



Project:	2022-RFT-030 821131– Solid Waste Landfill Construction		
Addendum No.	02	No. of Pages:	8
Date:	2022-05-13	Doc. No.:	P7201-1591092266-153(1.0)

The following change(s) in the Request for Proposal Documents are effective immediately.
This Addendum forms part of the Contract Documents.

The purpose of this Addendum is to clarify and answer for bidder's question on tender 2022-RFT-030 issued for bid on April 19, 2022

Question 1:

Can the following material selection be utilized:

- [80mil HDPE Technical Data Sheet.pdf](#)
- [100mil HDPE Conductive Technical Data Sheet.pdf](#)
- [Mirafi 140NC.pdf](#)
- [Mirafi 160N.pdf](#)
- [Mirafi S2800.pdf](#)
- [Propex GEOTEX 1201.pdf](#)
- [NB CB207 LB.pdf \(Thread\)](#)

Response 1:

Can the following material selection be utilized:

- [80mil HDPE Technical Data Sheet.pdf](#)
 - This product is acceptable.
- [100mil HDPE Conductive Technical Data Sheet.pdf](#)
 - This product is acceptable.
- [Mirafi 140NC.pdf](#)
 - We have assumed that this product is an alternative to the Type A Geotextile – this product is not acceptable.
- [Mirafi 160N.pdf](#)
 - We have assumed that this product is an alternative to the Type A Geotextile – this product is acceptable.
- [Mirafi S2800.pdf](#)
 - We have assumed that this product is an alternative to the Type C Geotextile – this product is acceptable.
- [Propex GEOTEX 1201.pdf](#)
 - We have assumed that this product is an alternative to the Type B Geotextile – this product is acceptable.
- [NB CB207 LB.pdf \(Thread\)](#)
 - No information is provided to review.

Question 2 – refer to the highlighted drawing:

Please confirm limits of liner and geotextile for ditch as width is not clear ([Cell 1 Ditch Liner and Geotextile RFI.pdf](#))

Response 2:

Please see attached Item 1A and 1B.

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Question 3 – refer to the highlighted drawing:

Please confirm limits of liner and geotextile for ditch as width is not clear ([Leachate Lagoons Ditch Liner and Geotextile RFI.pdf](#))

Response 3:

Please see attached Item 2

Question 4 – refer to the highlighted drawing:

Please confirm liner limits as well as how it transitions or is anchored between Berm “A” and “B” ([Level Spreader RFI.pdf](#))

Response 4:

The liner limit for the level spreader would be at the end of Berm A where the liner and geotextile would be anchored 300 mm into the ground.

Question 5 – refer to the highlighted drawing:

Can roll minimum width be adjusted to accommodate a 6.7m wide roll which is supplied by the approved manufacturer Solmax? ([Spec Section 33 47 14 - 2.2.5 Roll Width RFI.pdf](#))

Response 5:

A 6.7 m roll width is acceptable.

Question 6 – refer to the highlighted drawing:

Is the Geomembrane flap to be extrusion welded on both sides? ([Temporary Stormwater Control Barrier RFI.pdf](#))

Response 6:

The stormwater barrier has been removed in Addendum 1.

Question 7 – refer to the highlighted drawing:

We would like to propose heat seaming as an approved seaming method as the 28oz geotextile will cause installation limitations utilizing the sewing machines. ([Non-Woven TE Geotextile Installation Guide \(Heat Seaming Request\).pdf](#))

Response 7:

Heat welding/seaming is an approved seaming method.

Question 8:

Can you please confirm the wall thickness required for the specified culverts?

Response 8:

Wall thickness of 2.0 mm

Question 9:

Can SKAPS be approved as a supplier for geotextile and added in specs section 31 32 21 point 2.1.2.4?

Response 9:

SKAPS is approved as a supplier.

Question 10:

Could you please provide a specific detail for the geomembrane installation when there is a ditch in excavation plus a ditch at berm toe. (Example section 8 from drawing LF-C23 and section 9 from drawing LF-C24). We have detail on drawing LF-C30 for both ditch in excavation and ditch at berm toe but no details when they are combined.

Response 10:

Please see attached Item 3A and 3B.

Question 11:

Could the date limit to have alternate and equals approved be extended to May 10th? As per tender documents in Part I – Procurements and contract requirements point 18 the “alternatives or equals will be considered up to (10) calendar days prior to the closing time”. We believe this does not allow enough time to analyse the different product options and to propose equivalents.

Response 11:

- The revised tender closing is extended until 30 May 2022.

Question 12:

Could you please provide specification for the fibre roll indicated on drawing LF-C04?

Response 12:

30 cm Coir Log by Terrafix or equal.

Question 13:

Drawing LF-C04 is indicating that the silt fence needs to be minimum 600 mm above ground. In the specs section 33 32 22 point 3.1.1 it is mentioned that “the height of a silt fence shall be minimum of 400 mm above the original ground and shall not exceed 850 mm above ground elevation”. Could you please confirm which is correct?

Response 13:

The minimum height of the silt fence above ground is 400 mm.

Question 14:

Section 33 47 14 point 1.5 implies that it is the contractor responsibility to engage an independent third party for the quality control plan for the geomembrane installation:

However, the term “independent” can be misleading considering section 01 45 00 of the specification. In section 01 45 00 it is mentioned that the independent inspection/testing agencies will be engaged by the Engineer:

Please confirm who will be responsible to engage and will be responsible for the cost of the quality control for the geomembrane installation?

Response 14:

For Section 33 47 14 Geomembranes, the Installer of the geomembrane would be considered to be an independent third party company.

Question 15:

Please supply the specification for the d: 1500 mm Lagoon Manhole. Material to be HDPE, concrete or steel? Are the manhole to be insulated? Are to install insulation under the manhole as per City of Iqaluit standard?

Response 15:

The uninsulated concrete manholes are to OPSS 701 (attached). These are not conventional City access vaults for the utilidor. Note that the detail calls for built in ladder risers – these are not required.

Question 16:

Please supply detail for the material and for the installation of the Hand Pull gate.

Response 16:

Refer to LF-C28, near section 2 for pull gate detail. Example gate attached for reference, the material is 316 SS.

Question 17:

Please supply specification for active area drain pipe, diameter of pipe, DR and connection details

Response 17:

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The 150 diameter, active area drain pipe is HDPE DR11, the inner pipe is 1.25 inch HDPE, connections to match pump, and discharge is free drain.

Question 18:

Are we to supply the removable horizontal pump? If so we need the specification and detail.

Response 18:

The Contractor is to supply the Little Giant pump as presented on Sheet LF-C32.

Question 19:

Supply detail for the mounted heat trace controller next to manhole to be powered by generator and generator connection requirement?

Response 19:

Refer to LF-C28. Heat trace system c/w controller and mounting posts are pre-packaged systems, such as that provided by Urecon. The lengths and pipes to be heat traced are indicated.

Question 20:

What is the material for the depth gages in Lagoon 1 and 2 and how are they to be fixed?

Response 20:

The depth gauges are to be 100 mm HDPE, with a continuous extrusion weld to the lagoon geomembrane.

Question 21:

Please confirm the need to have site security personnel to watch the site during the winter months? From December to April?

Response 21:

Answered in Tender Addendum 1 dated 5 May 2022

Site security personnel are only required while construction activities are happening. They would not be required during winter months.

Question 22:

There is not detail for Schedule B – provisional items, can you tell us the reference in the specifications?

Response 22:

Please refer to Addendum 1

Question 23:

There is a new access road for the Northwest Aggregate Deposit and we would like to know if we will be able to get material from this Gravel pit for this tender?

Response 23:

The Contractor shall be responsible for the extraction and processing of the material. The City will only provide the Quarry Operation Manual Plan that needs to be followed which is currently under development and will be based on typical best practices.

A copy of the Geotechnical Investigation report for the Northwest granular Deposit can be downloaded from the following [download link](#).

Question 24:

Can you please confirm that the specifications of the section 32 31 13 (Chain link fences and gates) apply to the permanent fencing to be installed around lagoon #1 and #2?

Response 24:

Section 32 31 13 refers to the lagoon fencing.

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Which section of the specifications apply to the temporary fencing around the cell #1? Can you please confirm if we are to consider the detail from LF-C30 (Landfill – cell 1 fencing C/W gates) for the temporary fence around cell #1? If so, please remove the specifications from section 32 31 26 (Wire Fences and Gates) or confirm for which portion of the work these specifications apply?

Response 25:

Section 32 31 26 Wire Fences and Gates refers to the Cell 1 fencing and the detail Cell 1 Fencing c/w gates on sheet LF-30.

Question 26:

In the case that the detail from LF-C30 (Landfill – cell 1 fencing C/W gates) is to be considered for the temporary fencing around cell #1 can you please confirm that the height is to be 1200mm? This doesn't seem to be high enough to block access to the site and our supplier is mentioning that they only have 1800mm high fence panels.

Response 26:

Sheet LF-30 Detail Landfill-Cell 1 Fencing c/w Gates. The height of the fence should be 1800.

Question 27:

Please confirm the dimensions of the gates for the permanent fence around lagoon #1 and #2 and for the temporary fence around cell #1. There are no dimensions indicated on drawings.

Response 27:

The double swing gate opening would be a minimum of 3.0 m.

Question 28:

Please confirm which detail of drawing LF-C31 needs to be considered for the gates of the permanent fencing? There is a detail indicating a sliding door and another one indicating a double swing door gate. We believe the double swing door gate would be more appropriate.

Response 28:

A double swing gate.

Question 29:

Detail from drawing LF-C31 is indicating that the fence post is to be surrounded by 2 layers of polythene with dry sand and embedded in grout. However, section 32 31 13 point 3.3.8 is asking to embed fence post in concrete. Can you please confirm which is correct? If the posts are to be embedded in concrete, please provide a detail showing the depth and diameter of concrete required.

Response 29:

The detail on Sheet LF-C31 governs.

Question 30:

The detail title "CHAIN LINKED SECURITY FENCE C/W BARB WIRE" from drawing LF-C31 is implying that there is barbed wire to be installed on the fence. However, there is no barb wire included on the detail and nor in specifications 32 31 13. Can you please confirm if barbed wire needs to be installed and if so please provide quantity and specifications?

Response 30:

Barb wire is not required.

Question 31:

Can we please have an extension to the closing date (May 17th)

Response 31:

The revised tender closing is 30 May 2022.

Question 32:

Please provide a detail and spec for the "temporary fence" & gate for cell 1.

Response 32:

Please refer Sheet LF-30 for the detail and Section 32 31 26 for the specification and responses to other questions.

Question 33:

Dwg LF-C31 indicates a sliding gate. Where is this located? What is the total size of the opening?

Response 33:

Refer to LF-C28, and Questions 15/16 in this addendum. The gates are located in the leachate lagoon berms

Question 34:

Please provide a spec for the fiber roll detailed on LF-C04.

Response 34:

Please refer to Question 12 for a response.

Question 35:

There are two (1500mm) control manholes indicated between Lagoon # 1& 2 and between Lagoon #2 & the level spreader. Can you please provide more details on these manholes? What are they made of? How are the pipes connected to the manhole? What is the hand pull gate made of? We require more information and details to understand how the pull gate system is fabricated and integrated within the manhole. The cover plate standard detail shown on LF-C31 does not show any hand pull gate slot.

