

**WHITEMARSH TOWNSHIP
SHADE TREE COMMISSION MEETING AGENDA
JANUARY 6, 2026 AT 6:30 PM (IN-PERSON)**

CHRISTIAN FASSBENDER ___ VERA KOSABUTSKI ___
NATALIE BORKOWSKI ___ DAVID D'AMORE ___ FRAN KELLY ___

BOS LIAISON ___ ARBORIST, JOHN HOSBACH ___
STAFF LIAISON, SAMANTHA ZRILLO ___

CALL TO ORDER:

ELECTION OF CHAIR:

ELECTION OF VICE CHAIR:

ANNOUNCEMENTS:

- All speakers are requested to speak directly into the microphones.

APPROVAL OF MINUTES:

- November 18, 2025

PLAN REVIEWS:

- Grading Permit #2025-10 Green Valley Country Club R1 (201 Ridge Pike); Padel Court Location Change
- Grading Permit #2025-25 Madras Investments 1, LLC (400 Stenton Ave); Building Addition
- Grading Permit #2025-24 Union League Liberty Hill, LLC (800 Ridge Pike); Construction of New Ballroom and Associated Improvements

OLD BUSINESS:

- Abolition Hall- Tree Project Update
- 2026 Tree Giveaway Species
- Continued Discussion on Chapter 55 Amendments

NEW BUSINESS:

PUBLIC COMMENT PERIOD:

BOARD MEMBER COMMENTS:

NEXT MEETING DATE: Tuesday, February 3, 2026

| | | | |
|-------------|------------|----------------------------|------------|
| January 6 | February 3 | March 3 | April 7 |
| May 5 | June 2 | July 7 | August 4 |
| September 1 | October 6 | November 3 Election Day | December 1 |

ADJOURNMENT:

PUBLIC PARTICIPATION INFORMATION

1. Public meetings of the Commission shall follow a prescribed agenda, which will be available to the general public no later than the Friday preceding the meeting.
2. If members of the public wish the Commission to address a specific item at a public meeting, a written request to the Staff Liaison shall be submitted at least one week before the meeting. The written request shall specify the item or items the individual desires to be addressed.
3. The Commission may consider other matters for the agenda as they see fit.
4. The Commission will entertain Public Comment at the conclusion of the discussion of the item and prior to specific action on the item during the meeting, at the discretion of the Chair. Individuals must advise the Chair of their desire to offer such comment.
5. A Public Comment period will be provided at the conclusion of a meeting for input on any new subject.
6. The Commission Chair shall preside over Public Comments and may within their discretion:
 - a. Recognize individuals wishing to offer comment.
 - b. Require identification of such persons.
 - c. Allocate total available Public Comment time among all individuals wishing to comment.
 - d. Allocate up to a five (5) minute maximum for each individual to offer Public Comment at a meeting, Township Staff shall time comments and shall announce, "one minute remaining" and "time expired" to the Chair.
 - e. Rule out of order scandalous, impertinent and redundant comment or any comment the discernible purpose of which is to disrupt or prevent the conduct of the business of the meeting including the questioning of, or polling of, or debating with, individual members of the Commission.

**WHITEMARSH TOWNSHIP
SHADE TREE COMMISSION MEETING MINUTES
NOVEMBER 18, 2025 AT 6:30 PM (IN-PERSON)**

CHRISTIAN FASSBENDER (Chair) X VERA KOSABUTSKI (Vice-Chair) X
NATALIE BORKOWSKI X DAVID D'AMORE X FRAN KELLY X

BOS LIAISON, JACY TOLL X ARBORIST, JOHN HOSBACH X
STAFF LIAISON, SAMANTHA ZRILLO X

CALL TO ORDER: Chair Fassbender called the meeting to order at 6:31 PM.

ANNOUNCEMENTS:

- All speakers are requested to speak directly into the microphones.
- This meeting was advertised in the *Times Herald* on Monday, November 10, 2025

Mr. Fassbender announced that each person should speak into the microphone for recording purposes. Ms. Zrillo announced that the meeting was advertised per legal requirements in the *Times Herald* as this wasn't the regularly scheduled meeting date.

APPROVAL OF MINUTES:

- October 7, 2025
Ms. Kelly made a motion to approve the October 7, 2025 meeting minutes. Mr. D'Amore seconded the motion. Motion carried 4-0. Ms. Borkowski was not in attendance at the time of the vote.

PLAN REVIEWS: (none)

OLD BUSINESS:

- Abolition Hall- Tree Project Update
Mr. Hosbach said the project is progressing slightly slower than expected, but work is being completed according to specifications. Communication has been inconsistent at times, and staff have addressed the need for better notice regarding on-site activity. Mr. Hosbach, Ms. Toll, Ms. Zrillo, and Craig McAnally, Township Manger, have been to the site to see the work in progress. The work is expected to be completed in the next couple of weeks.

There were questions from the Commission members regarding the bidding process. Mr. Hosbach gave an overview of the process of going through the bidding process.

The public in attendance, Steve Kaufman and Debra Harris, were part of the discussion.

Ms. Zrillo noted that the Township applied for a grant for the second part of the project- invasive removal.

NEW BUSINESS:

- Tree Giveaway 2026—Species
Mr. Fassbender gave the floor to Ms. Karen Kabnick, of Community Canopy Project, to present species options for the 2026 Tree Giveaway. Ms. Kabnick explained she compiled the list by reviewing the Mt. Cuba Center Resilient Canopy List—a numbering system that predicts how the species are going to do. All but one proposed species are listed as “1” which means they will do the best (Sugar Maple is a “2”).

Ms. Zrillo asked the Commission to consider lowering the number of trees to 200 due to a couple of factors including low turnout and logistics of delivering 250 trees. There was a conversation about the giveaway logistics and Ms. Zrillo explained the process of promoting the event and going through the list to contact

people for leftover trees.

There was a discussion about selling the trees for a nominal amount, but ultimately, it was decided to keep it as a free tree giveaway. Discussion then turned to the proposed species size and how well they would do in this climate.

Resident Debra Harris was a part of the discussion and recommended adding Dogwoods.

Mr. D'Amore made a motion to approve the proposed species, with the addition of Dogwood, and to recalculate the number of trees to be 200. Ms. Kosabutski seconded the motion. Motion carried unanimously.

Ms. Toll asked if the Commission wanted to pick a date for the event. The Commission agreed that it should continue to be the last Saturday in September. The date for the 2026 Tree Giveaway is September 26, 2026.

- Discuss Possible Chapter 55 Ordinance Updates
Ms. Zrillo identified this as an initial discussion only, with no motions or actions planned. The purpose was to begin a conversation about potential amendments to Chapter 55, focusing on applicability and which projects should come before the Shade Tree Commission versus those appropriate for administrative review.

Discussion focused on Section 55-3 (Applicability), including clarifying exemption language for consistency. The issue of Subdivision and Land Development (SLD) waivers was raised, noting that projects with SLD waivers currently come to the Shade Tree Commission only at the grading permit stage due to ordinance silence. Adding clear language to address SLD waivers was suggested.

Sketch plans were discussed as optional and non-binding, with applicants encouraged—but not required—to seek early Shade Tree Commission feedback.

Additional applicability concerns were discussed, particularly related to HOA projects. It was noted that “utilities” are not clearly defined in Chapter 55, creating ambiguity for HOA work involving stormwater facilities or basins. Coordination with the Township Engineer was identified as important for these cases.

Questions were raised about the residential exemption for projects under 5,000 square feet of disturbance, and whether this exemption effectively removes such projects from Chapter 55 entirely. Clarification of intent was suggested. Related gray areas include work in HOA common or shared space and how those areas should be classified under the ordinance.

The exemption for tree removal within approved utility easements was discussed, noting that while removal may be permitted, requirements for tree protection measures are not clearly addressed.

Applicability was also discussed for projects that do not propose tree removal but still impact trees within or near the limit of disturbance. Consideration was given to allowing administrative review and approval for projects with adequate tree protection and no requested waivers, similar to recent administrative review provisions added to the HARB ordinance.

Finally, concerns were raised about tree inventory requirements for large institutional or campus-style properties, suggesting that inventories should be limited to the area of disturbance rather than the entire property.

Mr. Hosbach said there should be discussion focused on when full tree inventories should be required for large properties. It was noted that inventories should be limited to the area of disturbance and defined buffers, not entire properties or adjacent parcels. The need for clear, quantitative standards was emphasized to ensure consistency and fairness.

Public in attendance: Steve Kaufman, Debra Harris

Mr. Kaufman noted that clear, uniform criteria would likely require an ordinance amendment to reduce legal risk. A previously prepared memo outlining minor technical amendments to Chapter 55 was noted, including one substantive issue: the former five-year lookback provision applies to tree removal calculations but was not updated when the removal threshold changed to 33%. It was suggested this omission be addressed promptly. Additional clarification was discussed regarding whether dead trees are included in lookback and removal calculations, with consensus that this should be clearly defined. Remaining minor technical issues were deferred for staff review.

Debra Harris said the invasive species definition links to the DCNR invasive species fact sheets, and I think it should link the DCNR invasive plant list.

There was a short discussion and consensus was that there should be a workshop scheduled in the coming months to have a more detailed discussion.

PUBLIC COMMENT PERIOD: (none)

BOARD MEMBER COMMENTS: (none)

NEXT MEETING DATE: Tuesday, December 2

Mr. Fassbender said the next meeting is December 2, 2025.

ADJOURNMENT:

Ms. Kelly made a motion to adjourn the meeting. Mr. D'Amore seconded the motion. Motion carried unanimously. Meeting adjourned at 7:39 PM.



WHITEMARSH TOWNSHIP
APPLICATION FOR MINOR EARTH DISTURBANCE PERMIT and/or
REGULATED EARTH DISTURBANCE ACTIVITY

Date Filed: Date of Completed Application Accepted:

Property Owner: Green Valley Country Club

Address: 201 Ridge Pike, Lafayette Hill, Pa 19444

Phone #: 215-527-0525 Fax #: Email: harry.ginther@GreenValleyCC.org

Location of Property: Block: Unit(s):

Billing Address: 201 Ridge Pike, Lafayette Hill, Pa 19444

Phone #: 215-527-0525 Fax #: Email: harry.ginther@GreenValleyCC.org

Scope of Work: 2 Proposed PADEL Courts located at a practice green at the Golf Course

Does the proposed work affect any other property in any way?

[X] No [] Yes, please describe:

Application must be accompanied by two (2) copies of the plan, prepared in accordance with the requirements of Chapter 58 of the Township Code: Grading Erosion Control, Stormwater Management and Best Management Practices. Five (5) copies of the final plan must be submitted to the Township for final approval.

Details of the Proposed Work: Cubic Yards of fill/excavated materials:

Square Feet of new impervious coverage:

Square Feet of earth disturbance:

Date of Work to begin: Summer 2025 Date of Work to be completed: Winter 2025

Work being performed by: Sportcourt of Dr. Anthony Fittipaldi (if other than owner)

Phone #: 609-254-2914 Fax #: N/A Email: a.fittipaldi@sportcourtpa.com

All work to be in conformance with all applicable Whitemarsh Township Codes & Ordinances including any amendments thereto.

Signature of Applicant: Harry E. Ginther

Date: 3/5/25



Applicant Name: Harry Ginther

Development Name: Green Valley Country Club

Location of Property: 201 Ridge Pike, Lafayette Hill, Pa 19444

Date: _____

PROJECT COVER SHEET – *Approved at June 6, 2023 Shade Tree Commission Meeting*

To verify fulfillment of Chapter 55 Ordinance requirements for:

1. Maximum Tree Removal – 55-4B
2. Tree Replacement – 55-4D(6)(a)
3. Substitutions for Replacements – 55-4F
4. Replacement Tree Species – 55-4E
5. Tree and Shrub requirements for Chapters other than Chapter 55

Complete the following tables, filling in data for each lettered item, and resolving each Compliance Test. In accordance with 55-4C(4)(e), provide this completed Cover Sheet together with the Landscape Plan.

Citations to Sections of Chapter 55 are provided for the convenience of the Applicant. Other Chapters of the Whitemarsh Township Code and other sections of Chapter 55, such as 55-2 Definitions, may be relevant. In the event of an inconsistency between this Cover Sheet and any provision of the Code, the language of the Code shall be controlling.

1) Calculation of Requirement for Maximum Tree Removal – 55-4B:

| | | |
|----|---|------------------|
| A. | Total of all existing Trees on the lot with DBH of 6" or greater, per 55-4C(3)(a). | 54 within 100yds |
| B. | 33% of line (A) = maximum existing Trees which may be Removed. | 18 trees |
| C. | Provide number of existing Trees proposed to be Removed by the Applicant, per 55-4C(3)(a). | 0 trees |
| | COMPLIANCE TEST: If Line (C) is greater than Line (B), the Applicant's proposal is not in compliance with the requirement that no more than 33% of trees having a DBH of six inches or greater may be removed. | Passed Test |



2) Calculation of Replacement Requirement for Removed Trees having a DBH of Six Inches or Greater 55-4D(6)(a):

| | | |
|----|--|-----|
| D. | Total DBH of all existing Living and Healthy Trees (as determined per 55-4A) having a DBH of 6" or greater that are proposed to be Removed, per 55-4C(3)(a). | N/A |
| E. | Total DBH of all Living and Healthy Trees (as determined per 55-4A) having a DBH of 6" or greater, removed within five years prior to the submission of application, per 55-4C(3)(b). | N/A |
| F. | Sum of line (D) and line (E) = Total DBH that must be replaced for all Removed Living and Healthy Trees. | N/A |
| G. | Total Caliper inches of <u>Canopy Replacement Trees</u> proposed to be planted by the Applicant (as shown on the Landscape Plan) per 55-4D(6)(a). Each Canopy Replacement Tree shall have a minimum Caliper of three inches. | N/A |
| | COMPLIANCE TEST: If Line (G) is less than Line (F), the Applicant's proposal is not in compliance with the minimum Canopy Tree Replacement Requirement. To comply with this requirement, the Applicant may request a waiver from the Shade Tree Commission to permit limited substitutions per 55-4F. If so, proceed to Substitution calculation (3) below. | N/A |

3) Calculation of maximum Proposed Substitutions for Replacement Canopy Trees – 554E, subject to certain limitations and approval by the Shade Tree Commission.

| | | |
|----|---|-----|
| H. | 40% of line (F) (round fractions <u>down</u> to a whole number) = maximum Caliper of required Replacement Canopy Trees that may be substituted with Understory Trees and/or FIL, upon STC approval, per 55-4F. | N/A |
| I. | Line (F) less Line (G) = Shortfall in <u>DBH</u> compliance with the minimum Canopy Tree Replacement Requirement, per 55-4D(6)(a). | N/A |
| | COMPLIANCE TEST: If line (H) is less than line (I), the deficit of minimum Canopy Tree Replacement requirement, per 55-4D(6) cannot be fully compensated with Substitutions, per 55-4F. | N/A |



| | | |
|----|---|-----|
| J. | Line (I) divided by 3" (round fractions <u>up</u> to a whole number) = Shortfall in the <u>number</u> of required 3" Canopy Replacement Trees. | N/A |
| K. | Provide the total number of substitution Understory Trees proposed to be planted by the Applicant, per 55-4F(1). | N/A |
| L. | Line (K) divided by two = Number of required 3"-cal. Replacement Canopy Trees being substituted with Understory Trees per 55-4F(1). | N/A |
| M. | Line (J) less Line (L) = Number of required 3"-cal. Replacement Canopy Trees proposed by the Applicant to be substituted with payment of in-lieu fees , per 55-4F(2). NOTE: Review proposed Landscape Plan to ensure that the use of Replacement Understory Tree substitutes has been maximized prior to calculating the number of substitutes via in-lieu fees, per 55-4F(4). | N/A |
| N. | Sum of Line (L) and Line (M) = Total proposed number of Replacement Canopy Trees being substituted per 55-4F. | N/A |
| O. | Line (N) multiplied by 3" = Total shortfall of DBH to be fulfilled with substitutions as proposed by this Landscape Plan. | N/A |
| | COMPLIANCE TEST: If (O) is greater than (H), the Applicant's proposal has exceeded the 40% maximum eligible for consideration for Replacement substitutions, per 55-4F, and is not in compliance. | N/A |
| P. | Sum of Line (O) and (G) = Total Caliper compensation for Removed Trees as provided by this proposed Landscape Plan. | N/A |
| | COMPLIANCE TEST: If (P) is less than (F), the Applicant's proposal is not in compliance with the Tree Replacement Requirement. | N/A |

4) Compliance with Species Requirement of Replacement Trees – 55-4E:

| | | |
|----|---|-----|
| Q. | Total number of proposed Canopy Replacement Trees , per 55-4C(4)(c). | N/A |
|----|---|-----|



| | | |
|----|---|-----|
| R. | 75% of line (Q) (round fractions <u>up</u> to the next whole number) = Minimum required number of Native Species Replacement Canopy Trees, per 55-4E. | N/A |
| S. | Provide the number of proposed Native Species Canopy Replacement Trees, per 55-4C(4)(c). | N/A |
| | COMPLIANCE TEST: If Line (S) is less than Line (R), the Applicant's proposal is not in compliance with the 75% Native Species requirement for Replacement Canopy Trees, per 55-4E. | N/A |
| T. | Provide the number of proposed Native Species Understory Trees. | N/A |
| | COMPLIANCE TEST: If Line (T) is less than line (K), he Applicant's proposal is not in compliance with the 100% Native Species requirement for Replacement Understory Trees. | N/A |



5) Compliance with Landscaping Requirements of Other Code Chapters. Complete the following Tables for each applicable requirement.

REQUIRED TREES:

| A | B | C | D* | E | F** |
|---|---|------------------------|---|------------------------|--|
| Full Code Citation: Chapter; sub-chapter, etc. | Subject matter as indicated in Code caption | Required # of Trees | Credits for Preserved Trees per 55-4D(5) | Proposed # of Trees | Column (C) less Columns (D) and (E) |
| N/A | N/A | N/A | N/A | N/A | N/A |
| | | | | | |
| | | | | | |
| | | | | | |

***NOTE:** Column (D) Credits are strictly limited to calculating Chapter 105-52 Buffer yards, in accordance with 55-4D(5).

****NOTE:** When the result in Column (F) is greater than zero, the Applicant's proposal is not in compliance with the applicable Code requirement.

REQUIRED SHRUBS:

| A | B | C | D | E* |
|---|---|-------------------------|-------------------------|-------------------------------|
| Full Code Citation: Chapter; sub-chapter, etc. | Subject matter as indicated in Code caption | Required # of Shrubs | Proposed # of Shrubs | Column (C) less Column (D) |
| N/A | N/A | N/A | N/A | N/A |
| | | | | |



| | | | | |
|-----|-----|-----|-----|-----|
| N/A | N/A | N/A | N/A | N/A |
|-----|-----|-----|-----|-----|

***NOTE:** When the result in Column (E) is greater than zero, the Applicant's proposal is not in compliance with the applicable Code requirement.



Whitemarsh TOWNSHIP

616 GERMANTOWN PIKE - LAFAYETTE HILL, PA 19444-1821
TEL: 610-825-3535 FAX: 610-825-9416
www.whitemarsh township.org

BOARD of SUPERVISORS

Jacy Toll – Chair
Fran McCusker– Vice Chair
Vincent Manuele
Elizabeth Moy
Patrice Turenne

Craig T. McAnally
Township Manager

November 5, 2025

Green Valley Country Club
c/o Harry Ginther
201 Ridge Pike
Lafayette Hill, PA 19444

**RE: SLD# 01-25 (R1) / 201 Ridge Pike
Land Development Waiver Request for Pole Barn and Padel Courts
Zoning Ordinance Compliance Review Letter**

Dear Mr. Ginther:

Please accept this as a review of the Zoning Ordinance Compliance issues for your above referenced Land Development Waiver Request, based on plans prepared by Eustace Engineering dated April 11, 2025 with a revision date of September 12, 2025.

The plans propose to complete two separate projects. The first is to remove the existing 2,360-square foot barn and replace it with a 2,592-square foot pole barn. The second is to create two padel ball courts, impacting approximately 11,760 square feet of the property; a concrete walkway and shade areas are proposed in conjunction with the padel courts. The site is zoned A- Residential with a Recreational Overlay over the entire property. The Recreational Overlay District governs, given the property's recreational use.

Previous Plan Review

We reviewed the pole barn when it was submitted for a grading permit on November 8, 2024. On August 7, 2024, The Zoning Hearing Board (ZHB# 2024-33) granted a variance from §116-183.A(2) to allow the front yard setback requirement for the pole barn to be 75' from Germantown Pike, whereas 150' is required.

The original land development waiver request for the pole barn and padel courts was approved by the Board of Supervisors on April 10, 2025. The reason for this submission, for a revised land development waiver, is because the location of the padel courts has changed. Originally, the four outdoor tennis courts were to remain and the padel court installation was to be behind the set of three tennis courts. In the current submission, the one separate tennis court (fourth court) is proposed to be removed and replaced with the two padel courts. While the pole barn is still part of the plan, its location has not changed and it has received the necessary permits for its installation and has been installed. For details on its specific location and other plan details, please refer to earlier plans prepared by Eustace Engineering entitled, 'Grading Permit Plans; Green Valley Country Club – Pole Barn' dated November 7, 2024, revised April 18, 2025.

There are no zoning issues noted with the current submission for a Land Development Waiver Request; all zoning comments noted with the initial Land Development Waiver Request have been satisfactorily addressed.

Should you have any questions, please do not hesitate to contact me.

