE 1:10 M.



2
Det-09

CONSTRUCTION MESH
FENCE/BARRICADE DETAIL

SCALE 1:10



3
Det-09

WARNING SIGN DETAIL

NOT TO SCALE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
CORDILLERA ADMINISTRATIVE REGION
BENGUET 1ST DISTRICT ENGINEERING OFFICE
WANGAL, LA TRINIDAD, BENGUET

PROJECT NAME AND LOCATION:

CONSTRUCTION OF ROAD, PAYACPAC -
PALAKPAK - LUMES - APNE, BARANGAY SAN
PASCUAL, TUBA, BENGUET

TUBA, BENGUET

SHEET CONTENTS:

- TWO-SIDED SIGN FRAME DETAIL
- CONSTRUCTION MESH FENCE /
BARRICADE DETAIL
- WARNING SIGN DETAIL

PREPARED:

MARK ANTHONY L. FERRER
ENGINEER II

REVIEWED:

EDISON C. AMBALES
ASSISTANT CHIEF
PLANNING AND DESIGN SECTION
DATE:

SUBMITTED:

ROMUALDO T. APALIAS
OIC-CHIEF
PLANNING AND DESIGN SECTION
DATE:

RECOMMENDED:

EDGARDO G. ENRIQUEZ
ASSISTANT DISTRICT ENGINEER
DATE:

APPROVED:

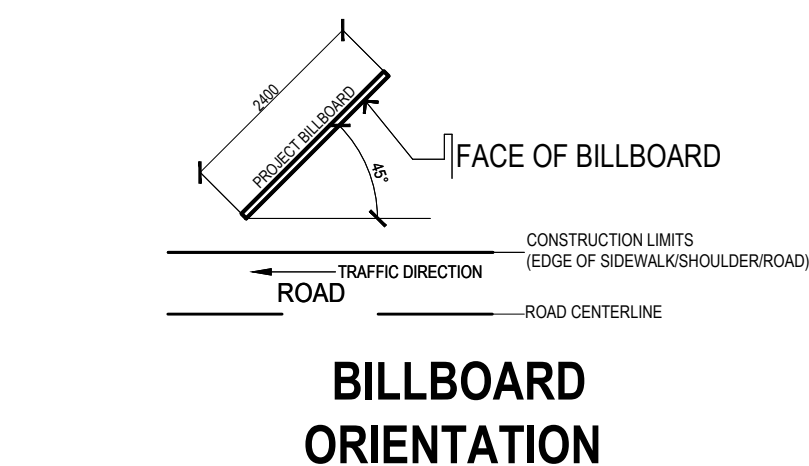
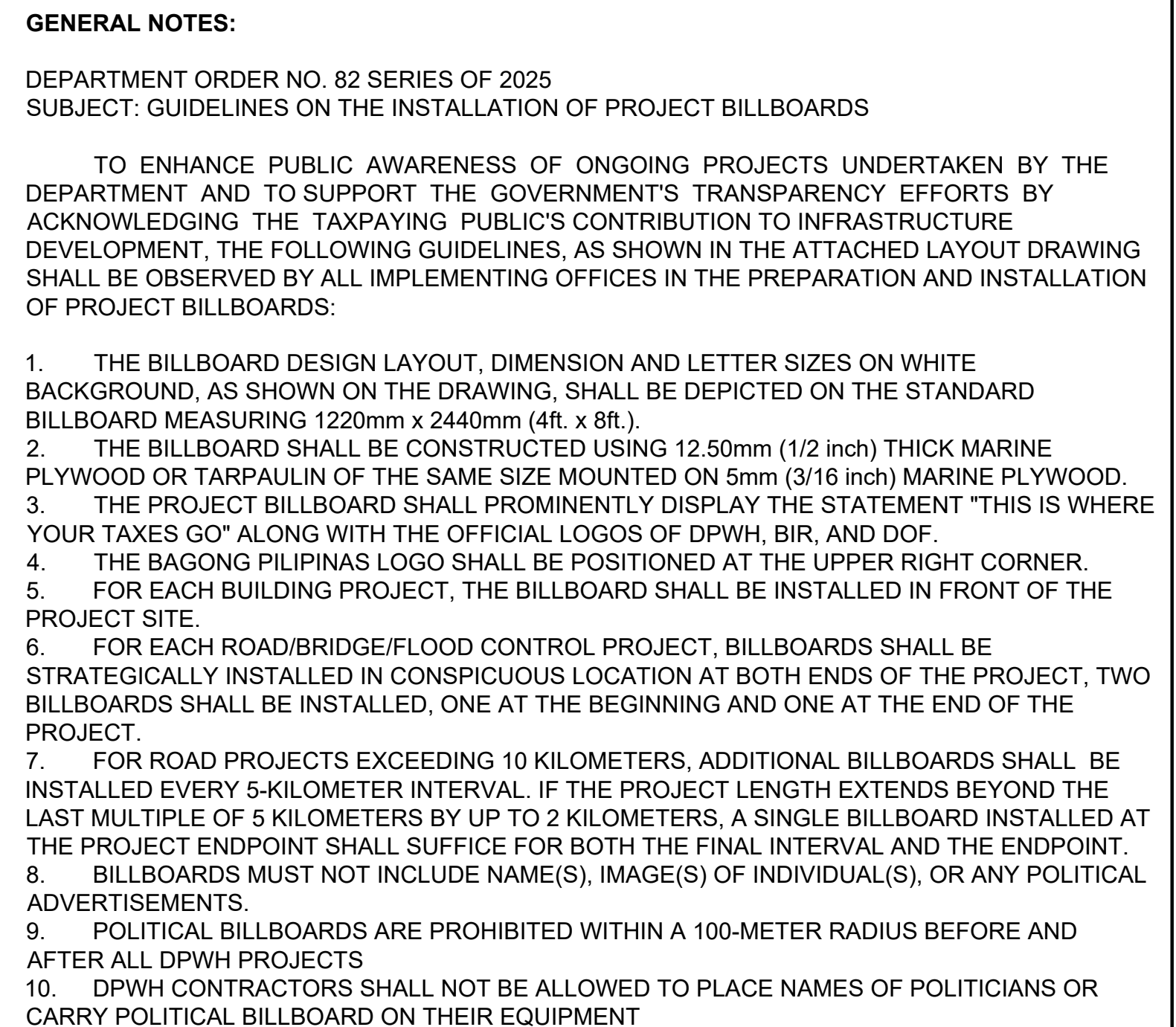
ISAGANI C. CAYME, CESE
DISTRICT ENGINEER
DATE:

SET NO.

DETAILS
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SHEET NO.

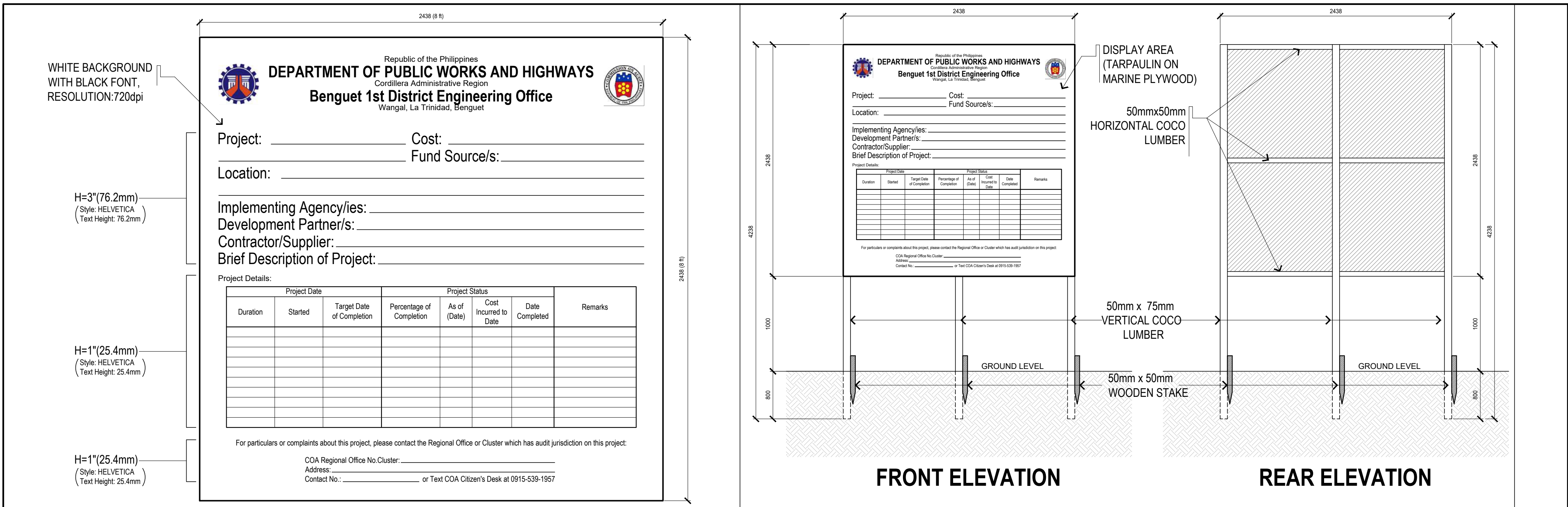
111
120



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE

2 Det-02 DPWH BILLBOARD FRAME DETAILS SCALE 1:30M									
 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF ROAD, PAYACPAC - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL, TUBA, BENGUET TUBA, BENGUET	-STANDARD PROJECT BILLBOARD DETAILS	<u>MARK ANTHONY L. FERRER</u> ENGINEER II	<u>EDISON C. AMBALES</u> ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE:	<u>ROMUALDO T. APALIAS</u> OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	<u>EDGARDO G. ENRIQUEZ</u> ASSISTANT DISTRICT ENGINEER DATE:	<u>ISAGANI C. CAYME, CESE</u> DISTRICT ENGINEER DATE:	DETAILS 02 04	16 120



- NOTE:
- FOR SOURCE OF FUND, STATE IF DPWH REGULAR BUDGET. PRIORITY DEVELOPMENT ASSISTANCE FUND, DEPED/DA/DAR BUDGET, CALAMITY FUND, MVUC FUND, ETC...
 - THE LAYOUT OF PROJECT BILLBOARD WAS BASED ON COA CIRCULAR NO. 2016-003 INFORMATION AND PUBLICITY ON PROGRAMS/PROJECTS/ACTIVITIES ON THE GOVERNMENT AGENCIES DATED AUGUST 16,2016.

1
Det-03

STANDARD COA BILLBOARD DETAILS

SCALE 1:15M

COA CIRCULAR NO.2016-003 : INFORMATION AND PUBLICITY OF PROGRAMS / PROJECTS / ACTIVITIES OF GOVERNMENT AGENCIES.