Response 35:

Refer to attached details for typical MH and gate, and Question 16 of this addendum.

Question 36:

The spec calls for 6 total thermistor strings. There are 3 vertical strings but only 1 horizontal string on the drawings. LF-C19 has the Cell 1 horizontal + vertical and then LF-C26 has 2 verticals shown. Should there be 2 horizontal strings on LF-C26? If not, where are the other two strings?

Response 36:

Section 32 10 10 Thermistor, Clause 2.1.6 Change Six(6) to four (4)

Question 37:

Please provide lengths for all horizontal strings.

Response 37:

The length of the string is approximately 110 metres.

Question 38:

For all the strings, how much lead cable (m) is required from the ground surface to the data logger?

Response 38:

Assume 3 metres.

Question 39:

What is the thickness for the 900mm culvert?

Response 39:

Wall thickness of 2.0 mm

Question 40:

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Guide Rail: Please confirm what kind of posts are required steel or wood for the guide rails detailed on South Perimeter Road & West Perimeter Road. What kind of end sections are required (flared ends at every end?).

Response 40:

Steel post as per OPSD 912.104. Flared ends are required at every end.

Question 41:

Is site security only required during the day? What is the purpose of having site security for a construction site located on the outskirts of town?

Response 41:

Security is required, when the Contractor is not on site, to provide protection to materials stored on site and construction equipment.

Question 42:

Addenda #1 – Response #2 –Regarding the response received in Addendum 1, can Dillon Consulting Limited further define which parts of the drawings in which they take no responsibility for in reference to sharing the Civil 3D files. Is this solely the 3D aspect, the topographic elevations, or the drawings in their entirety? As a contractor, we want to ensure we understand the intent of this comment to ensure we know which parts of the drawing files we can rely on to prepare quantities and determine the appropriate level of effort required (ie- solely alignment? Existing ground elevations? Etc..) We want to ensure that we are using accurate design information to provide the product and solution in which appeases the owner as well as the engineer of record. Furthermore, if the contractor provides lump sum prices on potentially inaccurate topographic information, will the City pay the contractor for the additional effort and/or materials miscalculated via appendix F provided in Addenda #1? If not, please clarify the intended purpose of appendix F.

Response 42:

It's the Contractors responsibility to extract the required quantities from the 3D Civil files provided.

Question 43:

In our experience, publicly funded infrastructure projects with a large earthwork value such as lagoons, reservoirs, roads, etc. are not typically structured on a Lump Sum basis. The City's procurement bylaw suggests that for any RFT the deliverables must be clearly specified. We believe that with the information currently provided within the RFT drawings and specifications in conjunction with the schedule of items (A) payment structure does not clearly specify the deliverables required. Although we appreciate the CAD files provided, most general contractors don't have access to engineering software's such as Civil3D that can cost over \$10,000/annum. Can Dillon Consulting Limited provide quantities from their Civil 3D drawings for the installer (GC) to accurately provide competitive pricing to the client (City of Iqaluit)?

Response 43:

It's the Contractors responsibility to extract the required quantities from the 3D Civil files provided.

Question 44:

Could we please have the enclosed PROTEC temporary fence approved as an alternative product to the "LANDFILL-CELL 1 FENCING C/W GATES" from drawing LF-C30. (PROTEC TEMPORARY FENCE)

Response 44:

The fence is acceptable, the rebar anchors are required.

Question 45:

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Is the new road to the Northwest aggregate deposit finished and is there a direct access to the new deposit ? Also who will be responsible for the maintenance of that road and snow piling during the work and from where to where ?

Response 45:

This question will be answered via a separate Tender Addendum later next week.

Question 46:

When is the expected date that the Nunavut water board will emit the permit ?

Response 46:

This question will be answered via a separate Tender Addendum later next week.

Question 47:

The geomembrane manufacturers are mentioning that the standard warranty for installation and workmanship for geomembrane is one (1) year. The specs section 33 47 14 point 3.13 is mentioning a 5-year warranty that isn't representative of the industry standards: "The Contractor shall guarantee the HDPE membrane against defects for the period of five (5) years commencing with the date of final acceptance". Could you please revise the warranty period for one (1) year?

Response 47:

Warranty shall remain for 5 years.

Question 48:

It is mentioned in specs section 33 47 14 point 2.2.5 that the rolls of geomembrane are to be minimum 8.0 meters in width. Could you please confirm if 6.8 meters' width rolls are acceptable? Manufacturers are mentioning that 6,8 meters is more common.

Response 48:

6.8 m is acceptable.

Question 49:

There are no specs in the RFT document regarding the sparking testing of the 100 mil conductive geomembrane? The specs section 33 47 14 is mentioning the test seams, vacuum testing, air pressure testing and destructive testing but there is no mention of spark testing. Are we to consider that the Owner will be responsible for this testing?

Response 49:

