

RULE NO.: R161-23.05

ADOPTION DATE: March 23, 2023

NOTICE OF RULE ADOPTION

By: Jorge L. Morales, P.E., CFM, Director
Watershed Protection Department

The Director of the Watershed Protection Department has adopted the following rule. Notice of the proposed rule was posted on January 12, 2023. Public comment on the proposed rule was solicited in the January 12, 2023 notice. This notice is issued under Chapter 1-2 of the City Code. The adoption of a rule may be appealed to the City Manager in accordance with Section 1-2-10 of the City Code as explained below.

A copy of the complete text of the adopted rule is attached to this notice.

EFFECTIVE DATE OF ADOPTED RULE

A rule adopted by this notice is effective on March 23, 2023.

TEXT OF ADOPTED RULE

R161-23.05: Modifies the Standards Manual as follows:

Standards Manual – Series 600 – Environmental

- Standard No. 661-4 – Geomembrane Liner Attachment Details: Removes this detail.
- Standard No. 661-4A – Concrete Wall Geomembrane Liner Attachment: Replaces 661-4 with an updated detail that incorporates acceptable methods for geomembrane liner attachment for placement under concrete walls.
- Standard No. 661-4B – Grouted or Mortared Stone Retaining Wall Geomembrane Liner: Replaces 661-4 with an updated detail that incorporates acceptable methods for geomembrane liner attachment for placement under grouted or mortared stone retaining walls.

COMMENTS AND CHANGES FROM PROPOSED RULE

No comments were received, and no changes were made.

AUTHORITY FOR ADOPTION OF RULE

The authority and procedure for the adoption of a rule to assist in the implementation, administration, or enforcement of a provision of the City Code is established in Chapter 1-2 of the City Code. The authority to regulate water quality is established in Chapter 25-8 of the City Code.

APPEAL OF ADOPTED RULE TO CITY MANAGER

A person may appeal the adoption of a rule to the City Manager. **AN APPEAL MUST BE FILED WITH THE CITY CLERK NOT LATER THAN THE 30TH DAY AFTER THE DATE THIS NOTICE OF RULE ADOPTION IS POSTED. THE POSTING DATE IS NOTED ON THE FIRST PAGE OF THIS NOTICE.** If the 30th day is a Saturday, Sunday, or official city holiday, an appeal may be filed on the next day which is not a Saturday, Sunday, or official city holiday.

An adopted rule may be appealed by filing a written statement with the City Clerk. A person who appeals a rule must (1) provide the person's name, mailing address, and telephone number; (2) identify the rule being appealed; and (3) include a statement of specific reasons why the rule should be modified or withdrawn.

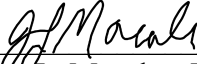
Notice that an appeal was filed and will be posted by the city clerk. A copy of the appeal will be provided to the City Council. An adopted rule will not be enforced pending the City Manager's decision. The City Manager may affirm, modify, or withdraw an adopted rule. If the City Manager does not act on an appeal on or before the 60th day after the date the notice of rule adoption is posted, the rule is withdrawn. Notice of the City Manager's decision on an appeal will be posted by the city clerk and provided to the City Council.

On or before the 16th day after the city clerk posts notice of the City Manager's decision, the City Manager may reconsider the decision on an appeal. Not later than the 31st day after giving written notice of an intent to reconsider, the City manager shall make a decision.

CERTIFICATION BY CITY ATTORNEY

By signing this Notice of Rule Adoption (R161-23.05), the City Attorney certifies that the City Attorney has reviewed the rule and finds that adoption of the rule is a valid exercise of the Director's administrative authority.