Very truly yours,



Charles L. Guttenplan, AICP
Director of Planning and Zoning/Zoning Officer

cc: Craig T. McAnally, Township Manager
Robert A. Sztubinski, B.C.O., Director of Building and Codes
Andrew Thomas, Township Fire Marshal
Sean P. Kilkenny, Esq., Township Solicitor
Krista Heinrich, P.E., Township Engineer
Darrell Campana, P.E., Applicant's Engineer

LAND DEVELOPMENT PLANS
GREEN VALLEY COUNTRY CLUB - PADEL COURTS
201 RIDGE PIKE, LAFAYETTE HILL, PA- WHITEMARSH TOWNSHIP

prepared for
GREEN VALLEY COUNTRY CLUB

prepared by



607 Easton Road
Building B - 2nd Floor
Willow Grove, PA 19090

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Fax: (215) 346-8759
www.eustaceeng.com

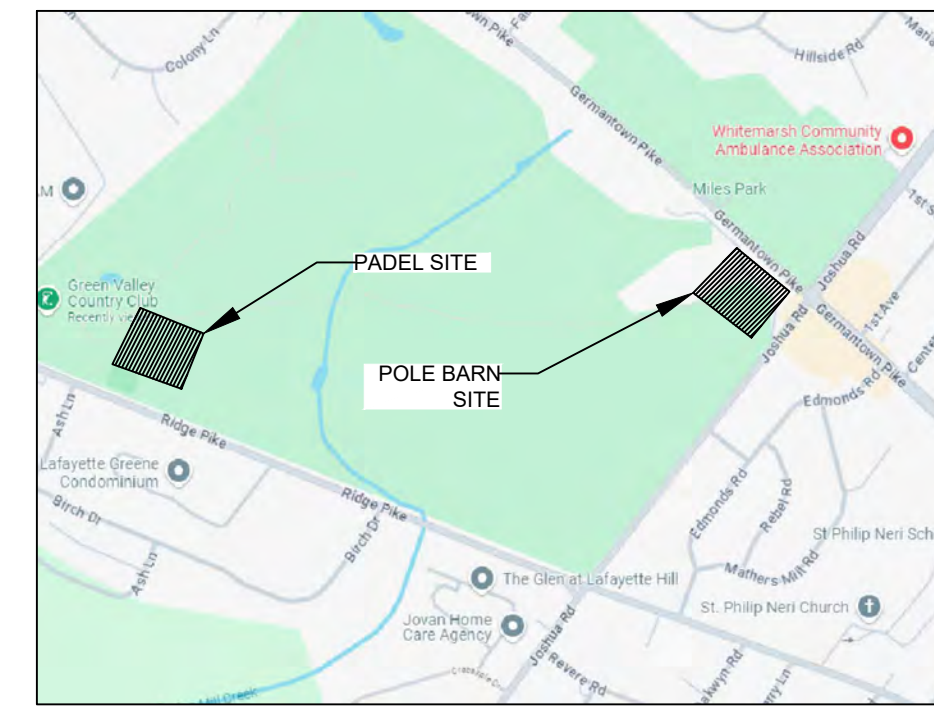
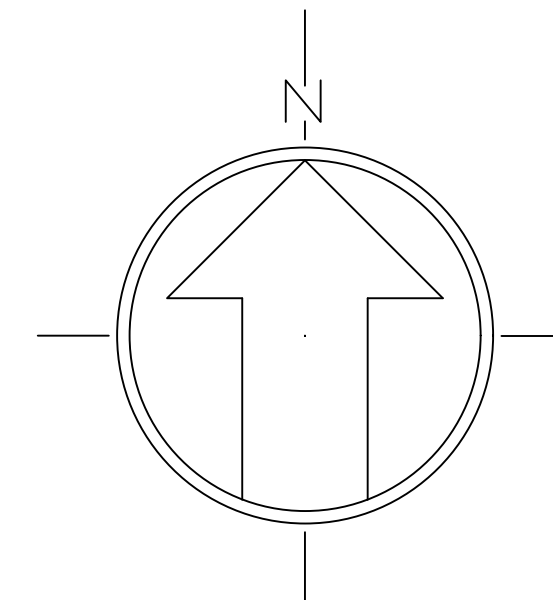
Received 12.4.25

| PLAN INDEX | | | | |
|--------------|-----------|---|----------|--------------|
| DRAWING NO. | SHEET NO. | NAME | DATE | LAST REVISED |
| D 2443 04 00 | 0 OF 10 | COVER SHEET | 04-11-25 | 11-08-25 |
| D 2443 04 01 | 1 OF 10 | OVERALL LOCATION MAP- PADEL & POLE BARN | 04-11-25 | 11-08-25 |
| D 2443 04 01 | 2 OF 10 | OVERALL EXISTING CONDITIONS PLAN | 04-11-25 | 11-08-25 |
| D 2443 04 02 | 3 OF 10 | EXISTING CONDITIONS & DEMOLITION PLAN | 04-11-25 | 11-08-25 |
| D 2443 04 03 | 4 OF 10 | GRADING & UTILITIES PLAN | 04-11-25 | 11-08-25 |
| D 2443 04 04 | 5 OF 10 | LAYOUT & MATERIALS PLAN | 04-11-25 | 11-08-25 |
| D 2443 04 05 | 6 OF 10 | EROSION & SEDIMENT CONTROL PLAN | 04-11-25 | 11-08-25 |
| D 2443 04 06 | 7 OF 10 | EROSION & SEDIMENT CONTROL DETAILS | 04-11-25 | 11-08-25 |
| D 2443 04 07 | 8 OF 10 | LANDSCAPE PLAN | 04-11-25 | 11-08-25 |
| D 2443 04 08 | 9 OF 10 | LANDSCAPE NOTES & DETAILS | 04-11-25 | 11-08-25 |
| D 2443 04 09 | 10 OF 10 | CONSTRUCTION DETAILS | 04-11-25 | 11-08-25 |

PROJECT NO. 2443-04

General Notes:

- Information shown hereon reflects existing conditions as of August 29, 2024 per a field survey performed by Eustace Engineering.
- This Plan does not represent a boundary survey and is subject to the findings that a boundary survey would reveal. Any right-of-way lines and tax parcel lines shown hereon are a graphic depiction only.
- This Plan was prepared in accordance with the instructions of the Client.
- This Plan was prepared without the benefit of a current Title Report. This property is subject to all easements, restrictions, and agreements of record as they may apply and any stated facts that a current Title Report would reveal.
- Future development of this property is subject to all rules, regulations, codes and ordinances of the Whitemarsh Township, Montgomery County, and the Commonwealth of Pennsylvania as they may apply.
- Attention is called to the Whitemarsh Township Zoning Code as amended.
- A building and/or zoning permit is required for any changes to the conditions that exist within this property.
- The subject property shown hereon may be traversed by various underground utilities and pipes. Utility information shown is a composite of information obtained from the Pennsylvania One Call System Serial Number 20243051347 and field locations by Eustace Engineering. The location of utility features and the feature information is only approximate and where information was readily available. All information is to be verified via a field markout and is subject to the findings that the markout and further research would reveal. Eustace Engineering does not guarantee that all subsurface utility structures and information are shown hereon.
- This property has access to Germantown Pike as shown hereon and is a public roadway.
- The permanent removal of topsoil from land within the Township is prohibited.



Location Map
Scale: 1" = 1000'

Legend

| | |
|--|--|
| | Property Line |
| | Existing Building |
| | Existing Building TBR |
| | Existing Asphalt Paving |
| | Existing Asphalt Paving TBR |
| | Existing Wall |
| | Existing Concrete |
| | Existing Fence |
| | Existing Fence TBR |
| | Existing Contour |
| | Existing Index Contour |
| | Existing Spot Grade |
| | Existing Sign |
| | Existing Light Pole |
| | Existing Utility Pole |
| | Existing Utility Valve |
| | Existing Manhole |
| | Existing Treenline |
| | Existing Evergreen Tree and Deciduous Tree |

SITE DATA:
Address: 201 RIDGE PIKE
LAFAYETTE HILL, PA. 19444
Zoned: A-RESIDENTIAL DISTRICT
(RECREATION DISTRICT OVERLAY)
Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

OWNER/APPLICANT:
GREEN VALLEY COUNTRY CLUB
201 RIDGE PIKE
LAFAYETTE HILL, PA. 19444

PARCEL INFORMATION:
Parcel ID: 65-00-09754-00-9

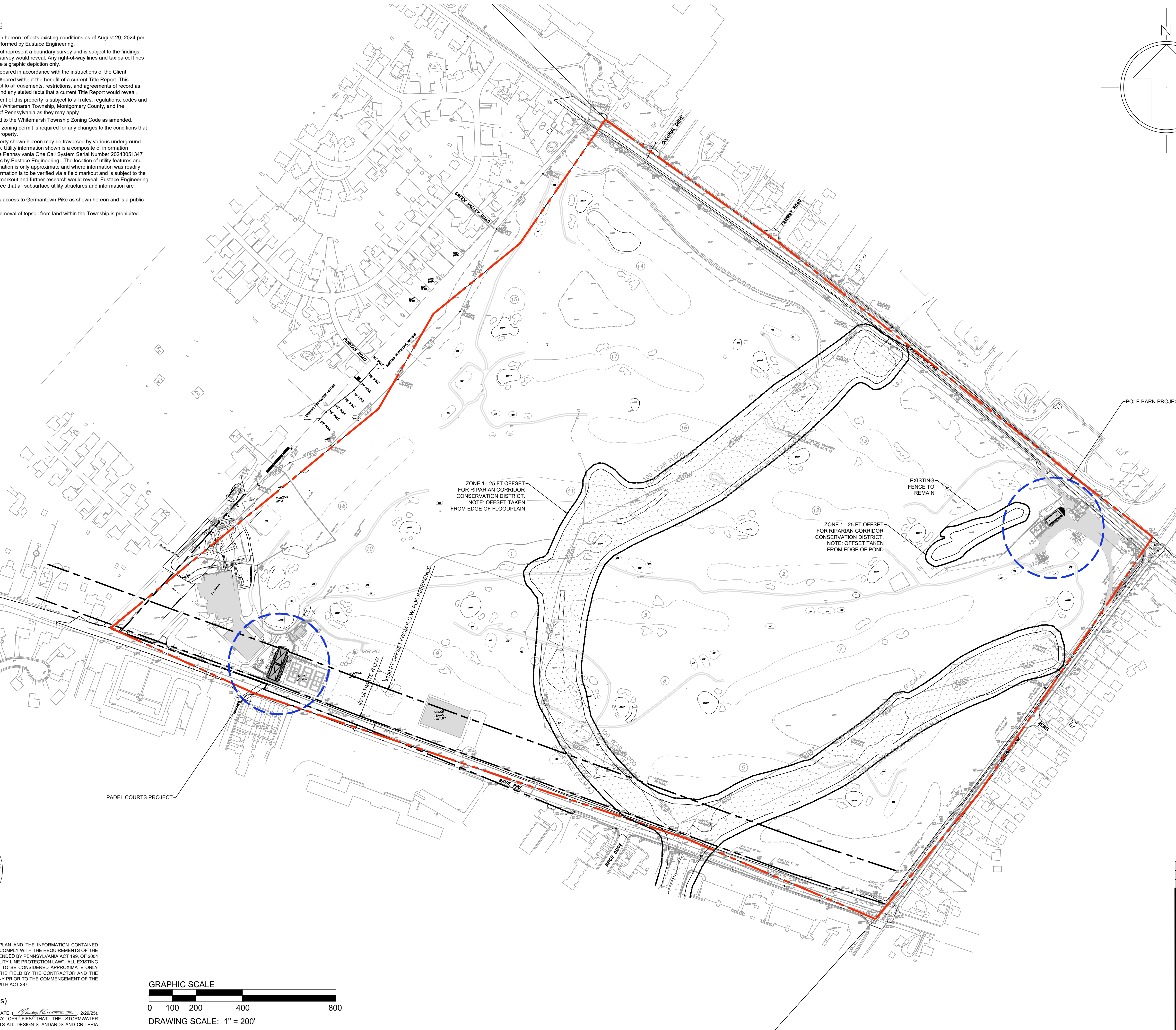
ZONING DATA:
A-RESIDENTIAL DISTRICT:
REQUIRED:
LOT AREA MIN. 15,000 SF
FRONT YARD MIN. 40'
SIDE YARD MIN. 15'; AGGR. 40'
REAR YARD MIN. 40'
LOT WIDTH MIN. 30'
BLDG. HEIGHT MAX. PRINCIPLE = 35' / ACCESSORY = 20'
BLDG. COVERAGE MAX. 20%

- NOTES:**
- SEE ZONING INFORMATION ON INDIVIDUAL PADEL AND POLE BARN PLANS FOR ZONING COMPLIANCE INFORMATION
 - THE ZONING HEARING BOARD IN ZHB #2024-33 GRANTED A VARIANCE FROM THE FRONT YARD SETBACK REQUIREMENT (ON AUG 7, 2024) SINCE THE PROPOSED POLE BARN IS CLOSER THAN 150' TO GERMANTOWN PIKE
 - RECREATIONAL DISTRICT OVERLAY DISTRICT GOVERNS THE PROPOSED DEVELOPMENT
 - THE RIPARIAN CORRIDOR CONSERVATION DISTRICT SHALL SERVE AS A SUPPLEMENT TO THE UNDERLYING DISTRICT PROVISIONS. FOR WETLANDS AND WATER BODIES, ZONE 1 SHALL BE A MINIMUM WIDTH OF 25 FEET FROM THE OUTER EDGE OF THE WETLAND OR WATER BODY, MEASURED PERPENDICULAR TO THE EDGE AND ZONE 2 DOES NOT APPLY.

| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

Overall Location Map- Padel & Pole Barn
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP

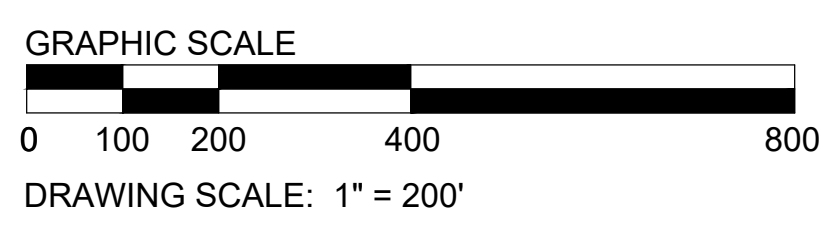
| | | | |
|--|--|-------------|-------------|
| | | DRAWN BY | DSC |
| | | CHECKED BY | MJE |
| Tel: (215) 348-8757 Fax: (215) 348-8759 www.eustaceeng.com | | DATE | 04-18-2025 |
| Martin J. Eustace, III, P.E. PA Lic. PE048891E | | DRAWING No. | D 2443-03 7 |



X:\PROJECTS\2400 - 24690\243104 - Green Valley Country Club Padel Ball\DRAWINGS\Land Development\09 d-Overall Location Map.dwg, September 12, 2025

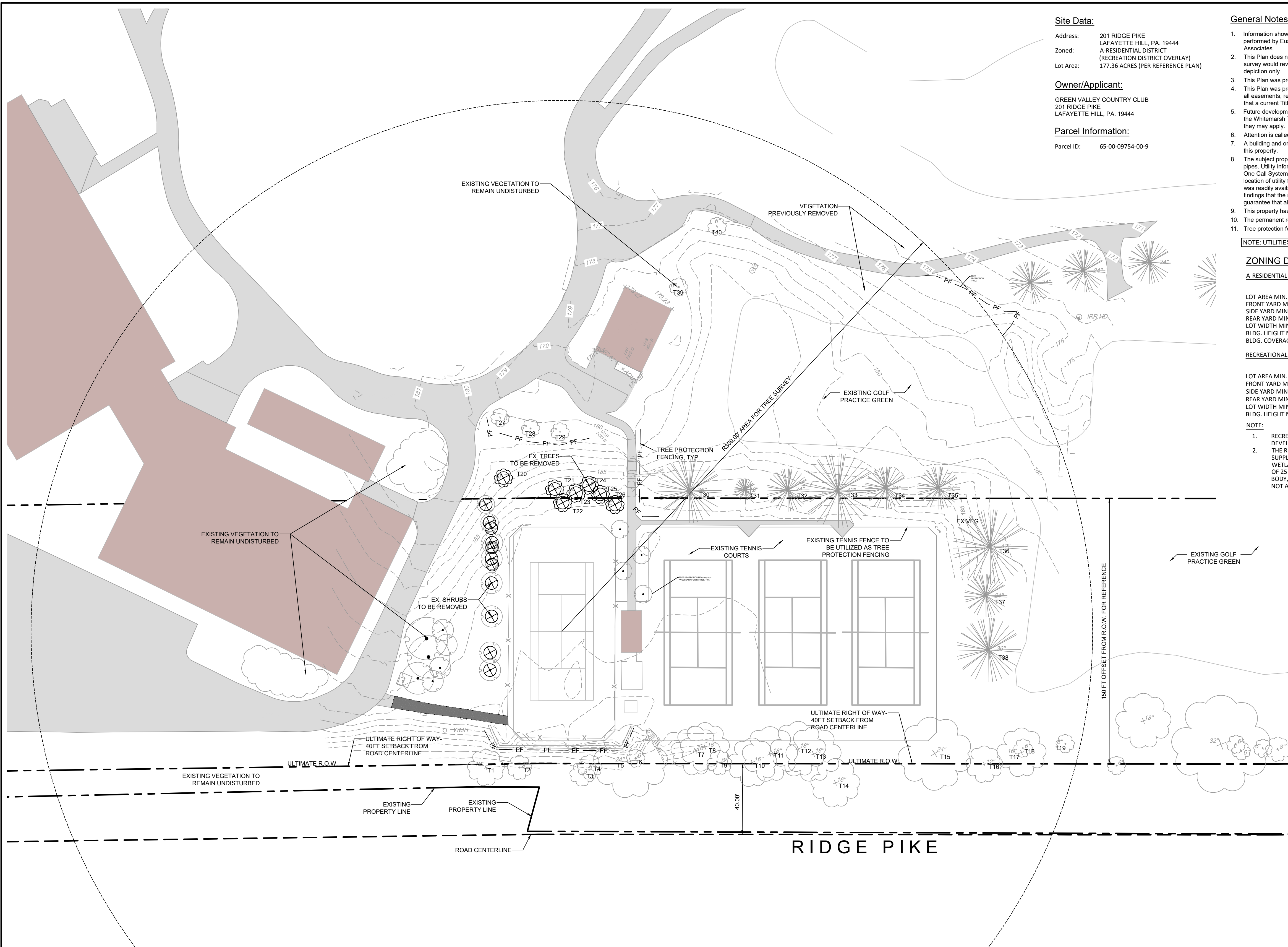


Act 287
ALL PARTIES UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF THE PENNSYLVANIA ACT 287 AS AMENDED BY PENNSYLVANIA ACT 199 OF 2004 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". ALL EXISTING UNDERGROUND UTILITIES ARE TO BE CONSIDERED APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY PRIOR TO THE COMMENCEMENT OF THE SITE WORK IN ACCORDANCE WITH ACT 287.



Section 58-17(A)(2)(s)
MARTIN EUSTACE, ON THIS DATE (04/18/2025), HAS REVIEWED AND HEREBY CERTIFIES THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF CHAPTER 58.
GRADING, EROSION CONTROL, STORMWATER MANAGEMENT AND BEST MANAGEMENT PRACTICES

X:\PROJECTS\2400 - 24699\243\04 - Green Valley Country Club Padel BallDRAWINGS\Land Development\01 4-existing conditions plan.dwg November 11, 2025



Site Data:
 Address: 201 RIDGE PIKE, LAFAYETTE HILL, PA. 19444
 Zoned: A-RESIDENTIAL DISTRICT (RECREATION DISTRICT OVERLAY)
 Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

Owner/Applicant:
 GREEN VALLEY COUNTRY CLUB
 201 RIDGE PIKE
 LAFAYETTE HILL, PA. 19444

Parcel Information:
 Parcel ID: 65-00-09754-00-9

General Notes:

- Information shown hereon reflects existing conditions as of August 29, 2024 per a field survey performed by Eustace engineering and supplemental Lidar information from Chambers and Associates.
- This Plan does not represent a boundary survey and is subject to the findings that a boundary survey would reveal. Any right-of-way lines and tax parcel lines shown hereon are a graphic depiction only.
- This Plan was prepared in accordance with the instructions of the Client.
- This Plan was prepared without the benefit of a current Title Report. This property is subject to all easements, restrictions, and agreements of record as they may apply and any stated facts that a current Title Report would reveal.
- Future development of this property is subject to all rules, regulations, codes and ordinances of the Whitemarsh Township, Montgomery County, and the Commonwealth of Pennsylvania as they may apply.
- Attention is called to the Whitemarsh Township Zoning Code as amended.
- A building and/or zoning permit is required for any changes to the conditions that exist within this property.
- The subject property shown hereon may be traversed by various underground utilities and pipes. Utility information shown is a composite of information obtained from the Pennsylvania One Call System Serial Number 20243051347 and field locations by Eustace Engineering. The location of utility features and the feature information is only approximate and where information was readily available. All information is to be verified via a field markout and is subject to the findings that the markout and further research would reveal. Eustace Engineering does not guarantee that all subsurface utility structures and information are shown hereon.
- This property has access to Ridge Pike as shown hereon and is a public roadway.
- The permanent removal of topsoil from land within the Township is prohibited.
- Tree protection fencing must be installed prior to the start of any work product.

NOTE: UTILITIES IN PROJECT AREA ARE TO BE REMOVED OR RELOCATED AS NEEDED.

ZONING DATA:

A-RESIDENTIAL DISTRICT:

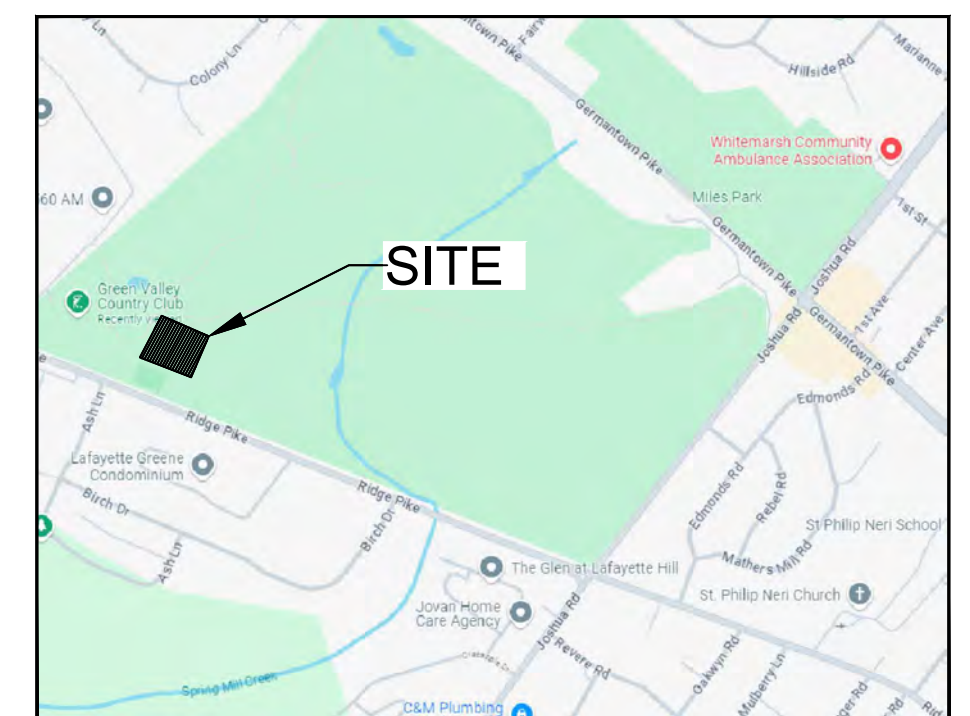
| | |
|---------------------|-----------------------------------|
| REQUIRED: | 15,000 SF |
| LOT AREA MIN. | 40' |
| FRONT YARD MIN. | 15'; AGGR. 40' |
| SIDE YARD MIN. | 40' |
| REAR YARD MIN. | 90' |
| LOT WIDTH MIN. | PRINCIPLE = 35' / ACCESSORY = 20' |
| BLDG. HEIGHT MAX. | 20% |
| BLDG. COVERAGE MAX. | |

RECREATIONAL DISTRICT OVERLAY SECTION 116-177:

| | | |
|-------------------|-----------|-----------|
| REQUIRED: | EXISTING: | PROVIDED: |
| LOT AREA MIN. | 60 AC | 177.36 AC |
| FRONT YARD MIN. | 150' | N/A |
| SIDE YARD MIN. | 100' | N/A |
| REAR YARD MIN. | 100' | N/A |
| LOT WIDTH MIN. | 500' | 3,388' |
| BLDG. HEIGHT MAX. | 40' | N/A |

NOTE:

- RECREATIONAL DISTRICT OVERLAY DISTRICT GOVERNS THE PROPOSED DEVELOPMENT.
- THE RIPARIAN CORRIDOR CONSERVATION DISTRICT SHALL SERVE AS A SUPPLEMENT TO THE UNDERLYING DISTRICT PROVISIONS. FOR WETLANDS AND WATER BODIES, ZONE 1 SHALL BE A MINIMUM WIDTH OF 25 FEET FROM THE OUTER EDGE OF THE WETLAND OR WATER BODY, MEASURED PERPENDICULAR TO THE EDGE AND ZONE 2 DOES NOT APPLY. SEE OVERALL LOCATION MAP.