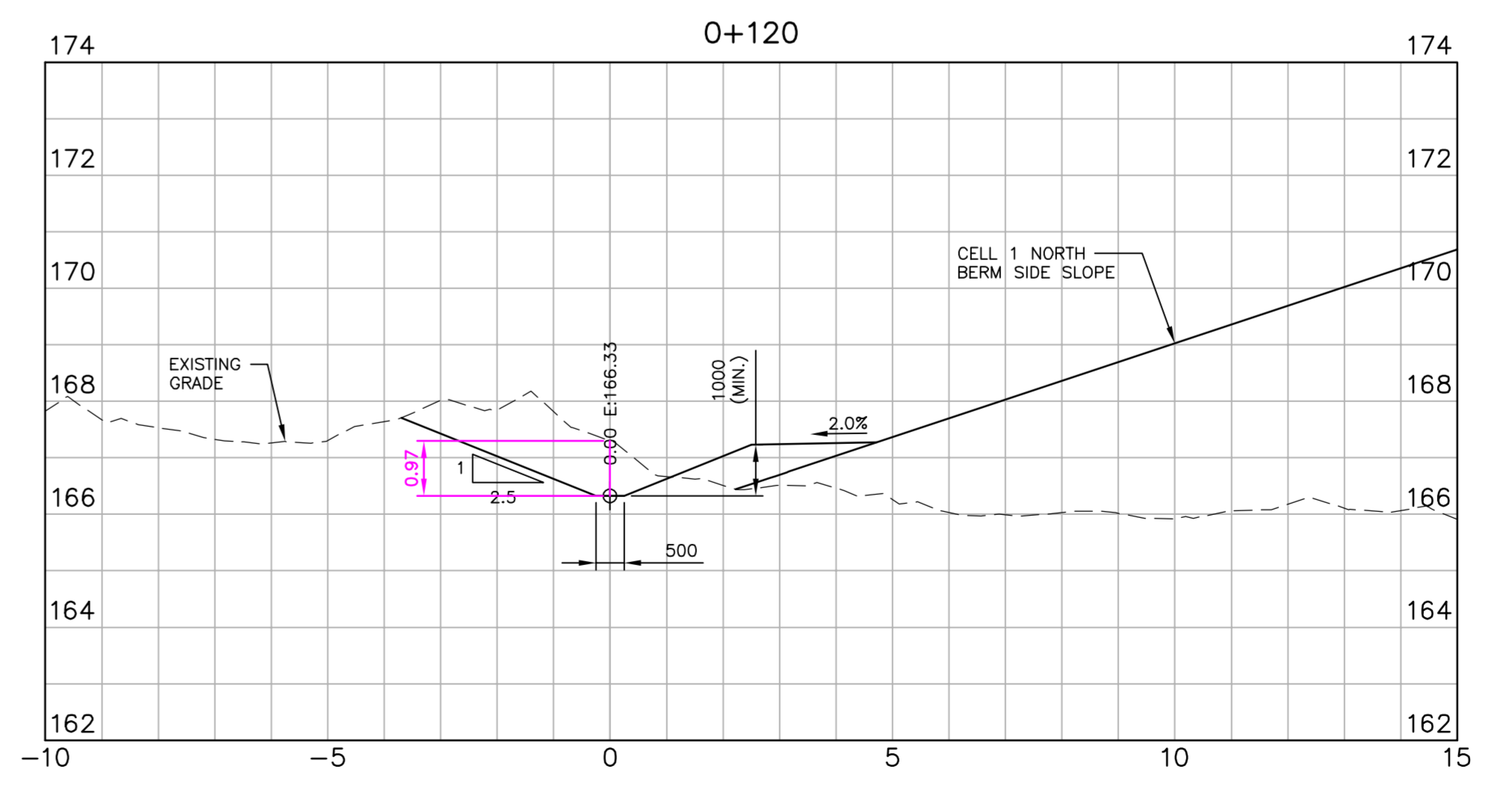
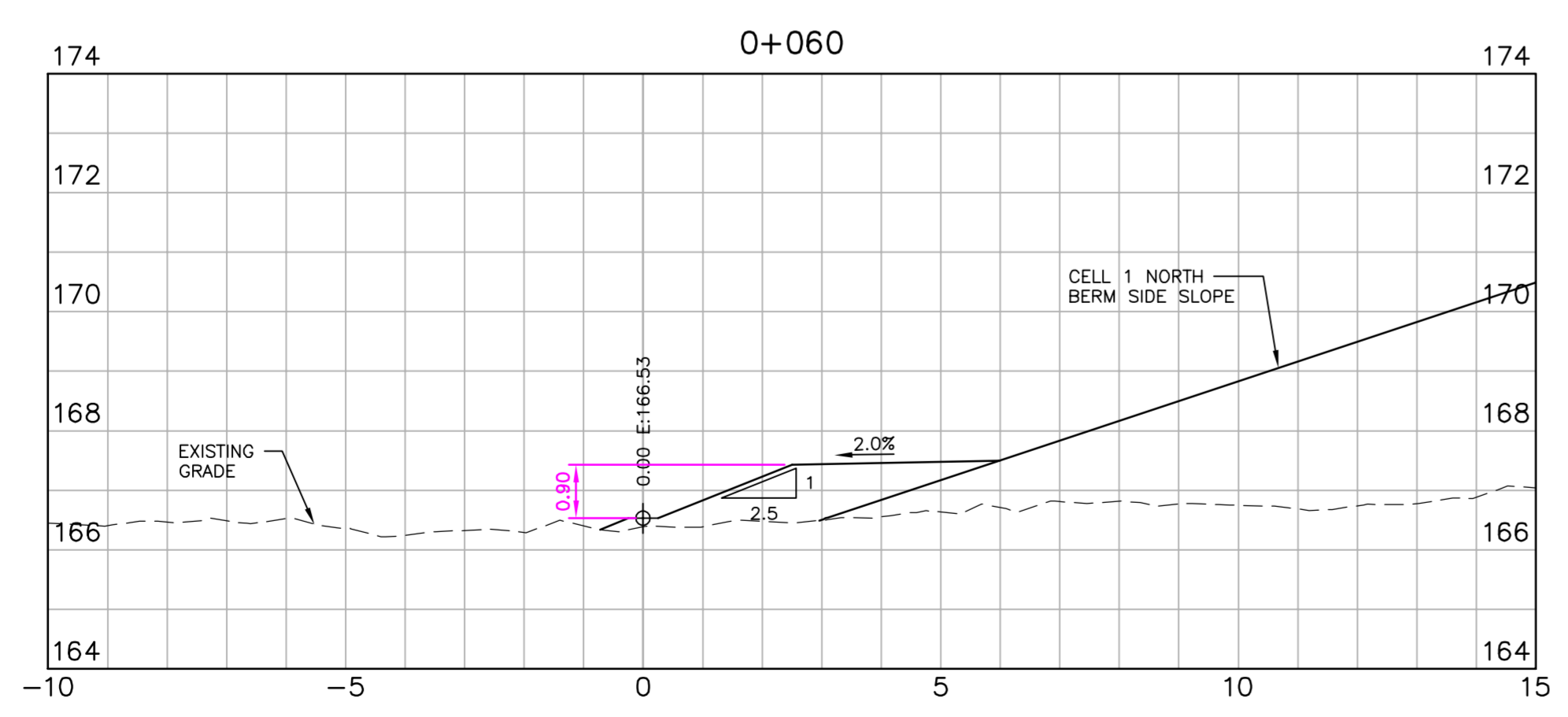
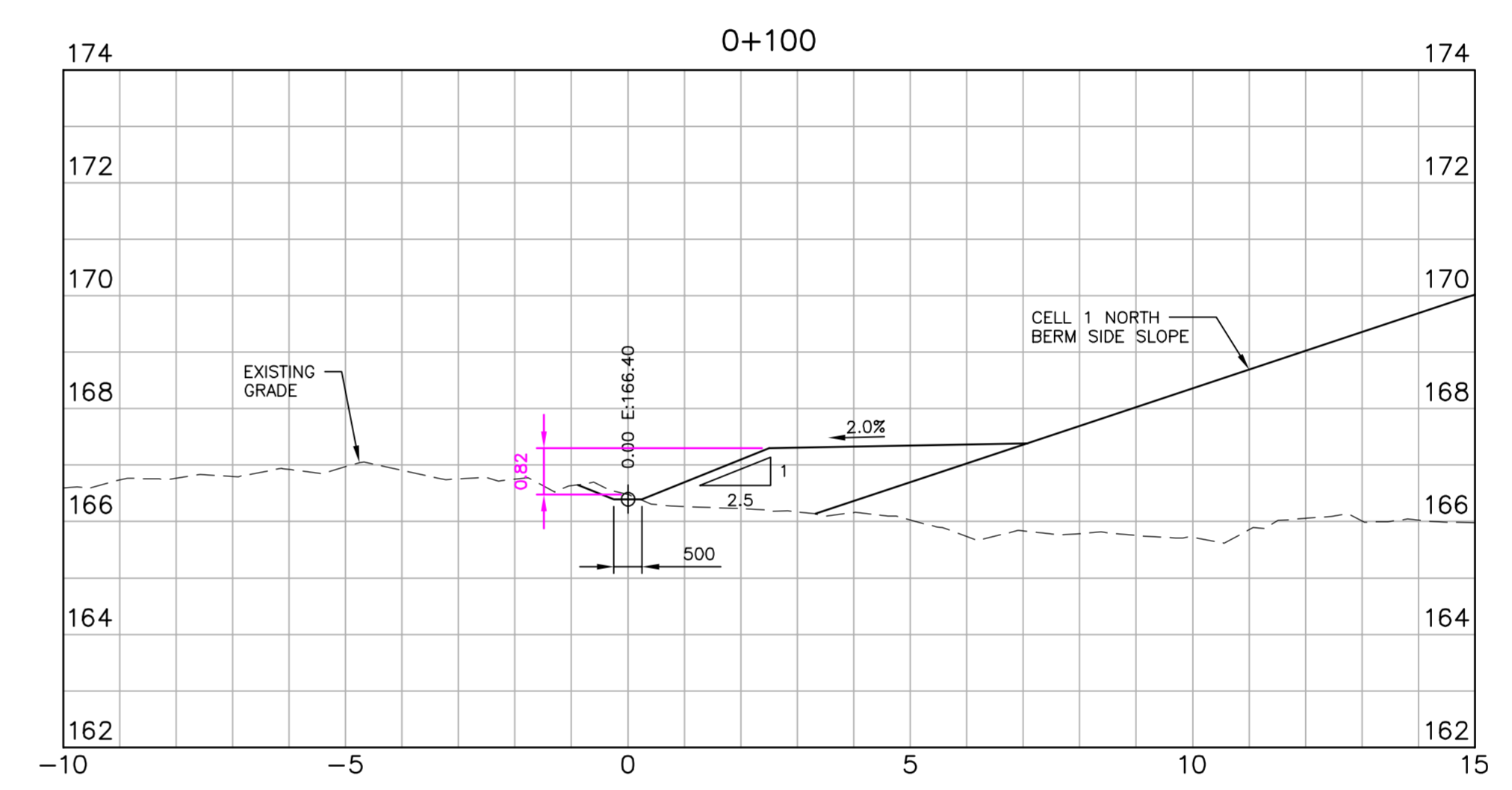
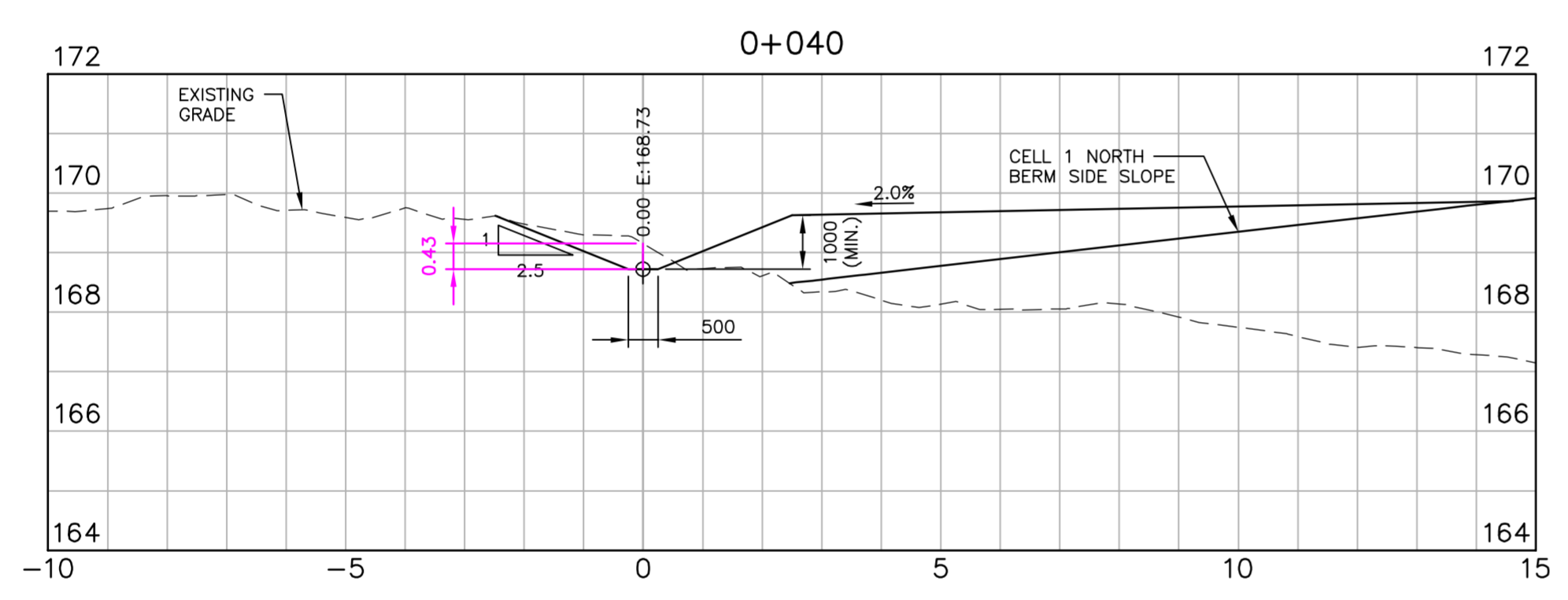