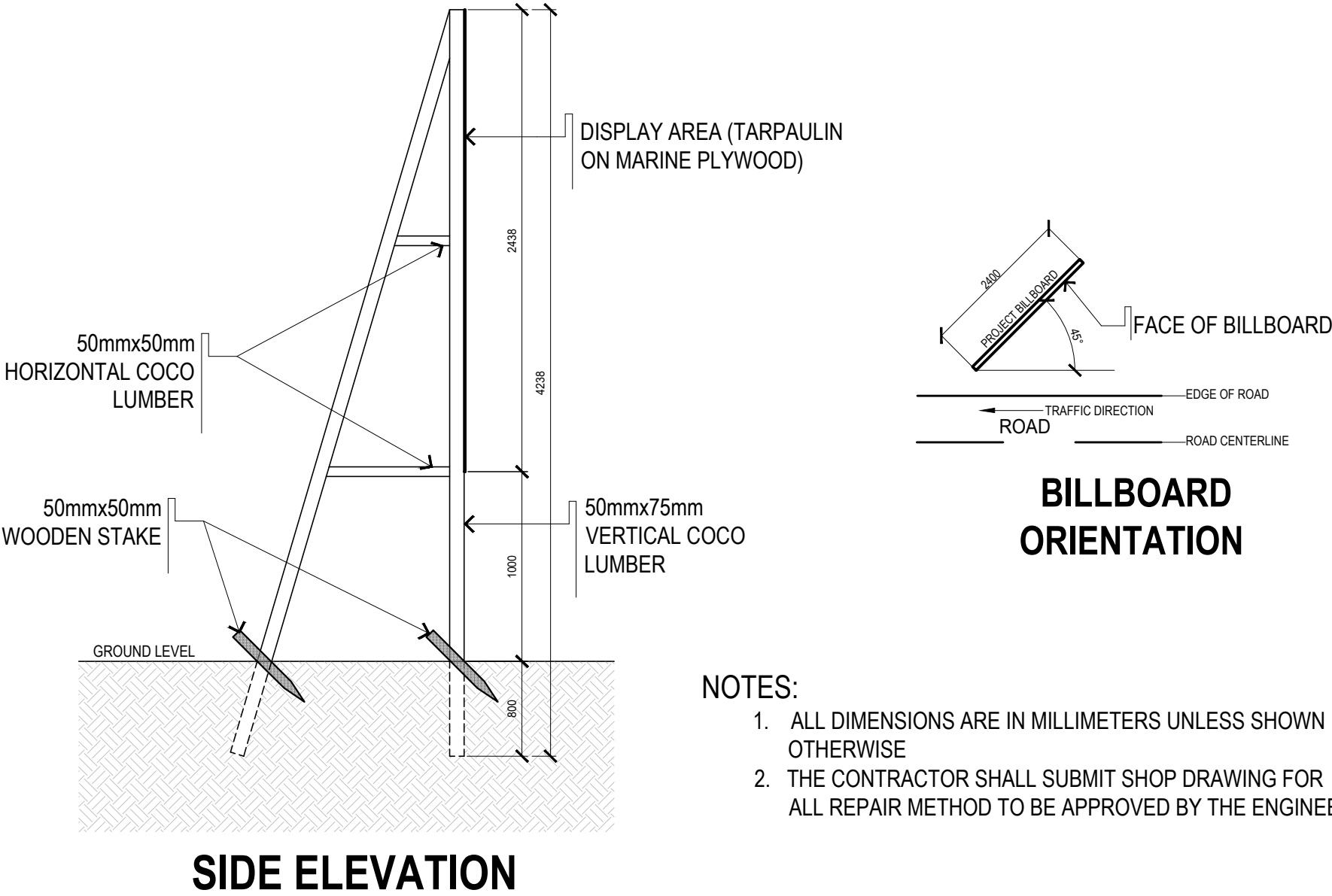
GENERAL GUIDELINES

CONSISTENT WITH THE CONSTITUTIONAL AND LEGAL MANDATE OF THE COMMISSION ON AUDIT TO PROMOTE GOOD GOVERNANCE THROUGH TRANSPARENCY AND ACCOUNTABILITY; TO ENCOURAGE PUBLIC PARTICIPATION THEREIN; AND TO SECURE THE RIGHT OF THE PEOPLE TO INFORMATION ON MATTERS OF PUBLIC CONCERN AT THE LEAST POSSIBLE COST ON PUBLIC FUNDS OR MOST ECONOMICALLY EFFECTIVE MEANS, THE FOLLOWING GUIDELINES ARE HEREBY RESTATED WITH AMENDMENTS AND UPDATED TO COVER ALL GOVERNMENT PROJECTS/PROGRAMS/ACTIVITIES:

- NOTIFICATION TO THE PUBLIC AND OTHER FORMS OF ANNOUNCEMENT AND/OR PUBLICITY FOR OR OTHERWISE RELATING TO THE PPA SHALL BE MADE AT THE LEAST POSSIBLE COST, TAKING INTO ACCOUNT THAT THE NATURE OF AND PURPOSES OF SUCH NOTIFICATION, ANNOUNCEMENT AND/OR PUBLICITY, IS TO INFORM THE PUBLIC OF THE ESSENTIAL FEATURES/ELEMENTS OF THE PPA. ACCORDINGLY,
