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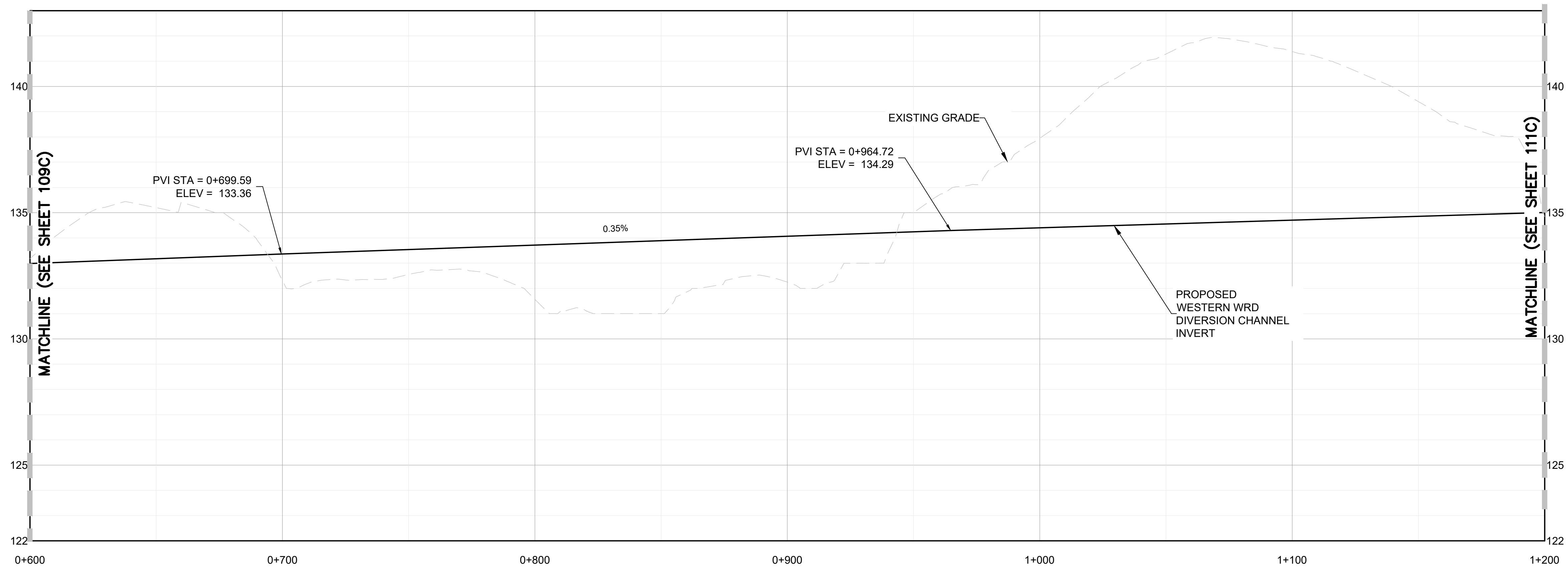
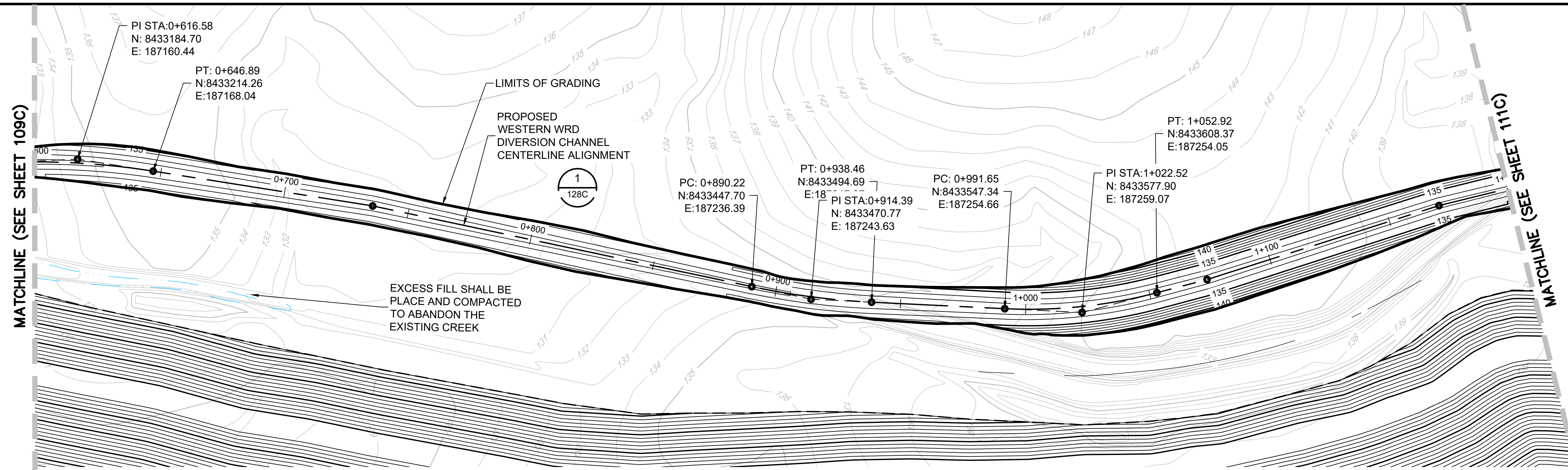
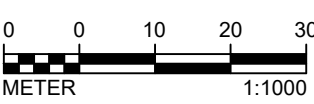
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**SURFACE WATER MANAGEMENT PLAN
PROPOSED WESTERN WRD DIVERSION
CHANNEL PLAN AND PROFILE
STA 0+000 TO STA 0+600**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	4520-DC-109C
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	

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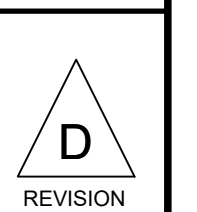
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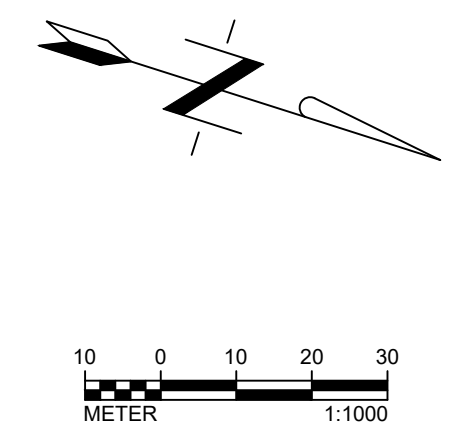
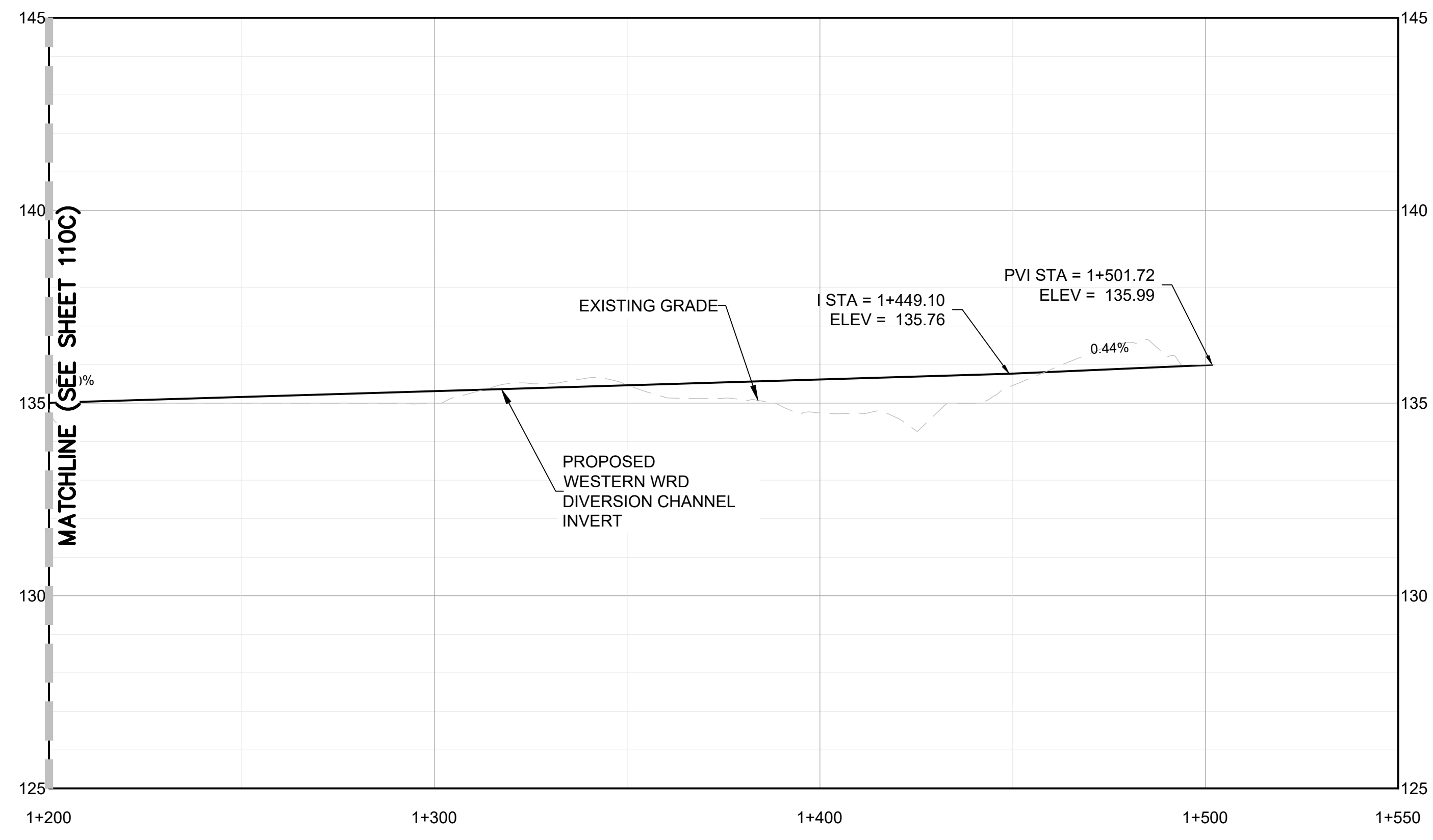
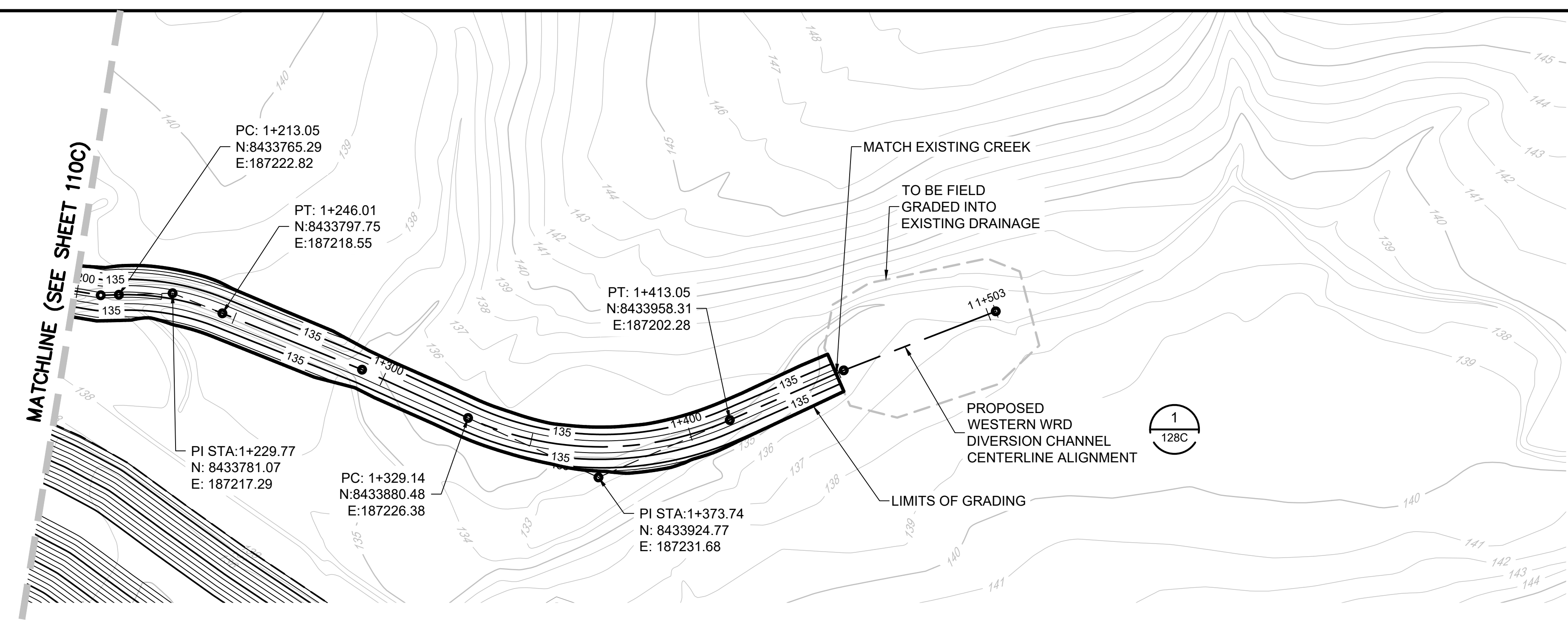
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PROPOSED WESTERN WRD DIVERSION
CHANNEL PLAN AND PROFILE
STA 06+000 TO 1+200**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN
Project no.: 200-01299-21007
Location: NORTHERN TERRITORY, AUSTRALIA
Date: 12/16/2021

4520-DC-110C
SHEET 11 OF 34



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**SURFACE WATER MANAGEMENT PLAN
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 CHANNEL PLAN AND PROFILE
 STA 1+200 TO 1+550**

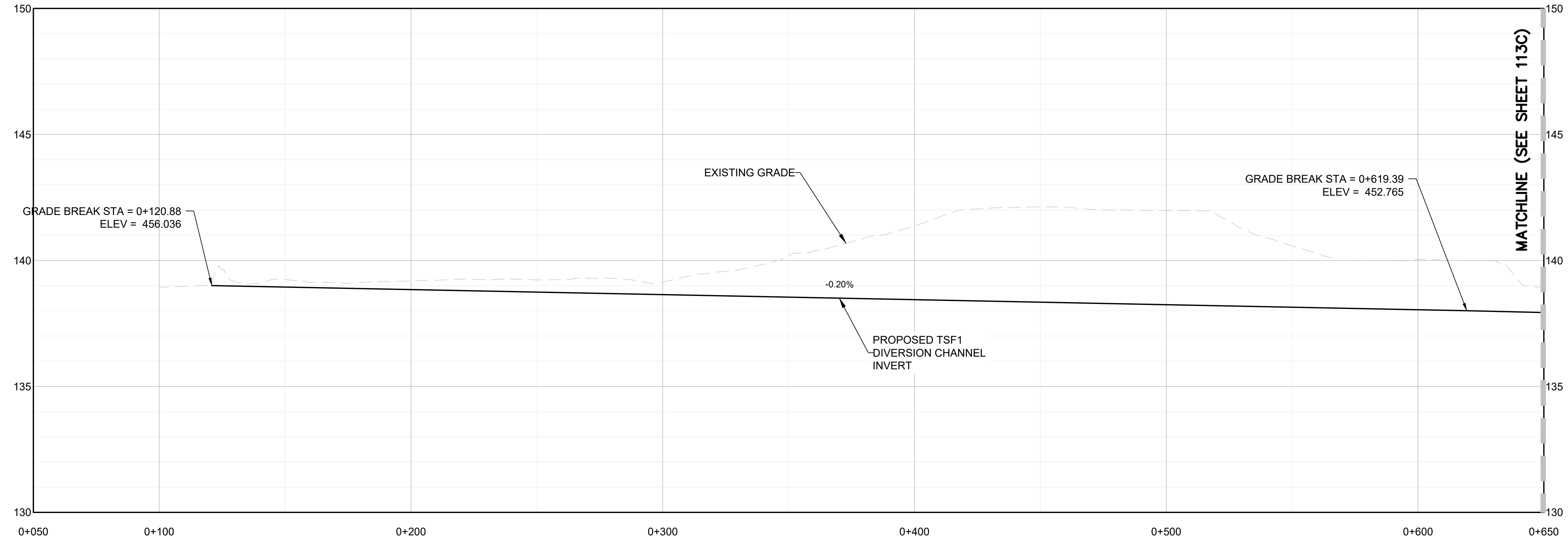
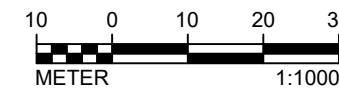
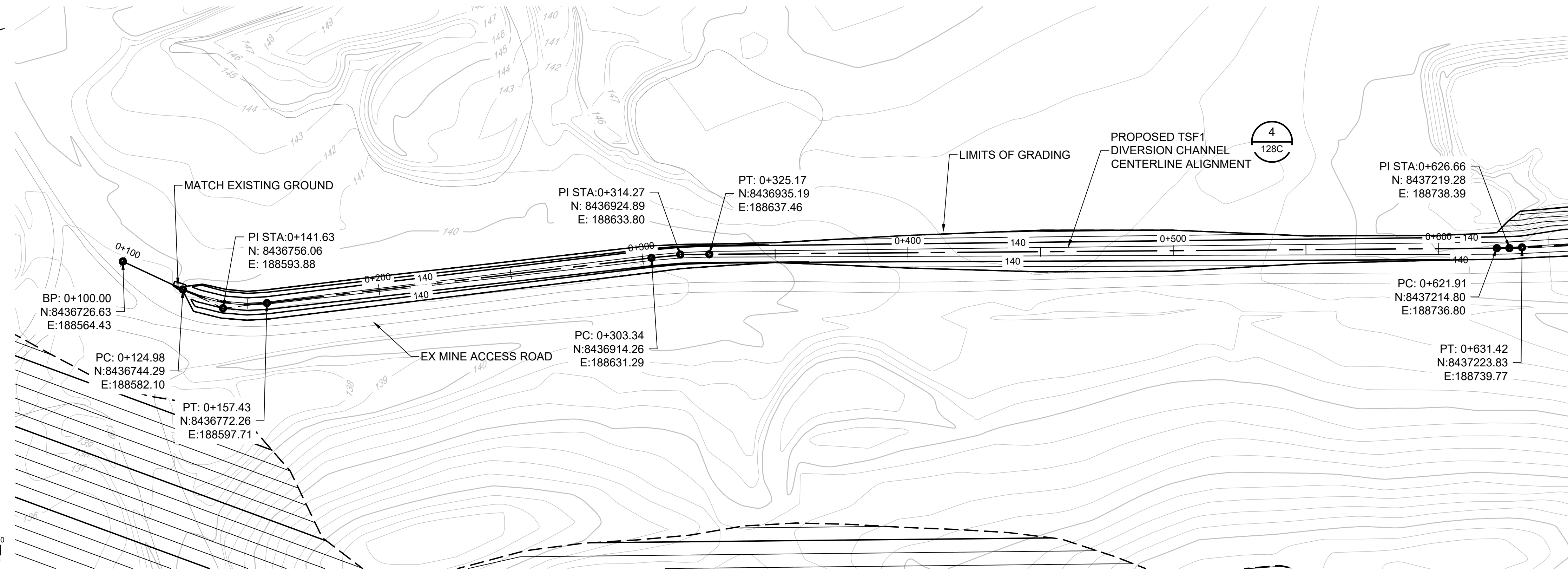
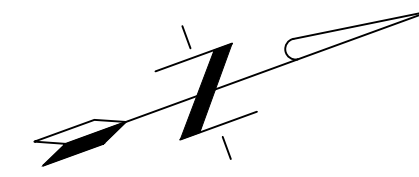
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Location: NORTHERN TERRITORY, AUSTRALIA
 Date: 12/16/2021