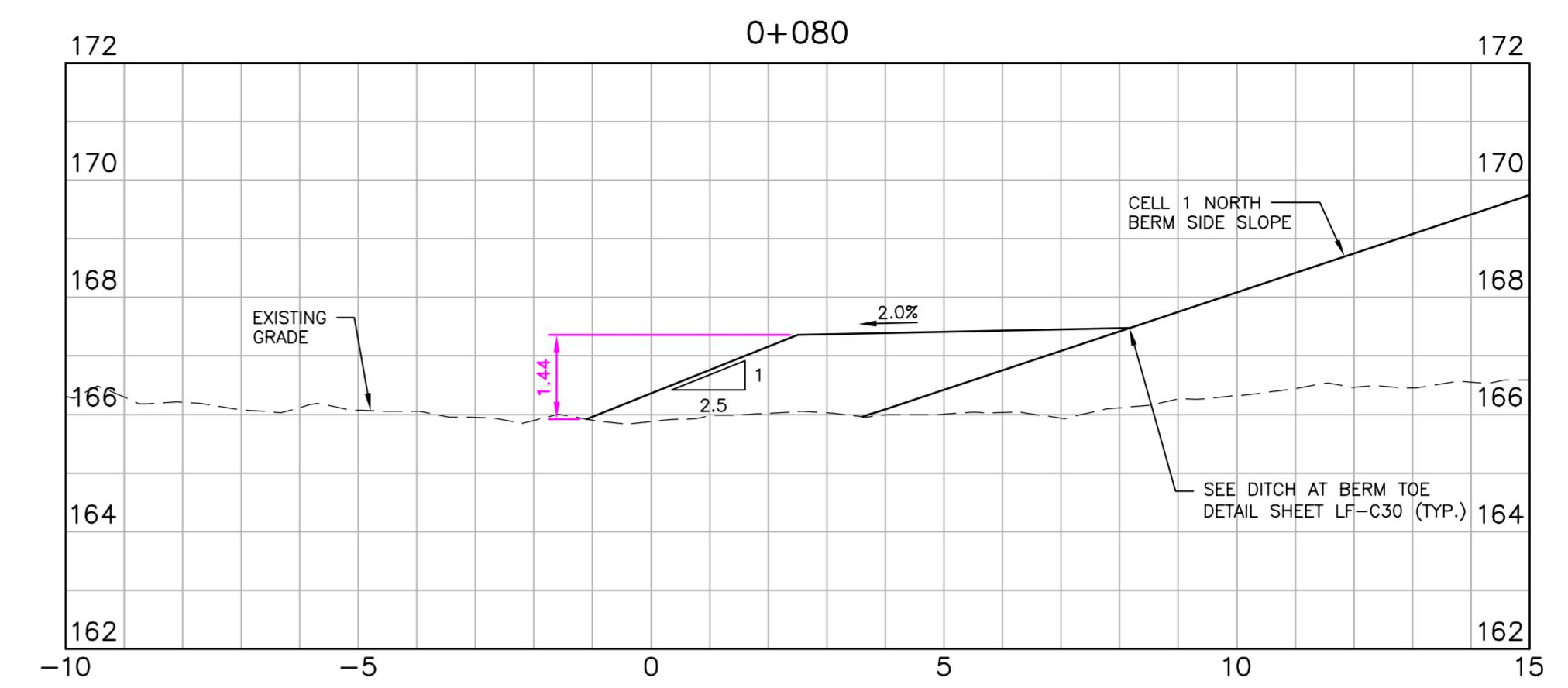
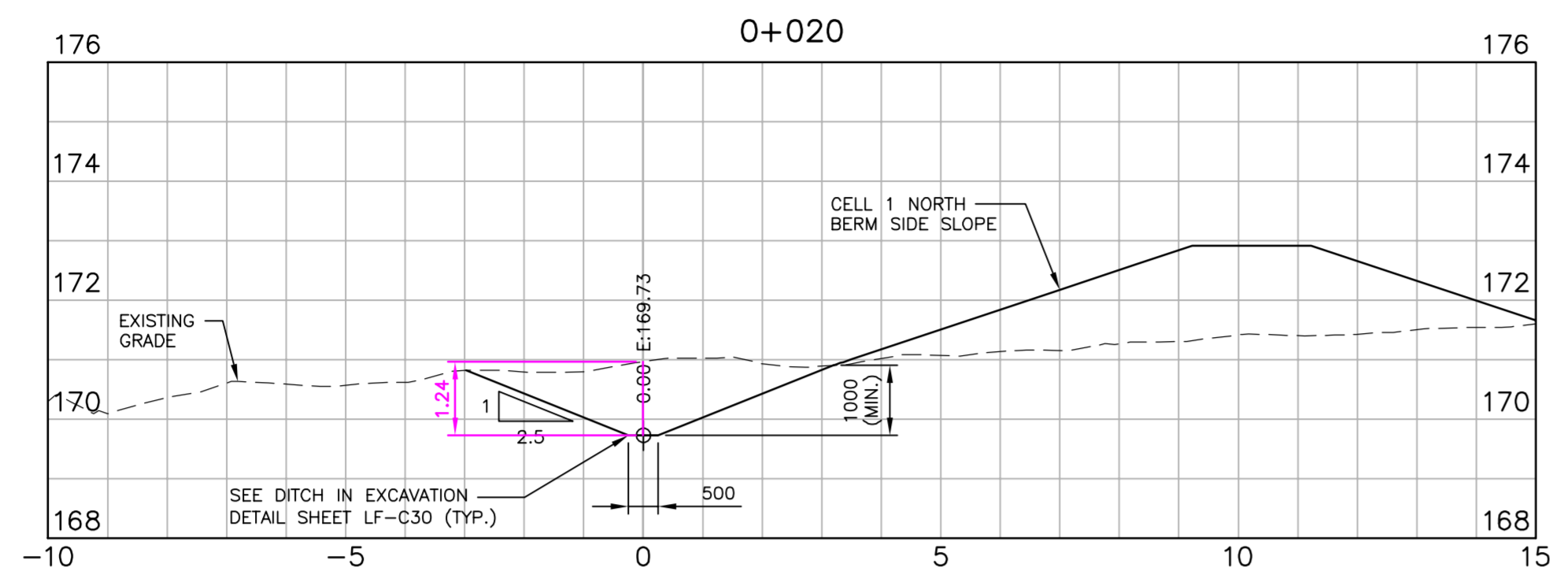
Spark testing is to be performed in accordance with the Manufacturers procedures by the Installer.