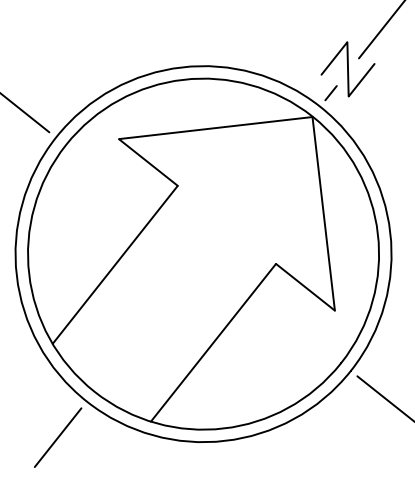
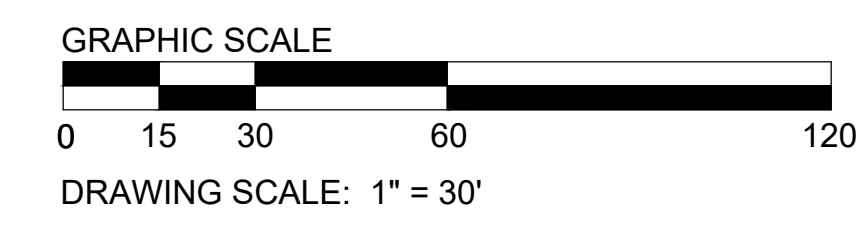
Location Map
Scale: 1" = 1000'

Legend

| | |
|--|--|
| | Property Line |
| | Right-of-Way Line |
| | Setback Line |
| | Existing Building |
| | Existing Asphalt Paving |
| | Existing Curb |
| | Existing Concrete |
| | Existing Brick Paving |
| | Existing Contour |
| | Existing Index Contour |
| | Existing Spot Grade |
| | Existing Sign |
| | Existing Light Pole |
| | Existing Utility Pole |
| | Existing Utility Valve |
| | Existing Manhole |
| | Existing Treeline |
| | Existing Evergreen Tree and Deciduous Tree |
| | Existing Shrub |
| | Existing Storm Line |

Existing Tree Inventory

| No. | Size (in): | Notes: | Species: | No. | Size (in): | Notes: | Species: | No. | Size (in): | Notes: | Species: |
|-----|------------|-----------|--------------------|-----|------------|-----------|-------------------------------|-----|------------|-----------|---------------------------|
| 1 | 12 | To Remain | Acer saccharum | 19 | 6 | To Remain | Acer saccharum | 37 | 24 | To Remain | Pinus strobus |
| 2 | 8 | To Remain | Acer saccharum | 20 | 6 | TBR | Cercis canadensis | 38 | 36 | To Remain | Pinus strobus |
| 3 | 8 | To Remain | Acer saccharum | 21 | 6 | TBR | Viburnum dentatum | 39 | 6 | To Remain | Lagerstroemia indica |
| 4 | 8 | To Remain | Acer saccharum | 22 | 6 | TBR | Viburnum dentatum | 40 | 6 | To Remain | Prunus serotina 'Kwanzan' |
| 5 | 24 | To Remain | Fraxinus americana | 23 | 6 | TBR | Viburnum dentatum | | | | |
| 6 | 6 | To Remain | Fraxinus americana | 24 | 6 | TBR | Viburnum dentatum | | | | |
| 7 | 16 | To Remain | Maclura pomifera | 25 | 6 | TBR | Viburnum dentatum | | | | |
| 8 | 16 | To Remain | Maclura pomifera | 26 | 6 | TBR | Viburnum dentatum | | | | |
| 9 | 8 | To Remain | Acer saccharum | 27 | 6 | To Remain | Acer tataricum subsp. Ginnala | | | | |
| 10 | 16 | To Remain | Maclura pomifera | 28 | 6 | To Remain | Acer tataricum subsp. Ginnala | | | | |
| 11 | 18 | To Remain | Maclura pomifera | 29 | 6 | To Remain | Acer tataricum subsp. Ginnala | | | | |
| 12 | 18 | To Remain | Maclura pomifera | 30 | 36 | To Remain | Pinus strobus | | | | |
| 13 | 18 | To Remain | Maclura pomifera | 31 | 12 | To Remain | Flocea | | | | |
| 14 | 16 | To Remain | Maclura pomifera | 32 | 24 | To Remain | Pinus strobus | | | | |
| 15 | 24 | To Remain | Fraxinus americana | 33 | 42 | To Remain | Pinus strobus | | | | |
| 16 | 12 | To Remain | Acer saccharum | 34 | 24 | To Remain | Pinus strobus | | | | |
| 17 | 16 | To Remain | Acer saccharum | 35 | 24 | To Remain | Pinus strobus | | | | |
| 18 | 6 | To Remain | Acer saccharum | 36 | 42 | To Remain | Pinus strobus | | | | |



Act 287
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Section 58-17(A)(2)(s)
 MARTIN EUSTACE, ON THIS DATE (11/11/2025), HAS REVIEWED AND HEREBY CERTIFIES THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF CHAPTER 58.
 GRADING, EROSION CONTROL, STORMWATER MANAGEMENT AND BEST MANAGEMENT PRACTICES

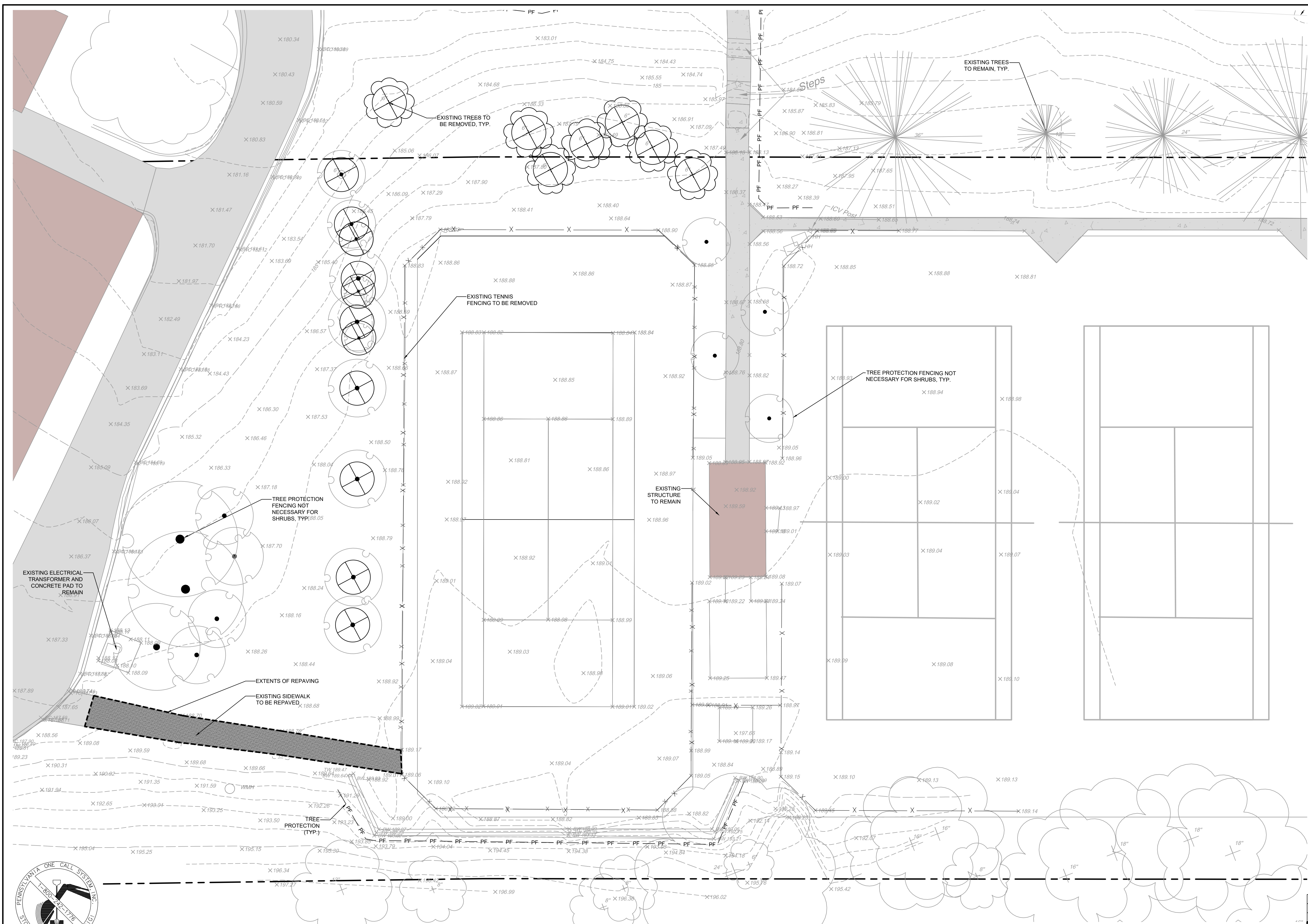
Overall Ex Conditions Plan
GREEN VALLEY COUNTRY CLUB PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP

EUSTACE
 ENGINEERS | LANDSCAPE ARCHITECTS | SURVEYORS

MARTIN J. EUSTACE, III, P.E.
 307 Easton Road
 Building B - 2nd Floor
 Willow Grove, PA 19090
 Tel: (215) 346-8757
 Fax: (215) 346-8759
 www.eustaceeng.com

DRAWN BY: DSC
 CHECKED BY: MJE
 DATE: 04-11-2025
 DRAWING No: D 2443-04 01

X:\PROJECTS\2400 - 24690\243104 - Green Valley Country Club Padel Drawings\Land Development\01 Existing Conditions plan.dwg November 11, 2025



Location Map
Scale: 1" = 1000'

Legend

| | |
|--|--|
| | Property Line |
| | Right-of-Way Line |
| | Setback Line |
| | Existing Building |
| | Existing Asphalt Paving |
| | Existing Curb |
| | Existing Concrete |
| | Existing Brick Paving |
| | Existing Contour |
| | Existing Index Contour |
| | Existing Spot Grade |
| | Existing Sign |
| | Existing Light Pole |
| | Existing Utility Pole |
| | Existing Utility Valve |
| | Existing Manhole |
| | Existing Treeline |
| | Existing Evergreen Tree and Deciduous Tree |
| | Existing Shrub |
| | Existing Storm Line |

NOTE: UTILITIES IN PROJECT AREA ARE TO BE REMOVED OR RELOCATED AS NEEDED.

Site Data:
 Address: 201 RIDGE PIKE
 LAFAYETTE HILL, PA. 19444
 Zoned: A-RESIDENTIAL DISTRICT (RECREATION DISTRICT OVERLAY)
 Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

Owner/Applicant:
 GREEN VALLEY COUNTRY CLUB
 201 RIDGE PIKE
 LAFAYETTE HILL, PA. 19444

Parcel Information:
 Parcel ID: 65-00-09754-00-9

ZONING DATA:
 A-RESIDENTIAL DISTRICT:

| | | | |
|---------------------|-----------------------------------|-----------|-----------------------------------|
| LOT AREA MIN. | 15,000 SF | REQUIRED: | 15,000 SF |
| FRONT YARD MIN. | 40' | REQUIRED: | 40' |
| SIDE YARD MIN. | 15' AGGR. 40' | REQUIRED: | 15' AGGR. 40' |
| REAR YARD MIN. | 40' | REQUIRED: | 40' |
| LOT WIDTH MIN. | 90' | REQUIRED: | 90' |
| BLDG. HEIGHT MAX. | PRINCIPLE = 35' / ACCESSORY = 20' | REQUIRED: | PRINCIPLE = 35' / ACCESSORY = 20' |
| BLDG. COVERAGE MAX. | 20% | REQUIRED: | 20% |

RECREATIONAL DISTRICT OVERLAY SECTION 116-177:

| | | | | | | | |
|-------------------|-------|-----------|-------|-----------|-----------|-----------|-----------|
| LOT AREA MIN. | 60 AC | REQUIRED: | 60 AC | EXISTING: | 177.36 AC | PROVIDED: | 177.36 AC |
| FRONT YARD MIN. | 150' | REQUIRED: | 150' | EXISTING: | N/A | PROVIDED: | N/A |
| SIDE YARD MIN. | 100' | REQUIRED: | 100' | EXISTING: | N/A | PROVIDED: | N/A |
| REAR YARD MIN. | 100' | REQUIRED: | 100' | EXISTING: | N/A | PROVIDED: | N/A |
| LOT WIDTH MIN. | 500' | REQUIRED: | 500' | EXISTING: | 3.388' | PROVIDED: | 3.388' |
| BLDG. HEIGHT MAX. | 40' | REQUIRED: | 40' | EXISTING: | N/A | PROVIDED: | N/A |

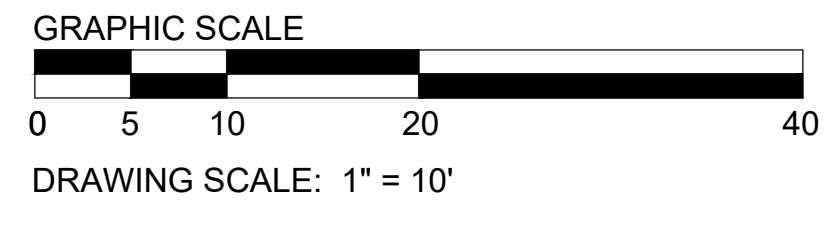
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| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |



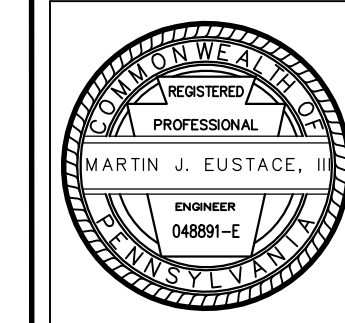
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 - This property has access to Germantown Pike as shown hereon and is a public roadway.
 - The permanent removal of topsoil from land within the Township is prohibited.
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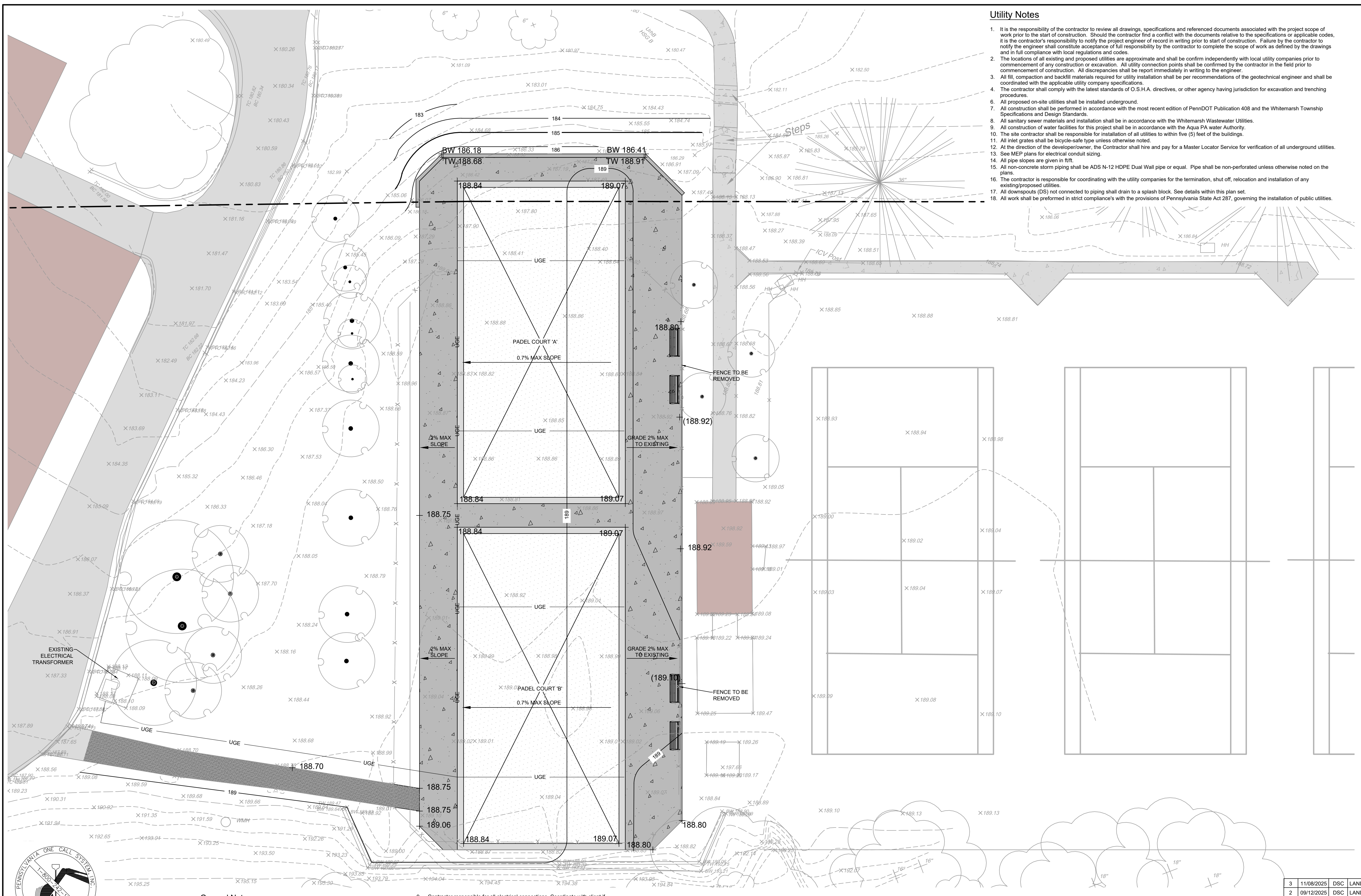
Existing Conditions & Demolition Plan
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP



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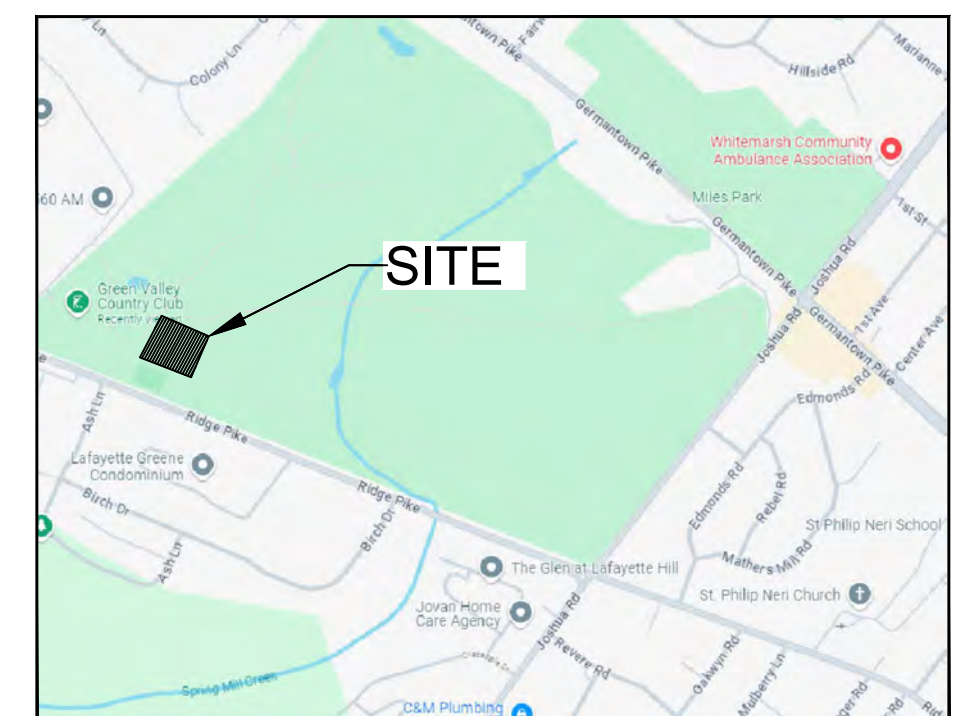
DRAWN BY: DSC
CHECKED BY: MJE
DATE: 04-11-2025
DRAWING No.: D 2443-04 02

X:\PROJECTS\2400 - 24699\24\3104 - Green Valley Country Club Padel Drawings\Land Development\02 d-Grading & Utilities plan.dwg September 25, 2025



Utility Notes

- It is the responsibility of the contractor to review all drawings, specifications and referenced documents associated with the project scope of work prior to the start of construction. Should the contractor find a conflict with the documents relative to the specifications or applicable codes, it is the contractor's responsibility to notify the project engineer of record in writing prior to start of construction. Failure by the contractor to notify the engineer shall constitute acceptance of full responsibility by the contractor to complete the scope of work as defined by the drawings and in full compliance with local regulations and codes.
- The locations of all existing and proposed utilities are approximate and shall be confirmed independently with local utility companies prior to commencement of any construction or excavation. All utility connection points shall be confirmed by the contractor in the field prior to commencement of construction. All discrepancies shall be reported immediately in writing to the engineer.
- All fill, compaction and backfill materials required for utility installation shall be per recommendations of the geotechnical engineer and shall be coordinated with the applicable utility company specifications.
- The contractor shall comply with the latest standards of O.S.H.A. directives, or other agency having jurisdiction for excavation and trenching procedures.
- All proposed on-site utilities shall be installed underground.
- All construction shall be performed in accordance with the most recent edition of PennDOT Publication 408 and the Whitmarsh Township Specifications and Design Standards.
- All sanitary sewer materials and installation shall be in accordance with the Whitmarsh Wastewater Utilities.
- All construction of water facilities for this project shall be in accordance with the Aqua PA water Authority.
- The site contractor shall be responsible for installation of all utilities to within five (5) feet of the buildings.
- All inlet grates shall be bicycle-safe type unless otherwise noted.
- At the direction of the developer/owner, the Contractor shall hire and pay for a Master Locator Service for verification of all underground utilities.
- See MEP plans for electrical conduit sizing.
- All pipe slopes are given in ft/ft.
- All non-concrete storm piping shall be ADS N-12 HDPE Dual Wall pipe or equal. Pipe shall be non-perforated unless otherwise noted on the plans.
- The contractor is responsible for coordinating with the utility companies for the termination, shut off, relocation and installation of any existing/proposed utilities.
- All downspouts (DS) not connected to piping shall drain to a splash block. See details within this plan set.
- All work shall be performed in strict compliance with the provisions of Pennsylvania State Act 287, governing the installation of public utilities.



Location Map
Scale: 1" = 100'

Legend

- Existing Building
- Existing Asphalt Paving
- Existing Concrete
- Existing Brick Paving
- Existing Contour
- Existing Index Contour
- Existing Sign
- Existing Treeline
- Existing Evergreen Tree and Deciduous Tree
- Proposed Sidewalk
- Proposed Asphalt
- Proposed Contour
- Proposed Index Contour
- Proposed Spot Grade
- Soil Boundary
- Proposed Electric Line
- Proposed Landscape area
- Proposed Padel Court
- Proposed Trees & Shrubs
- Existing Shrub

Site Data:

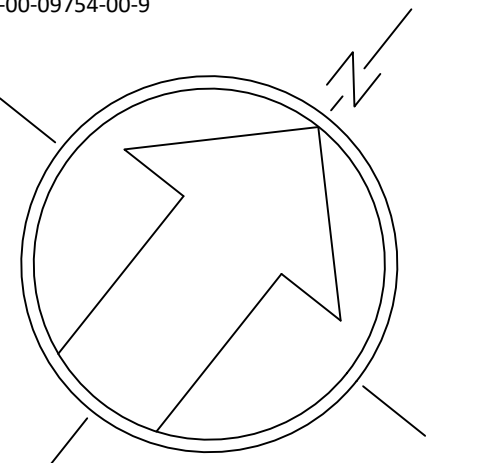
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LAFAYETTE HILL, PA 19444
Zoned: A-RESIDENTIAL DISTRICT
(RECREATION DISTRICT OVERLAY)
Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

Owner/Applicant:

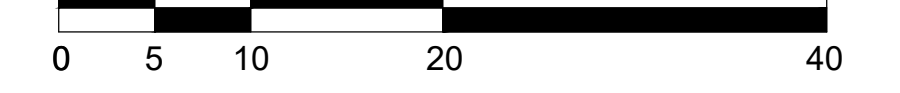
GREEN VALLEY COUNTRY CLUB
201 RIDGE PIKE
LAFAYETTE HILL, PA 19444

Parcel Information:

Parcel ID: 65-00-09754-00-9



GRAPHIC SCALE



DRAWING SCALE: 1" = 10'

General Notes:

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- A building and/or zoning permit is required for any changes to the conditions that exist within this property.
- The subject property shown hereon may be traversed by various underground utilities and pipes. Utility information shown is a composite of information obtained from the Pennsylvania One Call System Serial Number: 20243051401 and field locations by Eustace Engineering. The location of utility features and the feature information is only approximate and where information was readily available. All information is to be verified via a field mark and is subject to the findings that the markout and further research would reveal. Eustace Engineering does not guarantee that all subsurface utility structures and information are shown hereon.
- Contractor responsible for all electrical connections. Coordinate with client if proposed electrical connection does not meet requirements.
- This property has access to Ridge Pike as shown hereon and is a public roadway.
- Existing features on adjoining properties and roadways are shown in limited detail. If future development of this warrants the involvement of adjoining properties and roadways, additional details may have to be obtained within those areas.
- Precision of information when originally established and typographical errors in legal documentation may result in fractional difference between what is shown on this plan and the recorded information.

| ZONING DATA TABLE | | | |
|---------------------------|--|---|-----------|
| DESCRIPTION | REQUIRED | EXISTING | PROPOSED |
| WHITMARSH TOWNSHIP | | | |
| USE DESCRIPTION | ZONING DISTRICT - A - RESIDENTIAL | RECREATIONAL DISTRICT OVERLAY SECTION 116-177 | |
| LOT AREA | 60 AC MIN | 177.36 AC | No Change |
| LOT WIDTH | 500 FT MIN | 3388 FT | No Change |
| FRONT YARD | 150 FT MIN | 51.79 FT * | No Change |
| SIDE YARD | 100 FT MIN | 101.34 FT | No Change |
| REAR YARD | 100 FT MIN | 358.34 FT | No Change |
| MAXIMUM BUILDING COVERAGE | 20% | | No Change |
| MAXIMUM BUILDING HEIGHT | 40 FT | NA | No Change |
| PARKING REQUIREMENT | 1 SPACE / 4 PEOPLE OF TOTAL CAPACITY +1 PER EMPLOYEE | | No Change |

| ZONING DATA TABLE | |
|---------------------------|-------------------------------------|
| DESCRIPTION | REQUIRED |
| WHITMARSH TOWNSHIP | |
| USE DESCRIPTION | SINGLE FAMILY |
| LOT AREA | 15,000 S.F. |
| LOT WIDTH | 90 FT MIN |
| FRONT YARD | 40 FT MIN |
| SIDE YARD | 15 FT MIN / AGGR. 40 FT |
| REAR YARD | 40 FT MIN |
| MAXIMUM BUILDING COVERAGE | 20% |
| MAXIMUM BUILDING HEIGHT | PRINCIPAL = 35 FT / ACCESSORY 35 FT |

NOTE: UTILITIES IN PROJECT AREA ARE TO BE REMOVED OR RELOCATED AS NEEDED.