 - ALL GOVERNMENT AGENCIES, OR THE IMPLEMENTING UNIT, OFFICE OR DIVISION AS THE CASE MAY BE, SHALL NOTIFY THE PUBLIC OF THEIR PPA THROUGH THE POSTING OF RELEVANT INFORMATION DETAILED IN ITEM 2 ABOVE ON SIGNBOARDS, BLACKBOARDS, WHITEBOARDS, POSTERS, TARPAULINS, STREAMERS, ELECTRONIC BOARDS OR SIMILAR MATERIALS (COLLECTIVELY, "SIGNBOARDS") NOT EXCEEDING 3 FEET BY 2 FEET, IN CONSPICUOUS PLACES WITHIN THE AGENCY PREMISES, AND IN THE VENUE WHERE THE PPA IS LOCATED OR CARRIED OUT. THIS REQUIREMENT APPLIES TO ALL GOVERNMENT PPAS, REGARDLESS OF AMOUNT OR SOURCE OF FUNDS.
 - FOR INFRASTRUCTURE PROJECTS, A TARPAULIN SIGNBOARD MUST BE SUITABLY FRAMED OR OUTDOOR DISPLAY AT THE PROJECT LOCATION, AND SHALL BE POSTED AS SOON AS THE AWARD HAS BEEN MADE. THE DESIGN AND FORMAT OF THE TARPAULIN, AS SHOWN IN ANNEX "A," SHALL HAVE THE FOLLOWING SPECIFICATIONS:

TARPAULIN, WHITE, 8 FTX 8 FT
RESOLUTION: 70 DPI
FONT : HELVETICA
FONT SIZE: MAIN INFORMATION - 3"
SUB-INFORMATION - 1 "
FONT COLOR: BLACK

- THE COST OF THE PUBLIC NOTICES REFERRED TO ABOVE SHALL BE CHARGED AGAINST THE PROJECT COST, PROVIDED SUCH NOTICES CONFORM TO THE SPECIFICATIONS SET FORTH HEREIN.
- THE DISPLAY AND/OR AFFIXTURE OF THE PICTURE, IMAGE, MOTTO, LOGO, COLOR MOTIF, INITIALS OR OTHER SYMBOL OR GRAPHIC REPRESENTATION ASSOCIATED WITH THE TOP LEADERSHIP OF THE PROJECT PROPONENT OR IMPLEMENTING AGENCY/UNIT/OFFICE, ON SIGNBOARDS, IS CONSIDERED UNNECESSARY. THIS RULE SHALL ALSO APPLY TO SIGNBOARDS DISPLAYING AND/OR AFFIXED WITH THE PICTURE, IMAGE, MOTTO, LOGO, COLOR MOTIF, INITIALS OR OTHER SYMBOL OR REPRESENTATION ASSOCIATED WITH MEMBERS OF THE CONGRESS, EXECUTIVE OFFICIALS OR LOCAL OFFICIALS WHERE THE PPA IS IMPLEMENTED WHOLLY OR PARTIALLY THROUGH THE PRIORITY DEVELOPMENT ASSISTANCE FUND (PDAF) OF CONGRESS OR THROUGH OTHER FORMS OF GOVERNMENT FUND TRANSFERS FROM THE EXECUTIVE DEPARTMENT OR LGUS.



- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWING FOR ALL REPAIR METHOD TO BE APPROVED BY THE ENGINEER.

2
Det-03

COA BILLBOARD FRAME DETAILS

SCALE 1:30M

 REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS CORDILLERA ADMINISTRATIVE REGION BENGUET 1ST DISTRICT ENGINEERING OFFICE WANGAL, LA TRINIDAD, BENGUET	PROJECT NAME AND LOCATION:	SHEET CONTENTS:	PREPARED:	REVIEWED:	SUBMITTED:	RECOMMENDED:	APPROVED:	SET NO.	SHEET NO.
	CONSTRUCTION OF ROAD, PAYACPAK - PALAKPAK - LUMES - APNE, BARANGAY SAN PASCUAL,TUBA, BENGUET	-DPWH STANDARD PROJECT BILLBOARD DETAILS -COA STANDARD PROJECT BILLBOARD DETAILS -BILLBOARD ORIENTATION	<u>MARK ANTHONY L. FERRER</u> ENGINEER II	<u>EDISON C. AMBALES</u> ASSISTANT CHIEF PLANNING AND DESIGN SECTION DATE:	<u>ROMUALDO T. APALIAS</u> OIC-CHIEF PLANNING AND DESIGN SECTION DATE:	<u>EDGARDO G. ENRIQUEZ</u> ASSISTANT DISTRICT ENGINEER DATE:	<u>ISAGANI C. CAYME, CESE</u> DISTRICT ENGINEER DATE:	DETAILS 03 04	17 120
	TUBA, BENGUET								