Question 50:

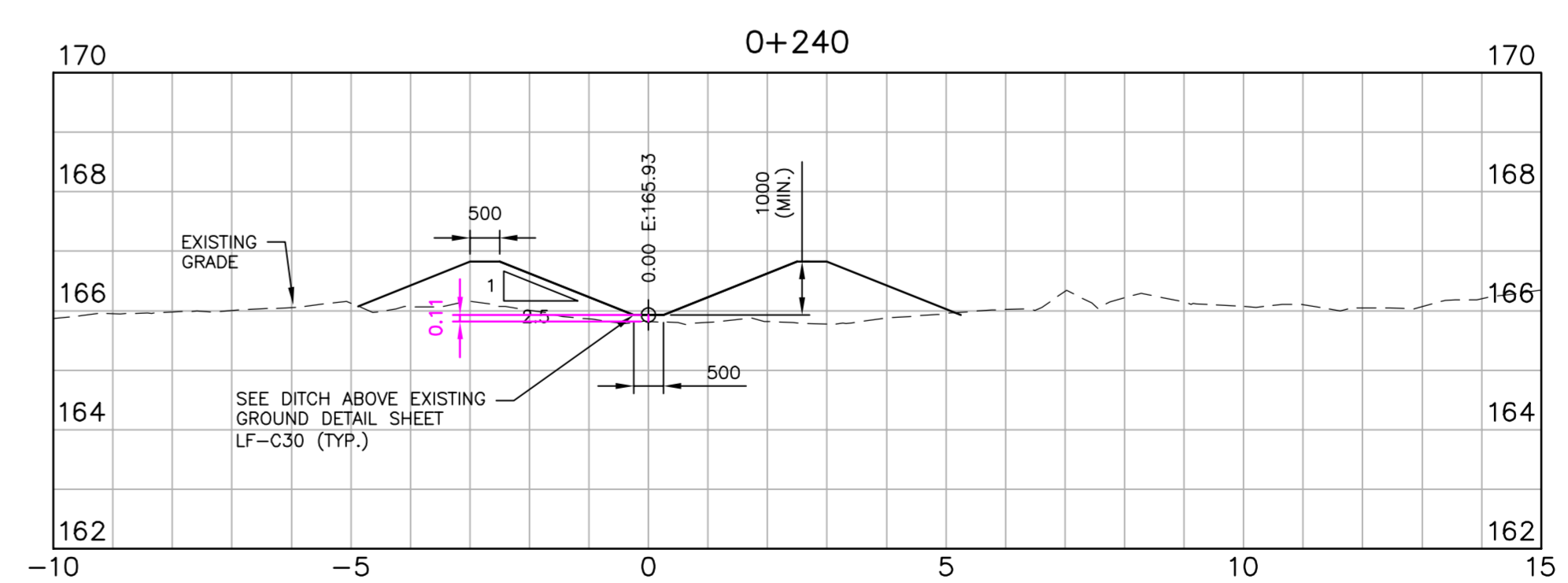
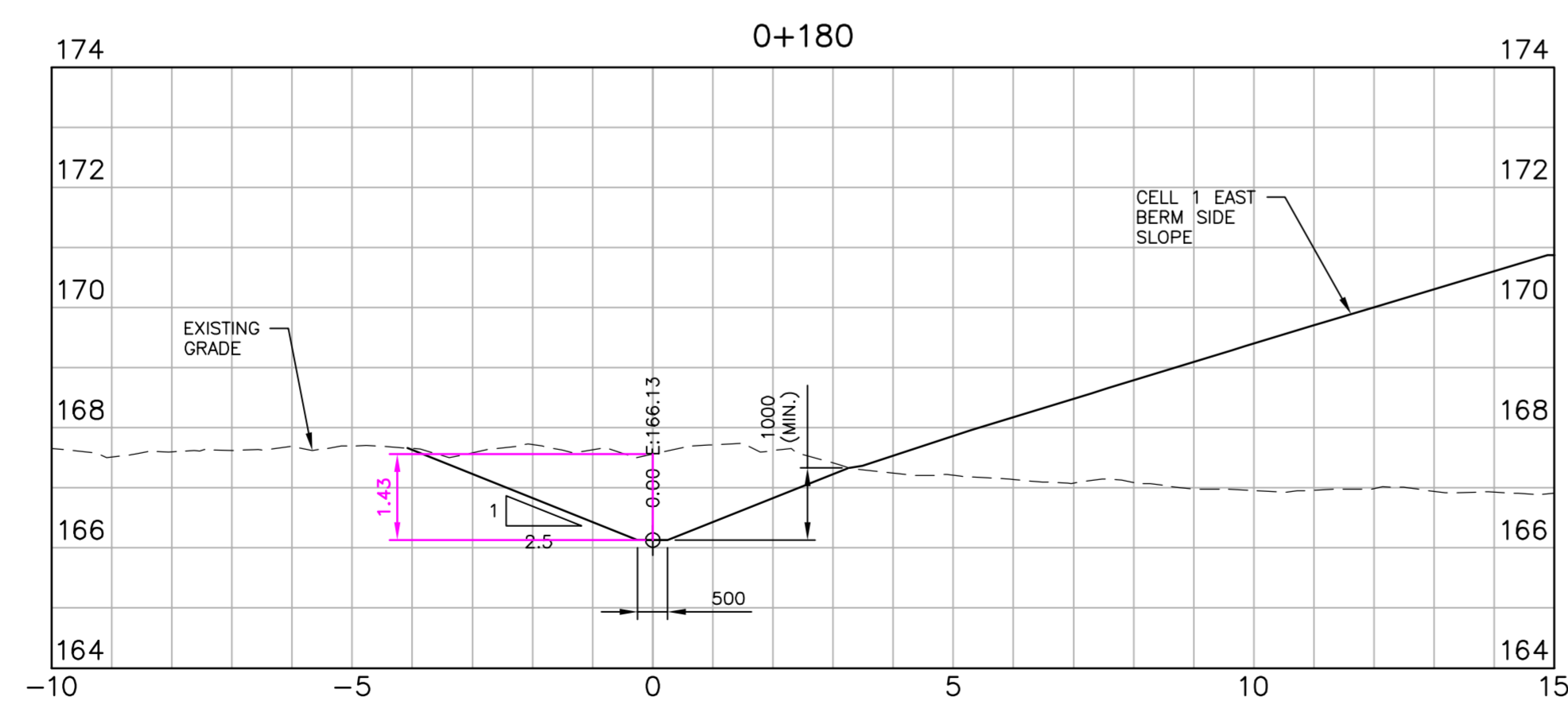
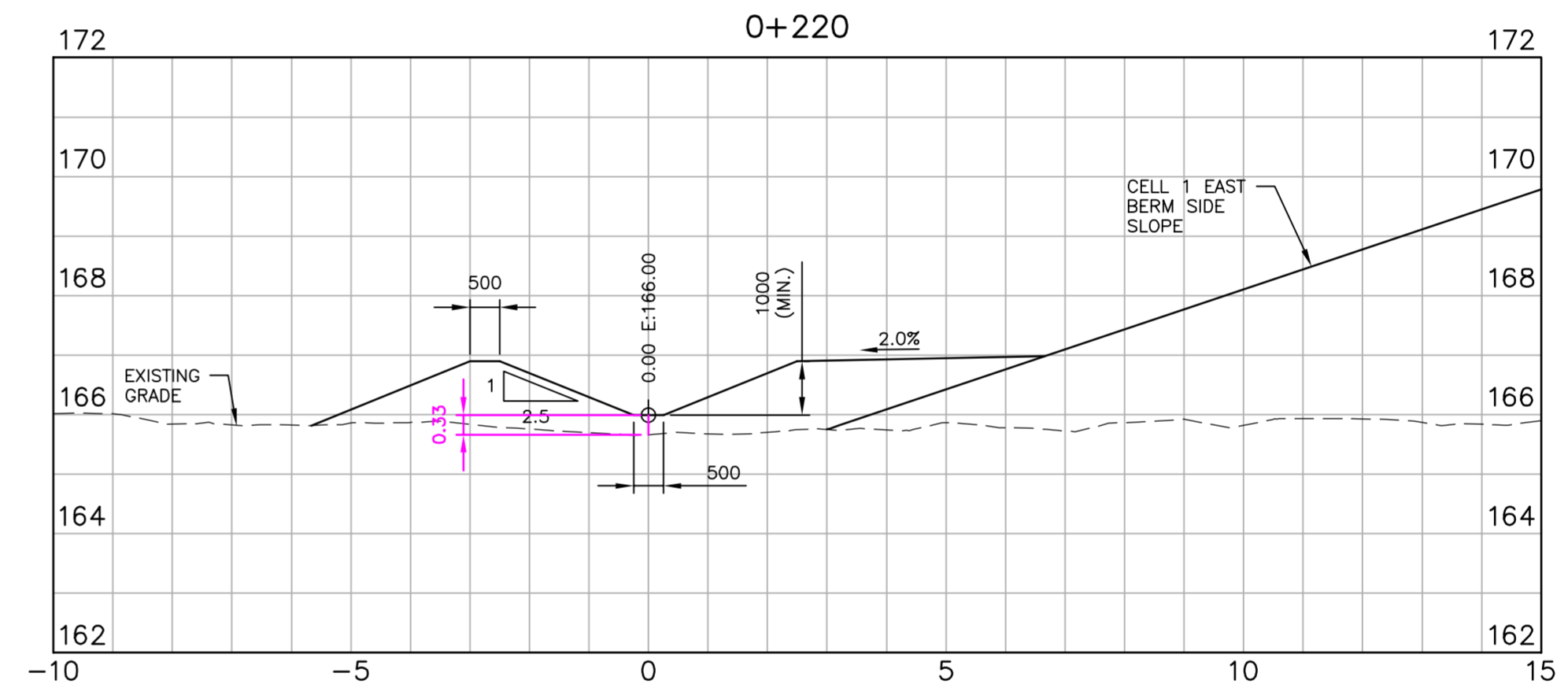
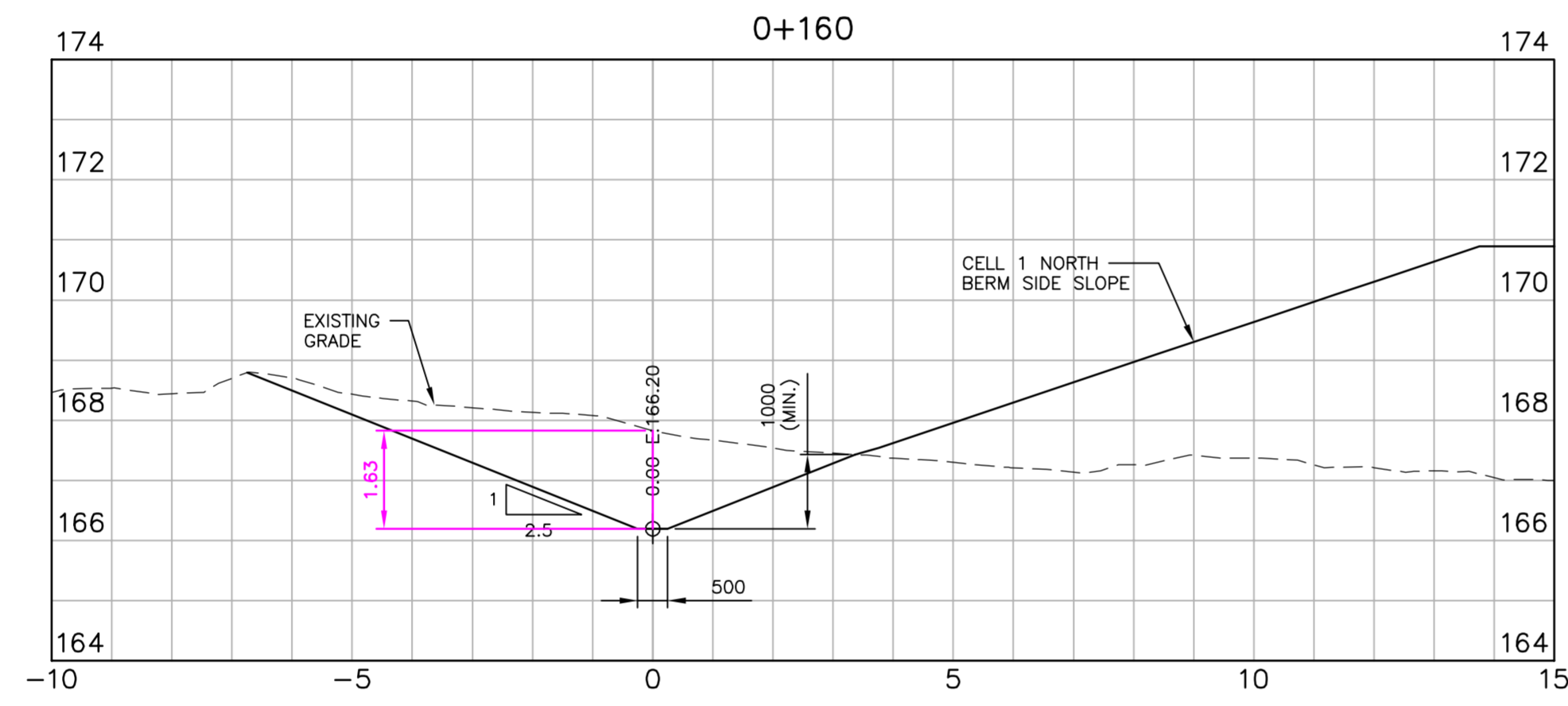
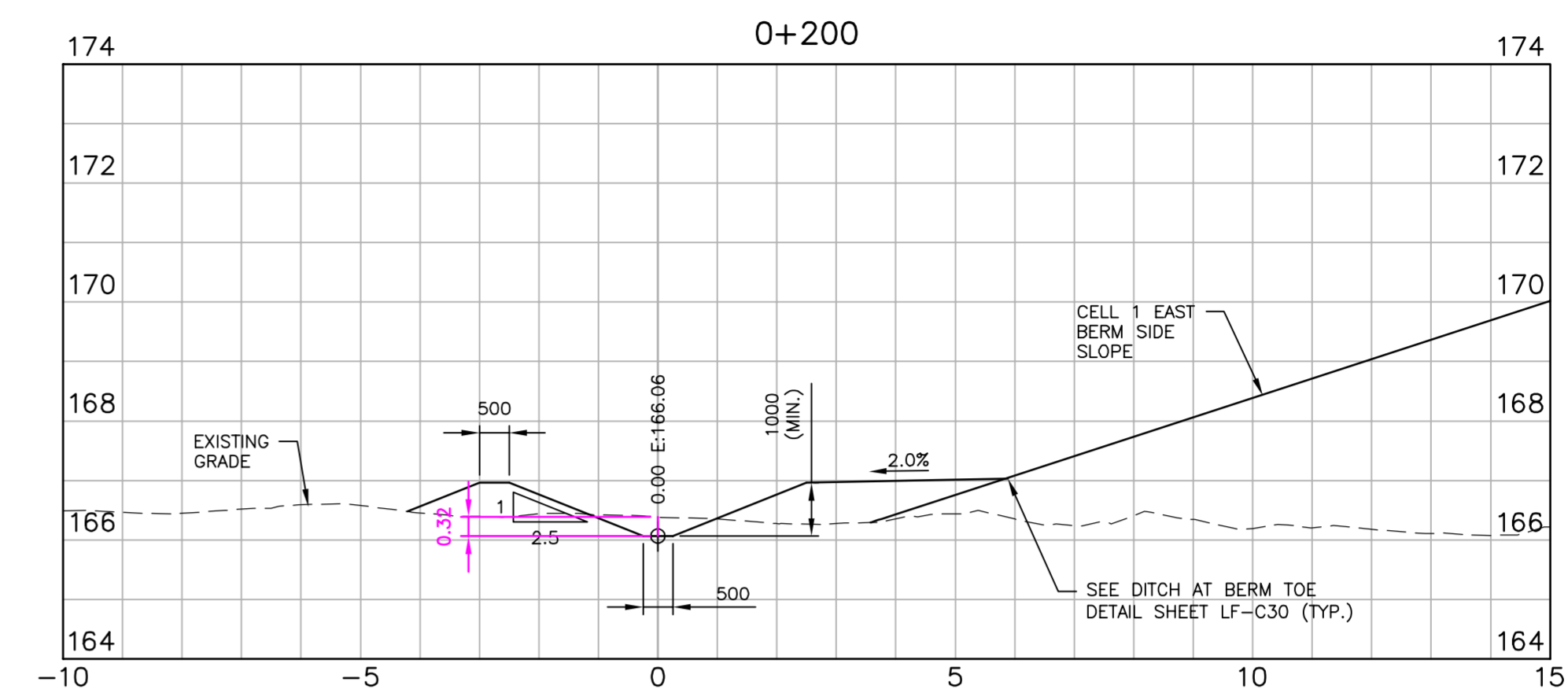