PROPOSED CONCRETE AREA = 3,209 S.F.
PROPOSED PADEL BALL COURTS = 4,850 S.F.
INCREASE IN IMPERVIOUS COVERAGE = 1,389 S.F.

| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

Grading & Utilities Plan
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITMARSH TOWNSHIP

EUSTACE
ENGINEERS | LANDSCAPE ARCHITECTS | SURVEYORS

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PA Lic. PE048991E

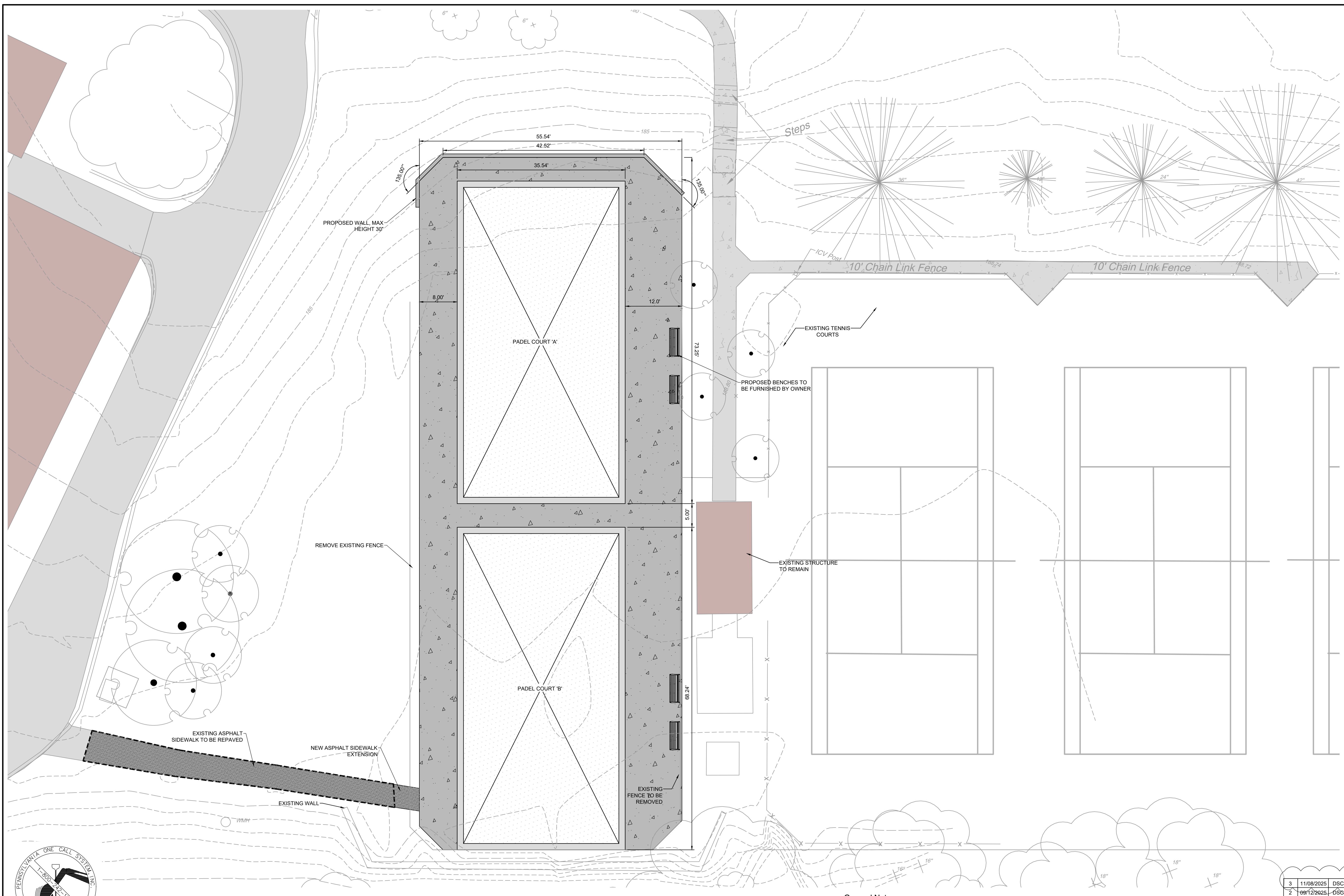
DRAWN BY: DSC
CHECKED BY: MJE
DATE: 04-11-2025
DRAWING No: D2443-04-03



Act 287
ALL PARTIES UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF THE PENNSYLVANIA ACT 287 AS AMENDED BY PENNSYLVANIA ACT 199 OF 2004 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". ALL EXISTING UNDERGROUND UTILITIES ARE TO BE CONSIDERED APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY PRIOR TO THE COMMENCEMENT OF THE SITE WORK IN ACCORDANCE WITH ACT 287.

Section 58-17(A)(2)(s)
MARTIN EUSTACE, ON THIS DATE (09/11/2025) (2/29/25), HAS REVIEWED AND HEREBY CERTIFIES THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF CHAPTER 58 "GRADING, EROSION CONTROL, STORMWATER MANAGEMENT AND BEST MANAGEMENT PRACTICES".

X:\PROJECTS\2400 - 2469\243\04 - Green Valley Country Club Padel DRAWINGS\Land Development\03 d-Layout & Materials plan.dwg September 25, 2025



Location Map
Scale: 1" = 1000'

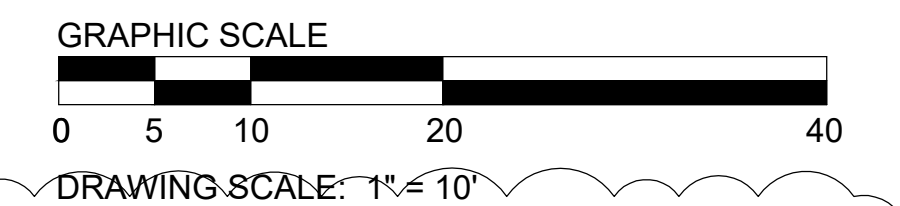
Legend

| | |
|--|--|
| | Existing Building |
| | Existing Asphalt Paving |
| | Existing Concrete |
| | Existing Brick Paving |
| | Existing Contour |
| | Existing Index Contour |
| | Existing Sign |
| | Existing Treeline |
| | Existing Evergreen Tree and Deciduous Tree |
| | Proposed Sidewalk |
| | Proposed Asphalt |
| | Proposed Contour |
| | Proposed Index Contour |
| | Proposed Spot Grade |
| | Soil Boundary |
| | Proposed Electric Line |
| | Proposed Landscape area |

Site Data:
 Address: 201 RIDGE PIKE
 LAFAYETTE HILL, PA. 19444
 Zoned: A-RESIDENTIAL DISTRICT (RECREATION DISTRICT OVERLAY)
 Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

Owner/Applicant:
 GREEN VALLEY COUNTRY CLUB
 201 RIDGE PIKE
 LAFAYETTE HILL, PA. 19444

Parcel Information:
 Parcel ID: 65-00-09754-00-9



Act 287
 ALL PARTIES UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF THE PENNSYLVANIA ACT 287 AS AMENDED BY PENNSYLVANIA ACT 199 OF 2004 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". ALL EXISTING UNDERGROUND UTILITIES ARE TO BE CONSIDERED APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY PRIOR TO THE COMMENCEMENT OF THE SITE WORK IN ACCORDANCE WITH ACT 287.

Section 58-17(A)(2)(s)
 MARTIN EUSTACE, ON THIS DATE (2/29/25), HAS REVIEWED AND HEREBY CERTIFIES THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF CHAPTER 58.
 GRADING, EROSION CONTROL, STORMWATER MANAGEMENT AND BEST MANAGEMENT PRACTICES

General Notes:

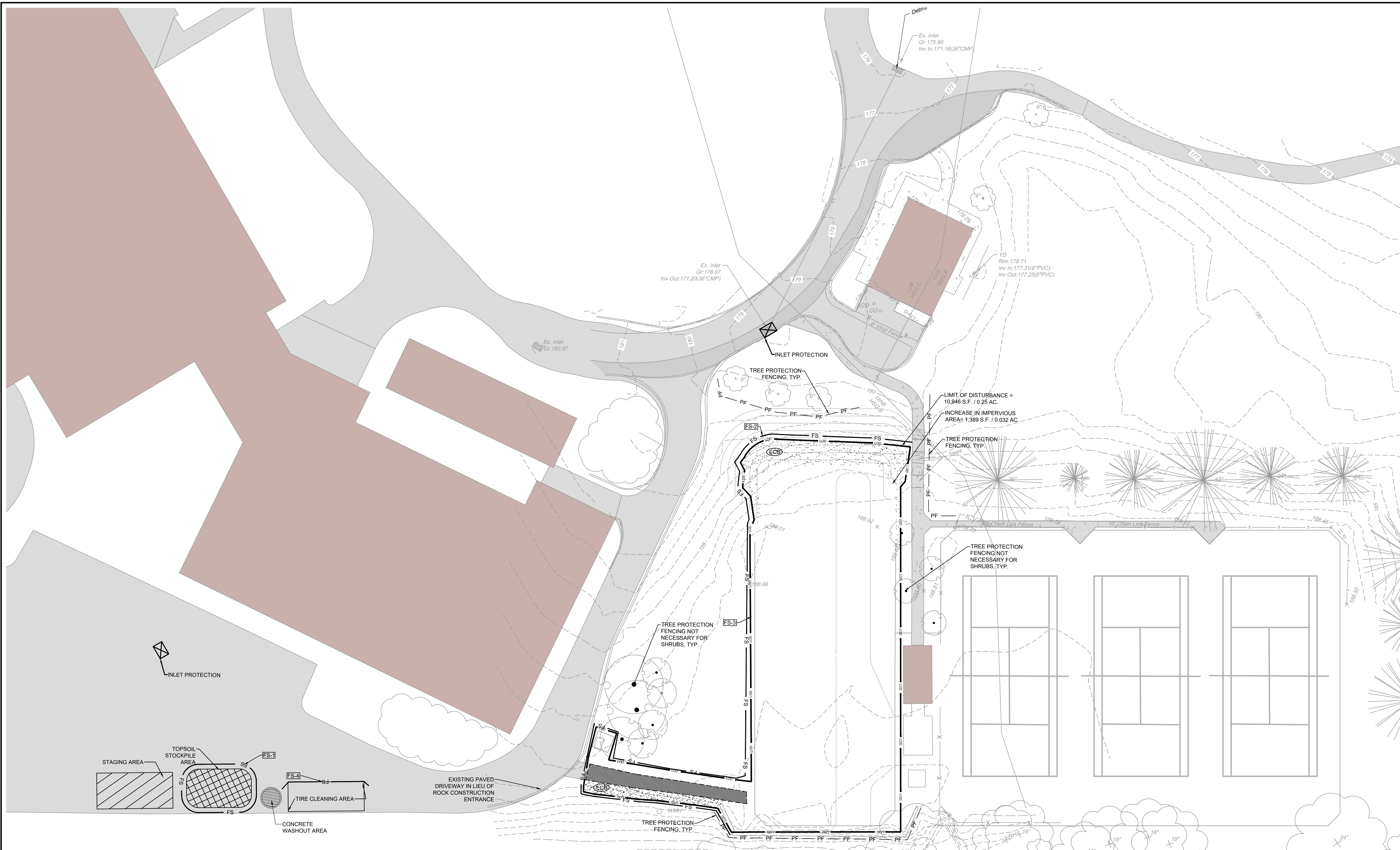
- Information shown hereon reflects existing conditions as of August 29, 2024 per a field survey performed by Eustace Engineering.
- This Plan does not represent a boundary survey and is subject to the findings that a boundary survey would reveal. Any right-of-way lines and tax parcel lines shown hereon are a graphic depiction only.
- This Plan was prepared in accordance with the instructions of the Client.
- This Plan was prepared without the benefit of a current Title Report. This property is subject to all easements, restrictions, and agreements of record as they may apply and any stated facts that a current Title Report would reveal.
- Future development of this property is subject to all rules, regulations, codes and ordinances of the Whitmarsh Township, Montgomery County, and the Commonwealth of Pennsylvania as they may apply.
- Attention is called to the Whitmarsh Township Zoning Code as amended.
- A building and/or zoning permit is required for any changes to the conditions that exist within this property.
- The subject property shown hereon may be traversed by various underground utilities and pipes. Utility information shown is a composite of information obtained from the Pennsylvania One Call System Serial Number 20243051401 and field locations by Eustace Engineering. The location of utility features and the feature information is only approximate and where information was readily available. All information is to be verified via a field markout and is subject to the findings that the markout and further research would reveal. Eustace Engineering does not guarantee that all subsurface utility structures and information are shown hereon.
- This plan may not depict the location of all in-ground interment sites within the area shown hereon. In-ground interment sites may exist within this area and were not visible at the time of the survey. It is the end user's responsibility to coordinate all site activity with the property owner to avoid conflicts.
- This property has access to Germantown Pike as shown hereon and is a public roadway.
- Existing features on adjoining properties and roadways are shown in limited detail. If future development of this warrants the involvement of adjoining properties and roadways, additional details may have to be obtained within those areas.
- Precision of information when originally established and typographical errors in legal documentation may result in fractional difference between what is shown on this plan and the recorded information.
- In the event that existing fence being relocated is damaged, contractor to notify Owner / Landscape Architect and provide new fencing to match existing fencing. In the event that new fencing for the entire project is needed, please contact Owner / Landscape Architect.

| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

Layout & Materials Plan
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITMARSH TOWNSHIP

| | | |
|---|--|----------------------------------|
| | | DRAWN BY: DSC |
| 307 Easton Road Building B - 2nd Floor Willow Grove, PA 19090 Tel: (215) 348-8757 Fax: (215) 348-8759 www.eustaceeng.com | | CHECKED BY: MJE |
| Martin J. Eustace, III, P.E. PA Lic. PE048891E | | DATE: 04-11-2025 |
| | | DRAWING No.: D 2443-04-04 |

X:\PROJECTS\2400 - 2469\2443\04 - Green Valley Country Club Padel Building\DRAWINGS\Land Development\04-erosion control plan.dwg September 25, 2025



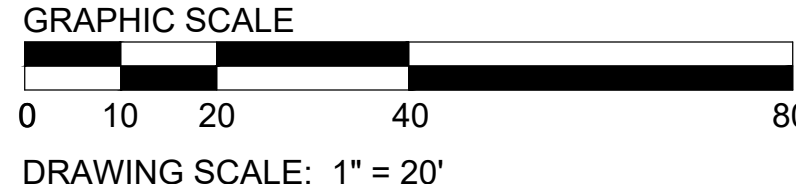
Location Map
Scale: 1" = 1000'

- Legend**
- Property Line
 - Right-of-Way Line
 - Setback Line
 - Existing Building
 - Existing Asphalt Paving
 - Existing Curb
 - Existing Concrete
 - Existing Brick Paving
 - Existing Contour
 - Existing Index Contour
 - Existing Spot Grade
 - Existing Sign
 - Existing Light Pole
 - Existing Utility Pole
 - Existing Utility Valve
 - Existing Manhole
 - Existing Tree Line
 - Existing Evergreen Tree and Deciduous Tree
 - Proposed Building
 - Proposed Sidewalk
 - Proposed Asphalt
 - Proposed Padel Court
 - Proposed Contour
 - Proposed Index Contour
 - Proposed Spot Grade
 - Limit of Disturbance
 - Compost Filter Sock
 - Tree Protection Fence
 - Proposed Electric Line
 - Proposed Topsoil Stockpile area
 - Proposed Landscape area
 - Proposed Concrete Washout area
 - Proposed Staging area
 - Proposed Erosion Control Blanket

Site Data:
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 Zoned: A-RESIDENTIAL DISTRICT (RECREATION DISTRICT OVERLAY)
 Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

Owner/Applicant:
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 201 RIDGE PIKE
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Parcel Information:
 Parcel ID: 65-00-09754-00-9



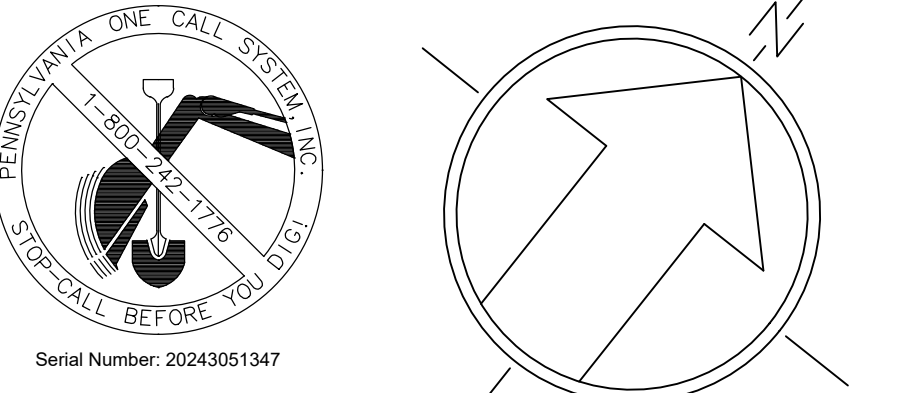
EROSION & SEDIMENT CONTROL NOTES

- All earth disturbances, including clearing and grubbing as well as cuts and fills shall be done in accordance with the approved E&S plan. A copy of the approved drawings (stamped, signed and dated by the reviewing agency) must be available at the project site at all times. The reviewing agency shall be notified of any changes to the approved plan prior to implementation of those changes. The reviewing agency may require a written submittal of those changes for review and approval at its discretion.
- At least 7 days prior to starting any earth disturbance activities, including clearing and grubbing, the owner and/or operator shall invite all contractors, the landowner, appropriate municipal officials, the E&S plan preparer, the PCSM plan preparer, the licensed professional responsible for oversight of critical stages of implementation of the PCSM plan, and a representative from the local conservation district to an on-site preconstruction meeting.
- At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1-800-242-1776 for the location of existing underground utilities.
- All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Deviation from that sequence must be approved in writing from the local conservation district or by the Department prior to implementation.
- Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots and other objectionable material.
- Clearing, grubbing, and topsoil stripping shall be limited to those areas described in each stage of the construction sequence. General site clearing, grubbing and topsoil stripping may not commence in any stage or phase of the project until the E&S BMPs specified by the BMP sequence for that stage or phase have been installed and are functioning as described in this E&S plan.
- At no time shall construction vehicles be allowed to enter areas outside the limit of disturbance boundaries shown on the plan maps. These areas must be clearly marked and fenced off before clearing and grubbing operations begin.
- Topsoil required for the establishment of vegetation shall be stockpiled at the location(s) shown on the plan map(s) in the amount necessary to complete the finish grading of all exposed areas that are to be stabilized by vegetation. Each stockpile shall be protected in the manner shown on the plan drawings. Stockpile heights shall not exceed 35 feet.

- Stockpile slopes shall be 2H:1V or flatter.
- Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to minimize the potential for erosion and sediment pollution and notify the local conservation district and/or the regional office of the Department.
 - All building materials and wastes shall be removed from the site and recycled or disposed in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1, and 287.1 et seq. No building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.
 - All off-site waste and borrow areas must have an E&S plan approved by the local conservation district or the Department fully implemented prior to being activated.
 - The contractor is responsible for ensuring that any material brought on site is clean fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance but qualifying as clean fill due to analytical testing.
 - All pumping of water from any work area shall be done according to the procedure described in this plan, over undisturbed vegetated areas.
 - Vehicles and equipment may neither enter directly nor exit directly from the project site onto Ridge Pike.
 - Until the site is stabilized, all erosion and sediment BMPs shall be maintained properly. Maintenance shall include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, retreating and restriping must be performed immediately. If the E&S BMPs fail to perform as expected, replacement BMPs, or modifications of those installed will be required.
 - A log showing dates that E&S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on the site and be made available to regulatory agency officials at the time of inspection.
 - Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each work day and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer,

- or surface water.
- All sediment removed from BMPs shall be disposed of in the manner described on the plan drawings.
 - Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches - 6 to 12 inches on compacted soils - prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outcrops shall have a minimum of 2 inches of topsoil.
 - All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc. shall be compacted in accordance with local requirements or codes.
 - All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness.
 - Fill materials shall be free of frozen particles, brush, stumps, soil, or other foreign or objectionable materials that would interfere with or prevent construction of satisfactory fills.
 - Frozen materials or soft, mucky, or highly compressible materials shall not be incorporated into fills.
 - Fill shall not be placed on saturated or frozen surfaces.
 - Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.
 - All graded areas shall be permanently stabilized immediately upon reaching finished grade. Cut slopes in the competent bedrock and rock fills need not be vegetated. Seeded areas within 50 feet of a surface water, or as otherwise shown on the plan drawings, shall be blanketed according to the standards of this plan.
 - Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.
 - Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or

- other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.
- E&S BMPs shall remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the local conservation district or the Department.
 - Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district for an inspection prior to removal/conversion of the E&S BMPs.
 - After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed or converted to permanent post construction stormwater management BMPs. Areas disturbed during removal or conversion of the BMPs shall be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal/conversions are to be done only during the germinating season.
 - Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district to schedule a final inspection.
 - Failure to correctly install E&S BMPs, failure to prevent sediment-laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E&S BMPs may result in administrative, civil, and/or criminal penalties being instituted by the Department as defined in Section 602 of the Pennsylvania Clean Streams Law. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.



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| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

Erosion & Sediment Control Plan
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP

MARTIN J. EUSTACE, III, P.E.
PA LIC. PE048891E

307 Eaton Road
Building B - 2nd Floor
Willow Grove, PA 19090
Tel: (215) 346-8757
Fax: (215) 346-8759
www.eustaceeng.com

DRAWN BY: DSC
 CHECKED BY: MJE
 DATE: 04-11-2025
 DRAWING No: D 2443-04 05

STANDARD E&S PLAN NOTES

- All earth disturbances, including clearing and grubbing as well as cuts and fills shall be done in accordance with the approved E&S plan. A copy of the approved drawings (stamped, signed and dated by the reviewing agency) must be available at the project site at all times. The reviewing agency shall be notified of any changes to the approved plan prior to implementing those changes. The reviewing agency may require a written submittal of those changes for review and approval at its discretion.
- At least 7 days prior to starting any earth disturbance activities, including clearing and grubbing, the owner and/or operator shall invite all contractors, the landowner, appropriate municipal officials, the PCSM plan preparer, the PCSM plan preparer, the licensed professional responsible for oversight of critical stages of implementation of the PCSM plan, and a representative from the local conservation district to an on-site preconstruction meeting.
- At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1-800-443-1776 for the location of existing underground utilities.
- All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Deviation from that sequence must be approved in writing from the local conservation district or by the Department prior to implementation.
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- A log showing dates that E&S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on the site and be made available to regulatory agency officials at the time of inspection.
- Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each work day and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer, or surface water.
- All sediment removed from BMPs shall be disposed of in the manner described on the plan drawings.
- Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches - 6 to 12 inches on compacted soils - prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outcrops shall have a minimum of 2 inches of topsoil.
- All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc. shall be compacted in accordance with local requirements or codes.
- All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness.
- Fill materials shall be free of frozen particles, brush, roots, soil, or other foreign or objectionable materials that would interfere with or prevent construction of satisfactory fills.
- Frozen materials or soft, muddy, or highly compressible materials shall not be incorporated into fills.
- Fill shall not be placed on saturated or frozen surfaces.
- Seeps or springs encountered during construction shall be handled in accordance with the standard specification for subsurface drain or other approved method.
- All graded areas shall be permanently stabilized immediately upon reaching finished grade. Top slopes in competent bedrock and rock fills need not be vegetated. Seeded areas within 50 feet of a surface water, or as otherwise shown on the plan drawings, shall be blanketed according to the standards of this plan.
- Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.
- Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.
- E&S BMPs shall remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the local conservation district or the Department.
- Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district for an inspection prior to removal/conversion of the E&S BMPs.
- After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed or converted to permanent post construction stormwater management BMP. Areas disturbed during removal or conversion of the BMPs shall be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal/conversions are to be done only during the germinating season.
- Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district to schedule a final inspection.
- Failure to correctly install E&S BMPs, failure to prevent sediment-laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E&S BMPs may result in administrative, civil, and/or criminal penalties being instituted by the Department as defined in Section 602 of the Pennsylvania Clean Streams Law. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor/criminal penalties for each violation.

- Additional Notes:
- Concrete wash water shall be handled in the manner described on the plan drawings. In no case shall it be allowed to enter any surface waters or groundwater systems.
 - Upon request, the applicant or their contractor shall provide an as-built (revised drawing) for any sediment basin or trap to the municipal inspector, local conservation district or the Department.