REVIEWED AND APPROVED



Jorge L. Morales, P.E., CFM, Director
Watershed Protection Department

Date: 03/02/2023

Anne L. Morgan

Anne L. Morgan
City Attorney

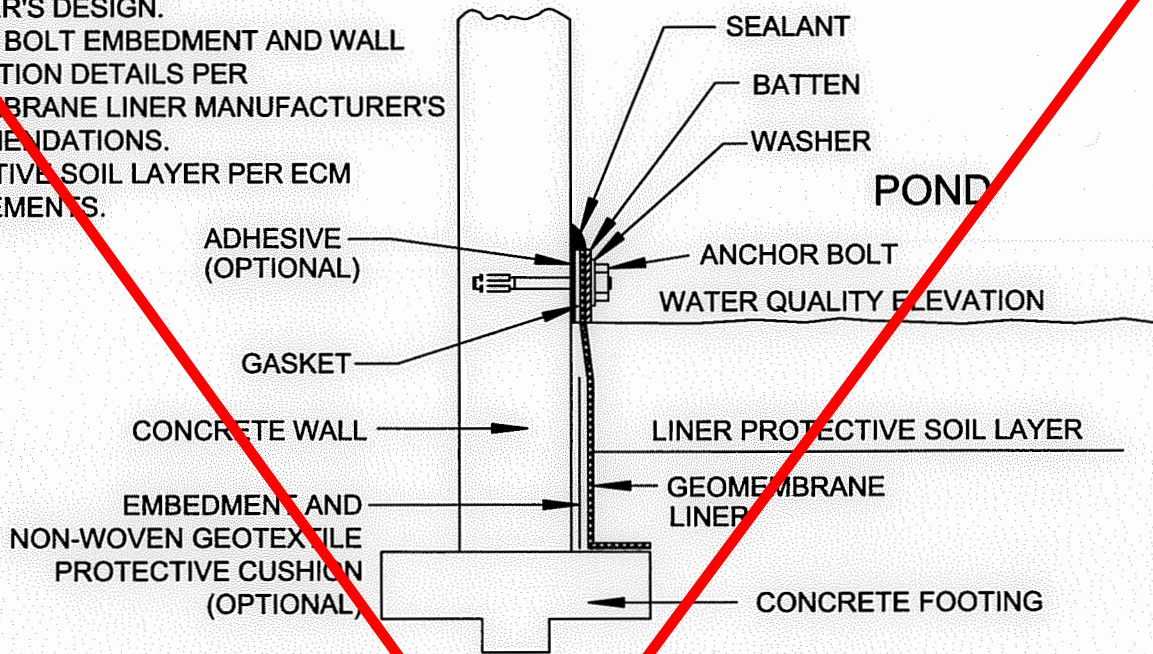
Date: 3/13/2023

This Notice of Rule Adoption was posted on the City website by the City Clerk. The date and time stamp are on the front of the notice.

REMOVE

NOTES:

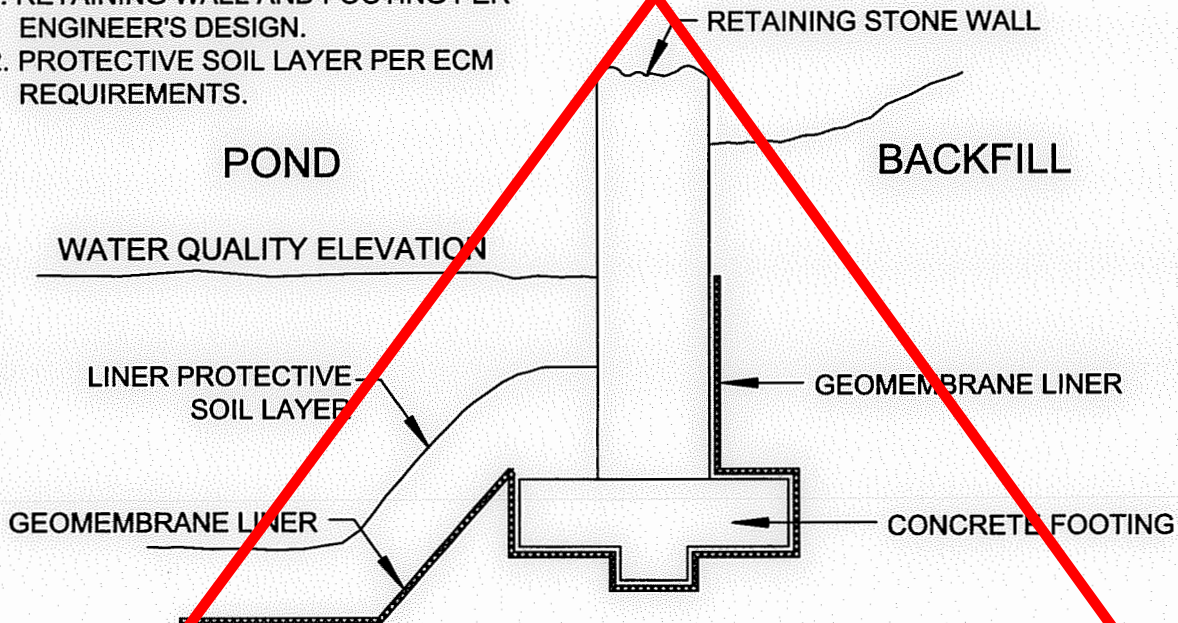
1. CONCRETE WALL AND FOOTING PER ENGINEER'S DESIGN.
2. ANCHOR BOLT EMBEDMENT AND WALL CONNECTION DETAILS PER GEOMEMBRANE LINER MANUFACTURER'S RECOMMENDATIONS.
3. PROTECTIVE SOIL LAYER PER ECM REQUIREMENTS.