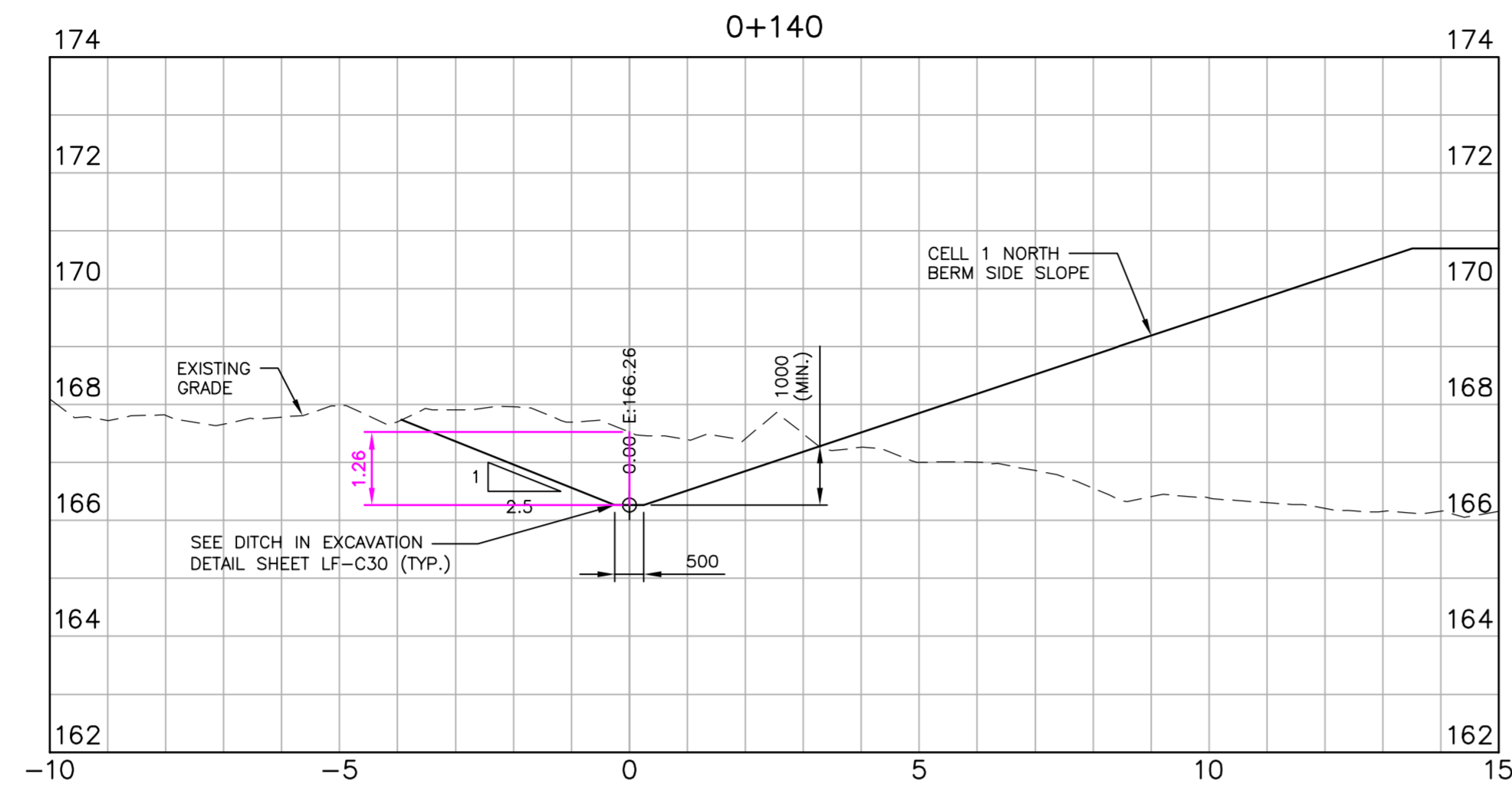
Please confirm that we are to backfill all the anchor trench with artic grout or Cement/bentonite.? That represents more than 1000 cubic meters of grout