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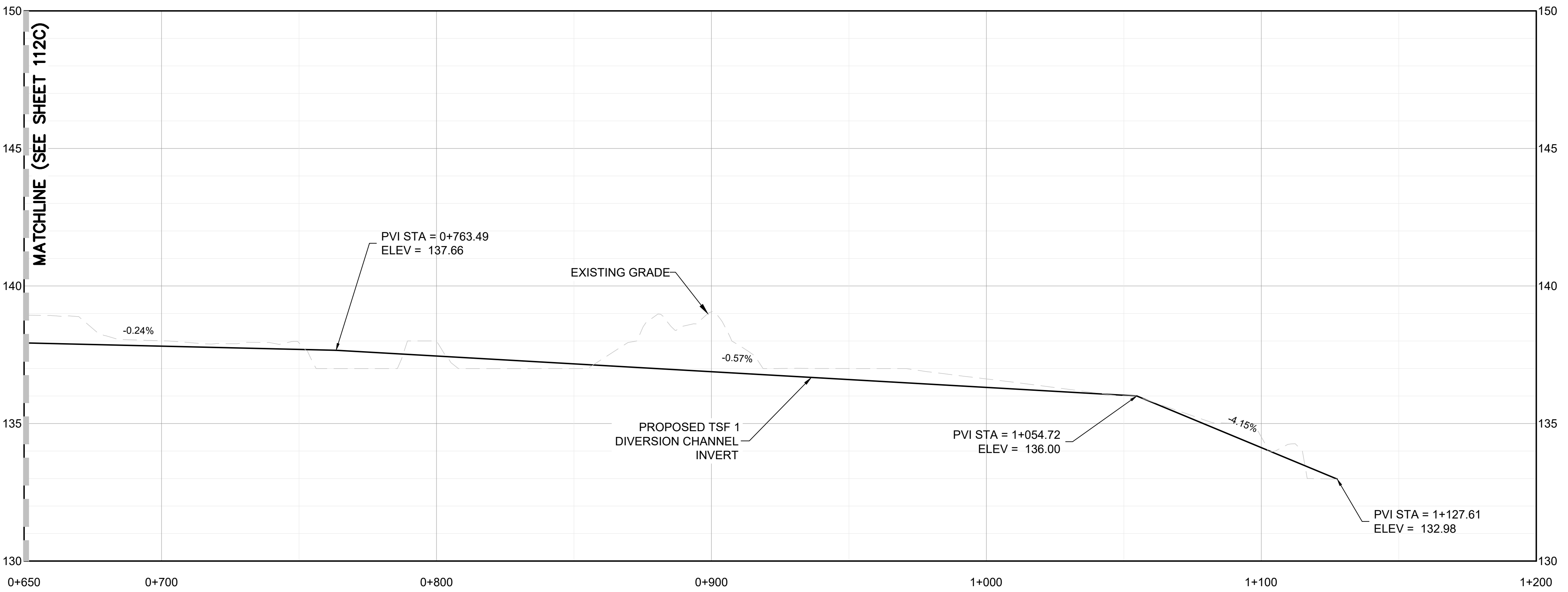
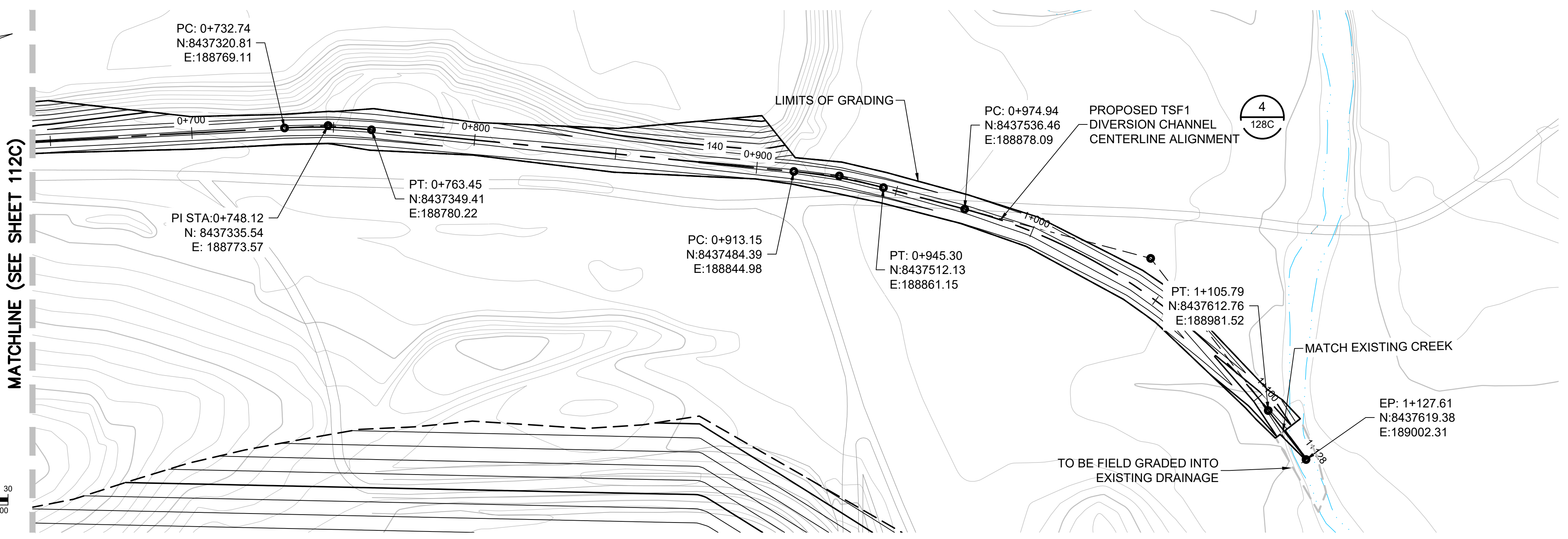
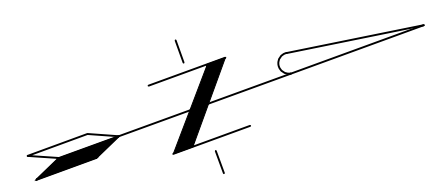
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**SURFACE WATER MANAGEMENT PLAN
PROPOSED TSF1 DIVERSION CHANNEL
PLAN AND PROFILE
STA 0+100 TO 0+650**



Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021

4520-DC-112C
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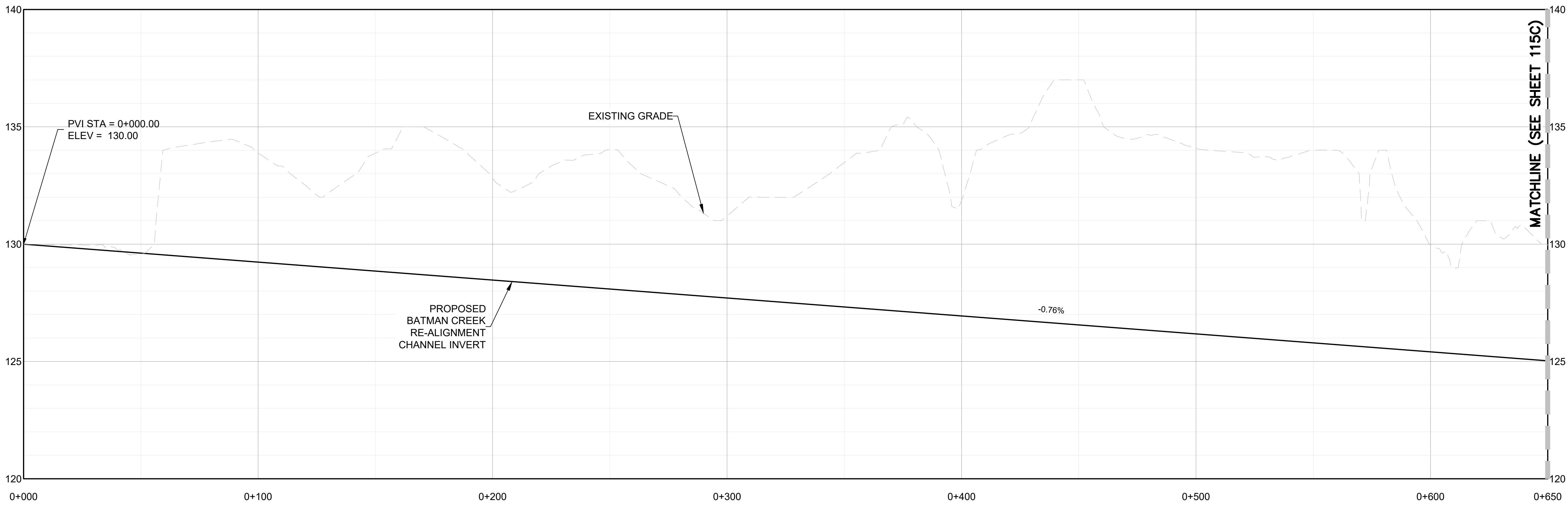
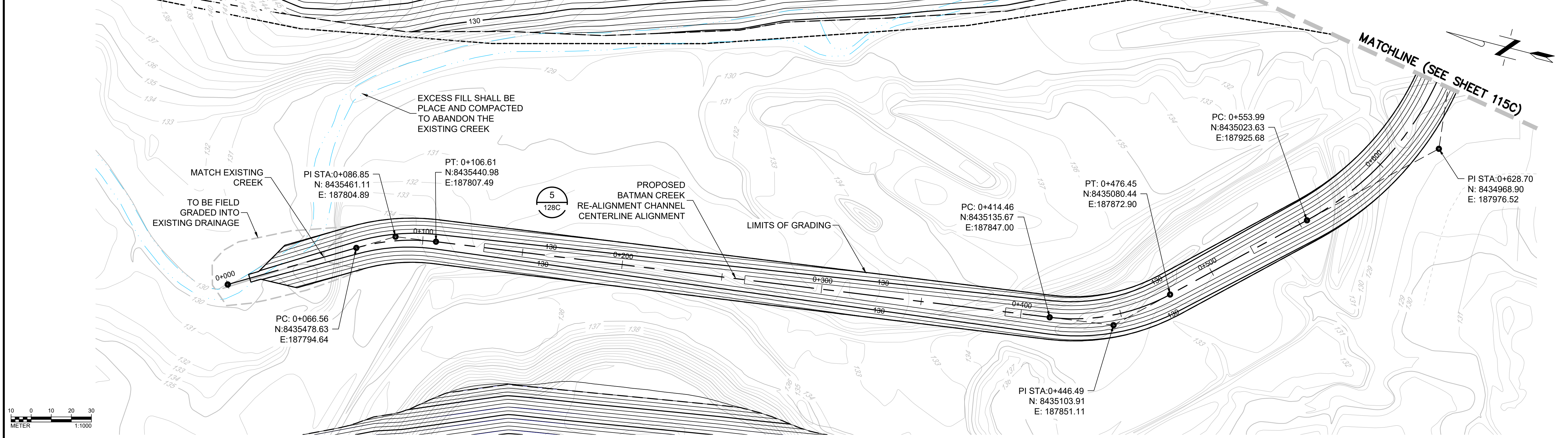
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**SURFACE WATE MANAGEMENT PLAN
 PROPOSED TSF1 DIVERSION CHANNEL
 PLAN AND PROFILE
 STA 0+650 TO 1+127.61**



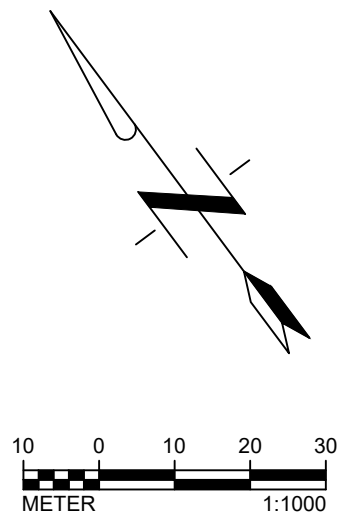
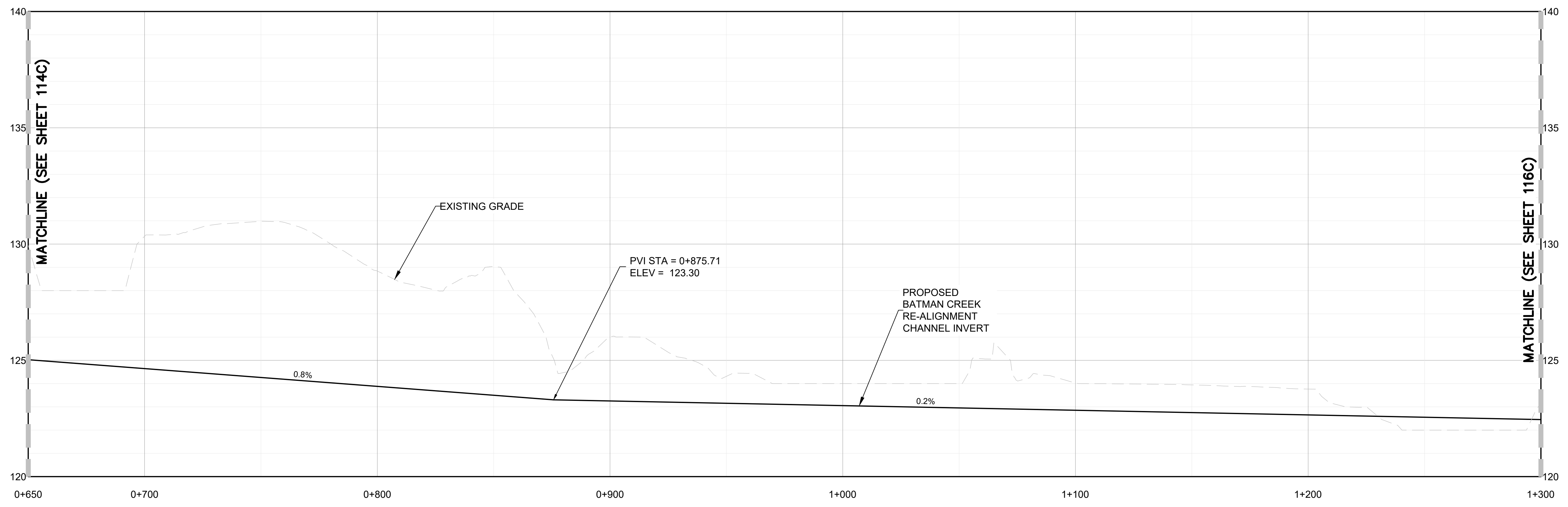
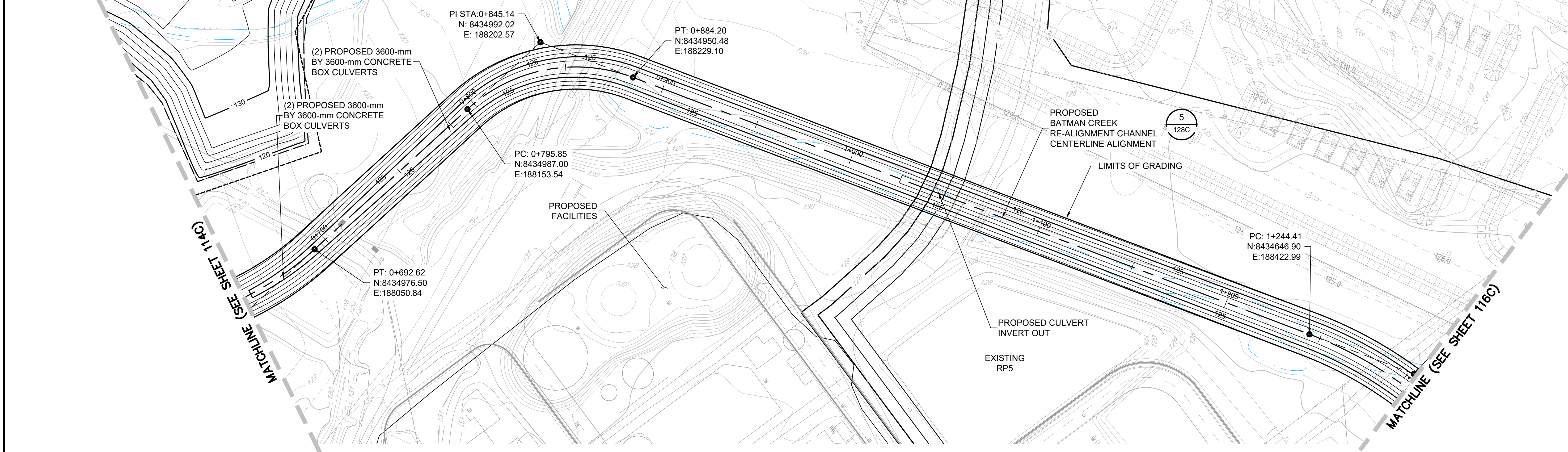
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Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	