CONCRETE WALL GEOMEMBRANE ATTACHMENT

NOTES:

1. RETAINING WALL AND FOOTING PER ENGINEER'S DESIGN.
2. PROTECTIVE SOIL LAYER PER ECM REQUIREMENTS.



RETAINING WALL GEOMEMBRANE CONNECTION

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

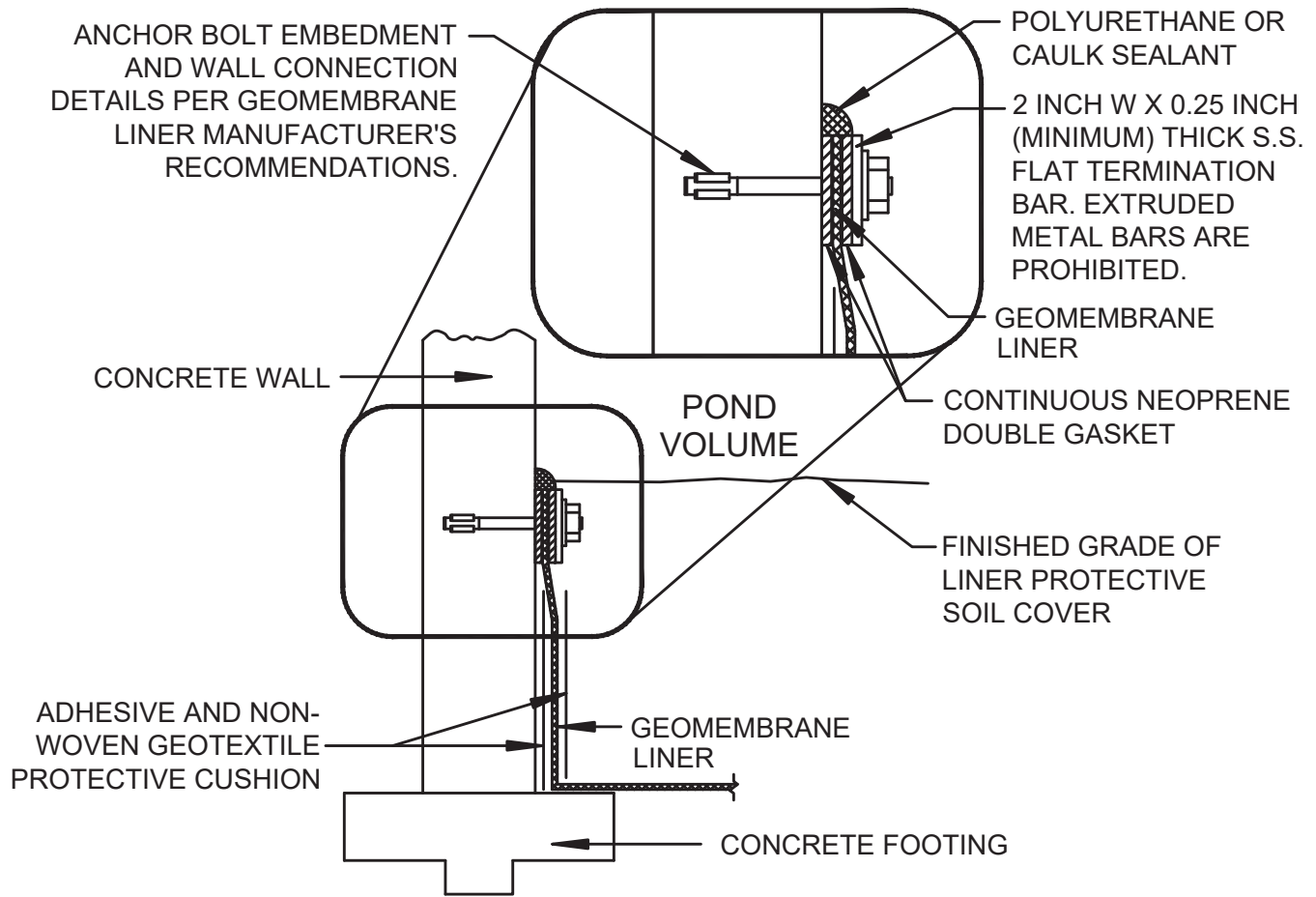
GEOMEMBRANE LINER ATTACHMENT DETAILS

STANDARD NO.

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.

661-4

My Ky, P.E. 12/30/14
ADOPTED



NOTES:

1. THIS SPECIFICATION IS FOR SUBMERGED GEOMEMBRANE LINER TERMINATIONS ON CONCRETE WALLS ONLY.
2. ALL TERMINATION BATTENS AND FASTENERS MUST BE STAINLESS STEEL (SS). THE TERMINATION BAR MUST HAVE A MINIMUM THICKNESS OF 1/4" (ONE QUARTER INCH) AND MINIMUM WIDTH OF 2" (TWO INCHES). EXTRUDED METAL BARS ARE PROHIBITED.