E&S CONTROL NARRATIVE

Prepared by: Martin J. Eustace, III, P.E.
 Experience: Since 1988 has prepared numerous sedimentation plans for sites up to 700 acres, located in Bradford, Bucks, Chester, Montgomery, Tioga & Philadelphia Counties.

SITE LOCATION

The project site is within the Green Valley Country Club located at Block 030 Unit 001, 201 ridge pike, Lafayette Hill, PA, Montgomery County, PA, behind the Tennis Club and Ridge Pike. The proposed improvements are for 2 Proposed Padel Courts and sidewalk to be constructed. The property is served by public water and public sewer. The site is zoned A-Residential District & Recreational Overlay District.

EXISTING SITE & PROPOSED DEVELOPMENT

The property has been developed into a golf course and this area is one of the practice greens on the site.
 The improvement areas slopes from south to north and are to be existing grass field. No naturally occurring geologic/soil conditions that have the potential to cause pollution exist.
 The proposed improvements include the construction of a 2 new Padel Courts and sidewalk area. Access to the site shall be via the entrance at Ridge Pike.
 7,264 s.f. impervious coverage is proposed.

PROPOSED E&S CONTROL

During the earthmoving period, we propose to control erosion and sedimentation by use of compost filter sock, inlet filter bag and tree protection fence.
 After any excavation begins, all perimeter compost filter sock shall be installed parallel to existing grade, as illustrated on the plans. All sedimentation control measures pertaining to the areas to be disturbed shall be installed and maintained at all times. Erosion control shall be made to maximize protection of existing drainage features and vegetation by installing the tree protection fence and compost filter socks prior to beginning excavation.
 To limit the extent and duration of earth disturbance only that portion of the site that is to receive improvements shall be stripped of all vegetation and topsoil that may be present. The topsoil required for redistribution will be stockpiled, seeded and mulched immediately and protected by compost filter sock. All newly graded slopes of 3:1 and steeper shall be covered immediately with appropriate erosion control blankets. To the greatest extent possible, the contractor shall utilize construction methods that limit soil compaction during construction.
 Until the site is stabilized, all erosion and sedimentation controls must be maintained properly. Maintenance will include inspection of all erosion and sedimentation control facilities after each storm event and on a daily basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeded, and renetting will be performed immediately. The owner's representative in charge of the project will be responsible for the implementation of this sedimentation control plan and the maintenance of all facilities until the project is fully stabilized.
 Stabilization of slopes and lawns shall consist of a permanent type of seeding or sodding, and will be conducted in accordance with the applicable Soil Conservation Service Specifications. Final stabilization measures of the site shall be completed immediately after this project has been fully completed. Other measures that help prevent or minimize generation of increased stormwater runoff during construction include proper sequencing and maintenance of temporary facilities.

MAINTENANCE PROGRAM

The contractor shall check the erosion and sedimentation control facilities as noted (once daily or weekly per BMP - see respective details), prior to any anticipated rainfall events, and after every runoff event. Sediment barriers shall be maintained in good repair, remove silt build up per detail, spread and stabilize on site. Seeded areas that washed away shall be filled and graded as necessary and then reseeded and mulched. Where sediment barrier has been washed out by concentrated runoff, repair compost filter sock and provide rock filter berm backing to the filter sock to a depth of 2' by 20' wide. Inlet filter bags shall be emptied and replaced when full or when flow capacity has been reduced so as to cause flooding by bypassing the inlet. Inspections must be logged onto DEP form 3800-FM-BCW071d, dated 12/2019 and kept on site at all times.

SURFACE WATERS

Receiving Water: Schuylkill River
 The designated use of the receiving water under 25 Pa. Code Chapter 93 is TSF (Trot Stocking) and MF (Noggin Fishes). The receiving water is neither HQ (High Quality) nor EV (Excellent Value).
 The receiving water is impaired for siltation (Category 5). The water has an established TMDL for siltation in the upper portion of the Maximum Daily Load For Sediment and Nutrients Schuylkill River Watershed, dated 2005.

RECYCLING OR DISPOSAL OF MATERIALS

The operator shall remove from the site, recycle or dispose of all building materials and wastes in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1 et seq., and 287.1 et seq.
 Water pumped from work areas shall be treated for sediment removal prior to discharging to a surface water.
 Construction traffic must enter and exit the site and disturbed areas at the designated entrance. Water trucks will be used as needed during construction to reduce dust generation on the site. Dust control must be provided by the contractor to a degree that is acceptable to the local conservation district.
 No solid materials, including building materials, are allowed to be discharged from the site with stormwater. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will be emptied as necessary by a contract trash disposal service and hauled away from the site.
 Non-stormwater components of site discharge must be clean water. Water used for construction which discharges from the site must originate from a public water supply or private well approved by the State health department. Water used for construction that does not originate from an approved public supply must not discharge from the site.

TOPSOIL APPLICATION NOTES

Graded areas should be scarified or otherwise loosened to a depth of 3 to 5 inches to permit bonding of the topsoil to the surface areas and to provide a roughened surface to prevent topsoil from sliding down slope.
 Topsoil should be uniformly distributed across the disturbed area to a depth of 4 to 8 inches minimum - 2 inches on fill outcrops. Spreading should be done in such a manner that sodding or seeding can proceed with a minimum of additional preparation or tillage. Irregularities in the surface resulting from topsoil placement should be corrected in order to prevent formation of depressions unless such depressions are part of the PCSM plan.
 Topsoil should not be placed while the topsoil or subsoil is in a frozen or muddy condition, when the subsoil is excessively wet, or in a condition that may otherwise be detrimental to proper grading and seedbed preparation. Compacted soils should be scarified 6 to 12 inches along contour wherever possible prior to seeding.

| Depth (in) | Per 1,000 SF | Per Acre |
|------------|--------------|----------|
| 1 | 3.1 | 134 |
| 2 | 6.2 | 268 |
| 3 | 9.3 | 403 |
| 4 | 12.4 | 537 |
| 5 | 15.5 | 672 |
| 6 | 18.6 | 806 |
| 7 | 21.7 | 940 |
| 8 | 24.8 | 1074 |

PROPOSED TEMPORARY SEEDING

100% Perennial Ryegrass
 Pure Live Seed: 81%
 Rate: 1 Lbs. per 1,000 s.f. = 0.02 Tons/Ac.
 Provide clean mulch on all seeded areas.
 Fertilizer: 12.5 Lbs. per 1,000 s.f. / 10-10-10 Equiv. = 0.25 Tons/Ac.
 Lime: 40 Lbs. per 1,000 s.f. = 1 Tons/Ac.
 Straw Mulch: 140 Lbs. per 1,000 s.f. = 3 Tons/Ac.
 Provide clean, unchopped or not finely broken straw mulch on all seeded areas that are not blanketed. Straw should be either wheat or oat straw.
 Anchor Material: Organic Guar-gum Based Tackifier
 Anchoring Method: Per manufacturer's recommendation. Preferably apply straw and tackifier at the same time.
 Anchoring Rate: Per manufacturer's recommendation. (Typ. 20-40 lbs per Acre)

PROPOSED PERMANENT SEEDING - LAWN

80% Turf Type Tall Fescue (3 dark green drought tolerant varieties min.)
 10% Kentucky Bluegrass (drought tolerant variety)
 10% Turf Type Perennial Ryegrass Rate: 6 Lbs. Per 1,000 s.f. = 262 Lbs./Ac.
 Fertilizer: 25 Lbs./1,000 s.f. / 10-20-20 Equiv. = 0.50 Tons/Ac.
 Lime 240 Lbs./1,000 s.f. = 6 Tons/Ac.
 Straw mulch: 140 Lbs./1,000 s.f. = 3 Tons/Ac.
 Provide clean, unchopped or not finely broken straw mulch on all seeded areas that are not blanketed. Straw should be either wheat or oat straw.
 Anchor Material: Organic Guar-gum Based Tackifier
 Anchoring Method: Per manufacturer's recommendation. Preferably apply straw and tackifier at the same time.
 Anchoring Rate: Per manufacturer's recommendation. (Typ. 20-40 lbs per Acre)

| | Temporary Seeding | | Permanent Seeding | |
|--------------------------|-------------------|----------|------------------------|-----|
| | % Purity | 85% | 95% | 95% |
| % Pure Live Seed | 95% | 98% | | |
| Topsoil Compaction Depth | N/A | 6 inches | | |
| Seeding Season | Spring | N/A | April 15 - June 15 | |
| | Fall | N/A | August 15 - November 1 | |

CONSTRUCTION SEQUENCE

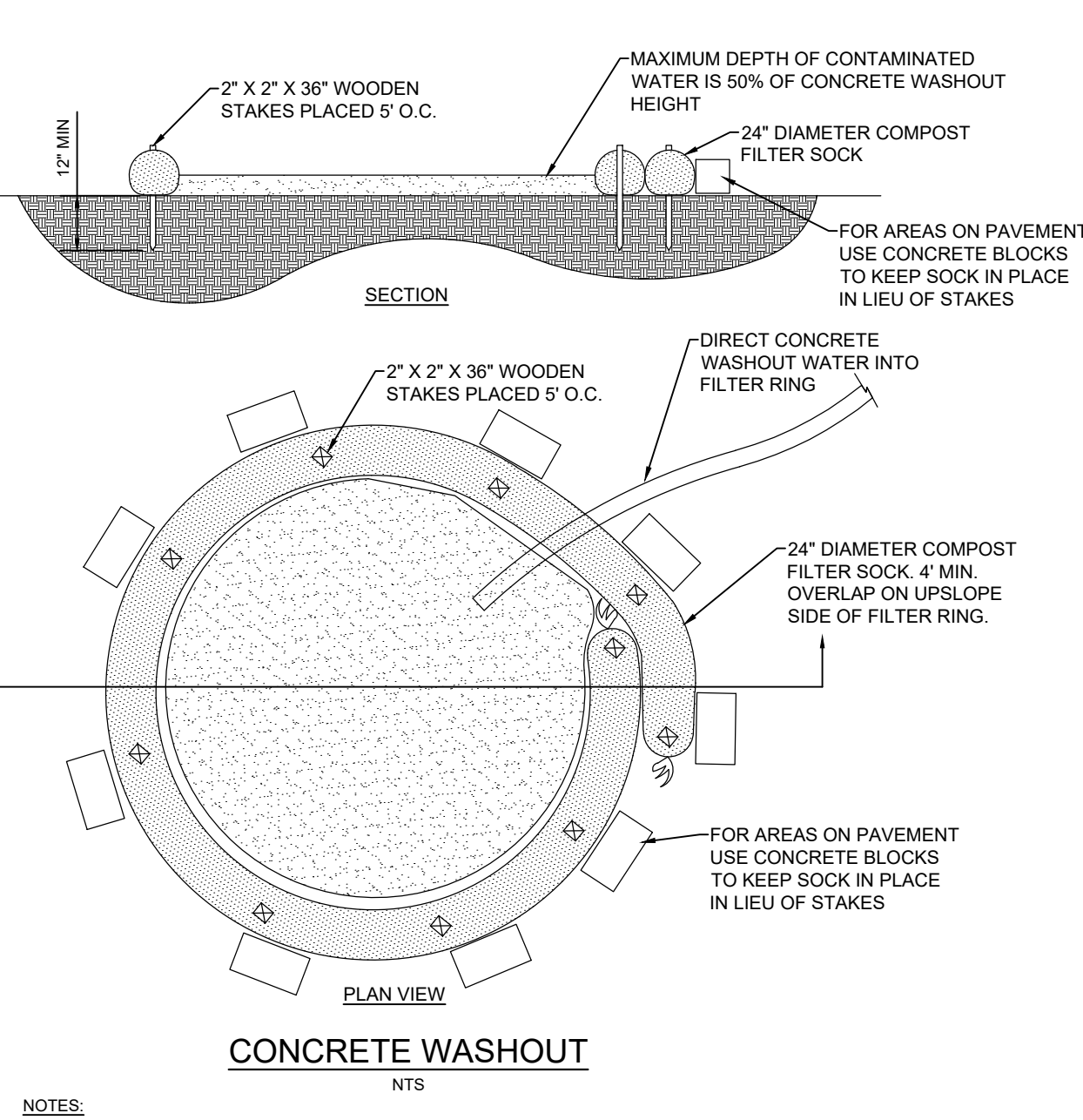
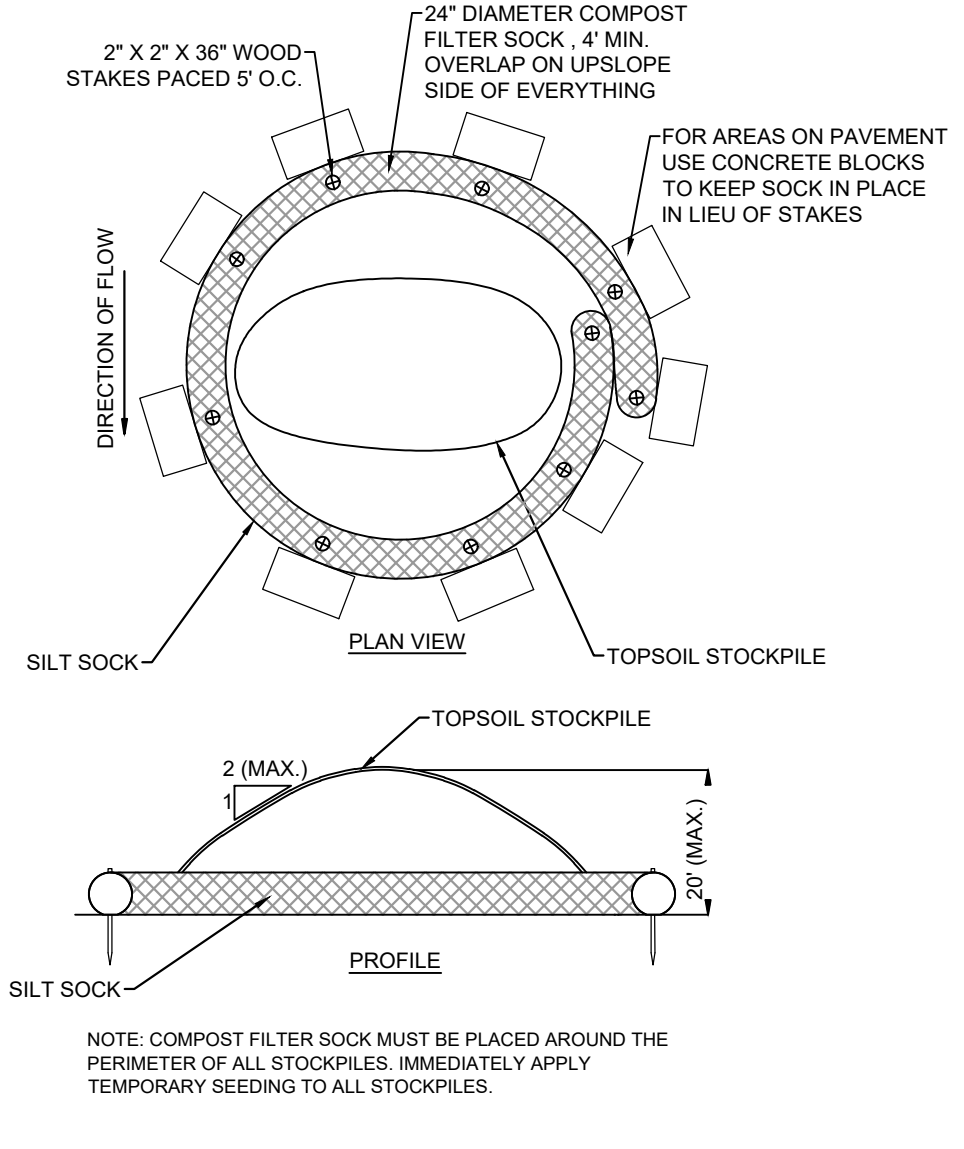
All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed in compliance with Chapter 102 regulations before any following stage is initiated. Clearing and grubbing shall be limited only to those areas described in each stage.
 At least 7 days before starting any earth disturbance activities, the operator shall invite all contractors involved in those activities, the landowner, all appropriate municipal officials, the E&S plan preparer, the licensed design professional, and a representative of the Montgomery County Conservation District to schedule an on-site meeting.
 At least 3 days before starting any earth disturbance activities, all contractors involved in those activities shall notify the Pennsylvania One Call System Incorporated at 1-800-242-1776 for buried utilities locations. The contractor shall verify locations and depths of all existing utilities prior to start of work.
 Water pumped from work areas shall be treated for sediment removal prior to discharging to a surface water. The operator is responsible for ensuring that any fill or borrow sites used for soil import/export have all applicable approved permits under E&S plans.
 Cessation of activity for 4 days or longer requires temporary stabilization. No more than 15,000 square feet of disturbed area shall reach final grade before initiating seeding and mulching operations. Stabilization of fill slopes shall be in 15-25 foot vertical increments.

- Stake out the limit of disturbance. Install compost filter sock, tree protection fence, & tree clearing station as shown on plans.
- Construction vehicles shall enter or exit the site via the existing paved driveway at Ridge Pike. Existing paved areas shall be swept regularly throughout the day to prevent soil and sediment from being tracked into undisturbed areas and onto Ridge Pike. The sediment shall be collected at the tree clearing station with within filter sock, sediment shall be recycled or disposed of per notes on this sheet. Dust control shall be provided as needed.
- Upon the installation or stabilization of all perimeter sediment control BMPs and at least 48 hours prior to proceeding with the bulk earth disturbance activities, the operator shall provide notification to the Montgomery County Conservation District, Township, and Township Engineer.
- Strip and stockpile topsoil from area of expansion required for proposed pad court. Surround stockpile with compost filter sock and stabilize immediately with temporary seed.
- Remove existing Tennis Court.
- Rough grade in the area of improvements. Stabilize disturbed areas with permanent seeding and mulch and/or place erosion control blankets on all slopes 3:1 or steeper along with permanent lining as noted on plans.
- Remove or Relocate irrigation system and site lighting wiring as needed.
- Install electric to proposed pole location for lighting of the Padel Courts.
- Begin building foundation for Courts.
- Install sidewalk.
- Complete Court construction.
- Perform final site grading where necessary.
- Install sod, permanent seeding, landscaping, etc.
- Remove any accumulated sediment from compost filter socks and stabilize elsewhere on site.
- Contact Design Professional once 70% uniform perennial cover is reached and before any BMPs are removed.
- Remove temporary erosion control measures after all disturbed areas are stabilized with a minimum of 80% vegetative cover. Re-stabilize all areas disturbed due to the removal of temporary erosion control facilities.
- Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate potential for accelerated erosion and/or sediment pollution.

- Stockpile heights must not exceed 35'. Stockpile slopes must be 2:1 or flatter.
- Upon completion of an earth disturbance activity or any stage or phase of an activity, the operator shall stabilize immediately the disturbed areas to protect from accelerated erosion. During non-germinating periods, mulch must be applied at the specified rates. Disturbed areas which are not at finished grade and which will be redistributed within 1 year may be stabilized in accordance with temporary seeding specifications. Disturbed areas, which are either at finished grade or will be redistributed within 1 year, must be stabilized in accordance with permanent seeding specifications.
- Stockpiles must be stabilized immediately.
- Hay or straw mulch must be applied at rates of at least 3 tons per acre. Straw mulch should be applied in long strands, not chopped or finely broken.
- Until the site has achieved final stabilization the owner and/or contractor shall properly implement, operate and maintain all the best management practices. Maintenance shall include inspections of all erosion and sedimentation control after each runoff event and on a daily/weekly basis as noted. All site inspections will be documented in an inspection log kept for this purpose, including the compliance actions and the date, time, and name of the person conducting the inspection. The inspection log will be kept on site at all times and made available to the MCD and DEP upon request.
- Site inspections and maintenance of all BMPs shall be conducted daily/weekly as noted, after every runoff event and also prior to any anticipated precipitation events. All site inspections will be documented in an inspection log kept for this purpose, including the compliance actions and the date, time, and name of the person conducting the inspection. The inspection log will be kept on site at all times and made available to the MCD and DEP upon request.
- All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeded, renetting, and renetting, must be performed immediately. If erosion and sediment BMPs fail to perform as expected, replacement BMPs or modifications of those installed will be needed.
- Where BMPs are found to fail to alleviate erosion and sediment pollution, the permittee shall include the following information:
 a. The location and severity of the BMP's failure and any pollution events.
 b. All steps taken to reduce, eliminate, and prevent the recurrence of the non-compliance.
 c. The time frame to correct the non-compliance, including the exact dates when the activity will return to compliance.
- After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed. Areas disturbed during removal of the BMPs must be stabilized immediately.
- An area shall be considered to have achieved final stabilization when it has a minimum of 70% uniform perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.
- Erosion control blankets must be installed on all slopes 3:1 or greater on an all disturbed areas within 50 feet of streams and wetlands.

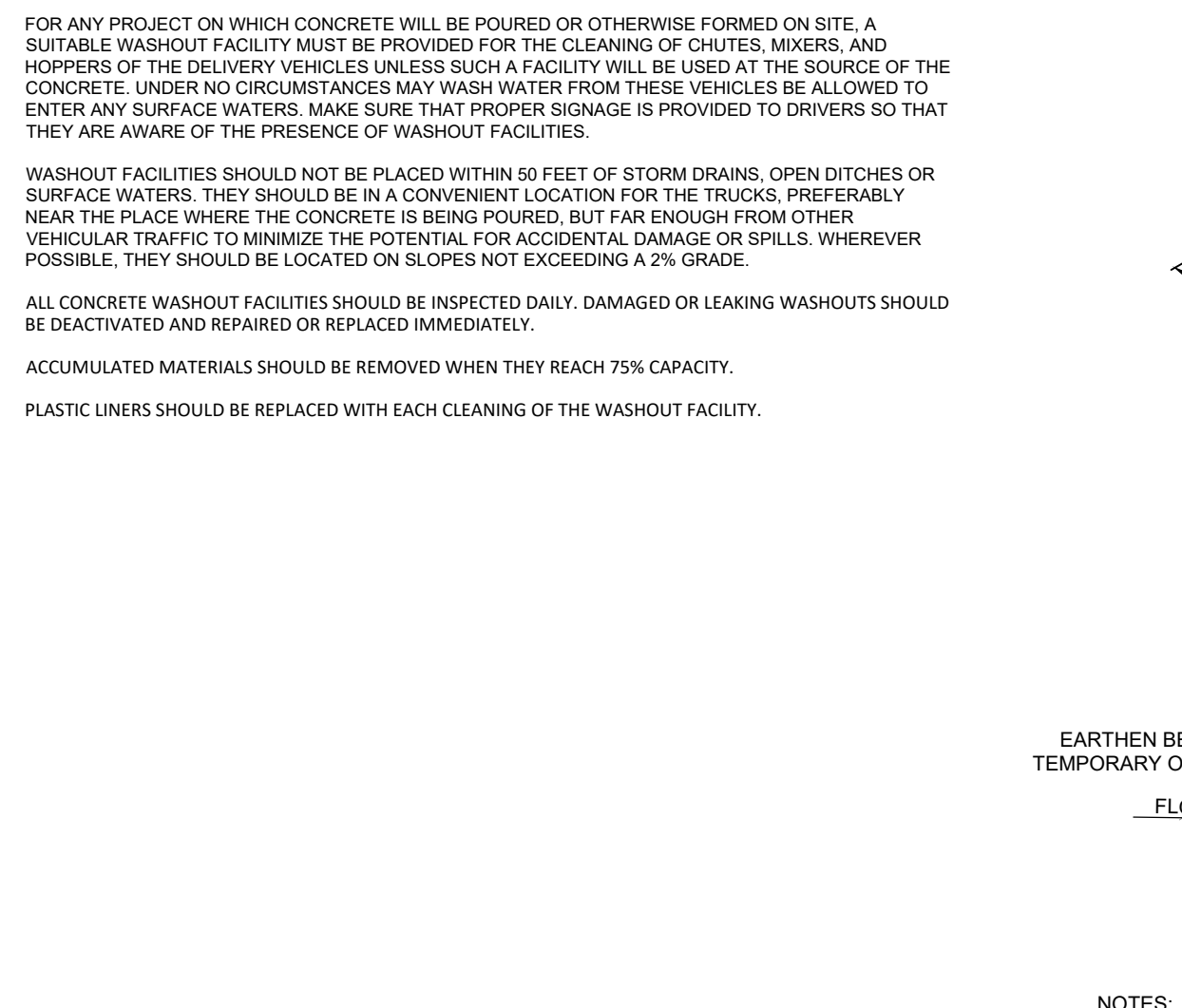
PROJECT NOTES

- Plan set bearing the stamp of Township Engineer must remain on site during duration of grading until work is complete.
- Permit holder will notify the Township Engineer for inspections at least 48 hours prior to initial inspection, rough grading is being performed, any work on: drainage facilities, BMPs, and special structures, and for final inspection.



INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
 18\"/>

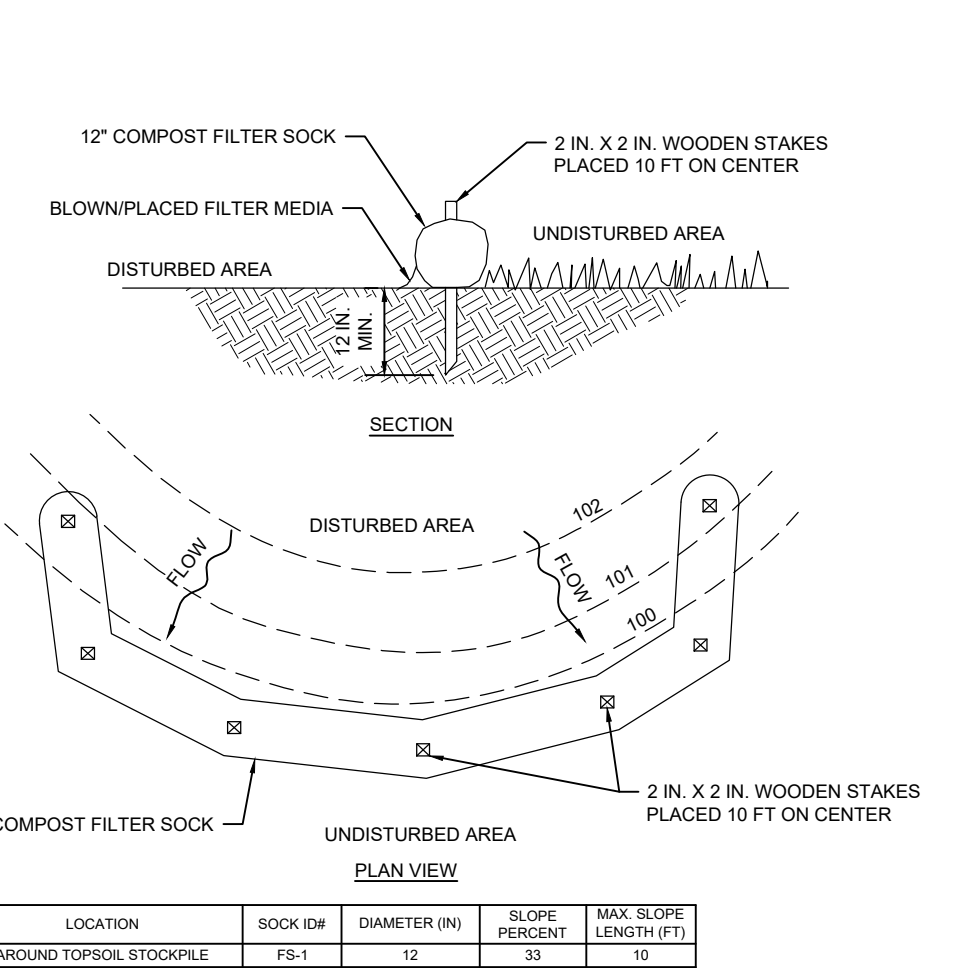
A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
 FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON SITE, A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AS THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS. MAKE SURE THAT PROPER SIGNAGE IS PROVIDED TO DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
 WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PROVIDED NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WHEREVER POSSIBLE, THEY SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.
 ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
 ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.
 PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.



NOTES:
 MAXIMUM DRAINAGE AREA = 1/2 ACRE.
 INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
 ROLLED EARTHEN BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
 AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAZ TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
 INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL, OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
 DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-16 FILTER BAG INLET PROTECTION - TYPE M INLET

NOT TO SCALE



TREE PROTECTION SPECIFICATIONS:
 1. PRE-CONSTRUCTION PRUNING:
 1.1. SOME TREES MAY REQUIRE LOWER-BRANCH PRUNING TO ALLOW FOR THE OPERATION OF CONSTRUCTION EQUIPMENT. IT MAY BE NECESSARY TO PRUNE TO A HEIGHT OF 15' OR MORE TO ALLOW FOR CLEARANCE OF CONSTRUCTION VEHICLES. TRAINED PERSONNEL SHOULD DO A PRE-CONSTRUCTION PRUNING. ALL WORK PERFORMED BY PRUNING CREWS SHOULD BE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.
 2. CONSTRUCTION PERSONNEL NOTIFICATION:
 2.1. ALL CONTRACTOR EMPLOYEES, INCLUDING SUPERVISORY PERSONNEL AND ALL SUBCONTRACTORS AND THEIR PERSONNEL SHOULD BE MADE AWARE THAT THE EXISTING TREES TO BE RETAINED ARE VALUABLE AND NEED TO BE PROTECTED.
 3. TREE PROTECTION ZONE:
 3.1. PRIOR TO CONSTRUCTION TREES AND SHRUBS SHALL BE PROTECTED BY 6\"/>

TOWNSHIP LANDSCAPE ARCHITECT, EXISTING TREES WHICH HAVE NOT BEEN ADEQUATELY PROTECTED MAY BE REQUIRED TO BE REMOVED AND REPLACED. TREE PROTECTION FENCING SHALL BE ESTABLISHED BY ENCLOSING THE DIMENSIONS OF EACH ROOT PROTECTION ZONE AS CALCULATED AT 1.25 FEET (RADIUS) PER ONE INCH OF DBH.
 4. TREE WATERING:
 4.1. PROVISIONS SHOULD BE MADE TO WATER DESIGNATED TREES DURING PERIOD OF DROUGHTS. PERIODS OF DROUGHT ARE DEFINED AS A TIME WHEN THERE IS LESS THAN 1\"/>

STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

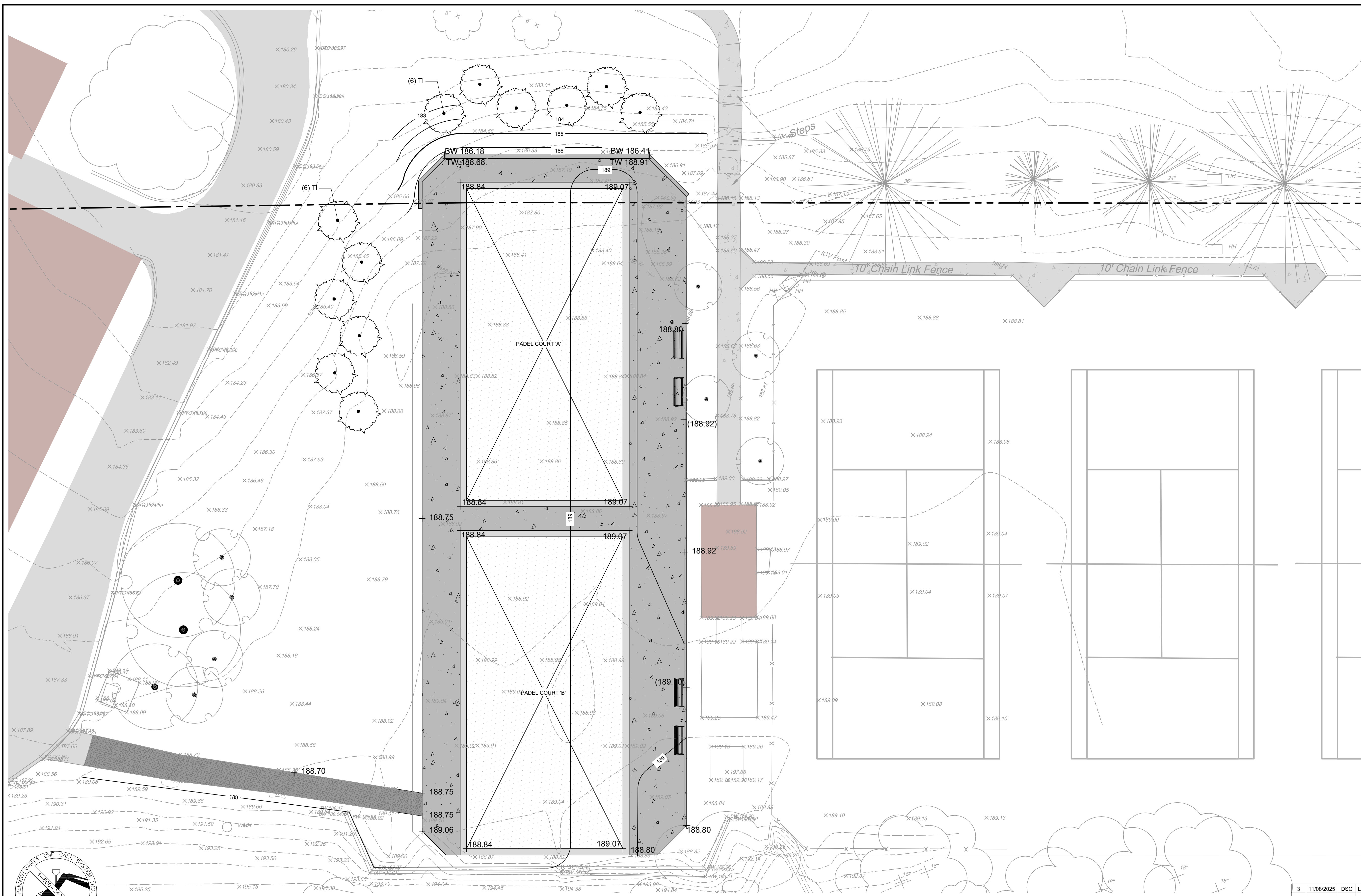
Erosion & Sediment Control Details
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP

ENGINEERS | LANDSCAPE ARCHITECTS | SURVEYORS

MARTIN J. EUSTACE, III, P.E.
 307 Easton Road
 Building B - 2nd Floor
 Willow Grove, PA 19090
 Tel: (215) 348-8757
 Fax: (215) 348-8759
 www.eustaceeng.com

DRAWN BY: DSC
 CHECKED BY: M/E
 DATE: 04-11-2025
 DRAWING No. D 2443-04-06

X:\PROJECTS\2400 - 24699\2443\04 - Green Valley Country Club Padel Drawings\Land Development\06 d-Landscape Plan.dwg November 11, 2025



Location Map
Scale: 1" = 1000'

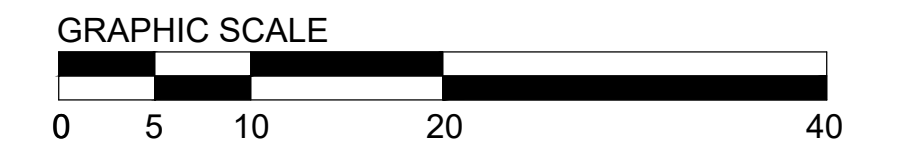
Legend

| | |
|--|--|
| | Existing Building |
| | Existing Asphalt Paving |
| | Existing Concrete |
| | Existing Brick Paving |
| | Existing Contour |
| | Existing Index Contour |
| | Existing Sign |
| | Existing Treeline |
| | Existing Evergreen Tree and Deciduous Tree |
| | Proposed Sidewalk |
| | Proposed Asphalt |
| | Proposed Contour |
| | Proposed Index Contour |
| | Proposed Spot Grade |
| | Soil Boundary |
| | DuA |
| | UFB |
| | Proposed Electric Line |
| | Proposed Landscape area |
| | Proposed Padel Court |
| | Proposed Trees & Shrubs |
| | Existing Shrub |

Site Data:
 Address: 201 RIDGE PIKE
 LAFAJETTE HILL, PA. 19444
 Zoned: A-RESIDENTIAL DISTRICT (RECREATION DISTRICT OVERLAY)
 Lot Area: 177.36 ACRES (PER REFERENCE PLAN)

Owner/Applicant:
 GREEN VALLEY COUNTRY CLUB
 201 RIDGE PIKE
 LAFAJETTE HILL, PA. 19444

Parcel Information:
 Parcel ID: 65-00-09754-00-9



| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |



Act 287
 ALL PARTIES UTILIZING THIS PLAN AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF THE PENNSYLVANIA ACT 287 AS AMENDED BY PENNSYLVANIA ACT 199 OF 2004 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW". ALL EXISTING UNDERGROUND UTILITIES ARE TO BE CONSIDERED APPROXIMATE ONLY AND ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND THE APPROPRIATE UTILITY COMPANY PRIOR TO THE COMMENCEMENT OF THE SITE WORK IN ACCORDANCE WITH ACT 287.

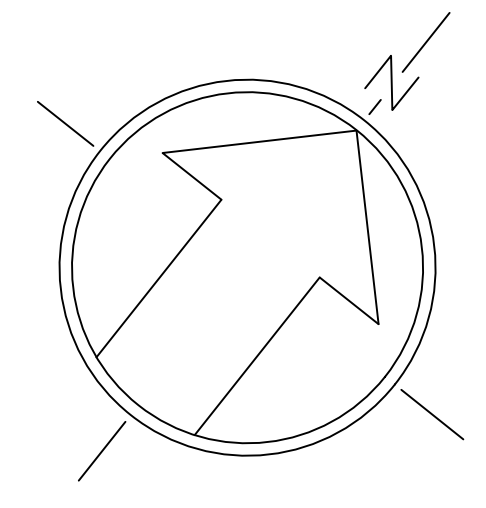
Section 58-17(A)(2)(s)
 MARTIN EUSTACE, ON THIS DATE (11/11/2025) 2/29/25, HAS REVIEWED AND HEREBY CERTIFIES THAT THE STORMWATER MANAGEMENT SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF CHAPTER 58.
 GRADING, EROSION CONTROL, STORMWATER MANAGEMENT AND BEST MANAGEMENT PRACTICES

General Notes:

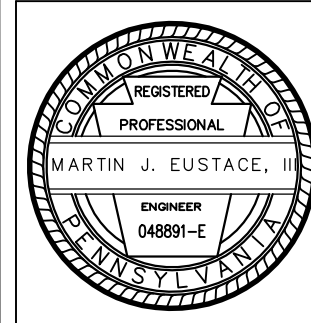
- Information shown hereon reflects existing conditions as of August 29, 2024 per a field survey performed by Eustace Engineering.
- This plan does not represent a boundary survey and is subject to the findings that a boundary survey would reveal. Any right-of-way lines and tax parcel lines shown hereon are a graphic depiction only.
- This plan was prepared in accordance with the instructions of the Client.
- This plan was prepared without the benefit of a current Title Report. This property is subject to all easements, restrictions, and agreements of record as they may apply and any stated facts that a current Title Report would reveal.
- Future development of this property is subject to all rules, regulations, codes and ordinances of the Whitemarsh Township, Montgomery County, and the Commonwealth of Pennsylvania as they may apply.
- Attention is called to the Whitemarsh Township Zoning Code as amended.
- A building and/or zoning permit is required for any changes to the conditions that exist within this property.
- The subject property shown hereon may be traversed by various underground utilities and pipes. Utility information shown is a composite of information obtained from the Pennsylvania One Call System Serial Number: 20243051401 and field locations by Eustace Engineering. The location of utility features and the feature information is only approximate and where information was readily available. All information is to be verified via a field markup and is subject to the findings that the markup and further research would reveal. Eustace Engineering does not guarantee that all subsurface utility structures and information are shown hereon.
- This plan may not depict the location of all in-ground interment sites within the area shown hereon. In-ground interment sites may exist within this area and were not visible at the time of the survey. It is the end user's responsibility to coordinate all site activity with the property owner to avoid conflicts.
- This property has access to Germantown Pike as shown hereon and is a public roadway.
- Existing features on adjoining properties and roadways are shown in limited detail. If future development of this warrants the involvement of adjoining properties and roadways, additional details may have to be obtained within those areas.
- Precaution of information when originally established and typographical errors in legal documentation may result in fractional difference between what is shown on this plan and the recorded information.

PLANT SCHEDULE

| SYMBOL | CODE | BOTANICAL / COMMON NAME | SIZE | CONTAINER | QTY |
|--------|------|--|--------|-----------|-----|
| | TI | Thuja x 'Green Giant' / Green Giant Arborvitae | 8ft ht | B&B | 12 |



Landscape Plan
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAJETTE HILL, PA - WHITEMARSH TOWNSHIP

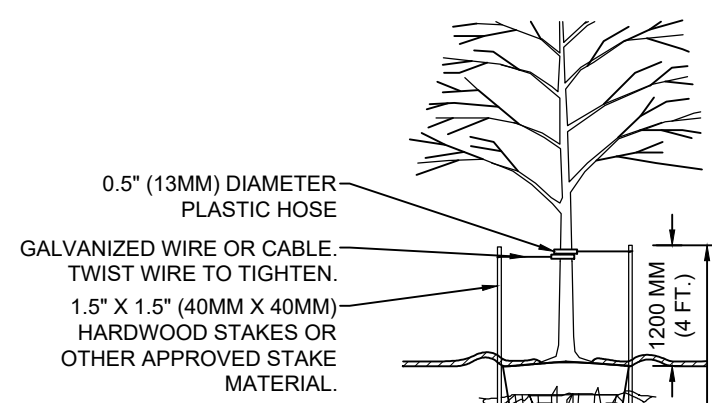


EUSTACE
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 www.eustaceeng.com

DRAWN BY: DSC
CHECKED BY: MJE
DATE: 04-11-2022
DRAWING No.: D 2443-04 07

LANDSCAPE SPECIFICATIONS

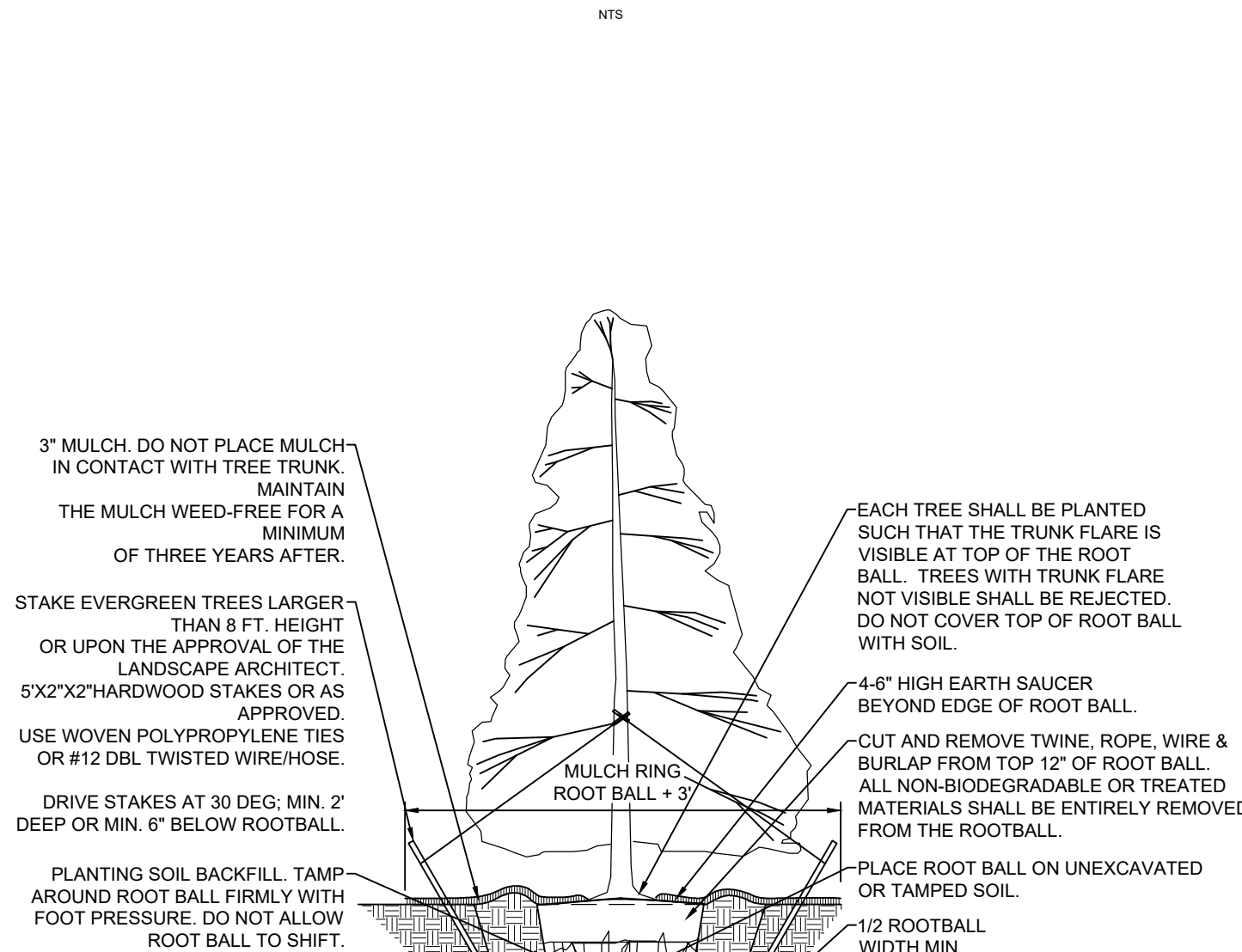
1. SCOPE OF WORK: THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SOODING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT. UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
2. MATERIALS:
 - A. GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
 - B. TOPSOIL - NATURAL, FRIABLE, LOAMY SILT HAVING AN ORGANIC CONTENT NOT LESS THAN 5% A-PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE (1) INCH, WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLOTS.
 - C. LAWN: ALL DISTURBED AREAS NOT OTHERWISE BUILT UPON SHALL RECEIVE SIX (6) INCH (6") OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SOODED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS WITHIN THE SOIL EROSION AND SEDIMENT CONTROL NOTES.
 - D. MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 2" THICK LAYER OF TRIPLE SHREDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN.
 - E. FERTILIZER:
 - I. FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL OPENED STATISTICS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
 - II. FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - F. PLANT MATERIAL:
 - I. ALL PLANTS SHALL CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSEYMEN).
 - II. IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES.
 - III. PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES IN EACH GROUPING FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
 - IV. TREES WITH ABRASIONS OF THE BARK, SUN SCALDS, DISFIGURATIONS OR FRESH CUTS OF LIMBS OVER 1/2" WHICH HAVE NOT COMPLETELY CALLOSED OVER, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BRANCHES.
 - V. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL WELL DEVELOPED BRANCHING SYSTEM AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
 - VI. CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING FOUR INCH (4") CALIPER. IF THE CALIPER EXCEEDS FOUR INCHES (4"), THE CALIPER SHALL BE MEASURED AT 12" ABOVE THE NATURAL GRADE.
 - VII. SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
 - VIII. TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
 - IX. ALL PLANTS SHALL BE CERTIFIED DISEASE AND PEST FREE.
 - X. SHOULD PLANT MATERIAL BE NEEDED, THE CONTRACTOR SHALL SUBMIT A REQUEST TO THE PROJECT LANDSCAPE ARCHITECT STATING PLANTS TO BE REPLACED, THE REQUESTED SUBSTITUTION (ON SPECIES, VARIETY, SIZE, ETC.) AND THE REASON FOR THE REQUEST. THE LANDSCAPE ARCHITECT SHALL SUBMIT SUCH REQUESTS TO THE MUNICIPAL LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION IF REQUIRED BY THE MUNICIPALITY.
3. GENERAL WORK PROCEDURES:
 - A. CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
 - B. WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS, INCLUDING ORGANIC MATERIALS, SHALL BE REMOVED COMPLETELY FROM THE SITE. NOTHING SHALL BE BURIED OR BURNED.
4. SITE PREPARATIONS:
 - A. BEFORE AND DURING BOTH PRELIMINARY AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINE HEREIN.
 - B. ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS. TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED AT THE END OF EACH DAY. CONTRACTOR SHALL ROOT FEED AND WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
 - C. CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY TAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
5. TREE PROTECTION (SEE EROSION & SEDIMENT CONTROL DETAILS)
6. SOIL MODIFICATIONS:
 - A. CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - B. LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
 - C. THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHALL BE REVISED BASED ON TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - I. TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6"-12". USE COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A pH HIGHER THAN 7.5.
 - II. TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL CYPRESS. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
 - III. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDED CLAY LOAM UP TO 30% OF THE TOTAL MIX. SUBMIT SOIL MODIFICATION PLAN TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO STARTING.
7. FINISHED GRADING:
 - A. UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL INSTALL TOPSOIL AND COMPLETE FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE.
 - B. LANDSCAPE CONTRACTOR SHALL VERIFY SUBGRADE PRIOR TO INSTALLATION OF TOPSOIL. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").
 - C. ALL LANDSCAPE AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
 - D. ALL LANDSCAPE AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER. STANDING WATER SHALL NOT BE PERMITTED ANYWHERE ON THE SITE.
8. TOPSOIL:
 - A. CONTRACTOR SHALL PROVIDE A SIX (6) INCH THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY LOCAL ORDINANCE, OR CLIENT, IN ALL LANDSCAPE AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
 - B. ON-SITE TOPSOIL SHALL BE AMENDED BASED ON SOIL TESTING PRIOR TO RE-USE. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FURNISH AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL LANDSCAPE AREAS. THE pH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
 - C. ALL LANDSCAPE AREAS SHALL BE CULTURED TO A DEPTH OF SIX (6) INCHES PRIOR TO SPREADING OF TOPSOIL. ALL DEBRIS EXPOSED BY CULTIVATION SHALL BE DISPOSED OF PER GENERAL WORK PROCEDURES ABOVE. AREA SHALL BE LEVELLED AND LIGHTLY COMPACTED TO BEAT GRADES (MINUS 4"). REMAINING AMENDED TOPSOIL SHALL BE SPREAD, LIGHTLY COMPACTED AND BROUGHT TO FINAL LINES AND GRADES.
 - E. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.