SHEET 14 OF 34



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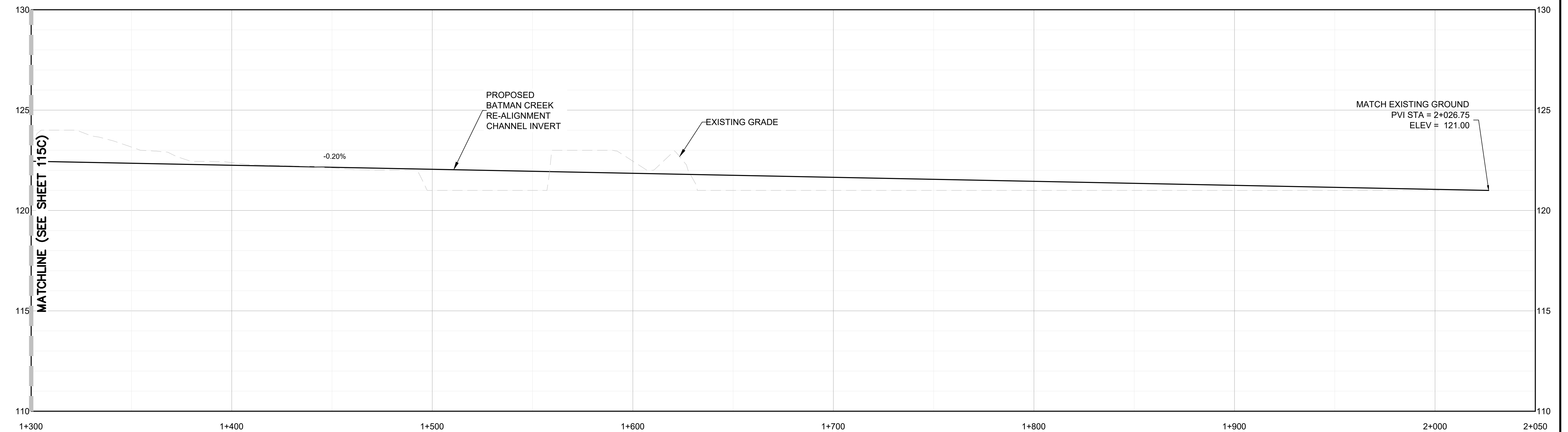
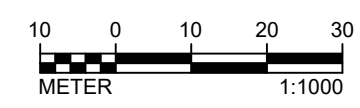
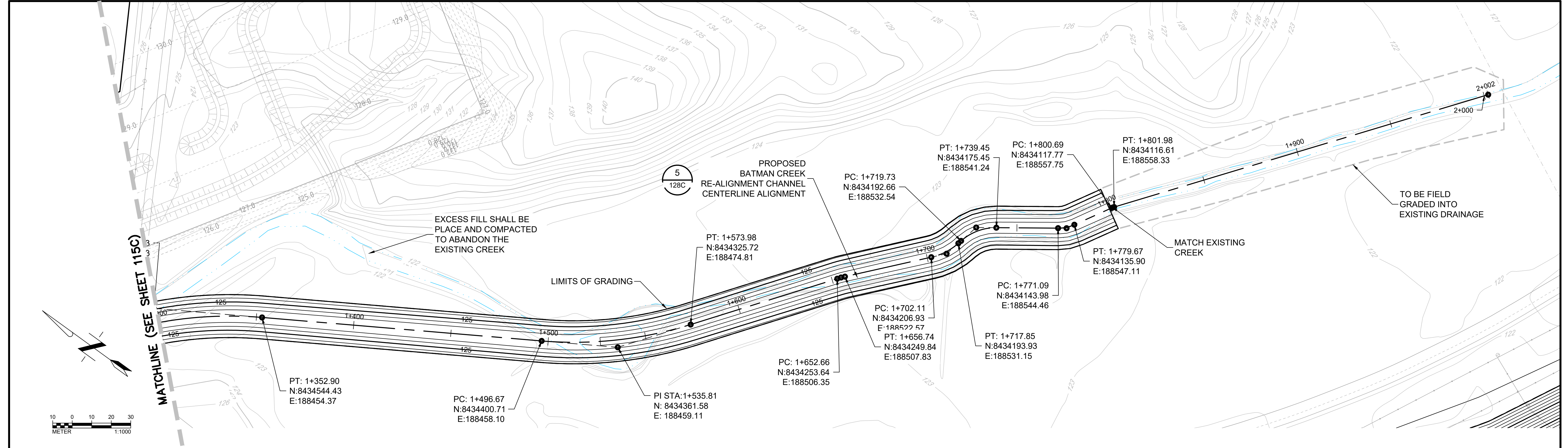
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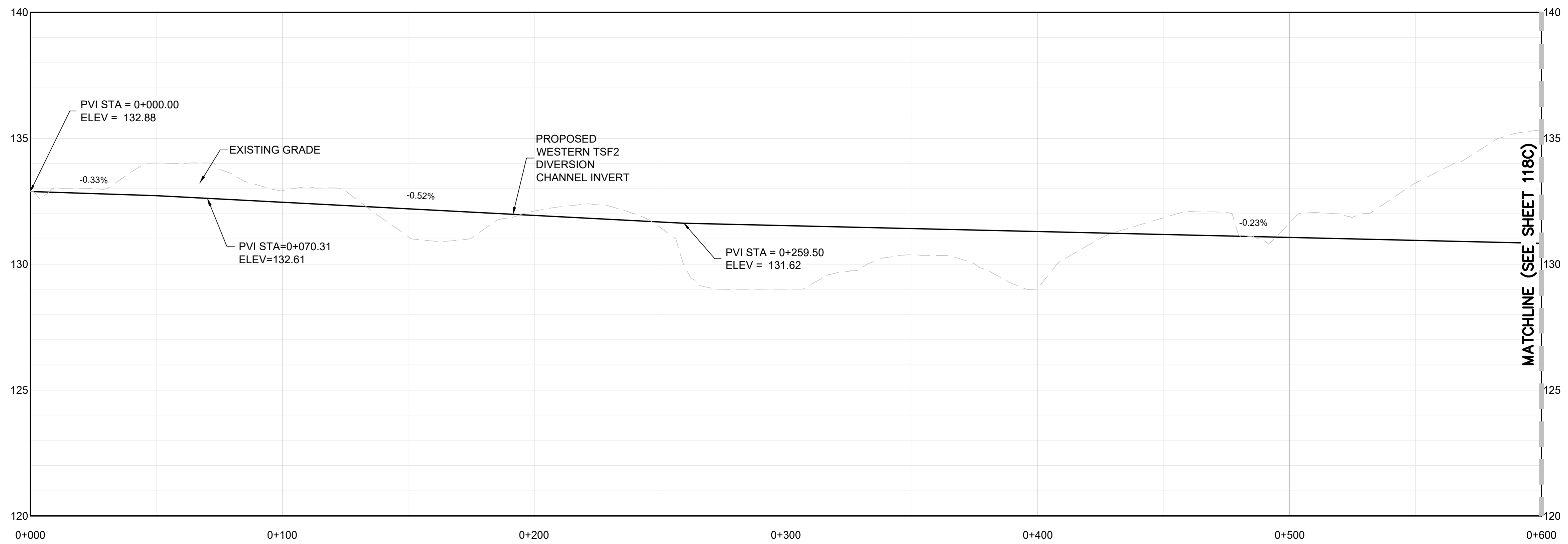
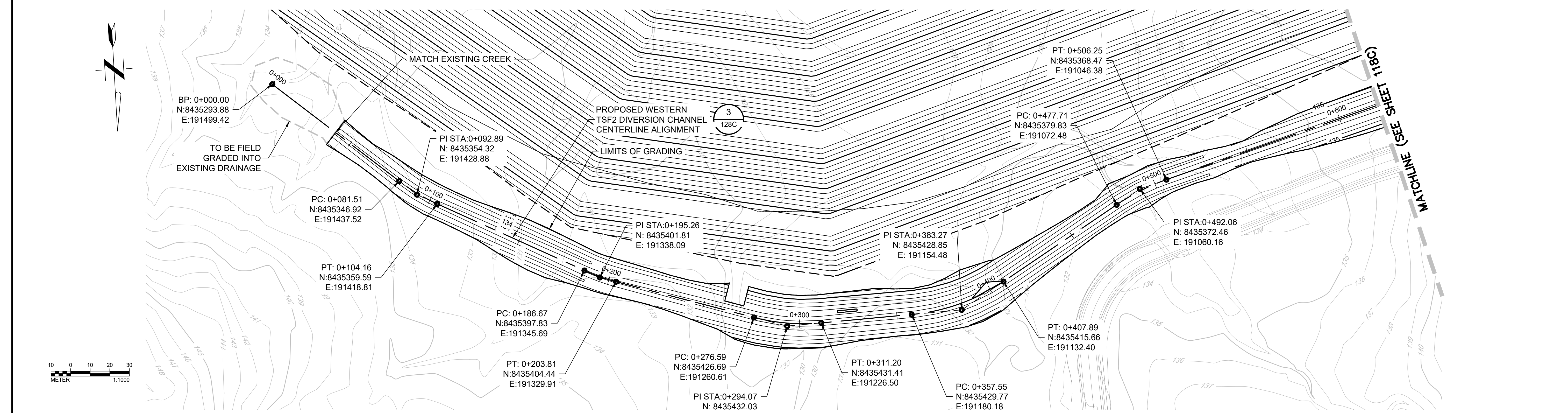
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PROPOSED BATMANN CREEK RE-ALIGNMENT
CHANNEL PLAN AND PROFILE
STA 0+650 TO 1+300

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	 REVISION 4520-DC-115C SHEET 16 OF 34
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	



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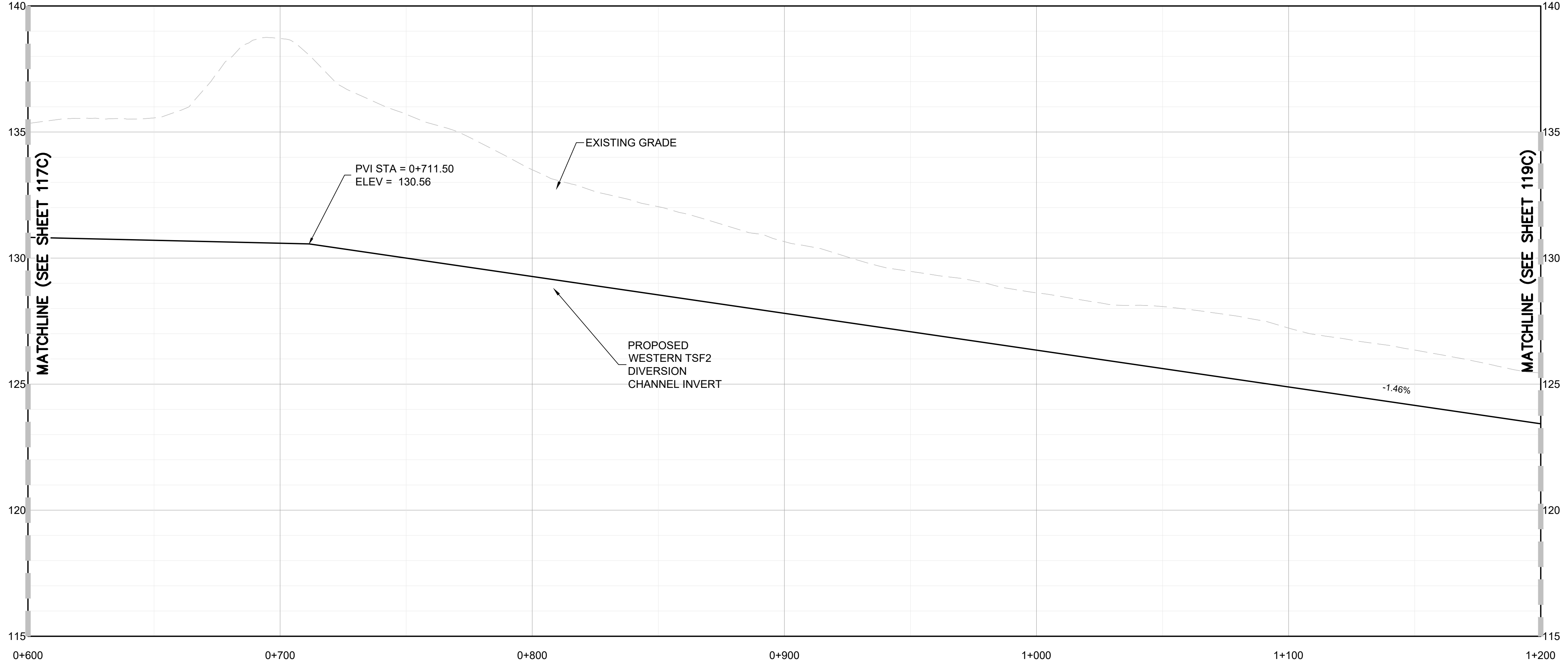
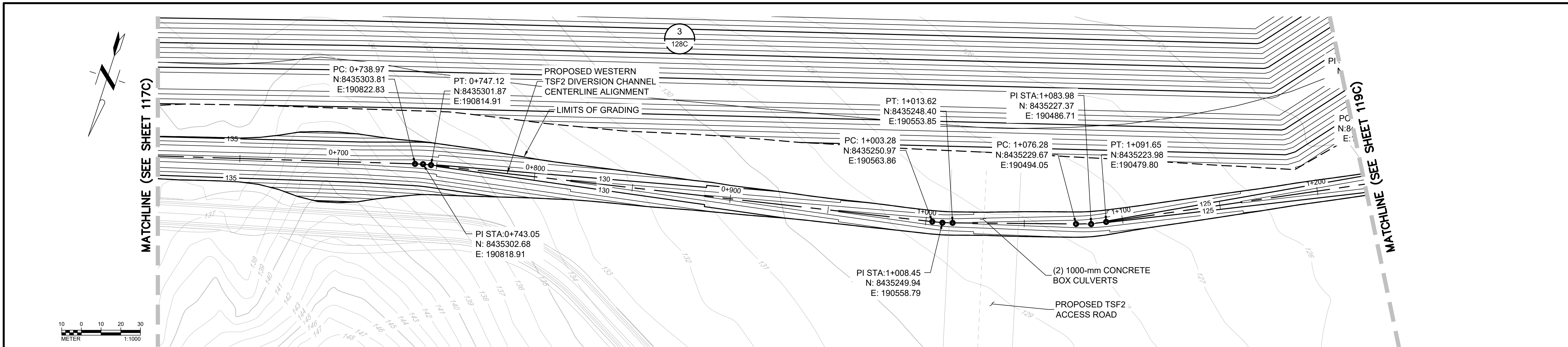
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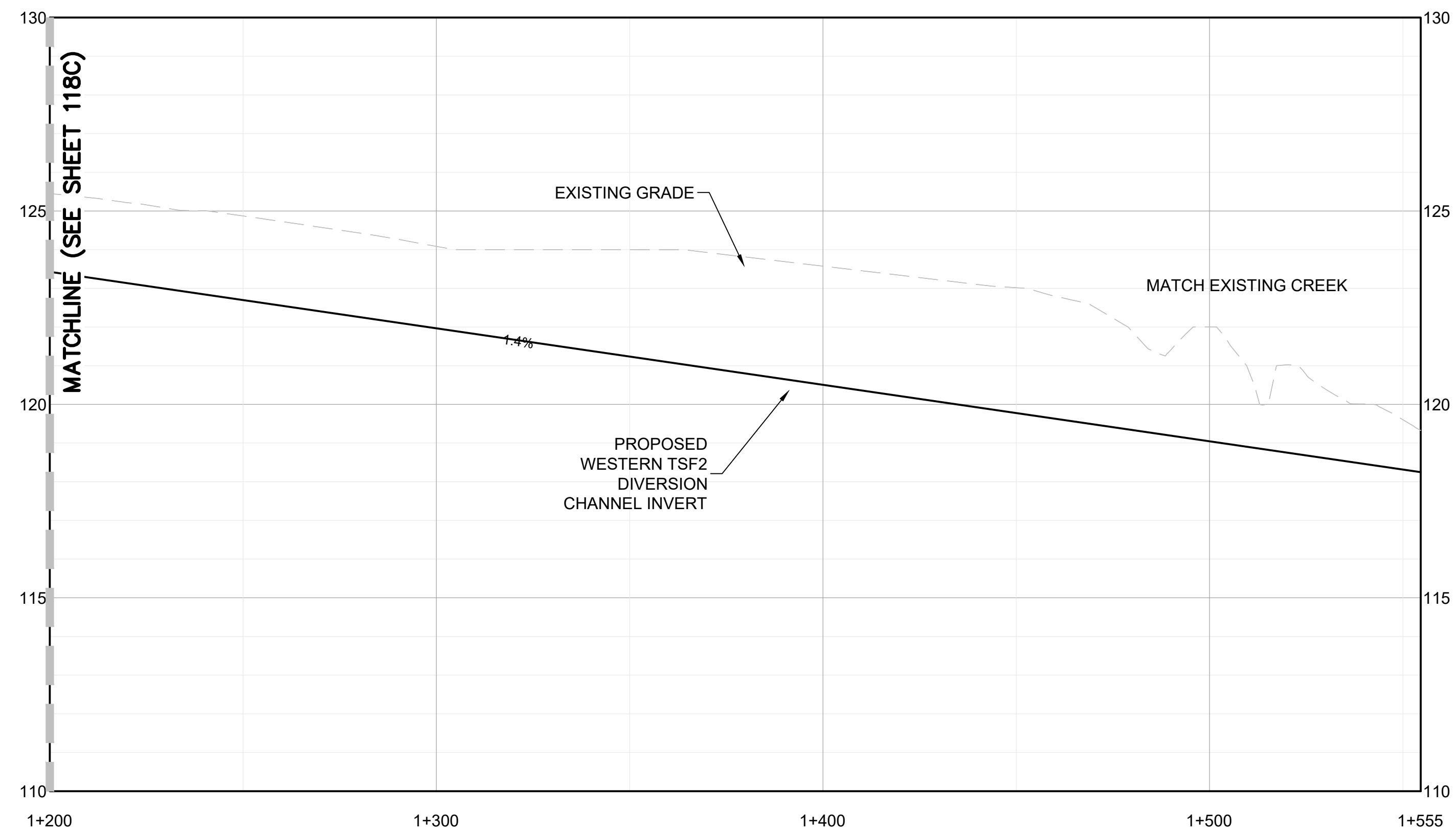
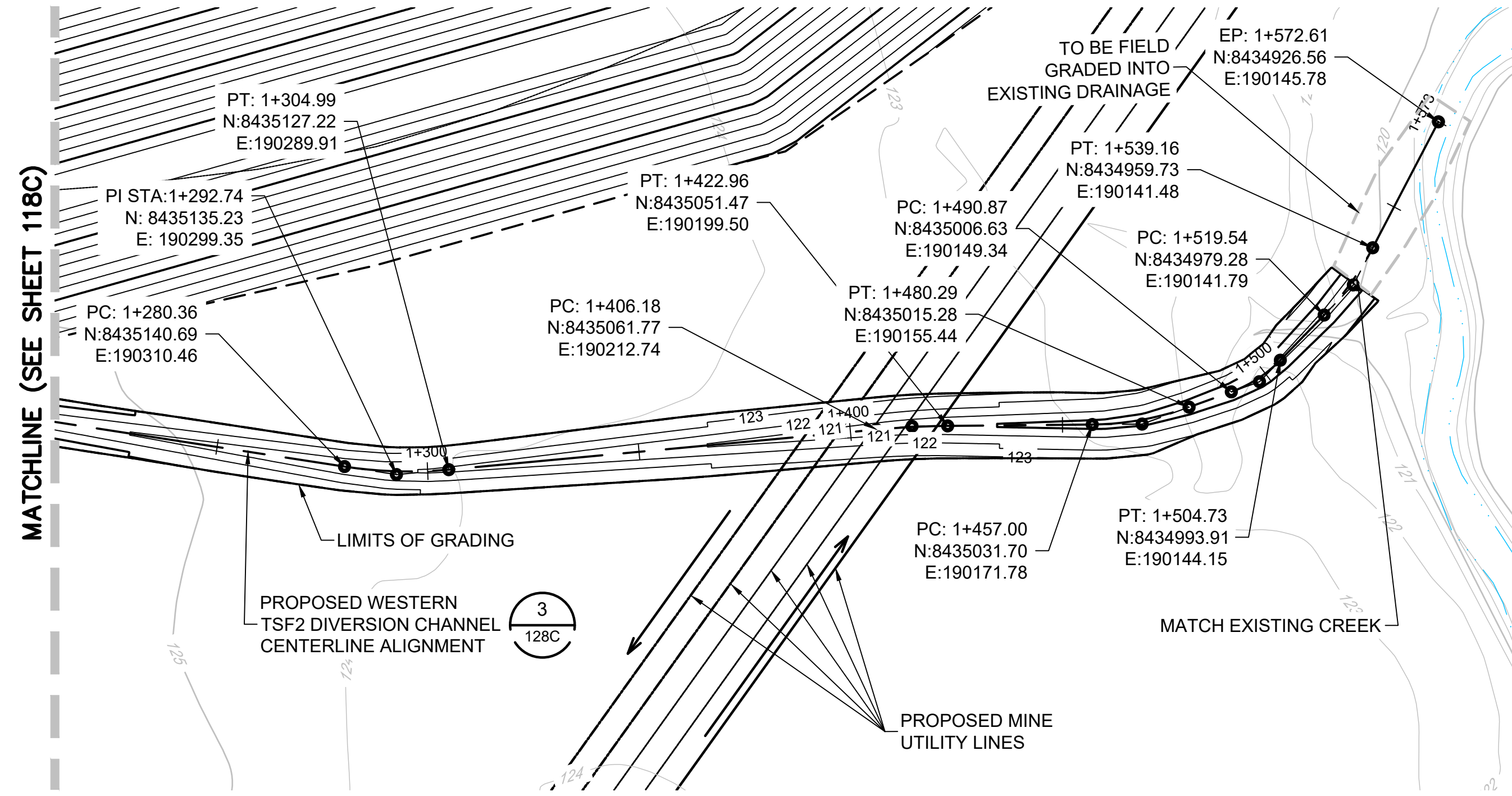
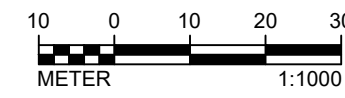
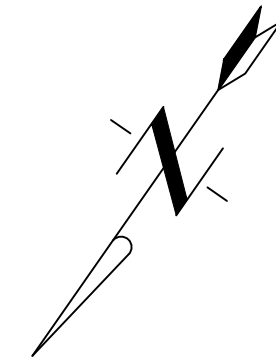
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<p>ENGINEER'S SEAL</p> <p style="text-align: center;">PRELIMINARY DRAWING</p> <p style="text-align: center;">NOT ISSUED FOR CONSTRUCTION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Rev</th> <th>Description</th> <th>BY</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Rev	Description	BY	Date																																									<p>Scale: AS SHOWN</p> <p>Designed by: CC Drawn by: VH Checked by: VS Approved by: VS</p> <p>Issued by: VISTA GOLD</p>	<p>Issued by: TETRA TECH</p> <p style="font-size: small;">350 Indiana Street, Suite 500 Golden, Colorado 80401 (303) 217-5700 (303) 217-5705 fax</p>	<p>SURFACE WATER MANAGEMENT PLAN PROPOSED WESTERN TSF2 DIVERSION CHANNEL PLAN AND PROFILE STA 0+600 TO 1+200</p>	<p>REVISION</p>
Rev	Description	BY	Date																																														
REFERENCE					Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN Location: NORTHERN TERRITORY, AUSTRALIA	Project no.: 200-01299-21007 Date: 12/16/2021	4520-DC-118C SHEET 19 OF 34																																										