3. GEOMEMBRANE LINERS MUST MEET THE MINIMUM GUIDELINES OF ECM 1.6.2 AND BE INSTALLED PER THOSE GUIDELINES UNDER THE SUPERVISION OF A LICENSED GEOTECHNICAL ENGINEER.
4. ALL GASKETS, SEALANTS, CONCRETE WALL PREPARATION, AND ANCHORS MUST BE INSTALLED PER SPECIFICATIONS BY A CERTIFIED TECHNICIAN FOR THAT SPECIFIC MANUFACTURER.
5. PROTECTIVE SOIL COVER MUST MEET THE GUIDELINES OF ECM 1.6.2. THE TERMINATION BAR SHOULD BE ANCHORED JUST BELOW THE FINISH GRADE OF THE PROTECTIVE COVER.
6. GEOTEXTILE SHALL MEET MINIMUM MANUFACTURERS GUIDELINES AND ECM 1.6.
7. CONCRETE RETAINING WALLS MUST BE WATER-TIGHT AND PROVIDE WATERSTOPS PER STANDARD SPECIFICATION 414S.
8. DEVIATIONS FROM THIS DETAIL MAY BE PERMITTED PER MANUFACTURER GUIDELINES IF APPROVED BY THE CITY INSPECTOR AND A LICENSED GEOTECHNICAL ENGINEER.