- NOTES:**
1. ALL TREES ARE TO BE STAKED WITH THREE (3) STAKES PLACED EQUILATERALLY AROUND THE TREE.
 2. ALL STAKES SHALL BE DRIVEN OUTSIDE THE EDGES OF THE ROOT BALL.
 3. ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM OF 0.5" (12MM).
 4. REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED.
 5. STAKES SHALL BE REMOVED NO LATER THAN THE END OF THE FIRST GROWING SEASON AFTER PLANTING.

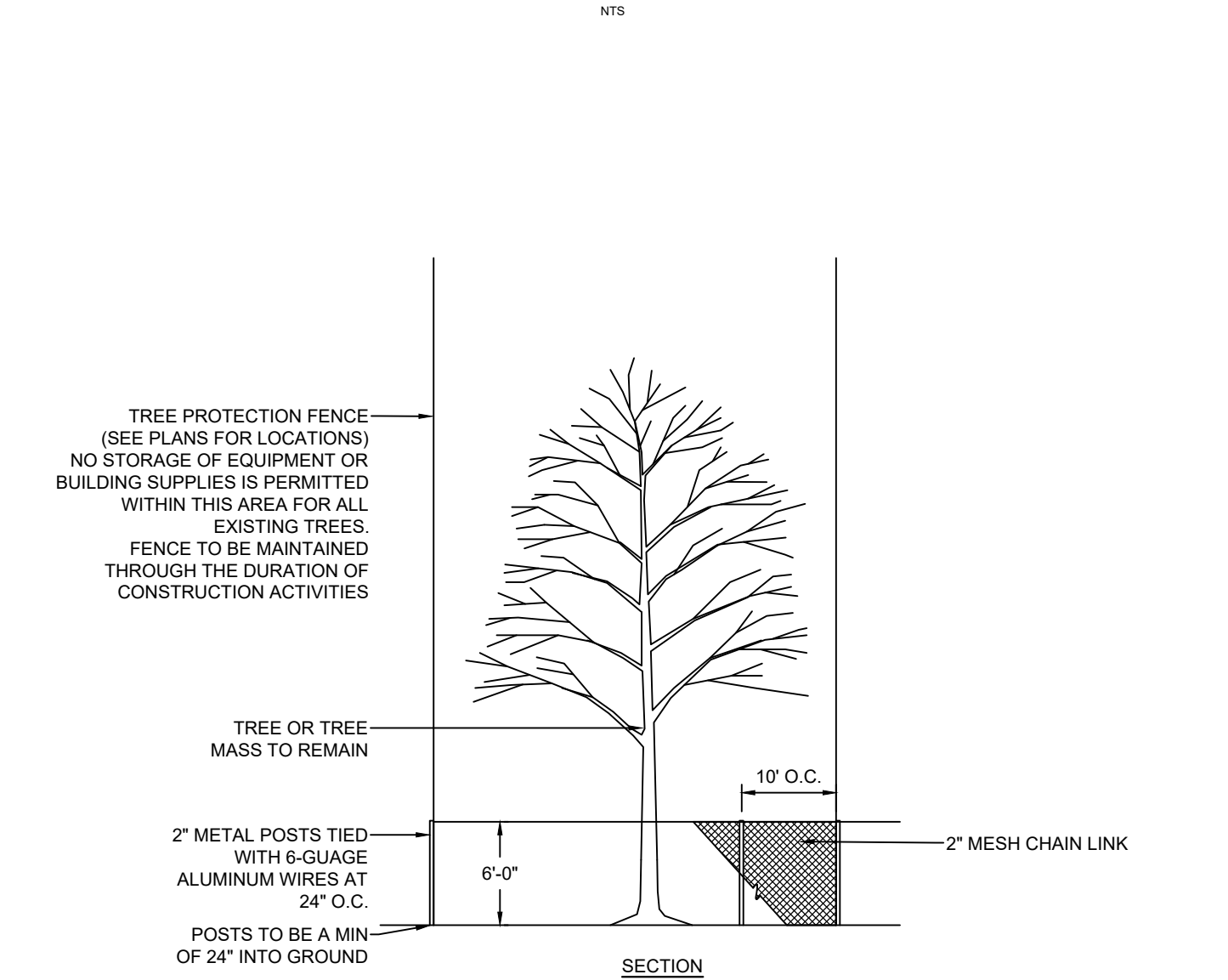
- WIRE OR CABLE SIZES SHALL BE AS FOLLOWS:**
- TREES UP TO 2.5' (65MM) CALIPER - 14 GAUGE EVERGREEN TREES/SHRUBS
 - TREES 2.5' (65MM) TO 3' (75MM) CALIPER - 12 GAUGE
- TIGHTEN WIRE OF CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE ENOUGH TO ACCOMMODATE 1.5" (35MM) OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE. TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED.

TREE STAKING DETAIL - TREES 75MM (3 IN.) CALIPER OR LESS



NOTE: THIS DETAIL ASSUMES THAT THE PLANTING SPACE IS LARGER THAN 8' SQUARE. OPEN TO THE SKY AND IS NOT COVERED BY ANY PAVING OR GRATING.

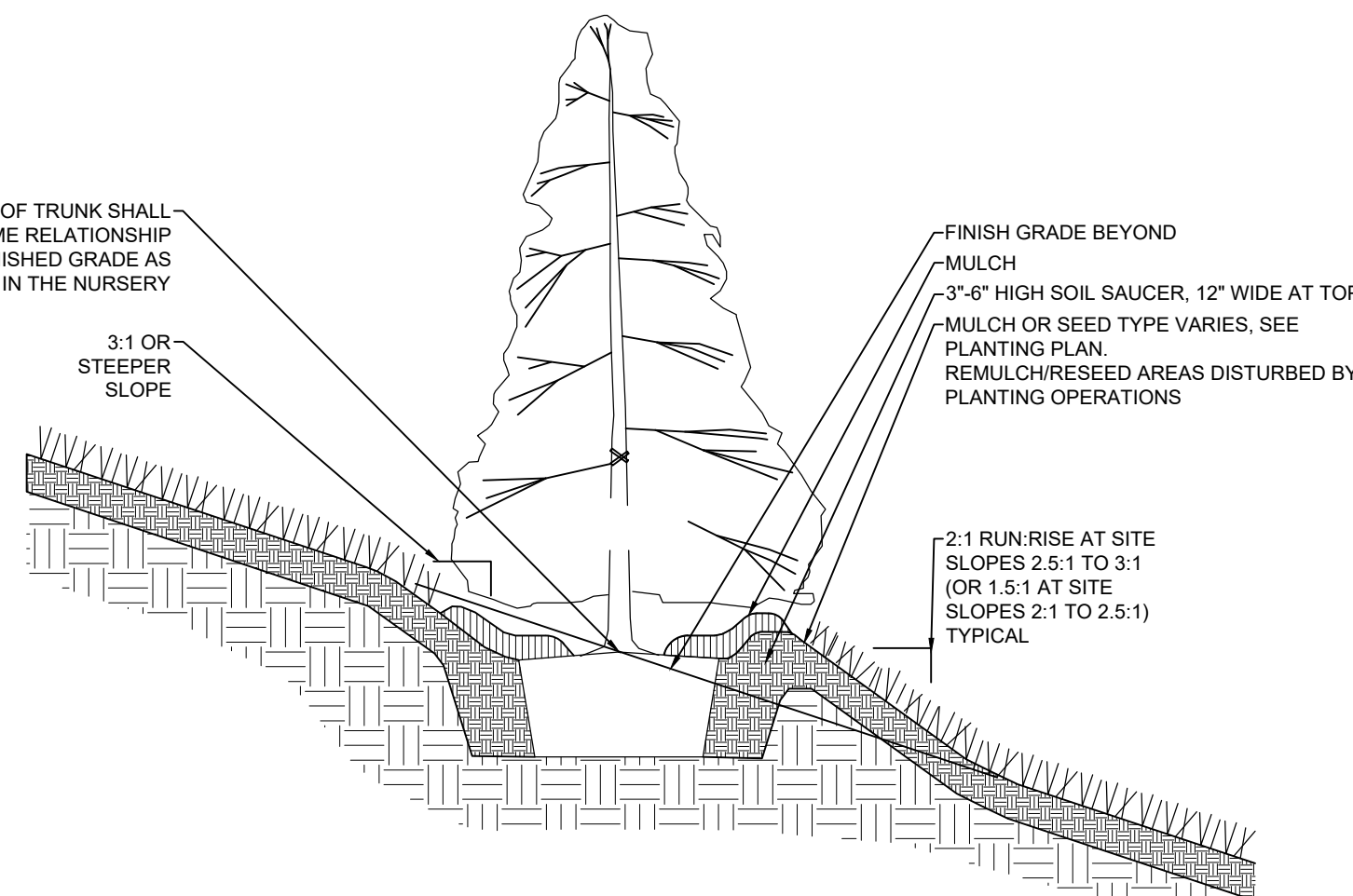
EVERGREEN TREE PLANTING DETAIL



TREE PROTECTION DETAIL

- TREE PROTECTION SPECIFICATIONS:**
1. PRE-CONSTRUCTION PRUNING:
 - 1.1. SOME TREES MAY REQUIRE LOWER-BRANCH PRUNING TO ALLOW FOR THE OPERATION OF CONSTRUCTION EQUIPMENT. IT MAY BE NECESSARY TO PRUNE TO A HEIGHT OF 15' OR MORE TO ALLOW FOR CLEARANCE OF CONSTRUCTION VEHICLES. TRAINED PERSONNEL SHOULD DO A PRE-CONSTRUCTION PRUNING. ALL WORK PERFORMED BY PRUNING CREWS SHOULD BE UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.
 2. CONSTRUCTION PERSONNEL NOTIFICATION:
 - 2.1. ALL CONTRACTOR EMPLOYEES, INCLUDING SUPERVISORY PERSONNEL AND ALL SUBCONTRACTORS AND THEIR PERSONNEL, SHOULD BE MADE AWARE THAT THE EXISTING TREES TO BE RETAINED ARE VALUABLE AND NEED TO BE PROTECTED.
 3. TREE PROTECTION ZONE:
 - 3.1. PRIOR TO CONSTRUCTION TREES AND SHRUBS SHALL BE PROTECTED BY 6" HIGH CHAIN LINK FENCING, STAKED EVERY 10' FEET TO ENSURE THAT THERE IS NOT ENCRoACHMENT WITHIN THE AREA OF THEIR DRIP LINE BY CHANGING GRADE, TRENCHING, STOCKPIILING OF BUILDING MATERIALS OR TOPSOIL OR THE COMPACTION OF THE SOIL AND ROOTS BY ANY MOTOR VEHICLES, UNLESS THE FOLLOWING REGULATIONS ARE NOT MET:
 - 3.1.1. AT THE DIRECTION OF THE TOWNSHIP ENGINEER OR TOWNSHIP LANDSCAPE ARCHITECT, EXISTING TREES WHICH HAVE NOT BEEN ADEQUATELY PROTECTED, MAY BE REQUIRED TO BE REMOVED AND REPLACED. TREE PROTECTION FENCING SHALL BE ESTABLISHED BY ENCOMPASSING THE DIMENSIONS OF EACH ROOT PROTECTION ZONE AS CALCULATED AT 1.25 FEET (RADIUS) PER ONE INCH OF DBH.
 - 3.1.2. TREE PROTECTION FENCING SHALL BE ESTABLISHED BY ENCOMPASSING THE DIMENSIONS OF EACH ROOT PROTECTION ZONE AS CALCULATED AT 1.25 FEET (RADIUS) PER ONE INCH OF DBH.
 4. TREE WATERING:
 - 4.1. PROVISIONS SHOULD BE MADE TO WATER DESIGNATED TREES DURING PERIOD OF DROUGHTS. PERIODS OF DROUGHT ARE DEFINED AS A TIME WHEN THERE IS LESS THAN 1" OF RAINFALL DURING ANY 30-DAY PERIOD. TREES SHOULD BE WATERED AT A RATE OF 50 GALLONS PER INCH DIAMETER. APPLICATION SHOULD BE MADE SO THAT THE WATER SLOWLY SOAKS INTO THE GROUND AND DOES NOT RUN OFF.
 5. POST-CONSTRUCTION PRUNING:
 - 5.1. SOME TREES MAY BE INADVERTENTLY DAMAGED DURING CONSTRUCTION ACTIVITIES. ALL POST-CONSTRUCTION PRUNING SHOULD BE PERFORMED UNDER THE SUPERVISION OF A CERTIFIED ARBORIST.

WAIVER: DUE TO THE LOCATION OF THE EXISTING DRIVEWAYS AND OTHER EXISTING FEATURES, THE LOCATION OF TREE PROTECTION FENCING WILL BE AS SHOWN PER PLAN IN LIEU OF THE REQUIREMENTS SET FORTH IN CHAPTER 55 OF THE TREE PROTECTION STANDARDS.



EVERGREEN TREE PLANTING ON SLOPE DETAIL

| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/09/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

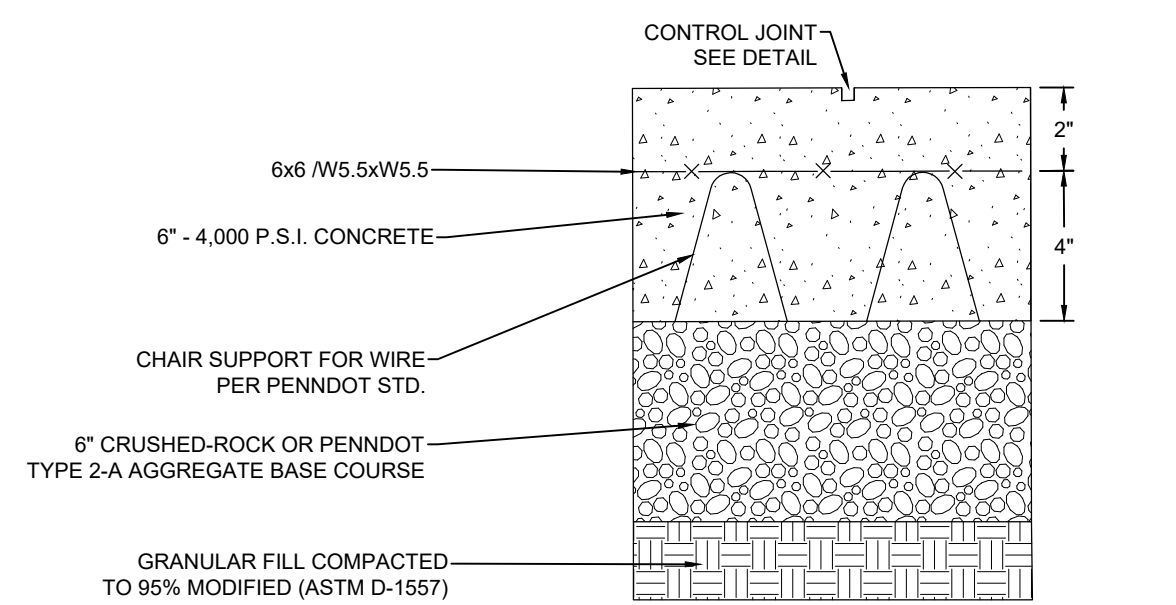
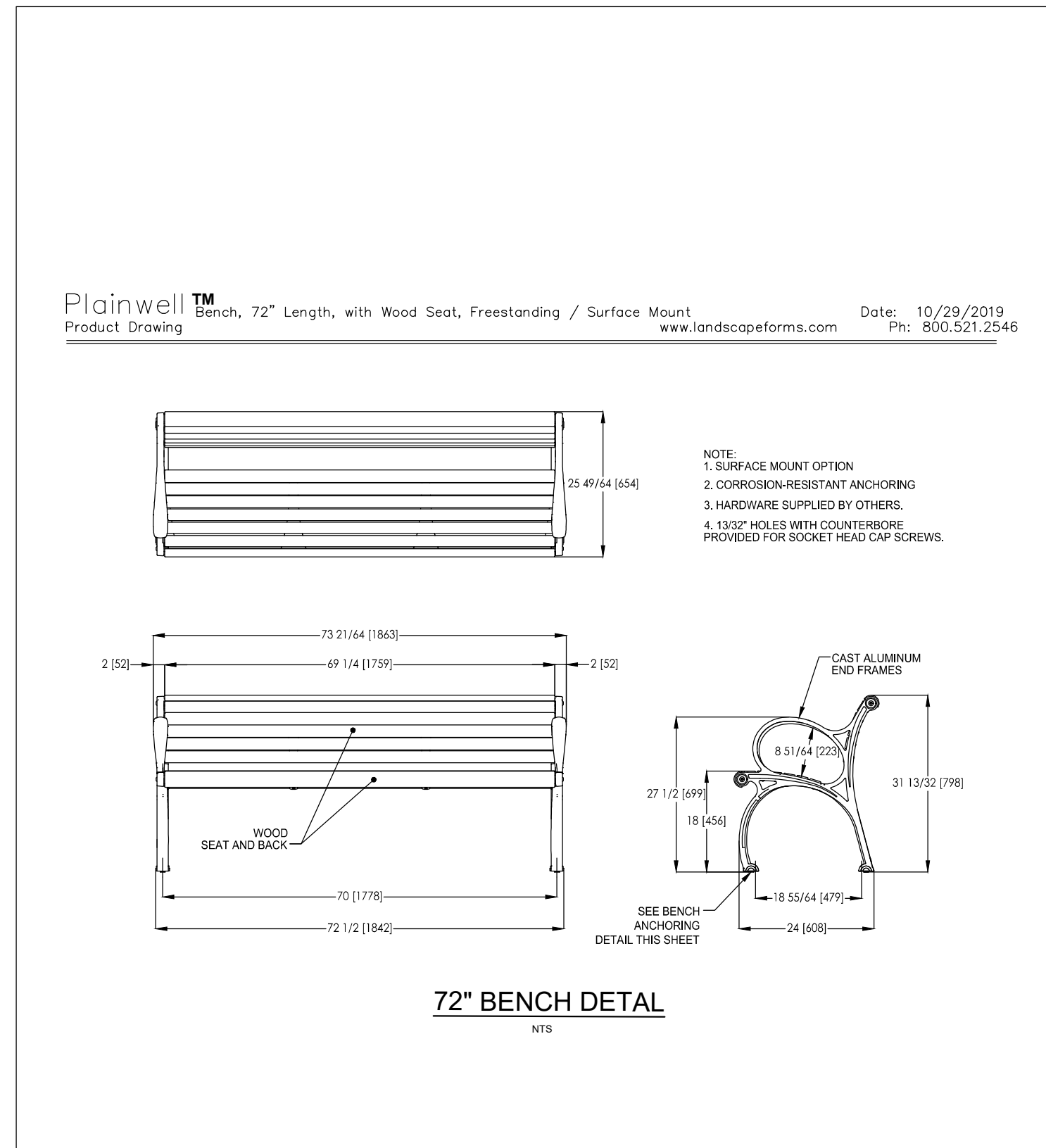
Landscape Notes & Details
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP