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△	PRELIMINARY DESIGN ISSUED FOR REVIEW	JC	05/12/2017
△	PRELIMINARY DESIGN	CC	04/21/2017

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Drawn by:	VH		
Checked by:	VS		
Approved by:	VS		

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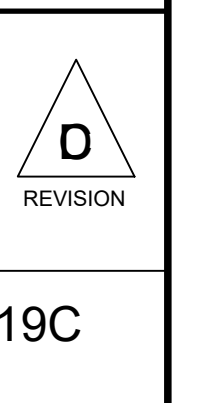
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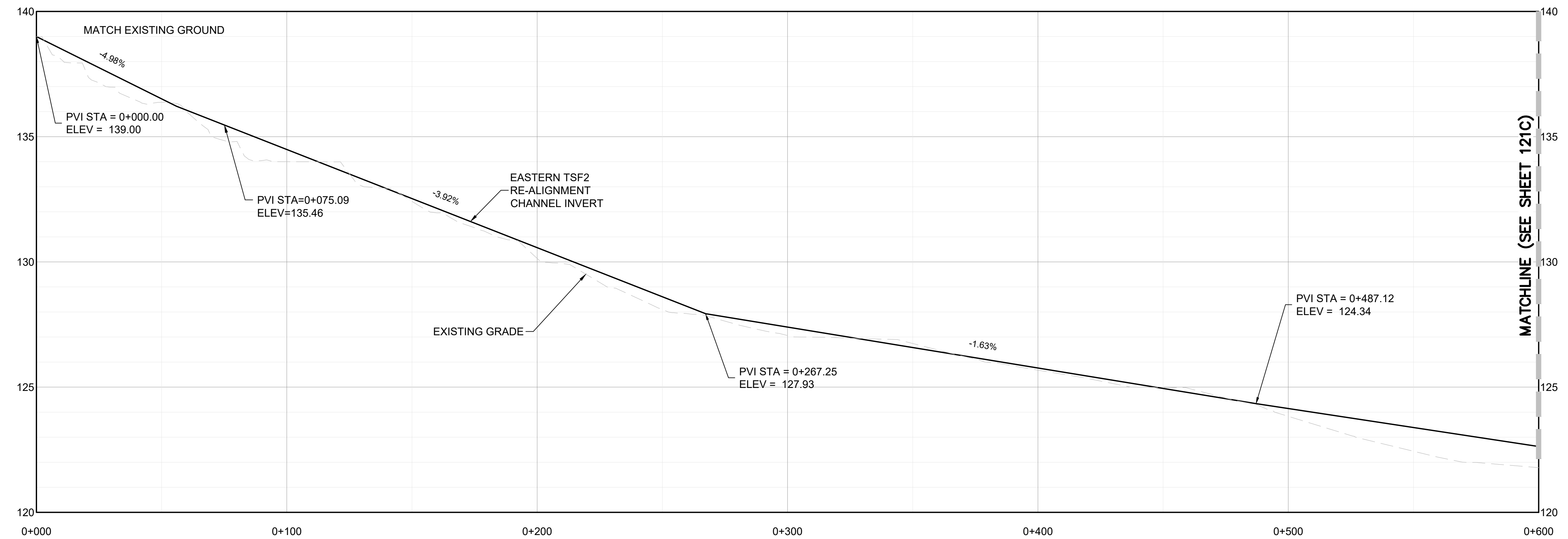
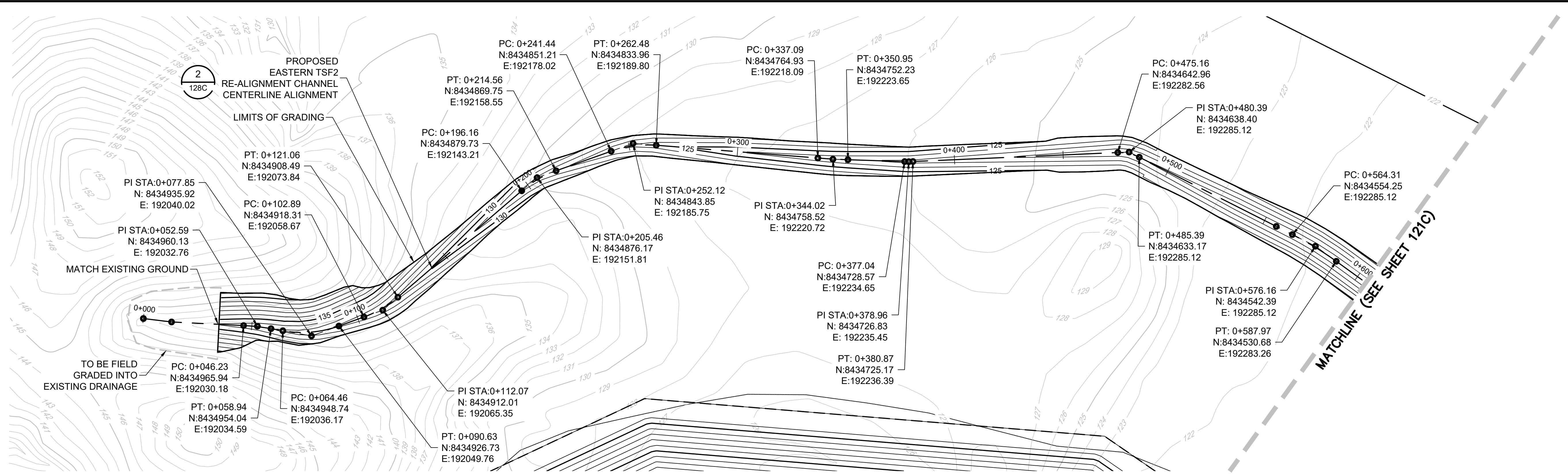
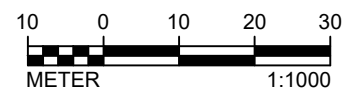
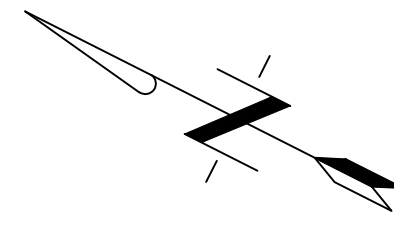
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**SURFACE WATER MANAGEMENT PLAN
PROPOSED WESTERN TSF2 DIVERSION
CHANNEL PLAN AND PROFILE
STA 1+200 TO 1+555**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	4520-DC-119C SHEET 20 OF 34
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	



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Rev	Description	BY	Date
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08/2017	ADDRESSED 08/2017 CLIENT COMMENTS	DF	11/03/2017
PRELIMINARY DESIGN ISSUED FOR REVIEW	JC	05/12/2017	
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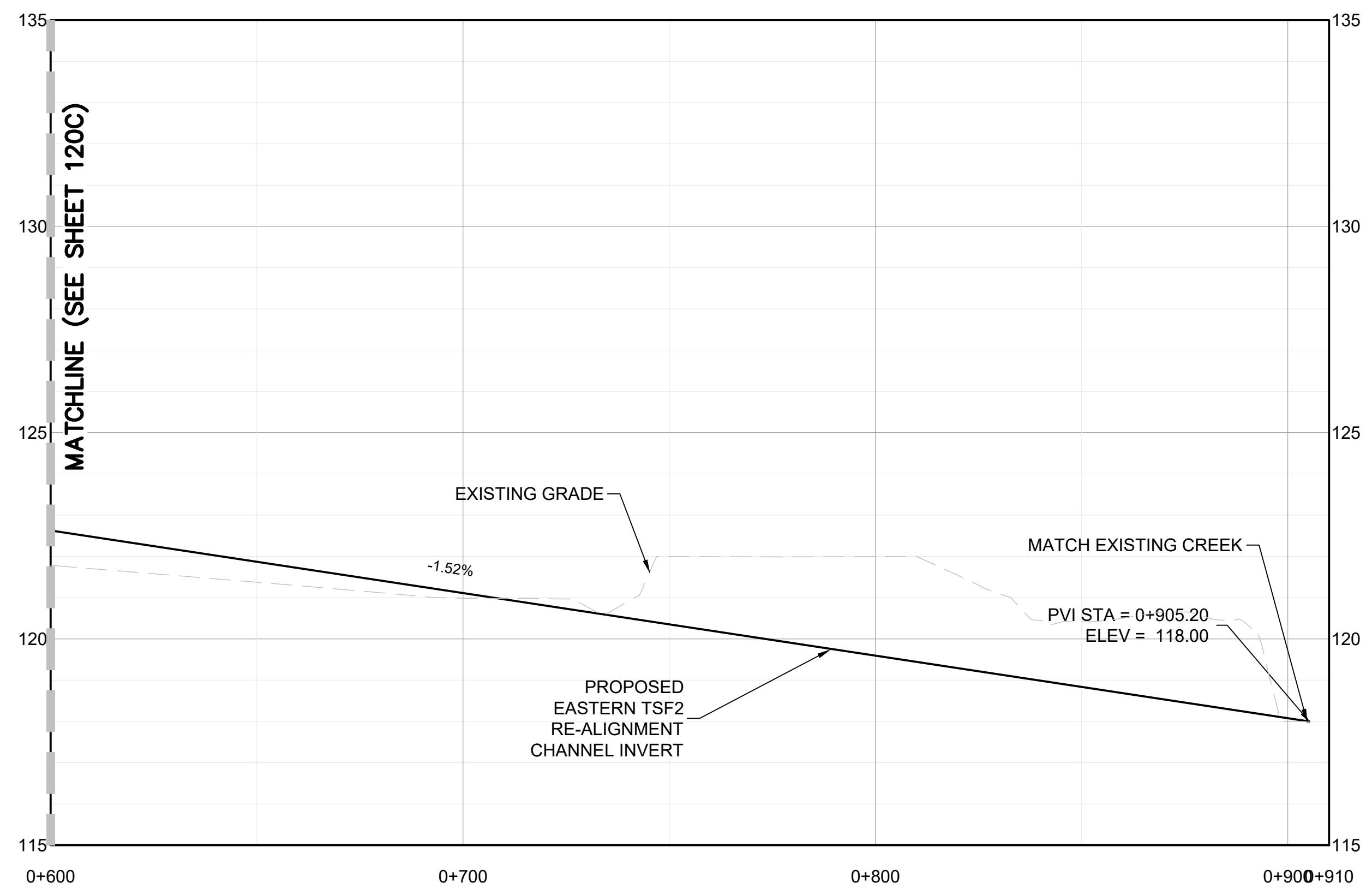
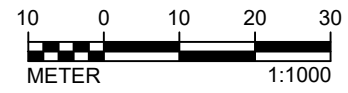
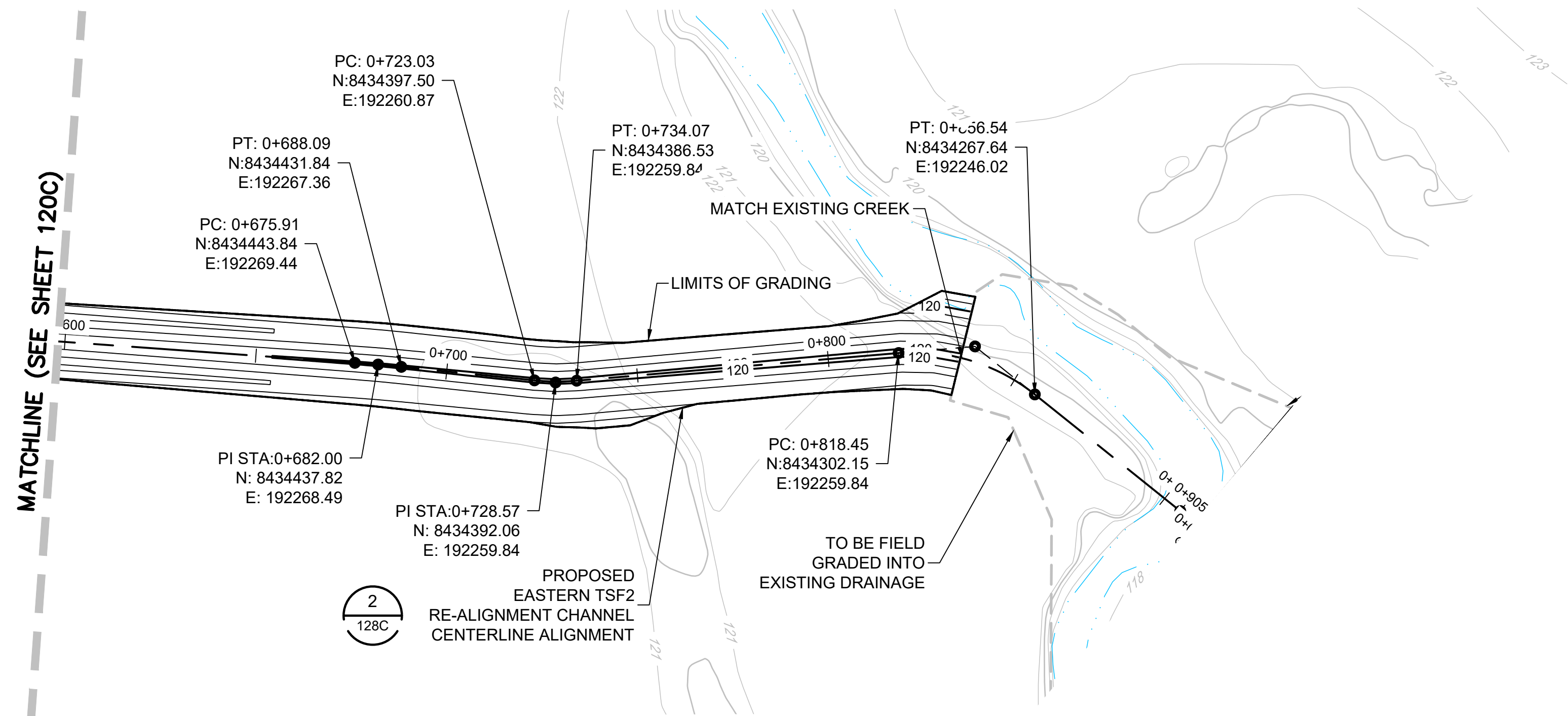
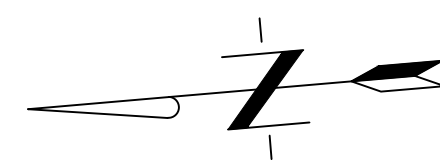
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**SURFACE WATER MANAGEMENT PLAN
PROPOSED EASTERN TSF2 RE-ALIGNMENT
CHANNEL PLAN AND PROFILE
STA 0+000 TO 0+600**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	4520-DC-120C SHEET 21 OF 34
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	