Response 50:

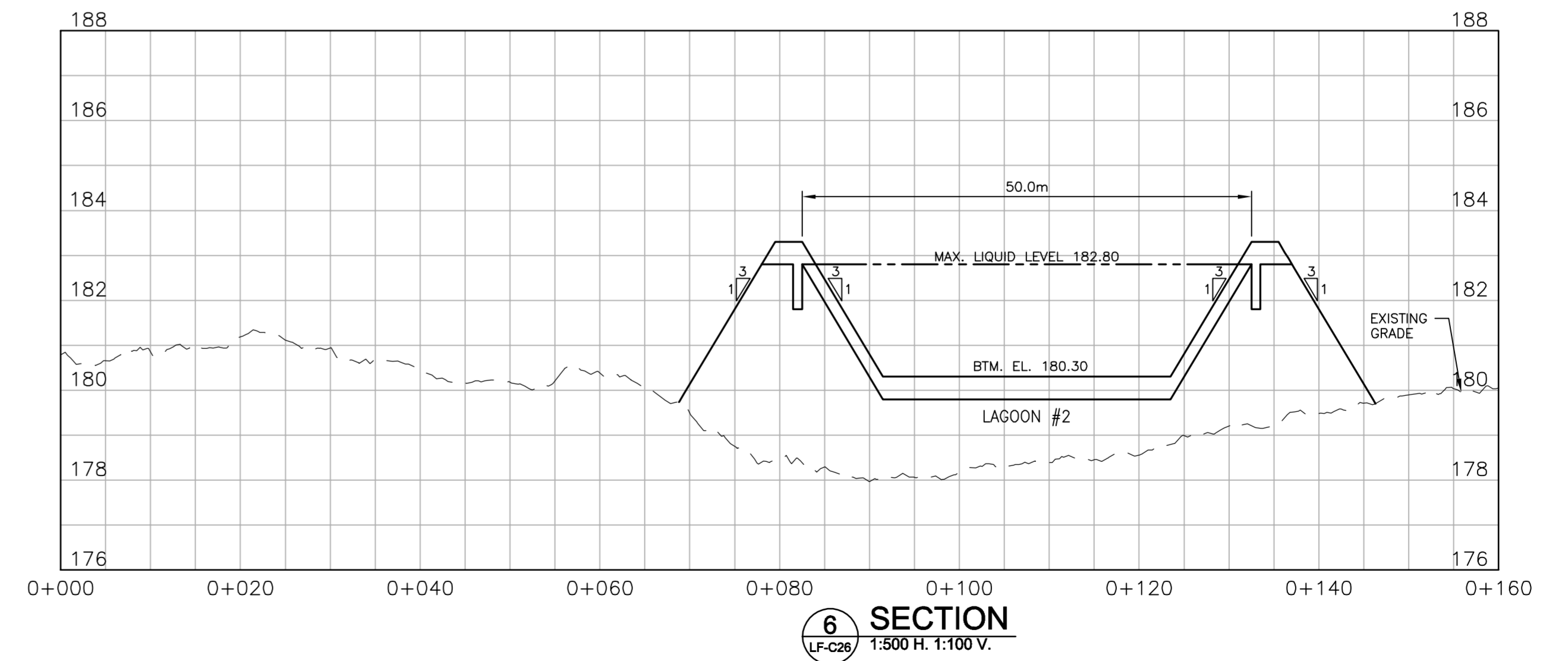
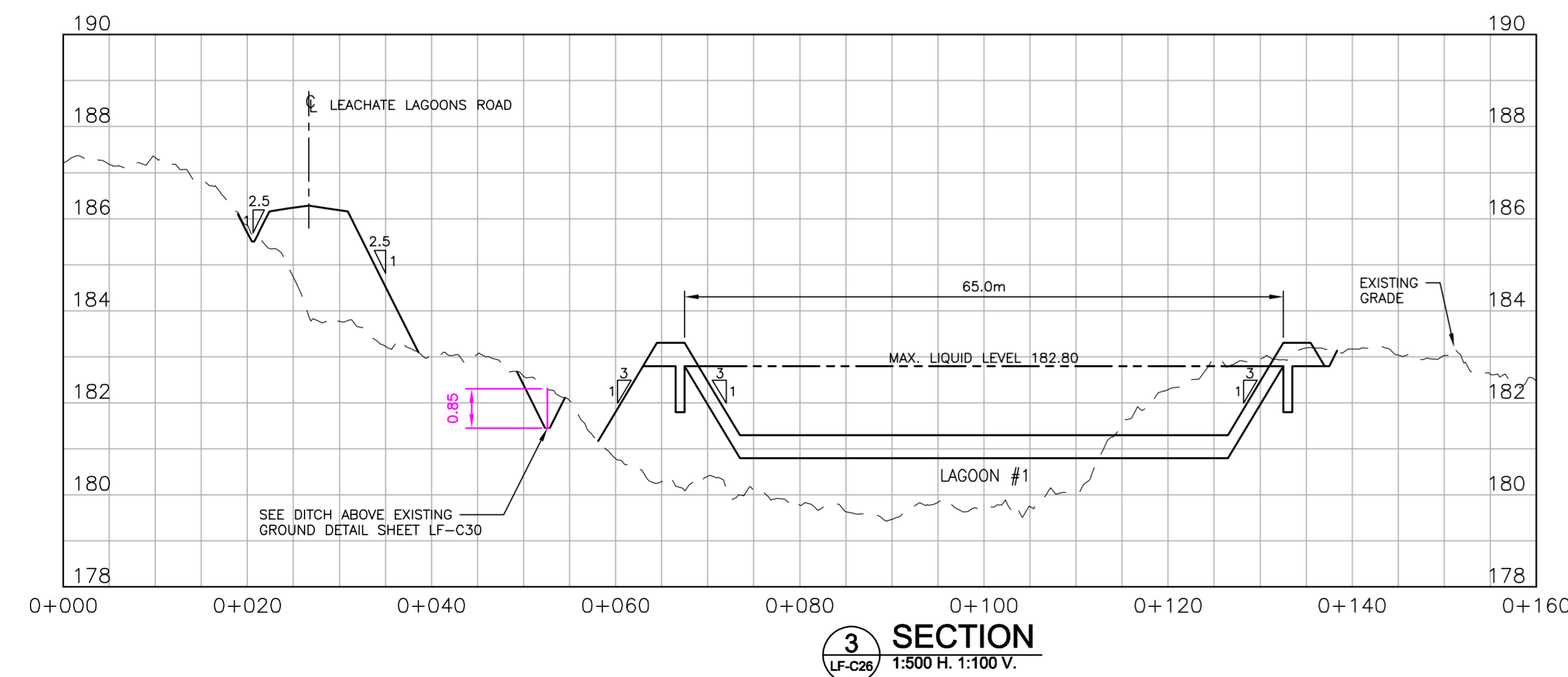
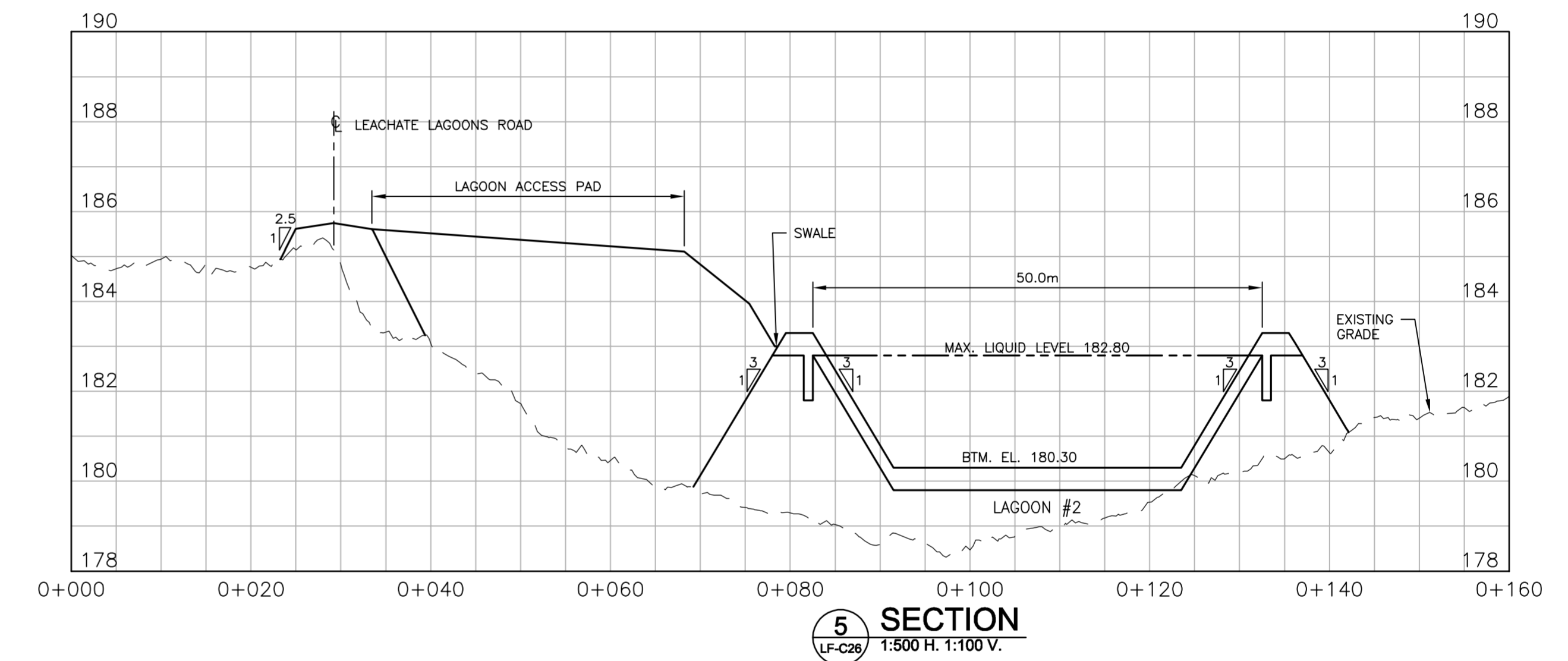
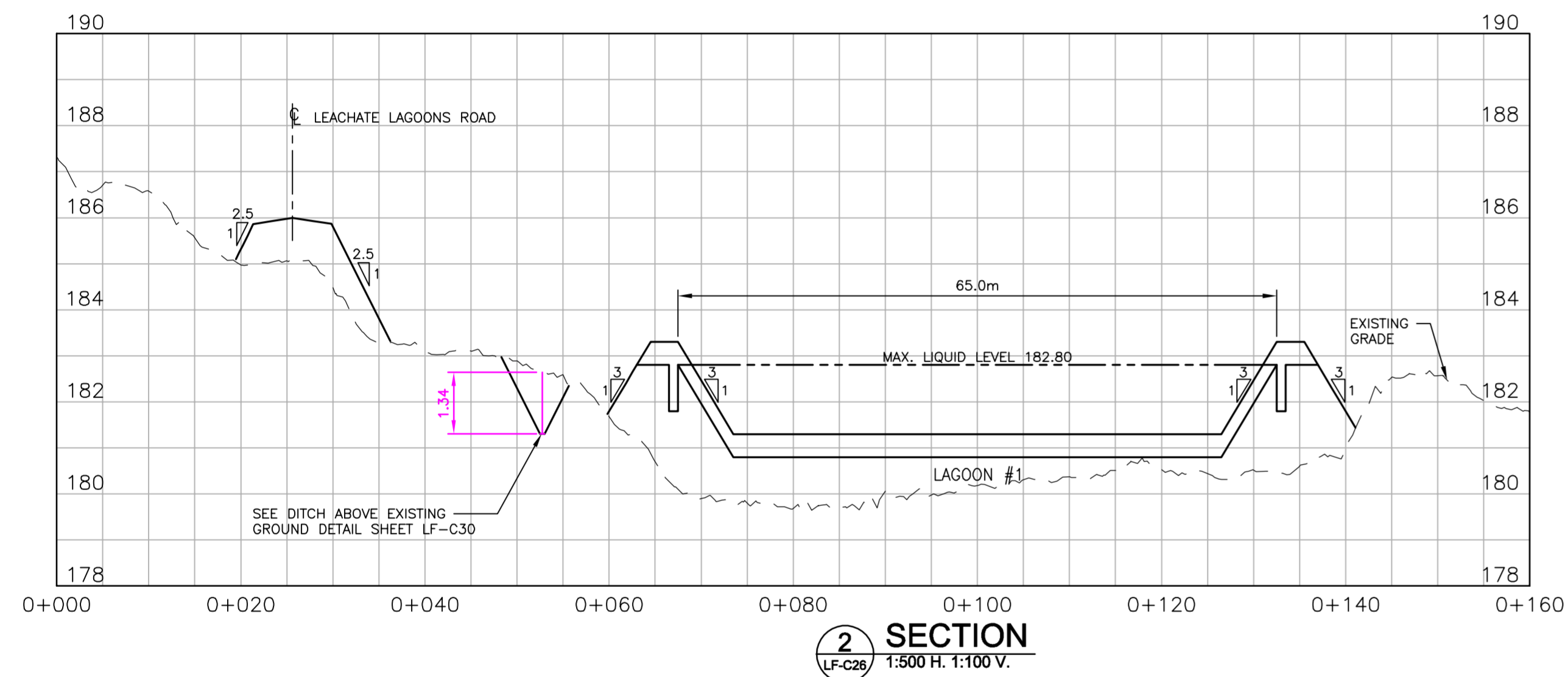
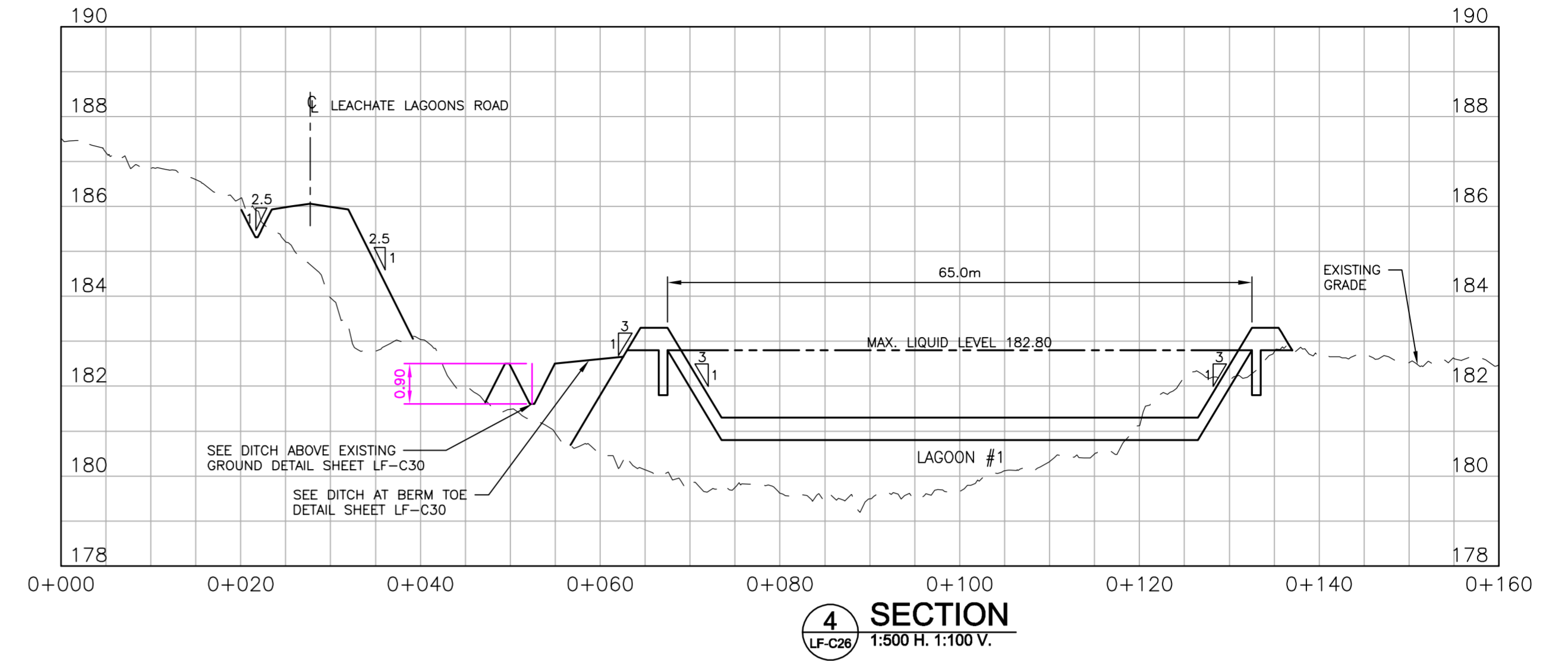
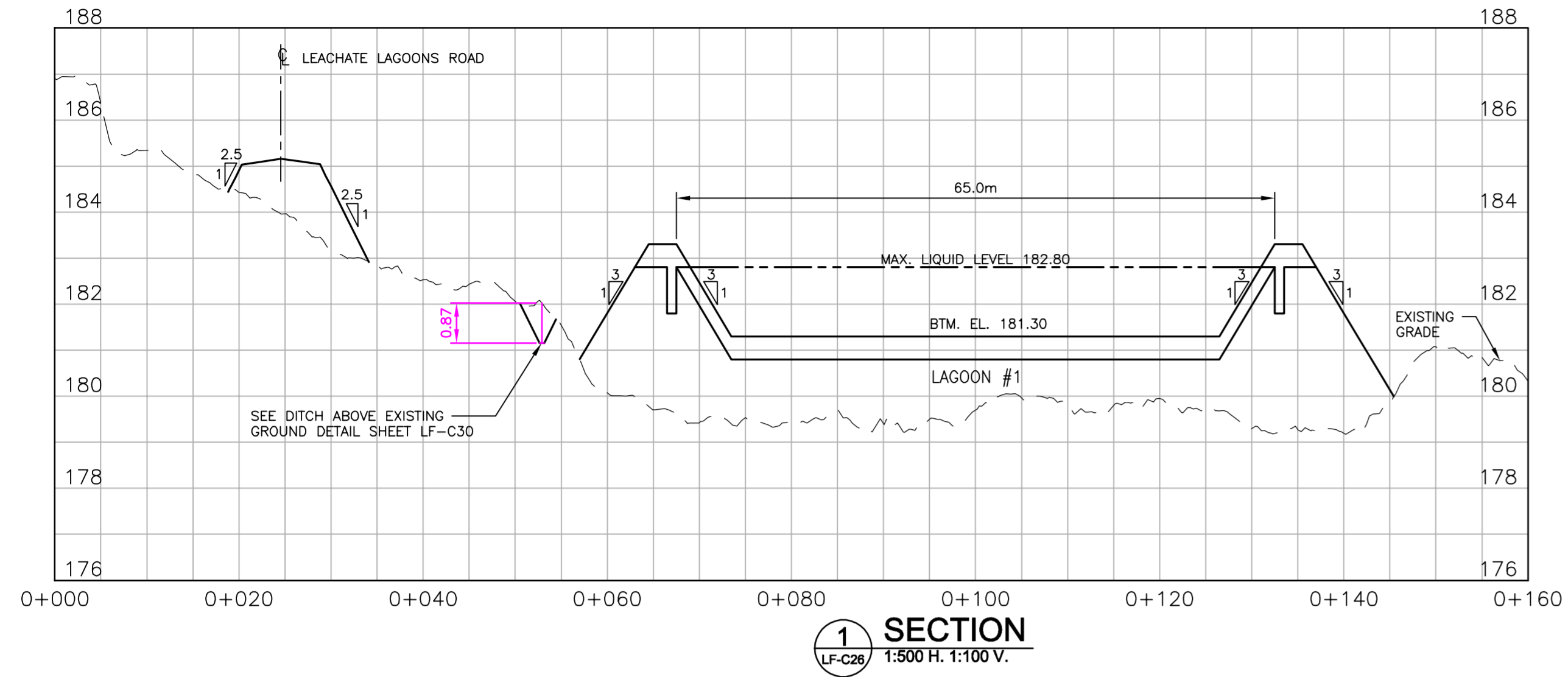
Compacted Granular A is acceptable as anchor trench backfill.