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

CONCRETE WALL GEOMEMBRANE LINER ATTACHMENT

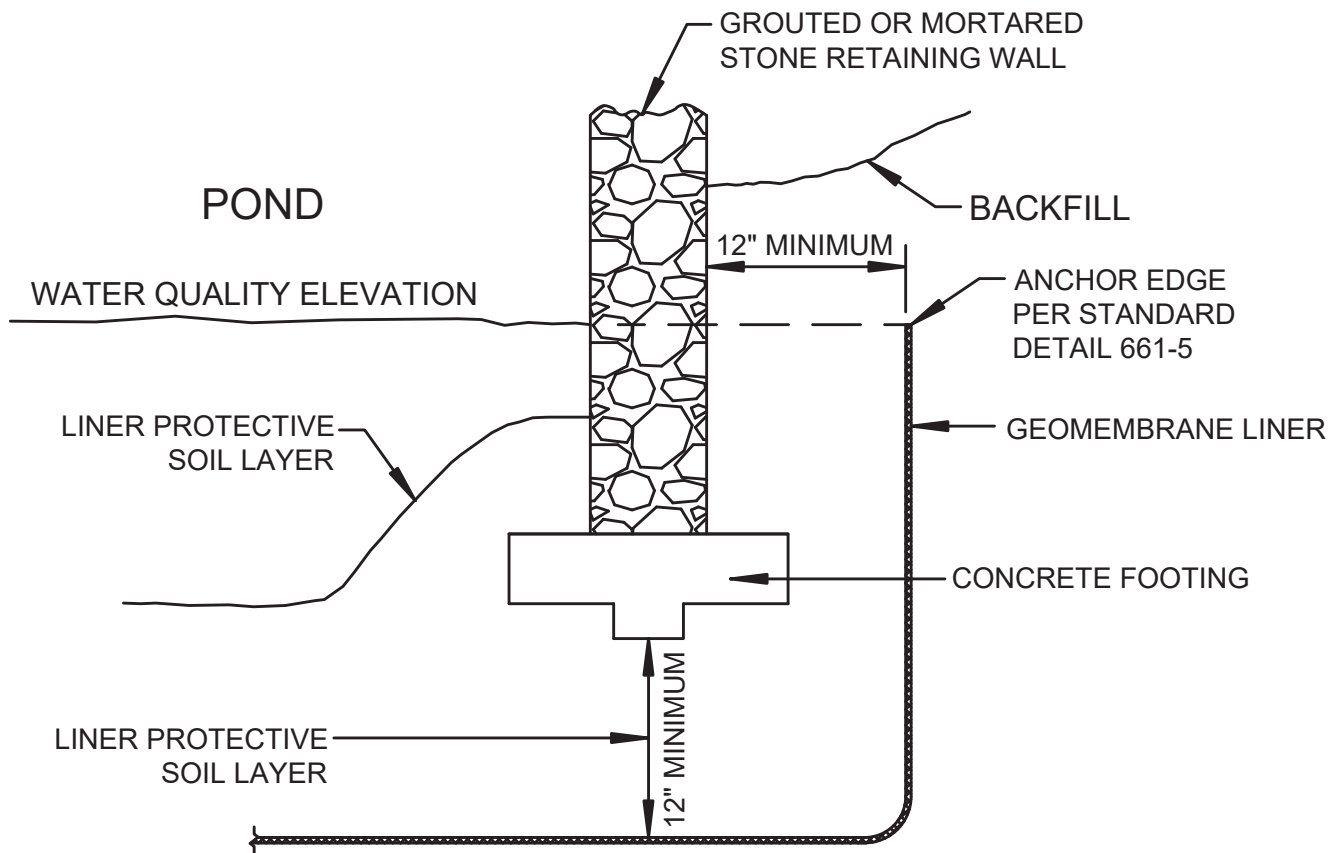
[Signature]

3/23/2023
ADOPTED

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.


STANDARD NO.

661-4A



NOTES:

1. RETAINING WALL AND FOOTING PER ENGINEERING DESIGN.
2. PROTECTIVE SOIL LAYER PER ECM 1.6.2.
3. GEOMEMBRANE LINER MUST BE LOCATED UNDERNEATH THE FOOTING AND BEHIND THE RETAINING WALL.
4. AT A MINIMUM, THE GEOMEMBRANE LINER MUST EXTEND UP TO THE WATER QUALITY ELEVATION BEHIND THE RETAINING WALL.
5. GEOMEMBRANE LINER MUST BE ANCHORED BEHIND THE WALL USING ACCEPTABLE METHOD SHOWN IN STANDARD DETAIL 661-5.
6. FREE STANDING DRY STACKED ROCK WALLS ARE NOT ACCEPTABLE.

| | | |
|---|---|--|
| <p>CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT</p> | <p>GROUTED OR MORTARED STONE RETAINING WALL GEOMEMBRANE LINER</p> | |
|  | <p>3/23/2023 ADOPTED</p> | <p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p> |
| <p>STANDARD NO. 661-4B</p> | | |