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3	PRELIMINARY DESIGN ISSUED FOR REVIEW	JC	05/12/2017
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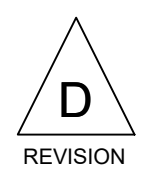
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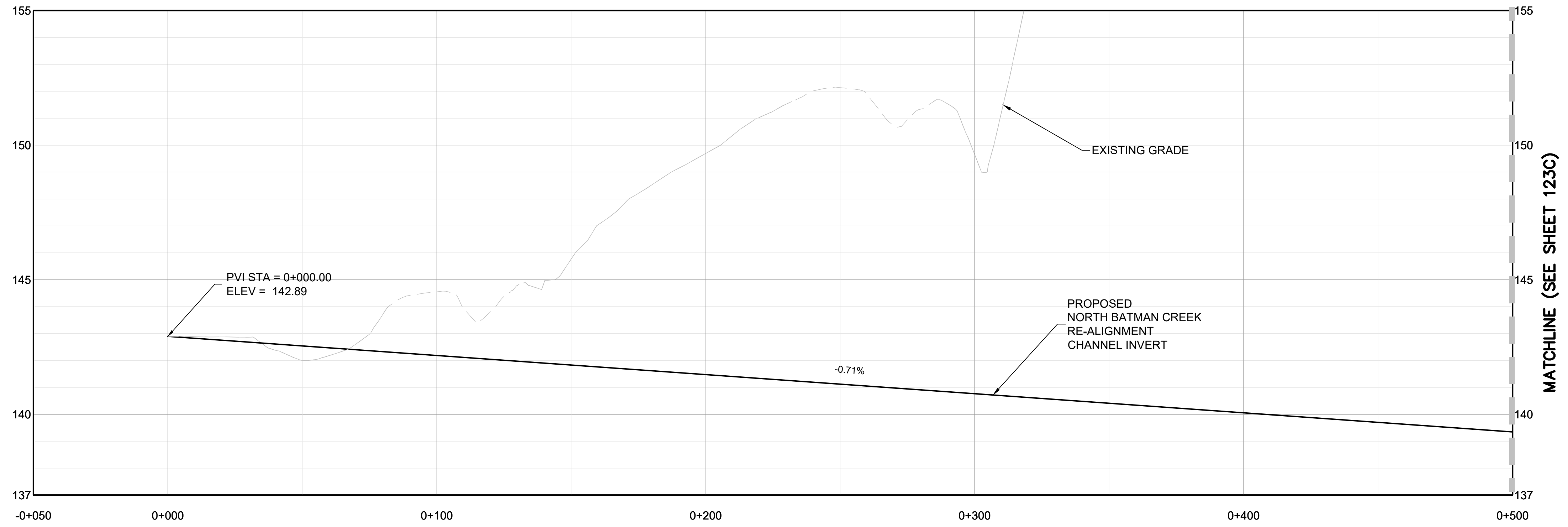
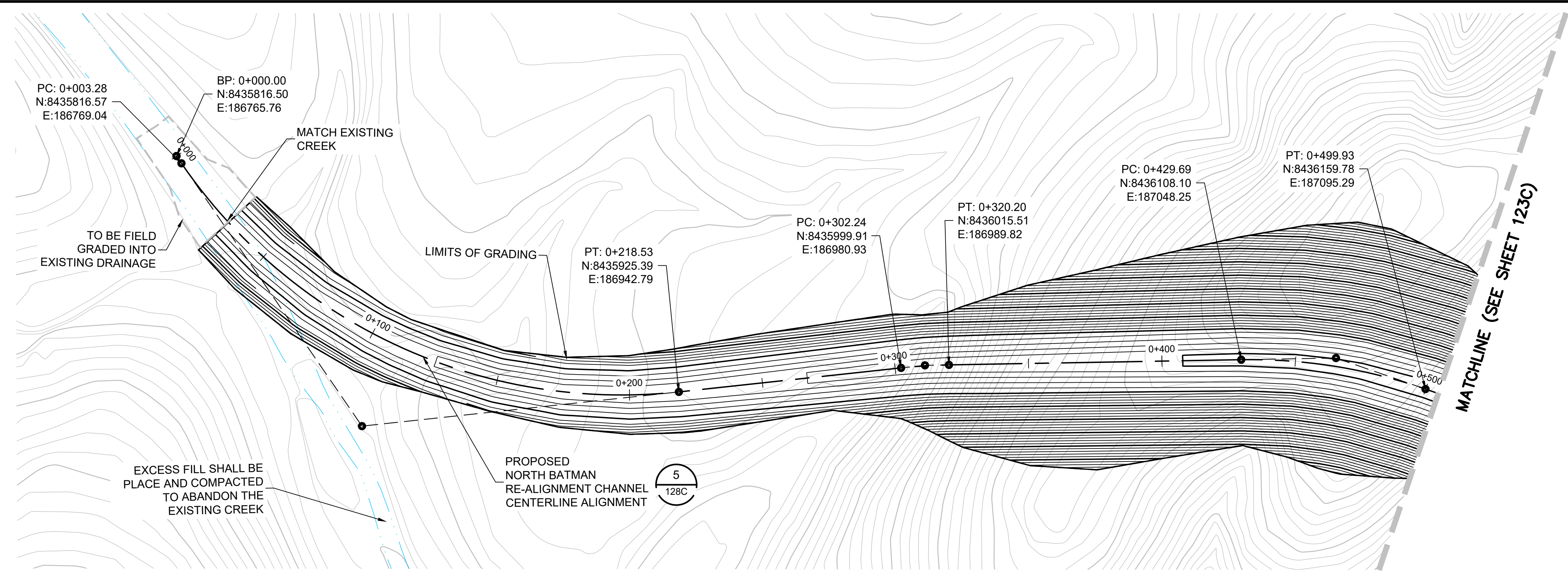
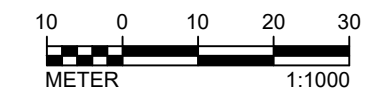
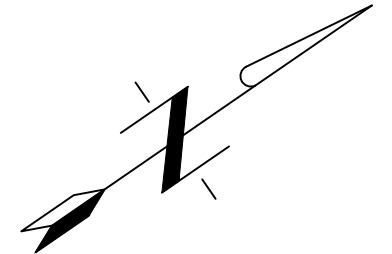
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**SURFACE WATER MANAGENT PLAN
PROPOSED EASTERN TSF2 RE-ALIGNMENT
CHANNEL PLAN AND PROFILE
STA 0+600 TO 0+905**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	4520-DC-121C SHEET 22 OF 34
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	





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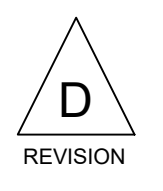


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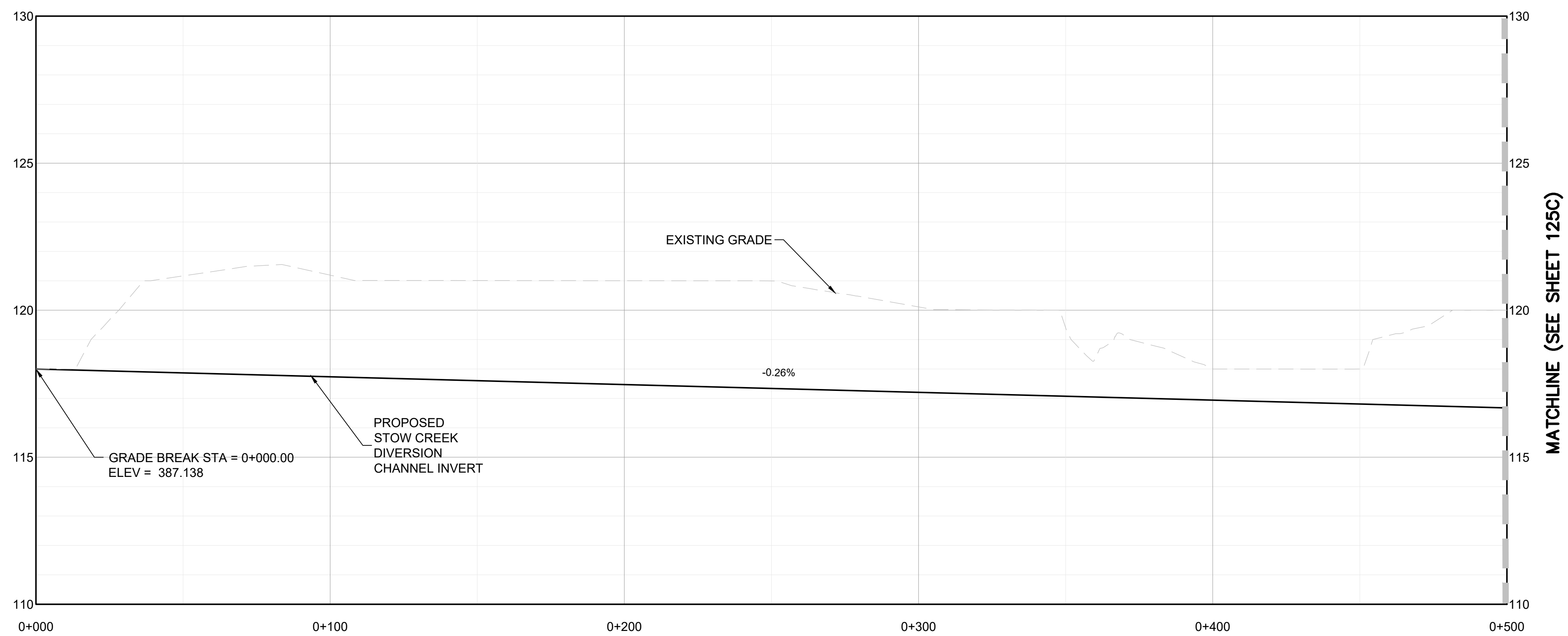
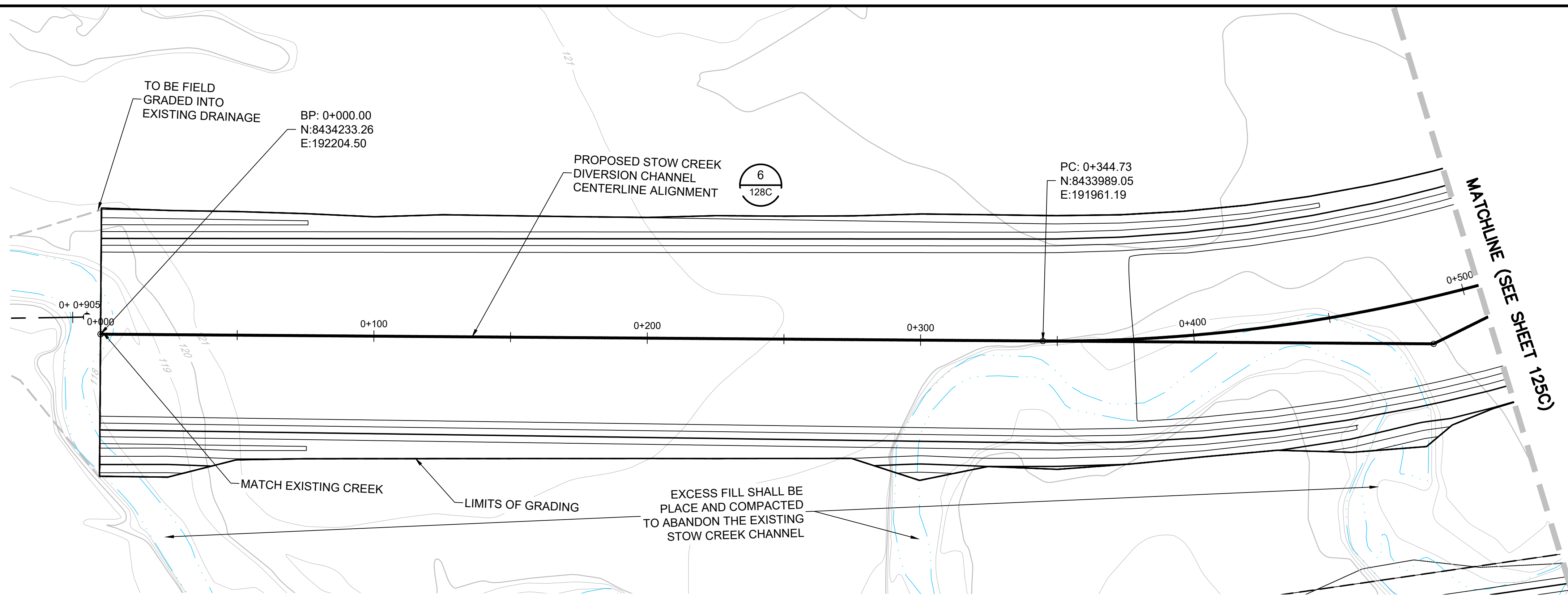
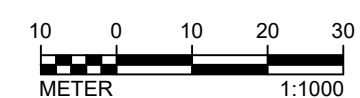
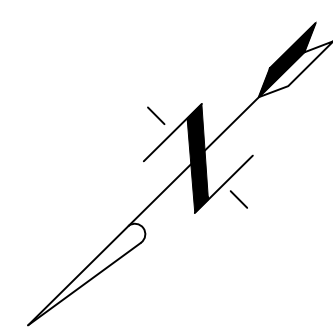
**SURFACE WATER MANAGEMENT PLAN
 PROPOSED NORTH BATMAN CREEK
 CHANNEL PLAN AND PROFILE
 STA 0+00 TO 5+00**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN
 Project no.: 200-01299-21007
 Location: NORTHERN TERRITORY, AUSTRALIA
 Date: 12/16/2021

4520-DC-122C
 SHEET 23 OF 34



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△	NOT USED	JC	05/12/2017
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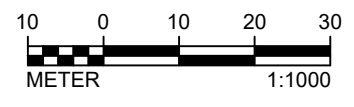
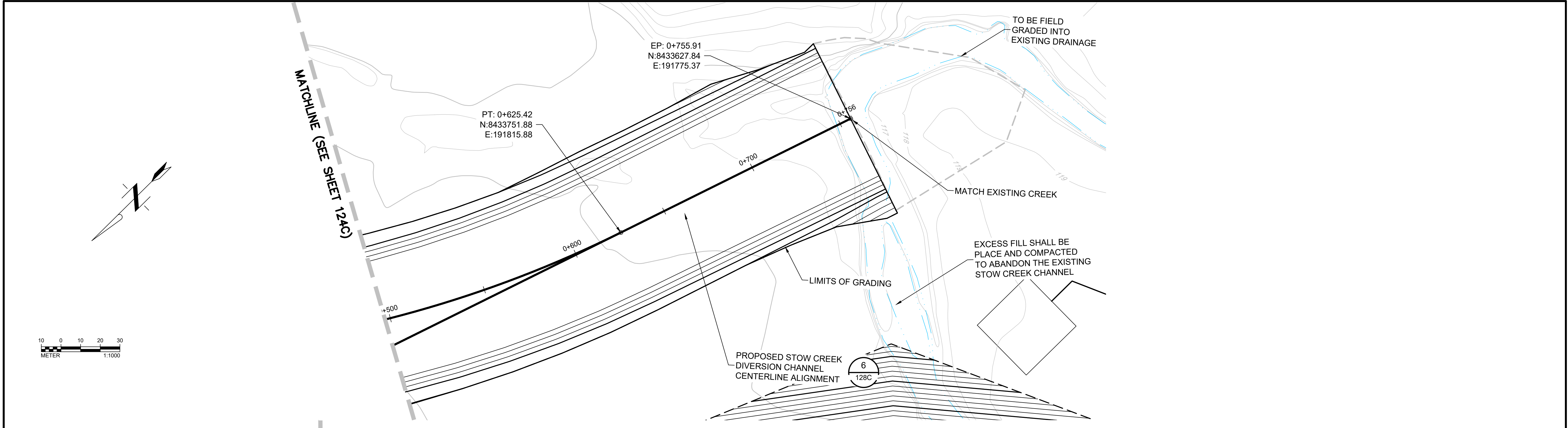
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**SURFACE WATER MANAGEMENT PLAN
PROPOSED STOW CREEK
CHANNEL PLAN AND PROFILE
STA 0+00 TO 5+00.00**

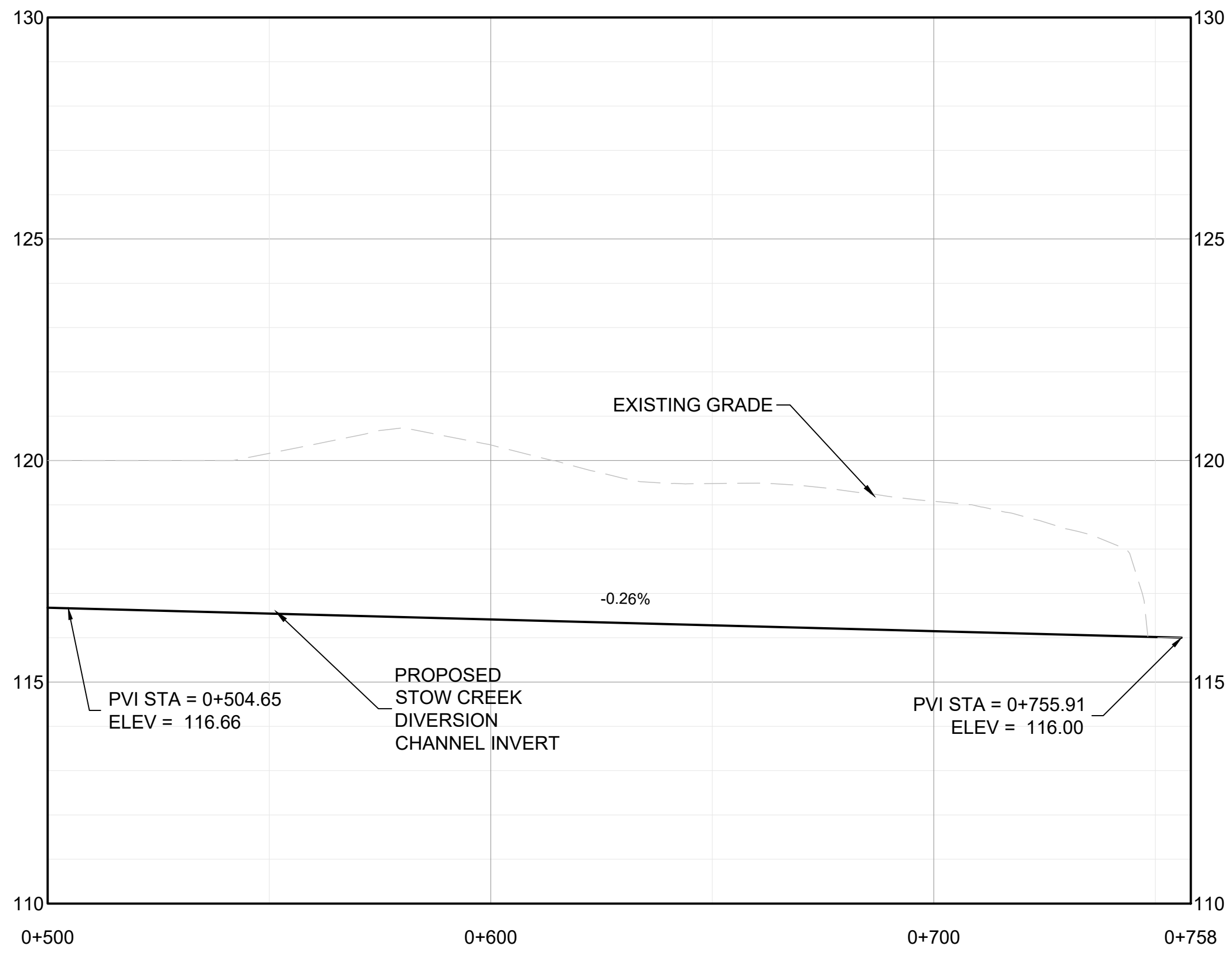
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Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	