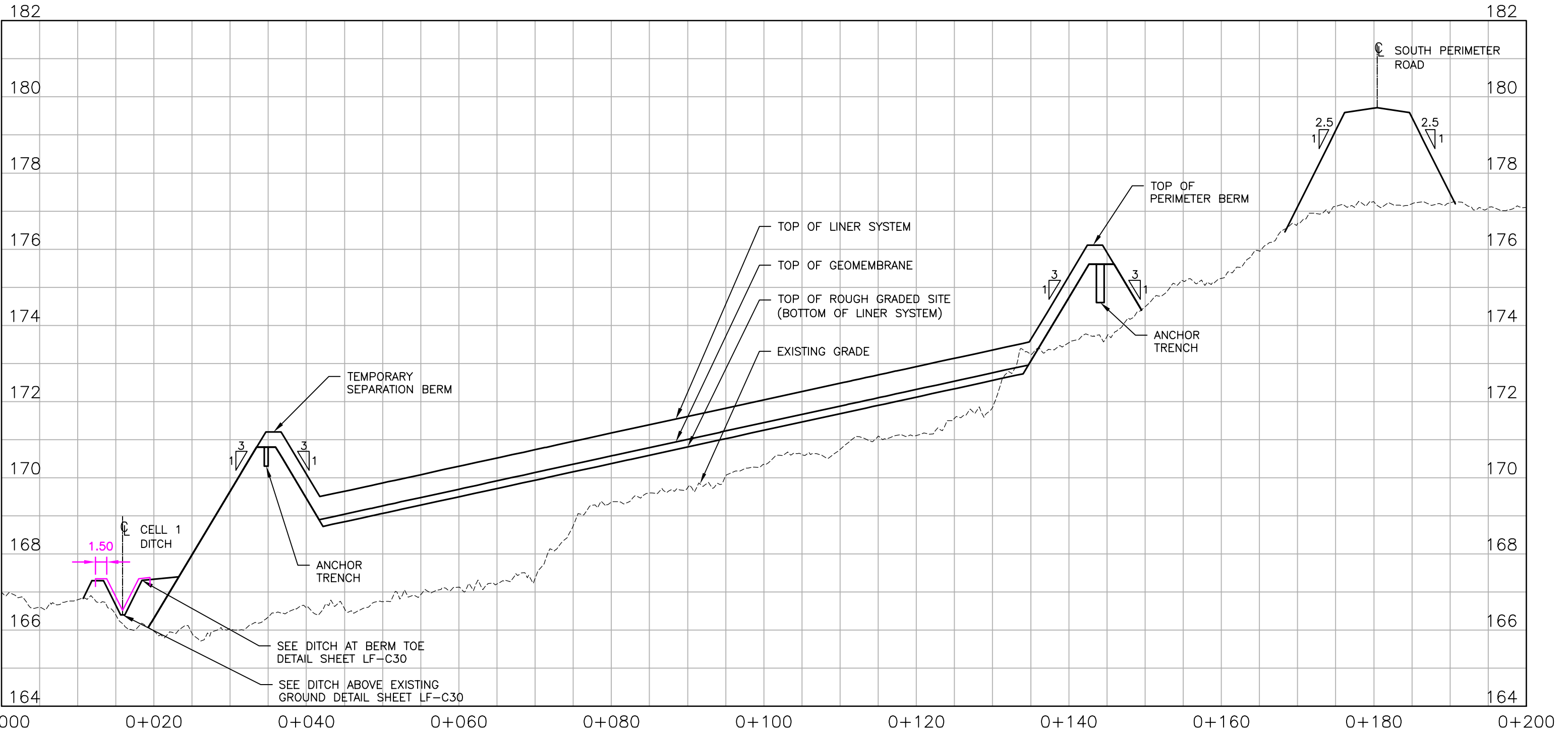


Item 1A



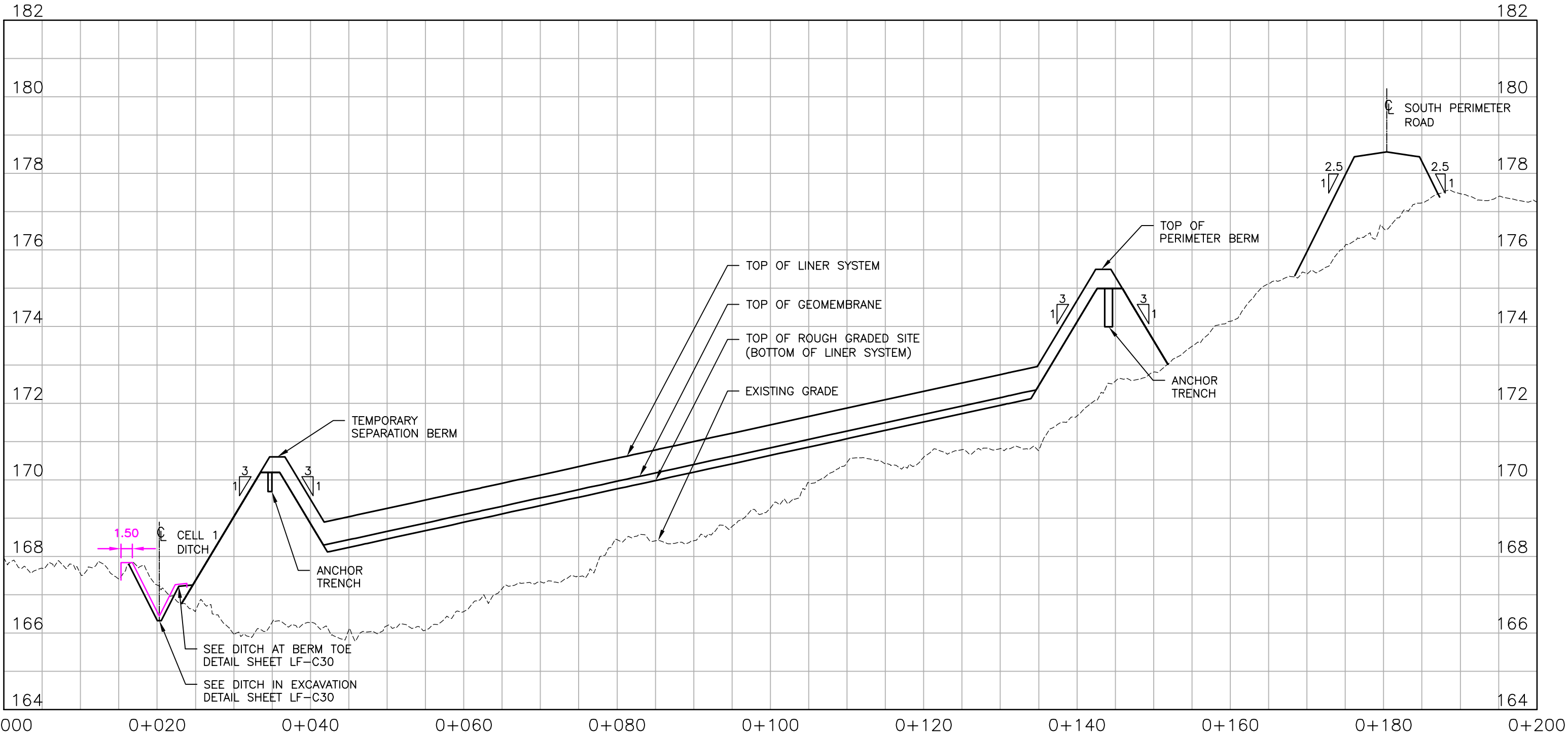
Item 1B





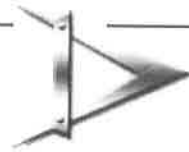
8 SECTION
 LF-C19 1:500 H. 1:100 V.

Item 3A

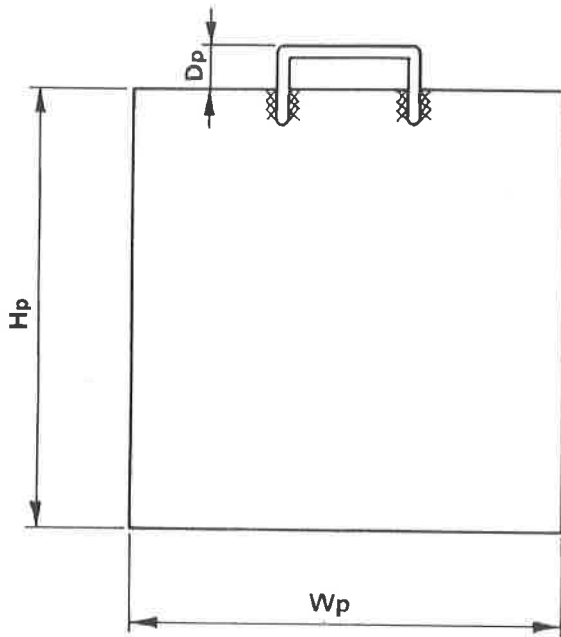


9 SECTION
 LF-C19 1:500 H. 1:100 V.

Item 3B



- **ORIFICE:** Square or rectangular openings having standard dimensions up to 1200mm(48in.) - other dimensions available upon request.



DIMENSIONS

FRAME : $W_f =$ _____ mm (in.)

$H_f =$ _____ mm (in.)

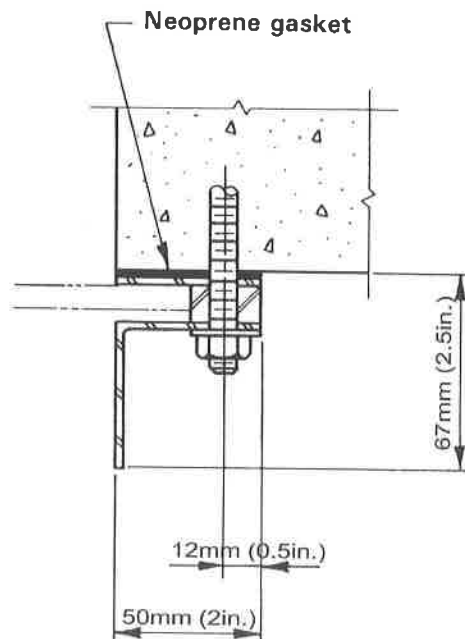
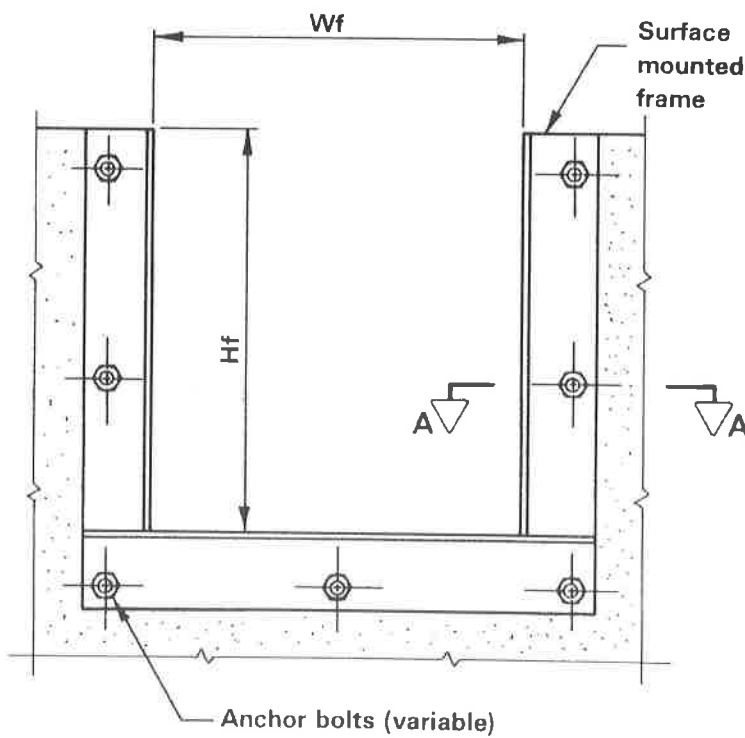
SLIDE : $W_p =$ _____ mm (in.)

$H_p =$ _____ mm (in.)

$D_p =$ _____ mm (in.)

$W_p = W_f + 45\text{mm (1.5 in.)}$

$H_p = \text{Req'd Height} + 25\text{mm (1 in.)}$



SECTION A - A