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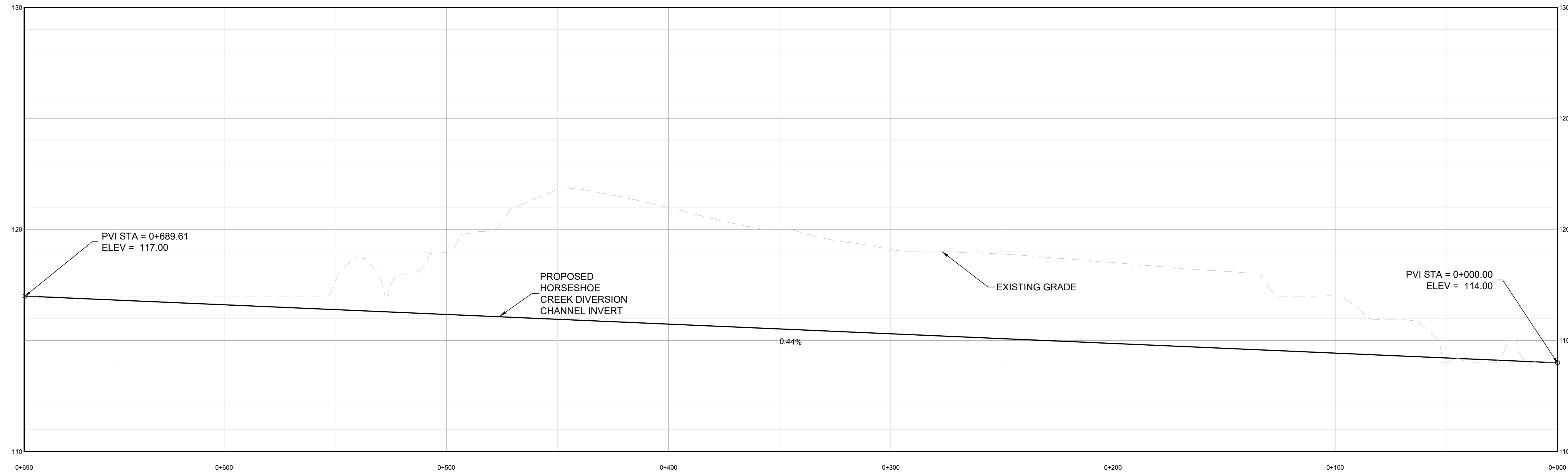
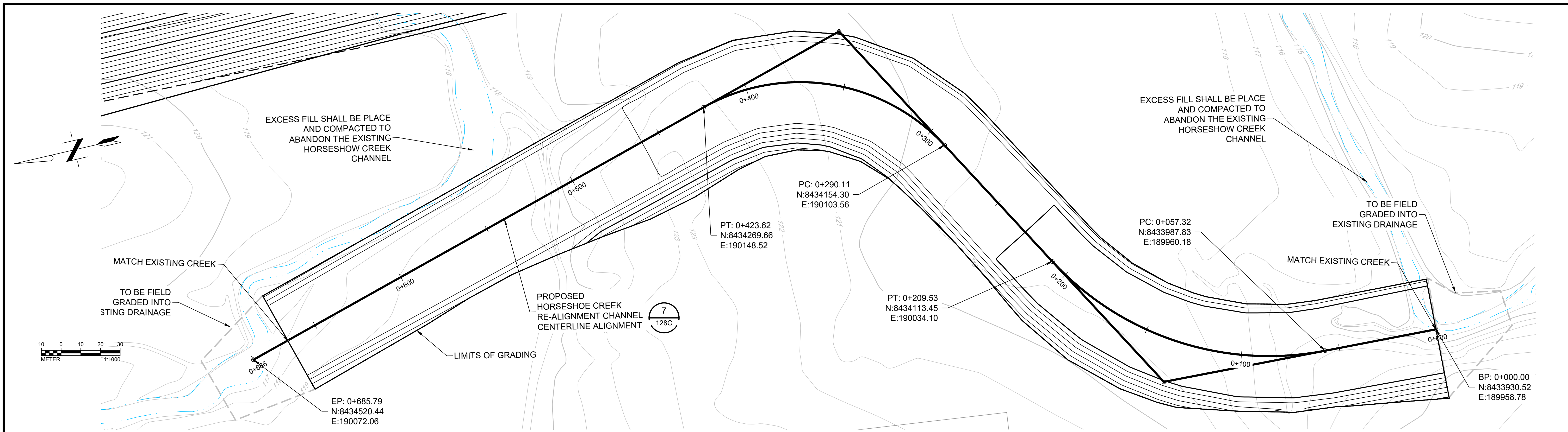
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PROPOSED STOW CREEK
CHANNEL PLAN AND PROFILE
STA 5+00 TO 7+56.00**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN
Project no.: 200-01299-21007
Location: NORTHERN TERRITORY, AUSTRALIA
Date: 12/16/2021

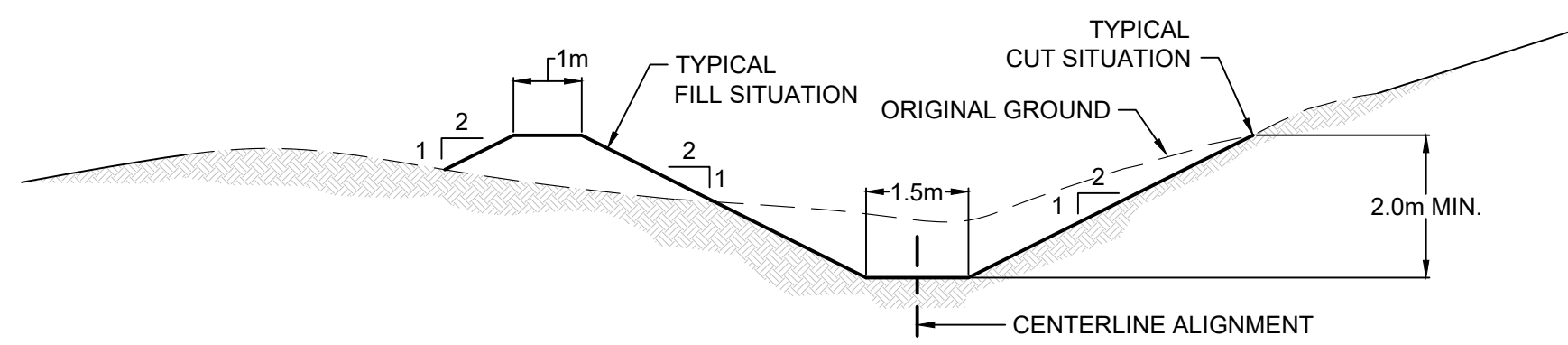
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SHEET 26 OF 34

REVISION
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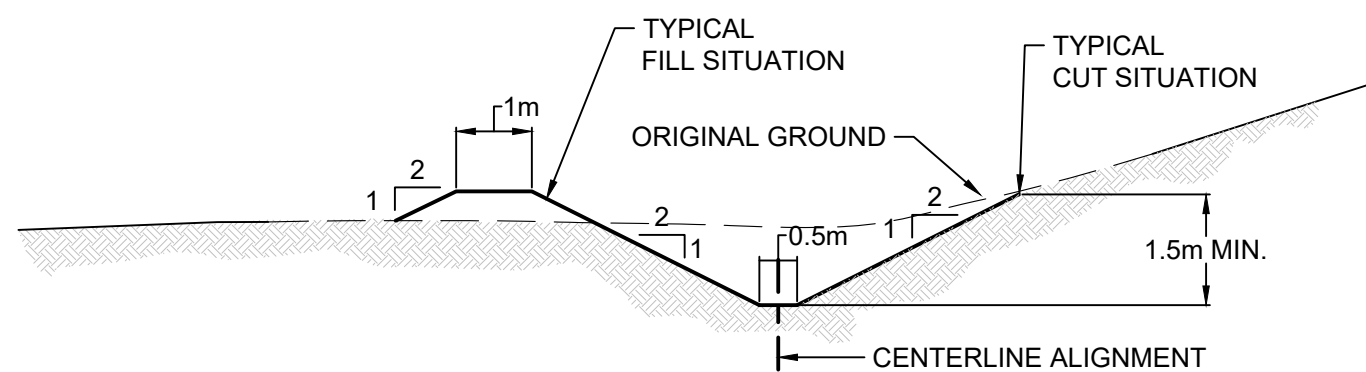
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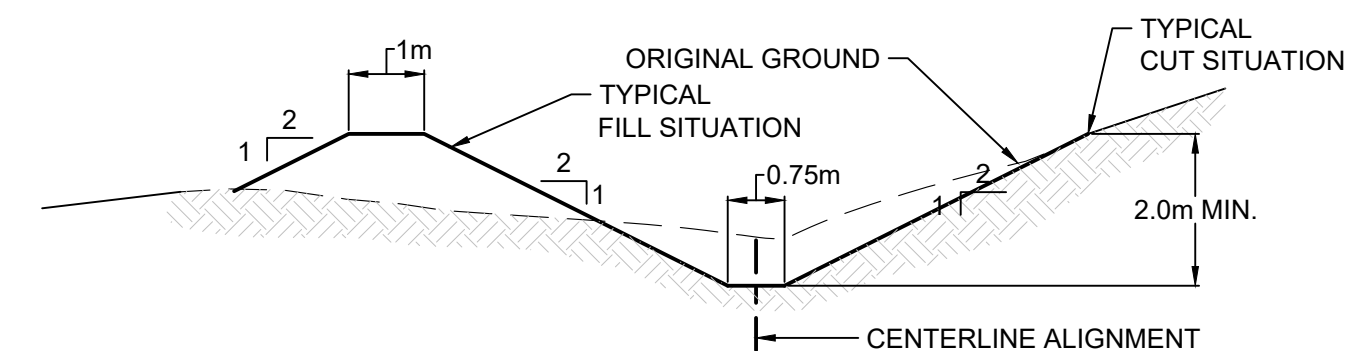
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Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021																																	
REFERENCE						4520-DC-126C SHEET 27 OF 34																												



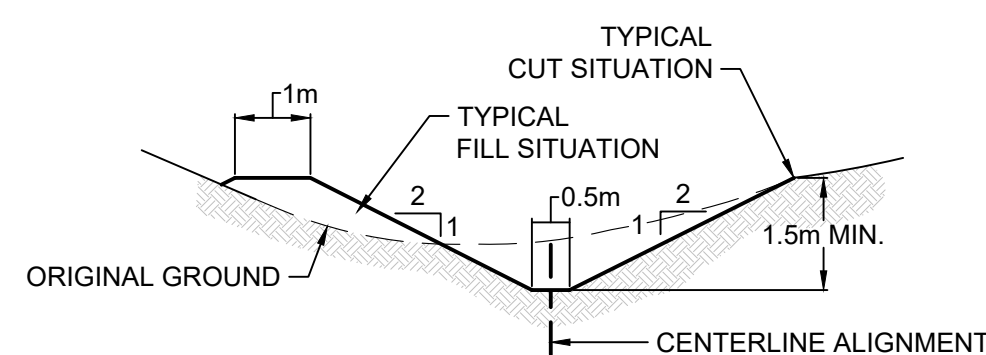
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109C-111C SCALE: N.T.S.



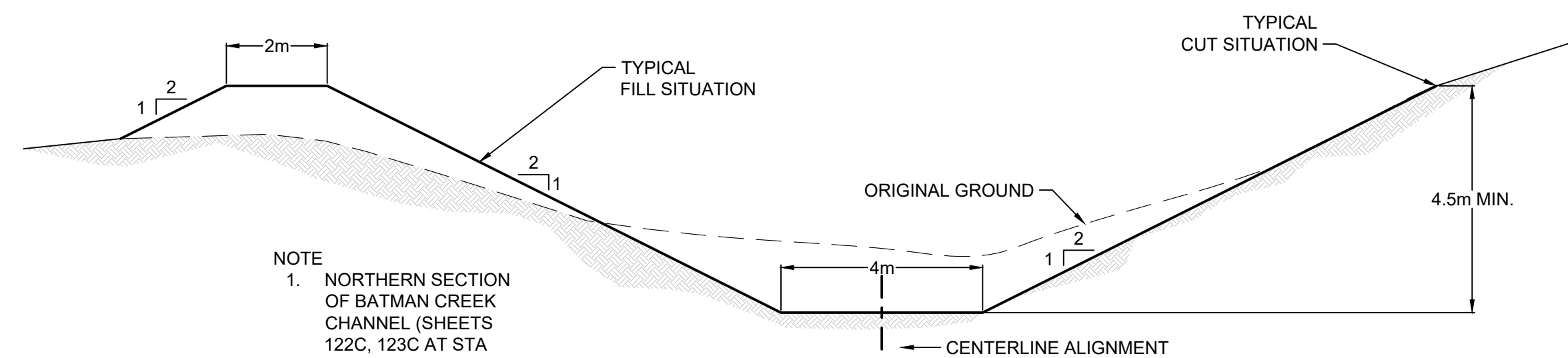
2 TYPICAL EASTERN TSF2 DRAINAGE CHANNEL
120C-121C SCALE: N.T.S.



3 TYPICAL WESTERN TSF2 DRAINAGE CHANNEL
117C-119C SCALE: N.T.S.

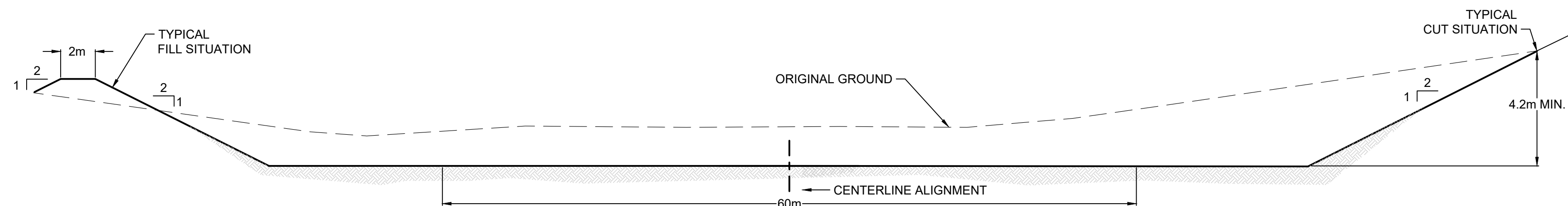


4 TYPICAL TFS1 DRAINAGE CHANNEL
112C-113C SCALE: N.T.S.

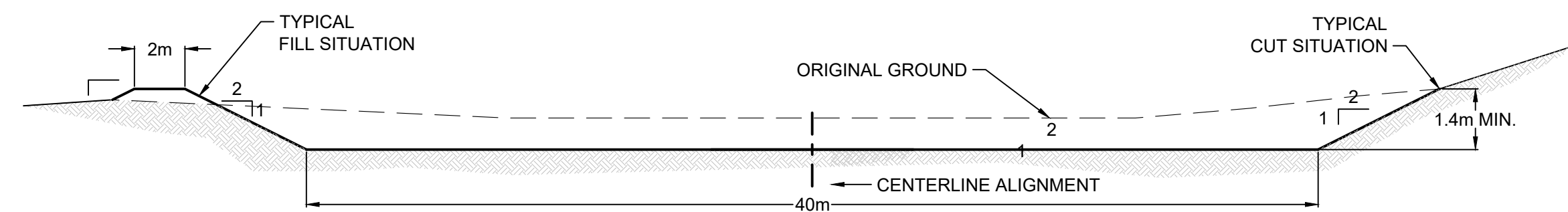


NOTE
1. NORTHERN SECTION OF BATMAN CREEK CHANNEL (SHEETS 122C, 123C AT STA 0+00 TO STA 10+64) HAS A 1H:1V CATCH SLOPE AFTER THE EXTENT OF THE DETAIL:

5 TYPICAL BATMAN CREEK DRAINAGE CHANNEL
114-6C,122-3C SCALE: N.T.S.



6 TYPICAL STOW CREEK DRAINAGE CHANNEL
124C-125C SCALE: N.T.S.

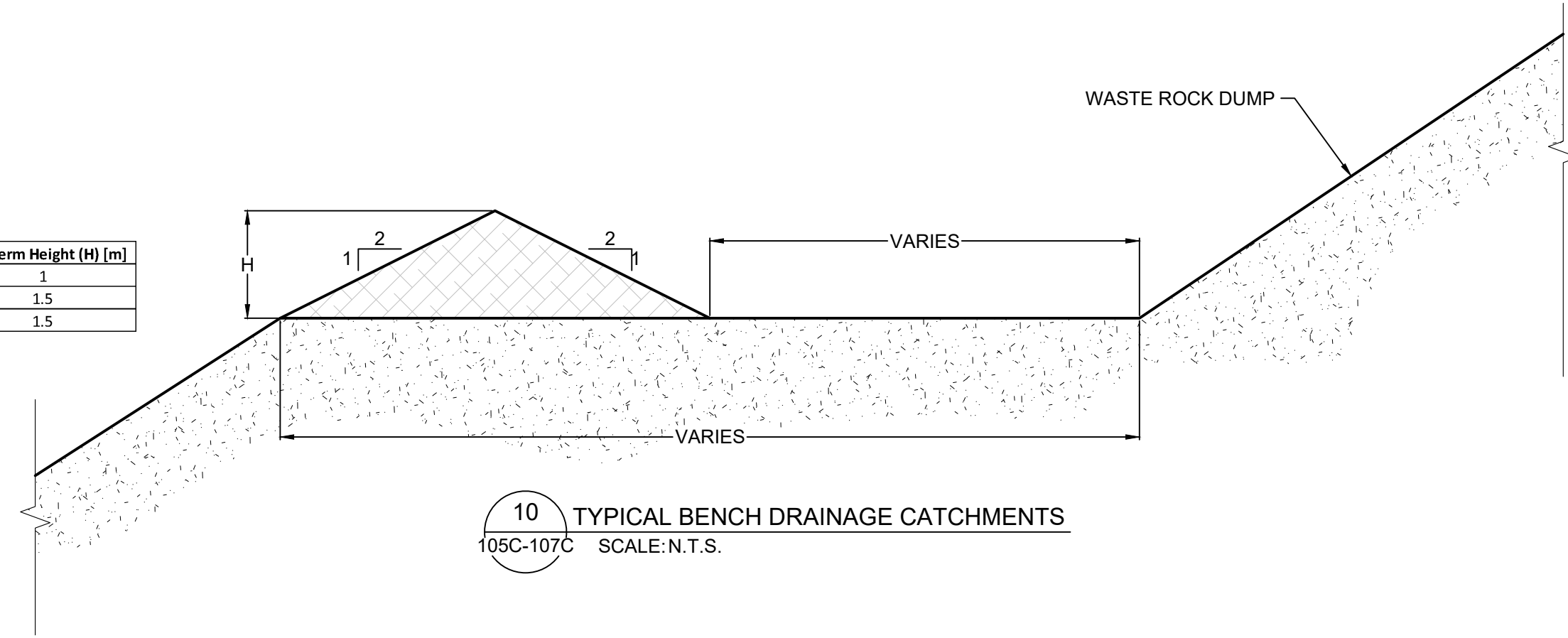


7 TYPICAL HORSESHOE CREEK DRAINAGE CHANNEL
127C SCALE: N.T.S.

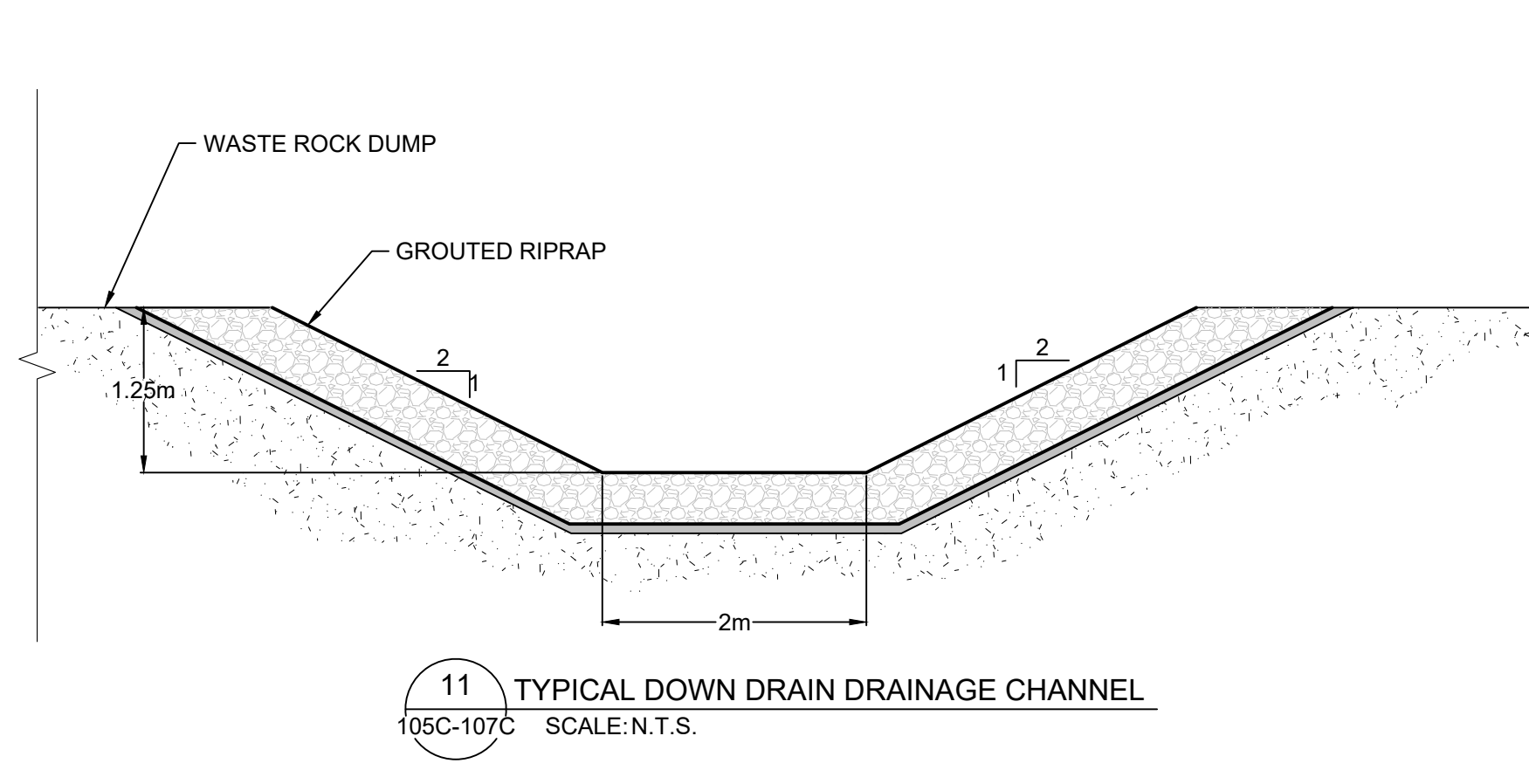
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<p>ENGINEER'S SEAL</p> <p style="text-align: center; font-weight: bold;">PRELIMINARY DRAWING</p> <p style="text-align: center;">NOT ISSUED FOR CONSTRUCTION</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">Rev</th> <th style="width: 45%;">Description</th> <th style="width: 10%;">BY</th> <th style="width: 40%;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A</td> <td>2021 FEASIBILITY STUDY</td> <td style="text-align: center;">VH</td> <td style="text-align: center;">12/16/2021</td> </tr> <tr> <td style="text-align: center;">B</td> <td>ADDRESSED 08/2017 CLIENT COMMENTS</td> <td style="text-align: center;">DF</td> <td style="text-align: center;">11/03/2017</td> </tr> <tr> <td style="text-align: center;">C</td> <td>PRELIMINARY DESIGN ISSUED FOR REVIEW</td> <td style="text-align: center;">JC</td> <td style="text-align: center;">05/12/2017</td> </tr> <tr> <td style="text-align: center;">D</td> <td>PRELIMINARY DESIGN</td> <td style="text-align: center;">CC</td> <td style="text-align: center;">04/21/2017</td> </tr> </tbody> </table>	Rev	Description	BY	Date	A	2021 FEASIBILITY STUDY	VH	12/16/2021	B	ADDRESSED 08/2017 CLIENT COMMENTS	DF	11/03/2017	C	PRELIMINARY DESIGN ISSUED FOR REVIEW	JC	05/12/2017	D	PRELIMINARY DESIGN	CC	04/21/2017	<p>Scale: AS SHOWN</p> <p>Designed by: CC Drawn by: VH Checked by: VS Approved by: VS</p> <p style="font-size: small;">THE CONTENT OF THIS DOCUMENT IS NOT INTENDED FOR THE USE OF, NOR IS IT INTENDED TO BE RELIED UPON BY ANY PERSON, FIRM OR CORPORATION OTHER THAN THE CLIENT AND TETRA TECH. TETRA TECH DENIES ANY LIABILITY WHATSOEVER TO OTHER PARTIES FOR DAMAGES OR INJURY SUFFERED BY SUCH THIRD PARTY ARISING FROM THE USE OF THIS DOCUMENT BY THEM, WITHOUT THE EXPRESSED WRITTEN AUTHORITY OF TETRA TECH AND OUR CLIENT. THIS DOCUMENT IS SUBJECT TO FURTHER RESTRICTIONS IMPOSED BY THE CONTRACT BETWEEN THE CLIENT AND TETRA TECH AND THESE PARTIES PERMISSION MUST BE SOUGHT REGARDING THIS DOCUMENT IN ALL OTHER CIRCUMSTANCES.</p>	<p>Issued for:</p> <p style="font-weight: bold; font-size: 1.2em;">VISTA GOLD</p>	<p>Issued by:</p> <p style="font-weight: bold; font-size: 1.2em;">TETRA TECH</p> <p style="font-size: small;">350 Indiana Street, Suite 500 Golden, Colorado 80401 (303) 217-5700 (303) 217-5705 fax</p>	<p style="font-weight: bold; font-size: 1.2em;">SURFACE WATER MANAGEMENT PLAN PROPOSED TYPICAL CHANNEL DETAILS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; font-size: small;">Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN</td> <td style="width: 50%; font-size: small;">Project no.: 200-01299-21007</td> </tr> <tr> <td style="font-size: small;">Location: NORTHERN TERRITORY, AUSTRALIA</td> <td style="font-size: small;">Date: 12/16/2021</td> </tr> </table> <p style="font-weight: bold; font-size: 1.2em;">4520-DC-128C</p> <p style="font-size: small;">SHEET 29 OF 34</p>	Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021
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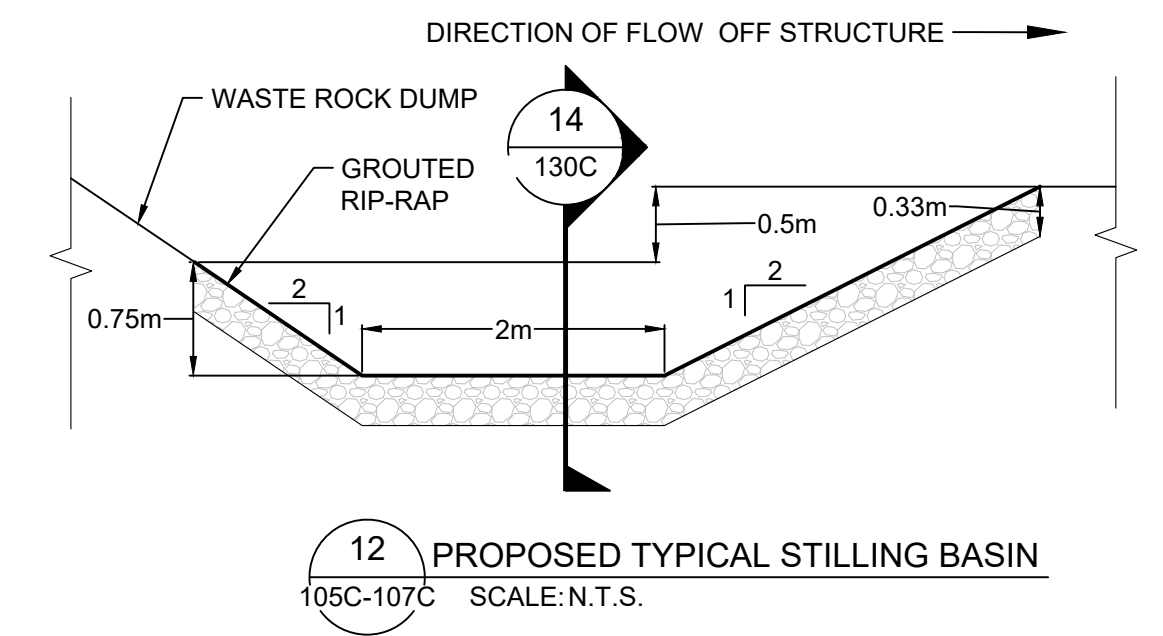
Facility	Min Berm Height (H) [m]
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TSF2	1.5
TSF1	1.5



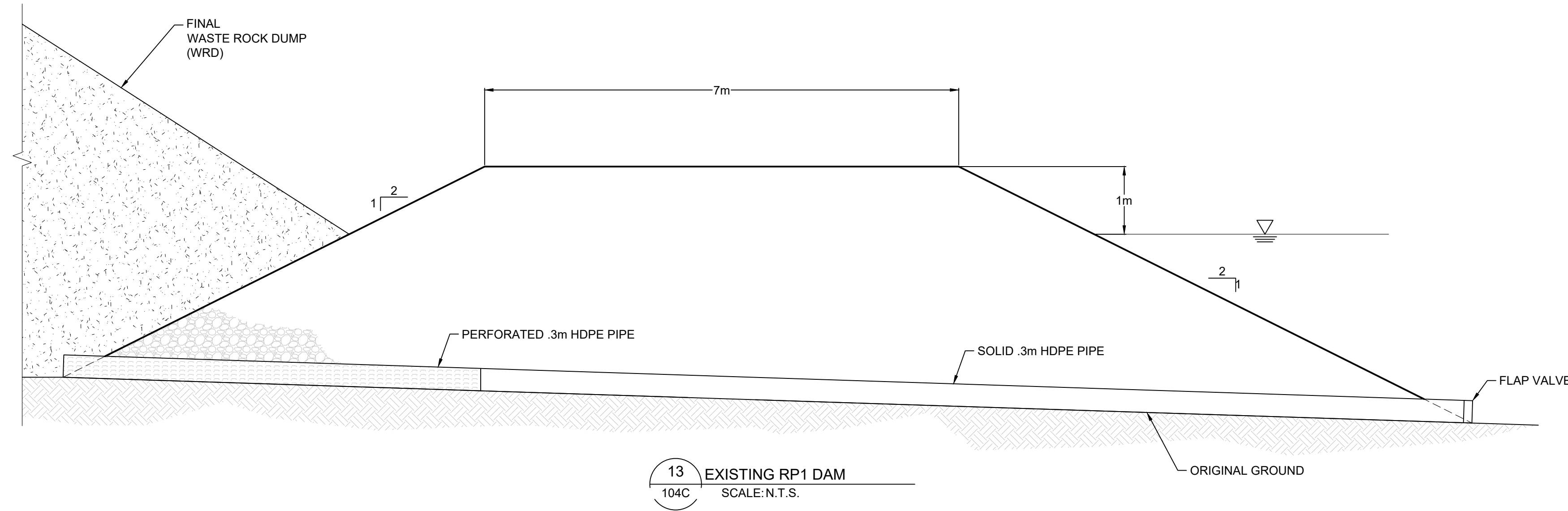
10 TYPICAL BENCH DRAINAGE CATCHMENTS
105C-107C SCALE: N.T.S.



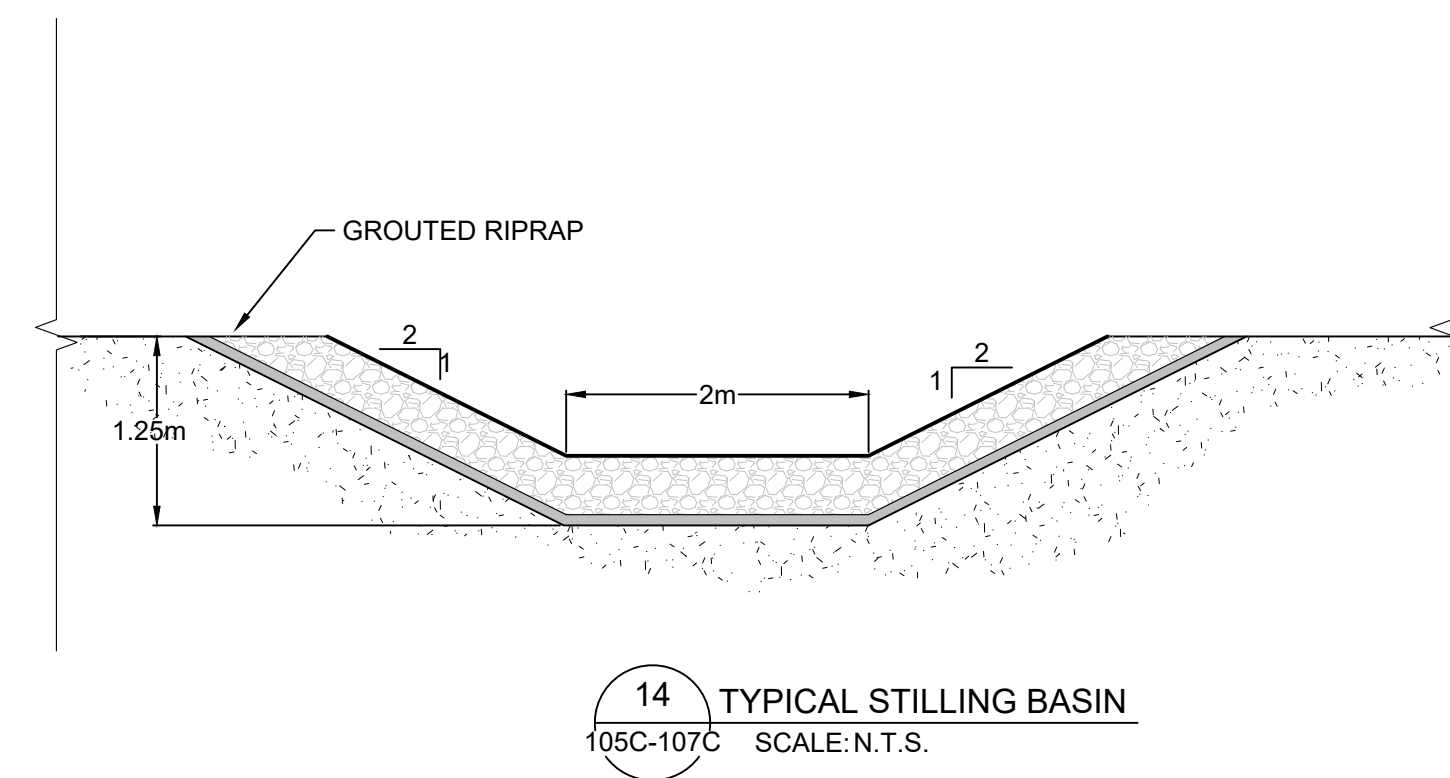
11 TYPICAL DOWN DRAIN DRAINAGE CHANNEL
105C-107C SCALE: N.T.S.



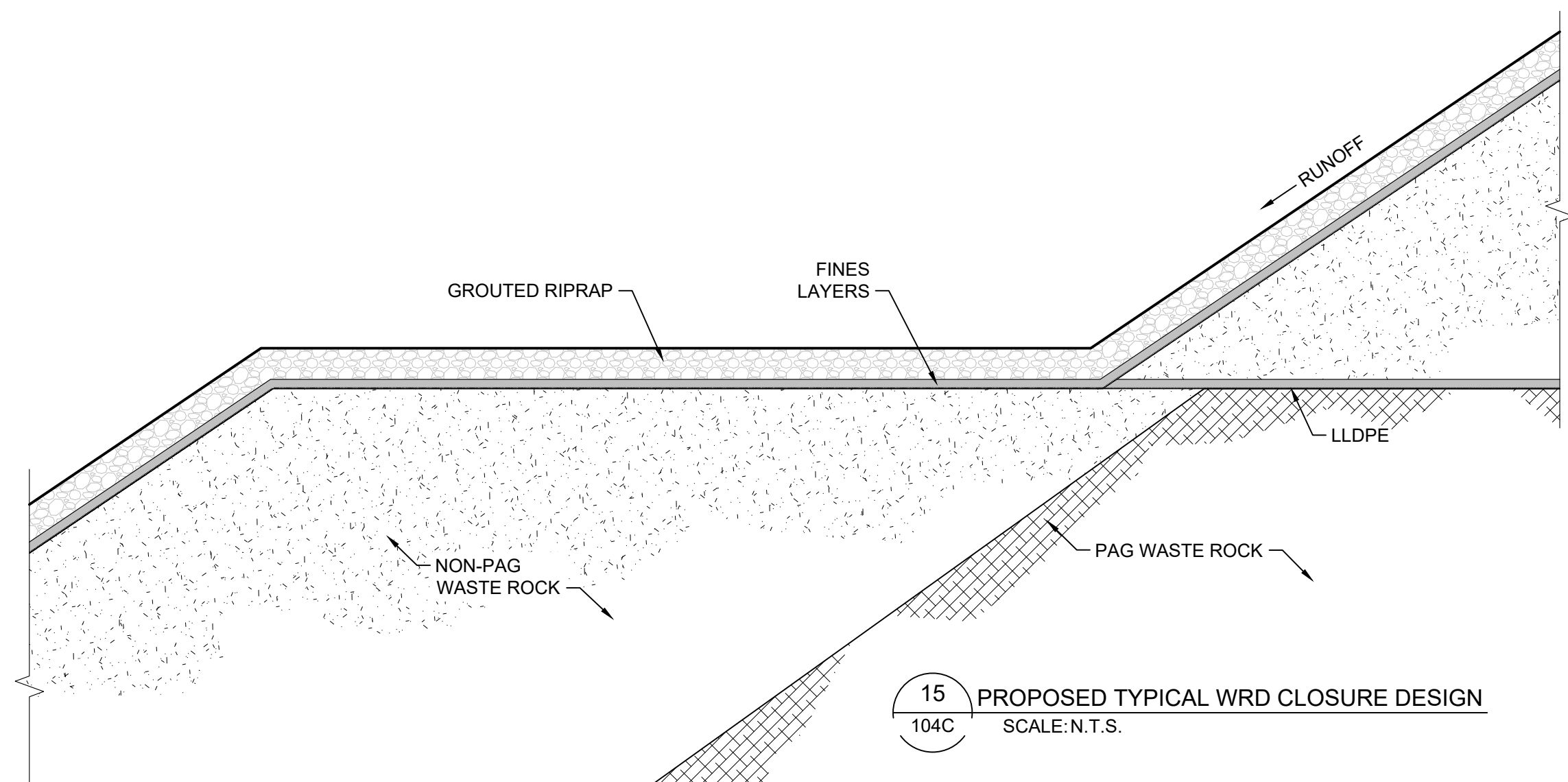
12 PROPOSED TYPICAL STILLING BASIN
105C-107C SCALE: N.T.S.



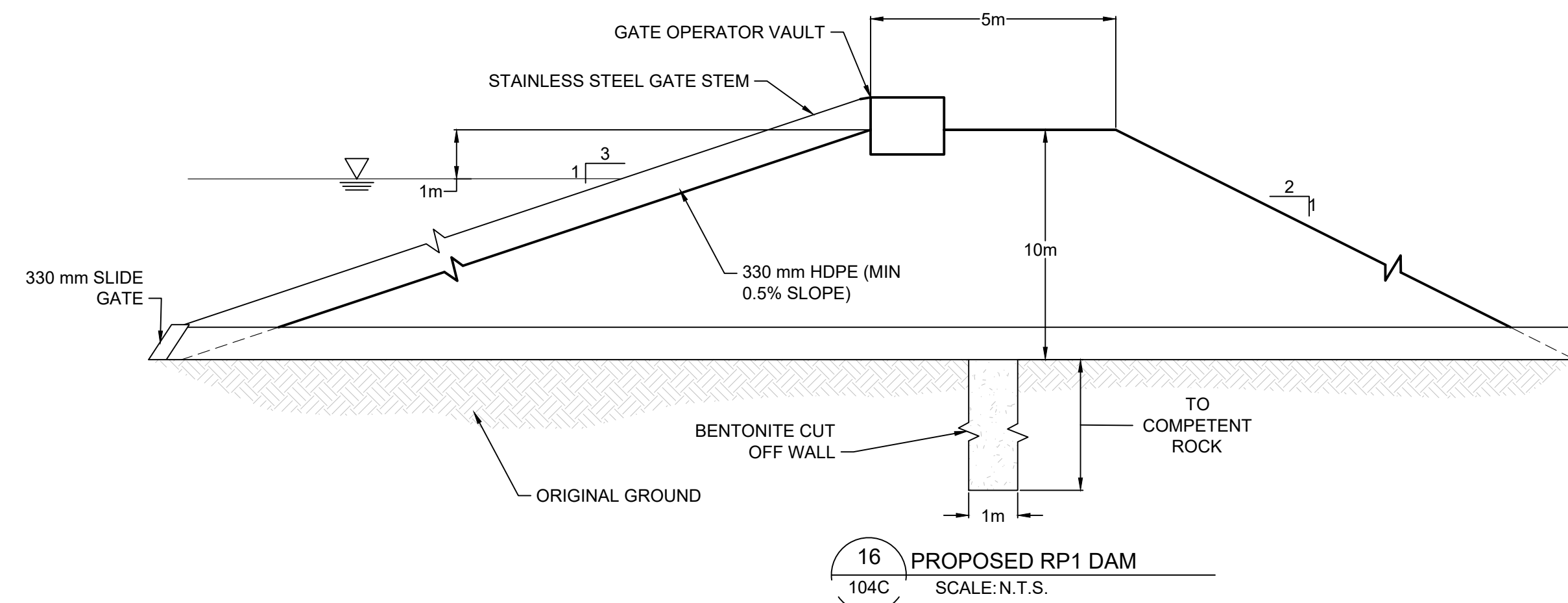
13 EXISTING RP1 DAM
104C SCALE: N.T.S.



14 TYPICAL STILLING BASIN
105C-107C SCALE: N.T.S.



15 PROPOSED TYPICAL WRD CLOSURE DESIGN
104C SCALE: N.T.S.



16 PROPOSED RP1 DAM
104C SCALE: N.T.S.

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ENGINEER'S SEAL

PRELIMINARY DRAWING

NOT ISSUED FOR CONSTRUCTION

Rev	Description	BY	Date
▲	2021 FEASIBILITY STUDY	VH	12/16/2021
▲	ADDRESSED 08/2017 CLIENT COMMENTS	DF	11/03/2017
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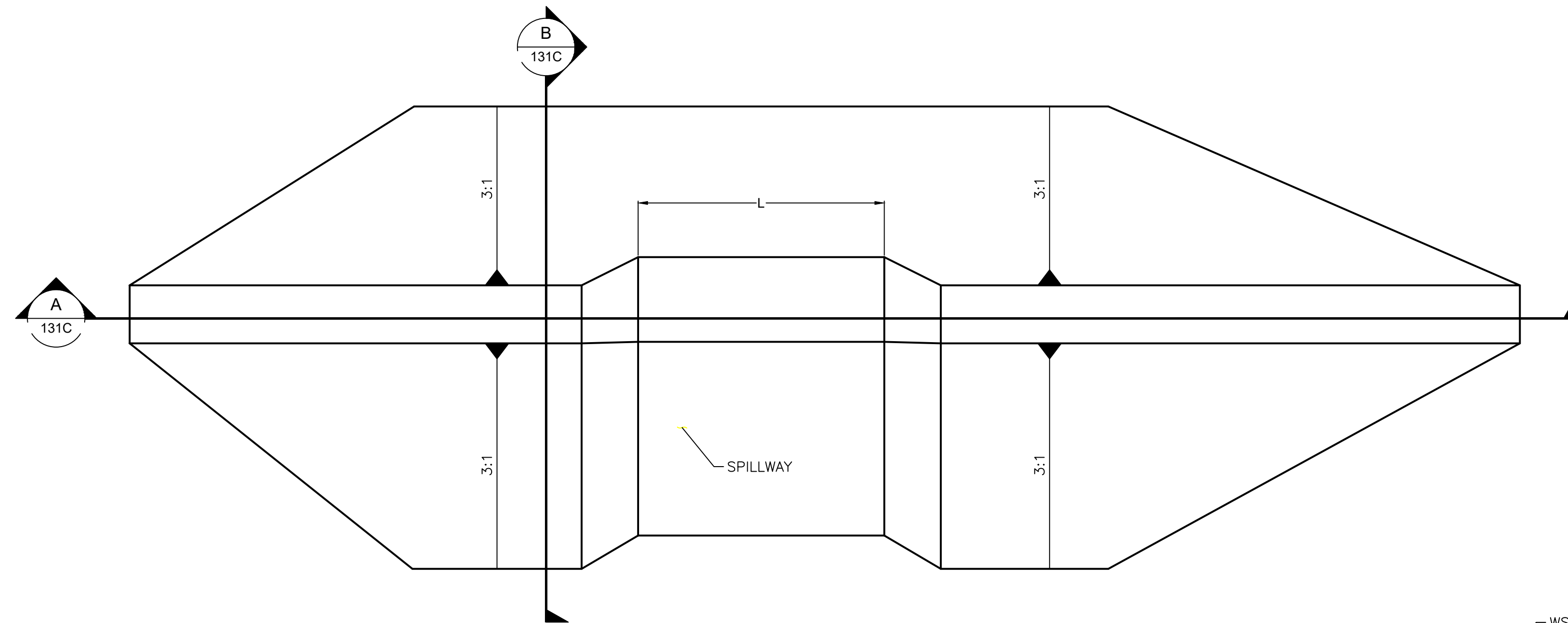
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Golden, Colorado 80401
(303) 217-5700 (303) 217-5705 fax

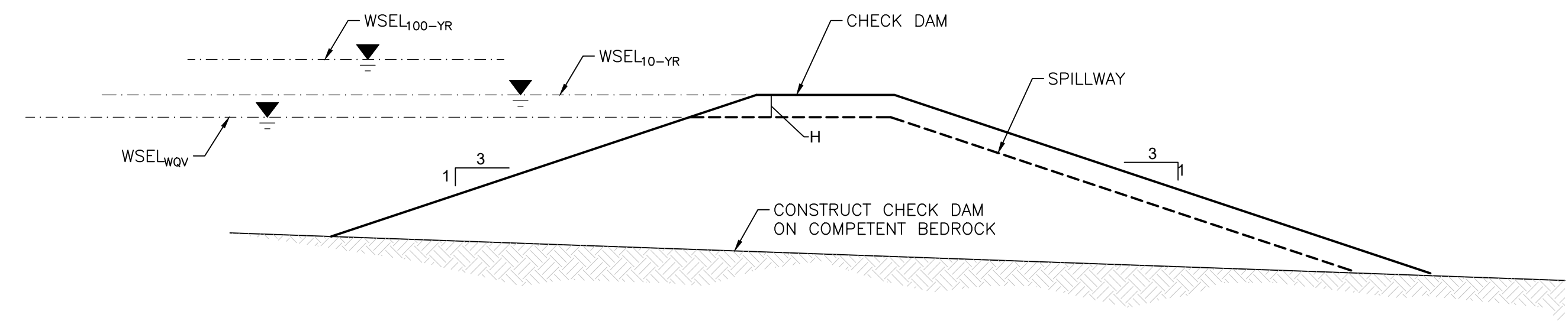
SURFACE WATER MANAGEMENT PLAN
PROPOSED DRAINAGE
AND COFFER DAM DETAILS

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	4520-DC-130C SHEET 31 OF 34
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	

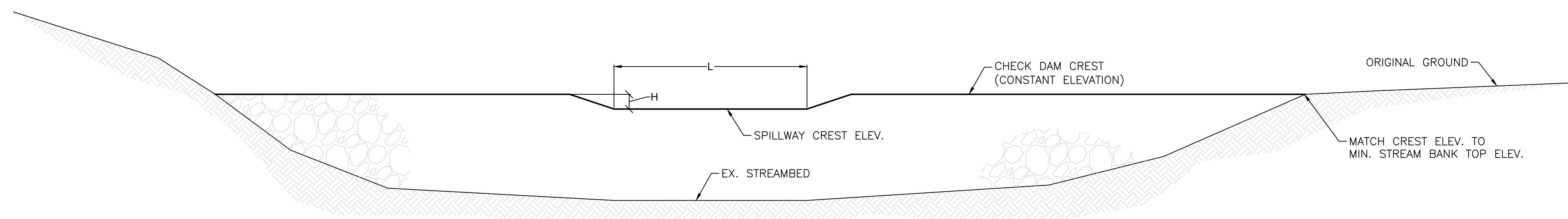
REVISION



17
104C CHECK DAM PLAN
SCALE: N.T.S.





B
131C SECTION B-B
SCALE: N.T.S.



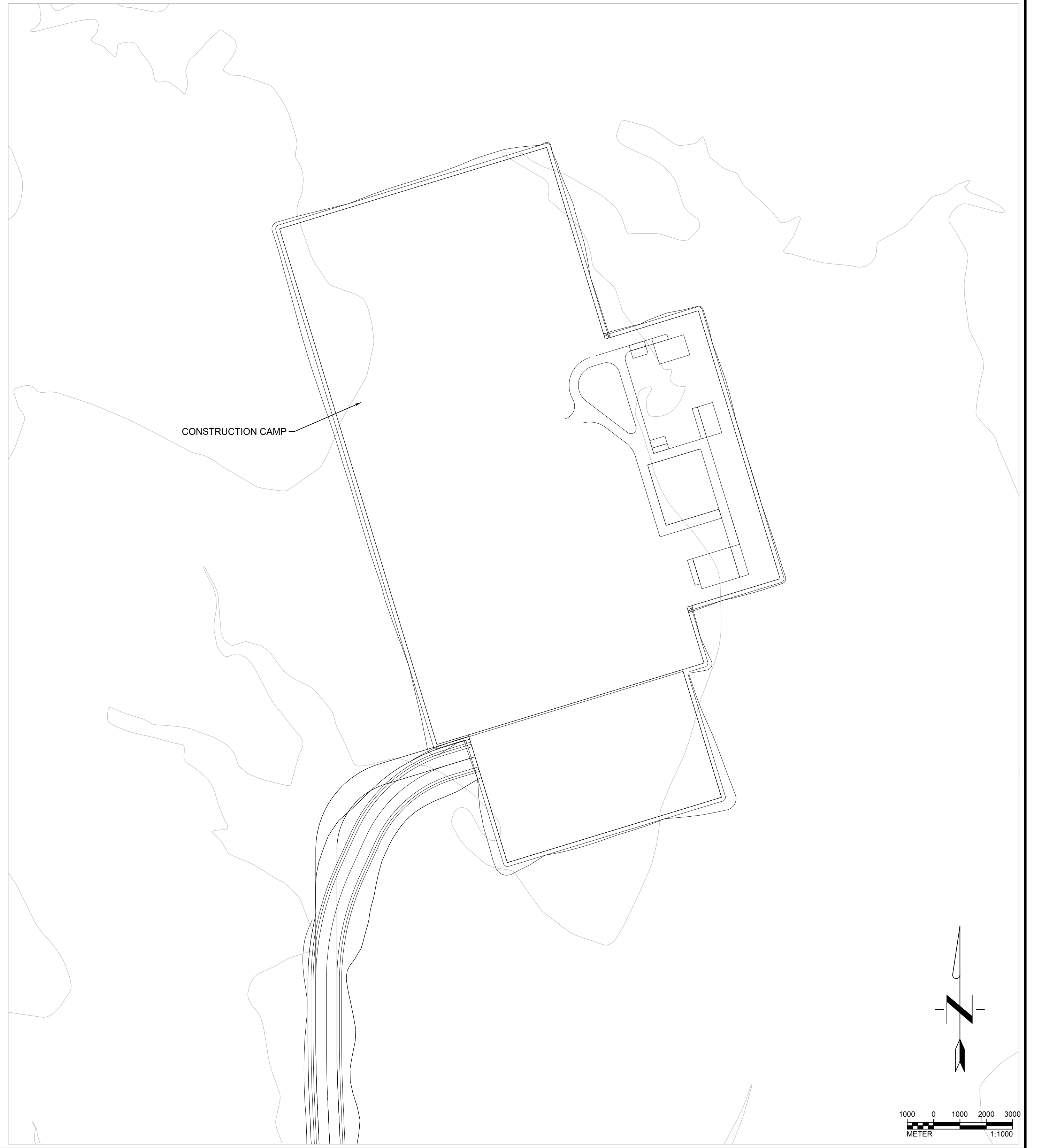
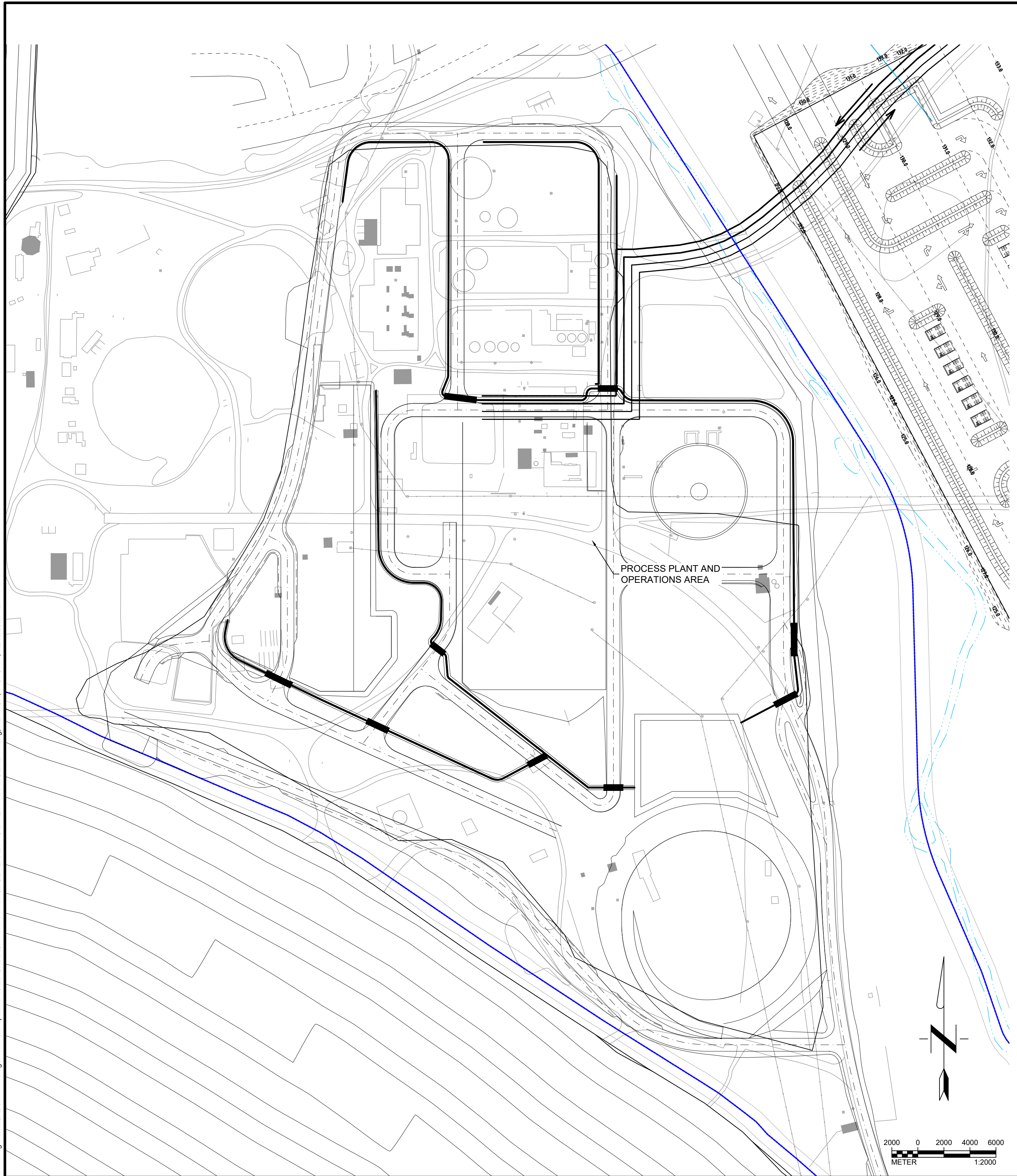
A
131C SECTION A-A
SCALE: N.T.S.

CHECK DAMS		
CHECK DAM ID	H	L
CD-1	3.25m	5m

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P:\10\250200-02\2502\100705 Site Wide Water Management\CAD\Site Management Plan update\110-2D CAD\CAD\Site Site SWM 02 GENERAL FACILITIES ARRANGEMENT.dwg - HENNOLD, VICTORIA, 12/16/2021 12:47 PM



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	REVISIONS				
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VISTA GOLD

Issued by:



TETRA TECH

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Golden, Colorado 80401
(303) 217-5700 (303) 217-5705 fax

**SURFACE WATER MANAGEMENT PLAN
PROCESS PLANT AND
OPERATIONS AREA ARRANGEMENT**

Project: 2021 MT TODD FEASIBILITY STUDY DRAINAGE DESIGN	Project no.: 200-01299-21007	4520-DC-132C
Location: NORTHERN TERRITORY, AUSTRALIA	Date: 12/16/2021	

SHEET
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