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| | | DRAWN BY: DSC CHECKED BY: MJE DATE: 04-11-2025 DRAWING No.: D 2443-04 08 |
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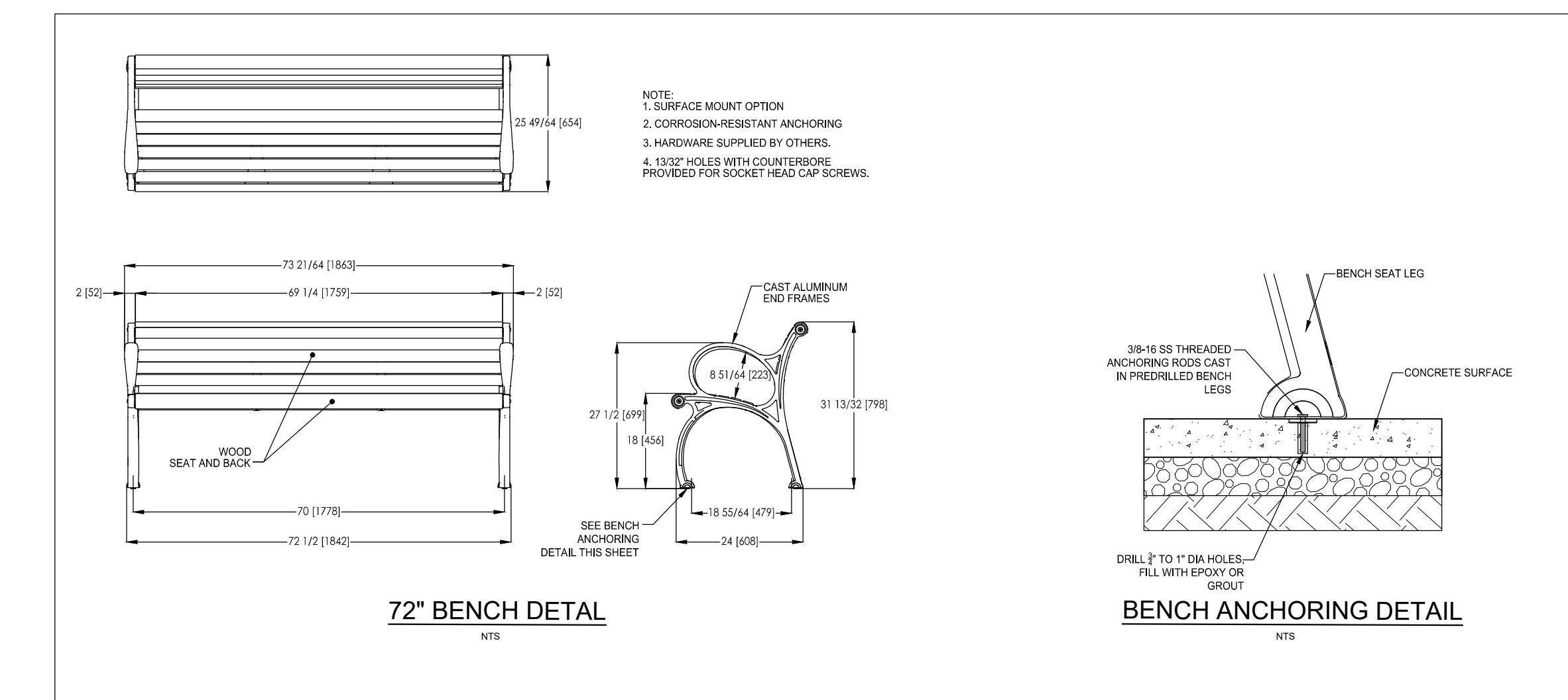
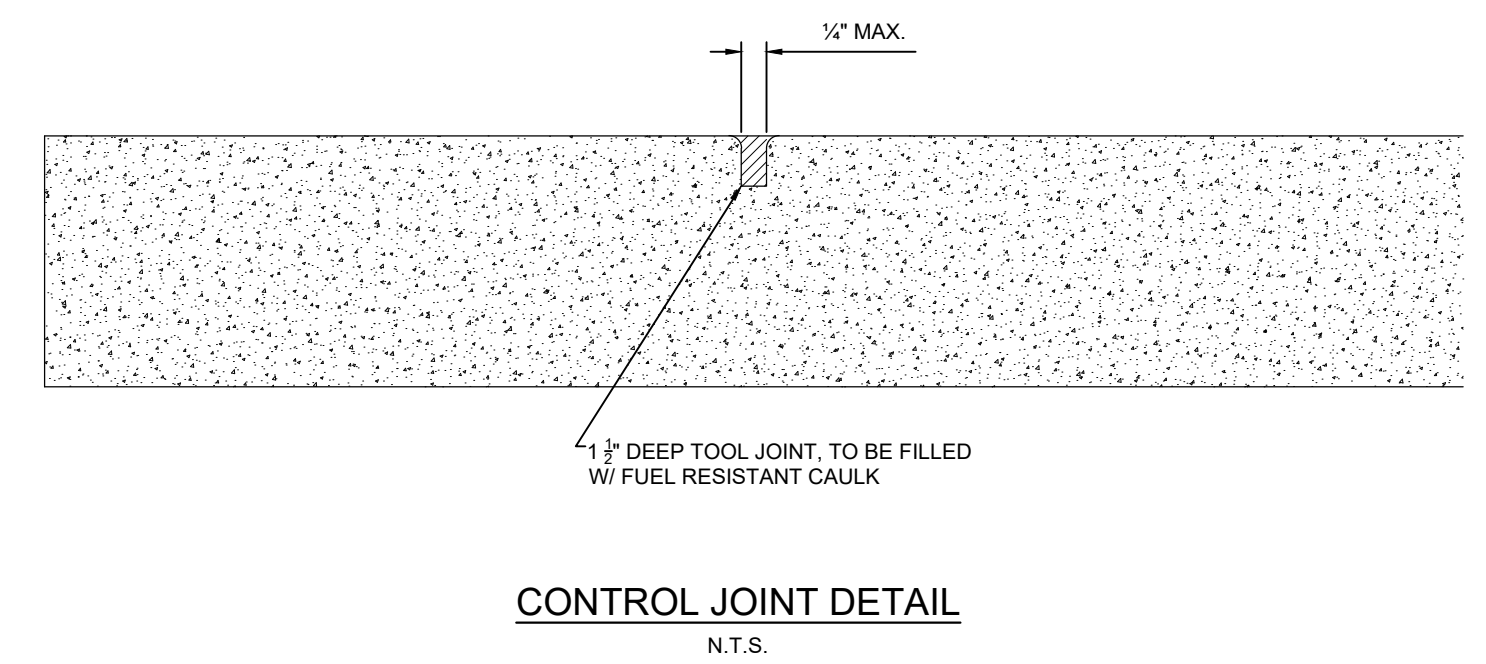
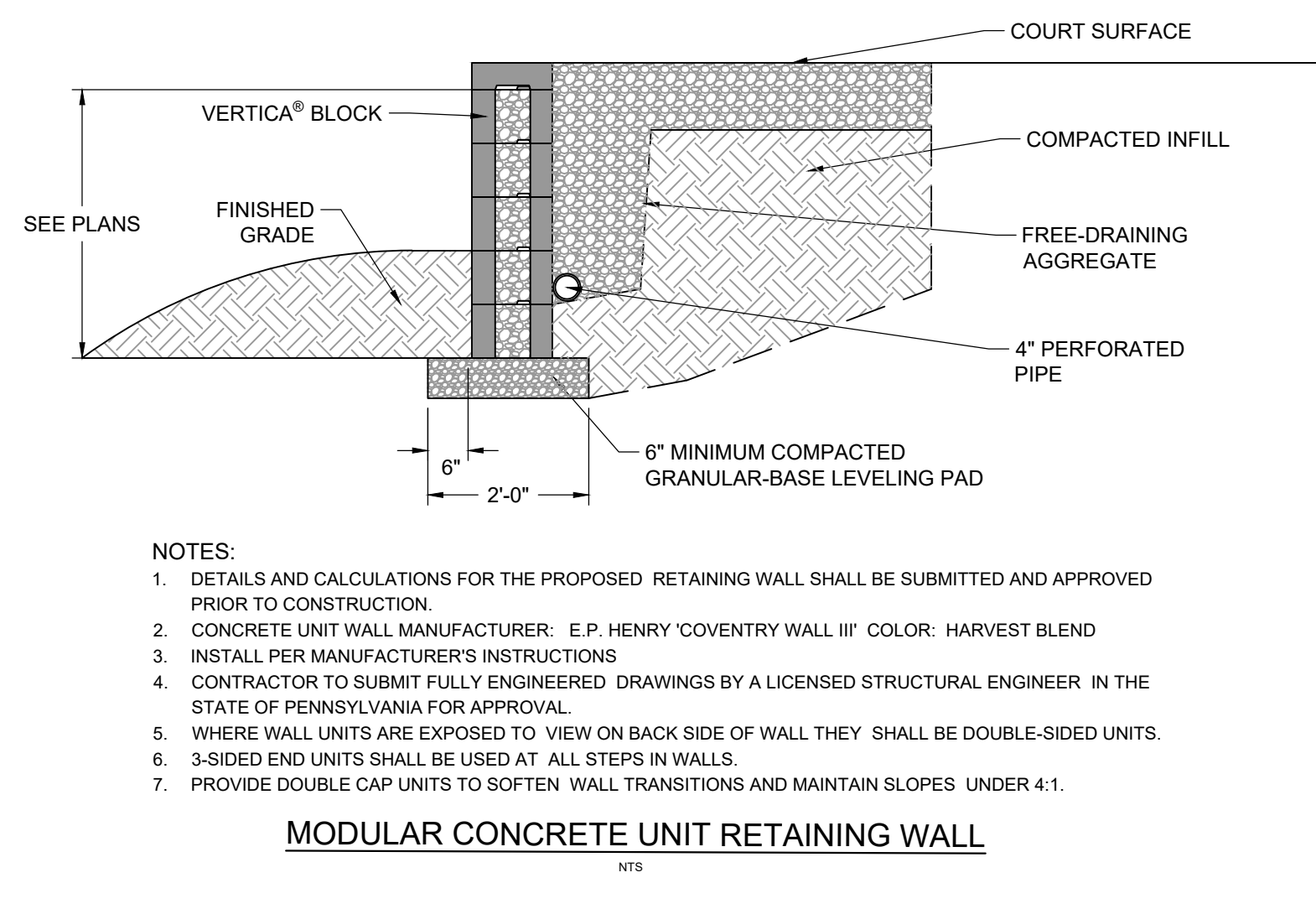
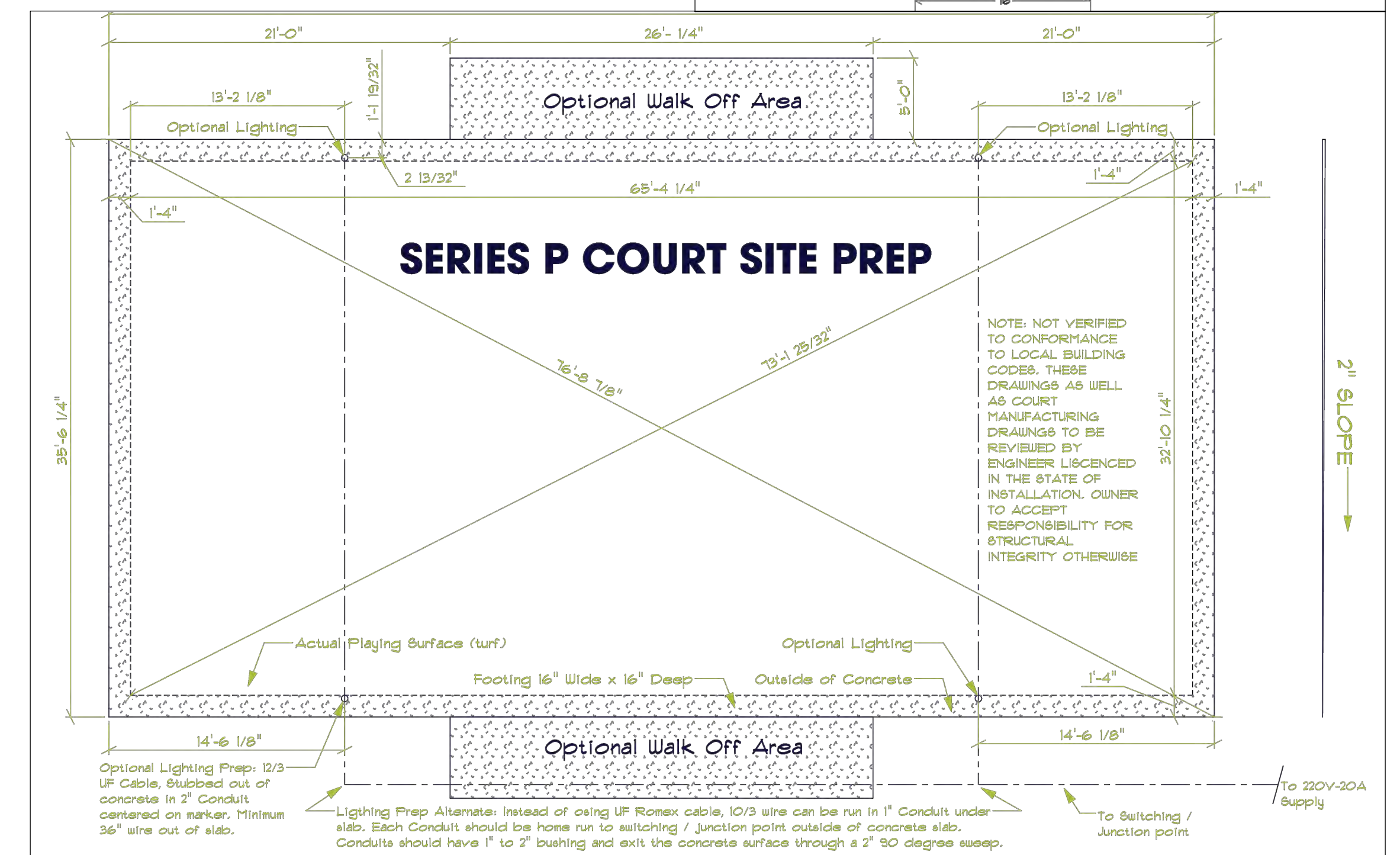
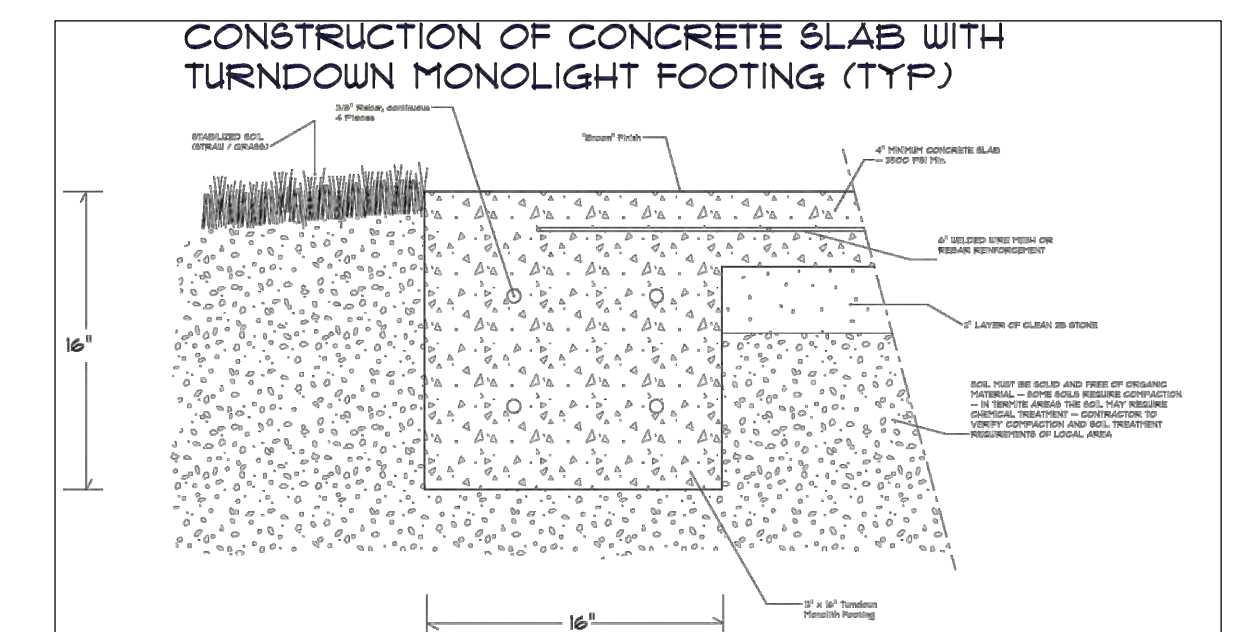
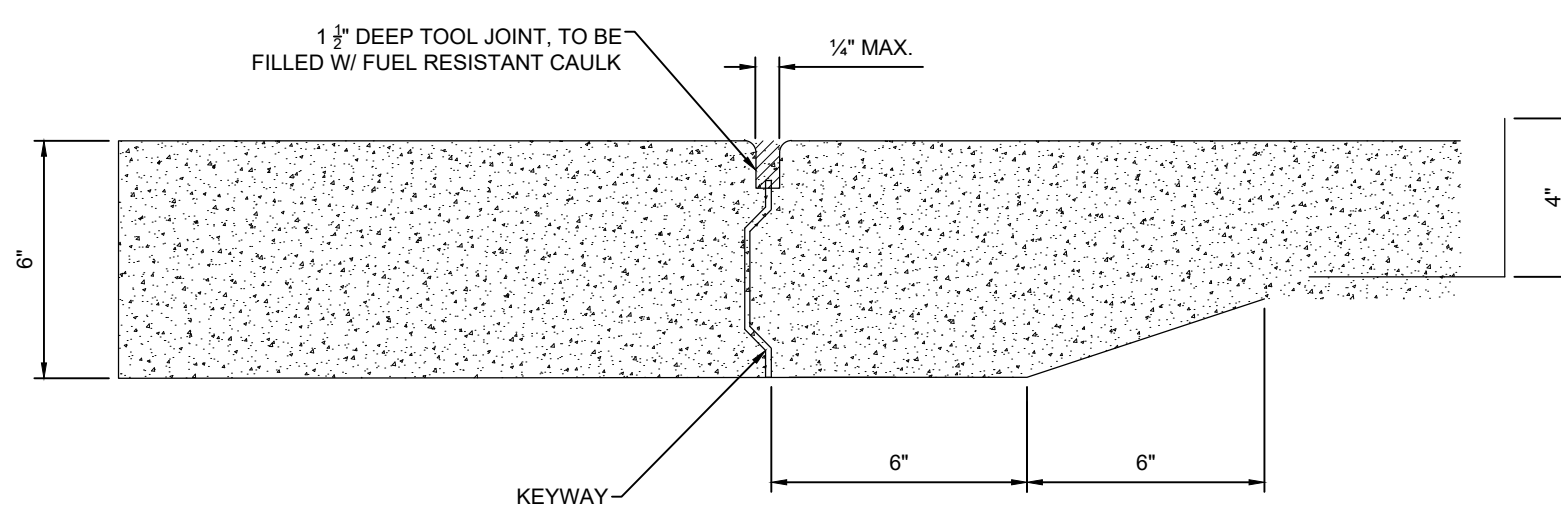
807 Easton Road
 Building B - 2nd Floor
 Willow Grove, PA 19090
 Tel: (215) 348-8757
 Fax: (215) 348-8759
 www.eustaceeng.com

Martin J. Eustace, III, P.E.
 PA Lic. PE048891E

X:\PROJECTS\2400 - 24690\244304 - Green Valley Country Club Padel BallDrainNGS\Land Development\07-04-Landscape Notes & Details.dwg September 12, 2025



1. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT SPECIFICATIONS OF THE PENNDOT FORM 408.
2. 1" PREMOLDED EXPANSION JOINT MATERIAL TO BE PLACED EVERY 40 L.F. AND WHERE THE CONCRETE APRON ABUTS A CURB, BUILDING WALL OR PERMANENT STRUCTURE.
3. CONTROL JOINTS TO BE PLACED EVERY 20 L.F.
4. CONTRACTOR SHALL SUBMIT PATTERN AND COLOR SAMPLES OF STAMPED CONCRETE FOR OWNER APPROVAL.



| | | | |
|---|------------|-----|-------------------------------|
| 3 | 11/08/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 2 | 09/12/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |
| 1 | 08/20/2025 | DSC | LAND DEVELOPMENT RESUBMISSION |

Construction Details
GREEN VALLEY COUNTRY CLUB
PADEL COURTS
 201 RIDGE PIKE, LAFAYETTE HILL, PA - WHITEMARSH TOWNSHIP

EUSTACE
 ENGINEERS | LANDSCAPE ARCHITECTS | SURVEYORS

MARTIN J. EUSTACE, III, P.E.
 807 Easton Road
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 Willow Grove, PA 19090
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 www.eustaceeng.com

PA Lic. PE048891E

| | |
|-------------|--------------|
| DRAWN BY | DSC |
| CHECKED BY | MJE |
| DATE | 04-11-2025 |
| DRAWING No. | D 2443-04 09 |



GVCC Padel Courts

Via Email Delivery

December 11, 2025

To: Samantha Zrillo

**Whitemarsh Township - Planner
616 Germantown Pike Lafayette
Hill, PA 19444-1821**

From: John Hosbach

Applicant: GVCC Padel Courts

Dear Sam,

Pursuant to my site inspection and review of the updated plan, the following are my comments.

Tree survey plan

Plan identifying the size, species, and location of all existing trees having a diameter at breast height (DBH) of six inches or greater and denoting each tree to be saved or removed. All removed trees shall be identified if removed in the past five years.

Tree locations have been shown. There is only one tree – Red Bud. The others are just large shrubs.

Tree Removal

1 tree and numerous shrubs.

Maximum tree removal.

The removal of more than 33% of trees, having a DBH of six inches or greater, on any lot, shall not be permitted.

Compliant - only one tree be condemned



Tree Protection

Denote location and species of each preserved tree and all boundary trees, and the location of tree protection fences, encompassing the dimensions of each root protection zone as established by one of the following two means, whichever is greater:

- [1] Calculated at 1.25 feet (radius) per one inch of (DBH) diameter breast height.
- [2] A circle with a radius extending from a tree's trunk to a point no less than the furthest crown dripline.

The tree protection is adequate for this application. The TPF detail is provided. Most of the plantings are shrubs.

Replacement tree requirement.

Every living and healthy tree with a DBH of six inches or greater and which is designated to be removed or which is destroyed, shall be replaced with one or more new canopy trees, of a type and species approved by the Shade Tree Commission or its designee, with a trunk diameter of not less than three inches in caliper. The total caliper of replacement trees, measured six inches above the ground line, shall equal or exceed the DBH of the removed trees.

The applicant is providing numerous green giants for screening. For this application, this suffices the contribution and objective.

John Rockwell Hosbach Jr., RCA, Urban Forester | Principal

Darrell Campana
607 Easton Road
Building B, 2nd Floor Willow Grove, PA 19090

Email: DSC@EustaceEng.com
Phone: 215-346-8757
Date: 12/17/2025

Shade Tree Commission
Whitemarsh Township
616 Germantown Pike
Lafayette Hill, PA 19444

Re: Request for Waiver – Species of Replacement Trees (Section 55-4.E.)

Dear Shade Tree Commission,

The Applicant respectfully requests a waiver from Section 55-4.E of the Township Code to permit one hundred percent (100%) of the replacement trees to be non-native evergreen species, in lieu of the native species requirements.

The proposed waiver is based on site-specific conditions and the functional need for effective year-round visual buffering and noise mitigation between the subject property and adjacent residential uses. Evergreen species provide continuous screening throughout all seasons, whereas native deciduous species would not achieve the same level of mitigation during winter months.

Additionally, site constraints, including limited planting areas and the presence of utilities, limit the suitability of large native canopy trees. The proposed evergreen species are hardy to the region, noninvasive, compatible with site conditions, and appropriately scaled for long-term viability.

The Applicant believes the proposed planting plan provides an equal or superior alternative to strict compliance with Section 55-4.E, represents the minimum relief necessary, and remains consistent with the intent of the Township Code.

Sincerely,

Darrell Campana
Project Manager
Eustace





WHITEMARSH TOWNSHIP
APPLICATION FOR MINOR EARTH DISTURBANCE PERMIT and/or
REGULATED EARTH DISTURBANCE ACTIVITY

Date Filed: 11/19/25 Date of Completed Application Accepted: _____

Property Owner: Madras Investments 1

Address: 400 Stanton Ave, Plymouth Meeting, PA

Phone #: 215.397.8402 Fax #: _____ Email: WLittleton@Littletonllc.com

Location of Property: Block: _____ Unit(s): _____

Billing Address: 9 River Rd, Conshohocken, PA 19428

Phone #: 215.397.8402 Fax #: _____ Email: wlittleton@littletonllc.com

Scope of Work: Remove existing³ shed buildings + foundation slab;
replace with one building that extends beyond
existing slab footprint.

Does the proposed work affect any other property in any way?

No Yes, please describe: _____

Application must be accompanied by **two (2) copies** of the plan, prepared in accordance with the requirements of Chapter 58 of the Township Code: Grading Erosion Control, Stormwater Management and Best Management Practices. **Five (5) copies of the final plan** must be submitted to the Township for final approval.

Details of the Proposed Work: Cubic Yards of fill/excavated materials: Balanced Fill

Square Feet of new impervious coverage: 0

Square Feet of earth disturbance: 4523

Date of Work to begin: 12/1/25 Date of Work to be completed: 4/1/26

Work being performed by: Littleton Contractors
(if other than owner)

Phone #: 215.397.8402 Fax #: _____ Email: wlittleton@littletonllc.com

All work to be in conformance with all applicable Whitemarsh Township Codes & Ordinances including any amendments thereto.

Signature of Applicant

11/19/25
RECEIVED
NOV 19 2025



Applicant Name: William Littleton

Development Name: _____

Location of Property: 400 Stanton Ave, Plymouth Meeting, PA

Date: 11/19/2025

PROJECT COVER SHEET – Approved at June 6, 2023 Shade Tree Commission Meeting

To verify fulfillment of Chapter 55 Ordinance requirements for:

1. Maximum Tree Removal – 55-4B
2. Tree Replacement – 55-4D(6)(a)
3. Substitutions for Replacements – 55-4F
4. Replacement Tree Species – 55-4E
5. Tree and Shrub requirements for Chapters other than Chapter 55

Complete the following tables, filling in data for each lettered item, and resolving each Compliance Test. In accordance with 55-4C(4)(e), provide this completed Cover Sheet together with the Landscape Plan.

Citations to Sections of Chapter 55 are provided for the convenience of the Applicant. Other Chapters of the Whitemarsh Township Code and other sections of Chapter 55, such as 55-2 Definitions, may be relevant. In the event of an inconsistency between this Cover Sheet and any provision of the Code, the language of the Code shall be controlling.

1) Calculation of Requirement for Maximum Tree Removal – 55-4B:

| | | |
|---|---|---|
| A. | Total of all existing Trees on the lot with DBH of 6" or greater, per 55-4C(3)(a). | |
| B. | 33% of line (A) = maximum existing Trees which may be Removed. | |
| C. | Provide number of existing Trees proposed to be Removed by the Applicant, per 55-4C(3)(a). | 0 |
| COMPLIANCE TEST: If Line (C) is greater than Line (B), the Applicant's proposal is not in compliance with the requirement that no more than 33% of trees having a DBH of six inches or greater may be removed. | | |

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NOV 19 2025

**WHITEMARSH TOWNSHIP
ZONING & ENGINEERING**



2) Calculation of Replacement Requirement for Removed Trees having a DBH of Six Inches or Greater 55-4D(6)(a):

| | | |
|----|---|--|
| D. | Total DBH of all existing Living and Healthy Trees (as determined per 55-4A) having a DBH of 6" or greater that are proposed to be Removed , per 55-4C(3)(a). | |
| E. | Total DBH of all Living and Healthy Trees (as determined per 55-4A) having a DBH of 6" or greater, removed within five years prior to the submission of application , per 55-4C(3)(b). | |
| F. | Sum of line (D) and line (E) = Total DBH that must be replaced for all Removed Living and Healthy Trees. | |
| G. | Total Caliper inches of Canopy Replacement Trees proposed to be planted by the Applicant (as shown on the Landscape Plan) per 55-4D(6)(a). Each Canopy Replacement Tree shall have a minimum Caliper of three inches. | |
| | COMPLIANCE TEST: If Line (G) is less than Line (F), the Applicant's proposal is not in compliance with the minimum Canopy Tree Replacement Requirement. To comply with this requirement, the Applicant may request a waiver from the Shade Tree Commission to permit limited substitutions per 55-4F. If so, proceed to Substitution calculation (3) below. | |

3) Calculation of maximum Proposed Substitutions for Replacement Canopy Trees – 554F, subject to certain limitations and approval by the Shade Tree Commission.

| | | |
|----|---|--|
| H. | 40% of line (F) (round fractions <u>down</u> to a whole number) = maximum Caliper of required Replacement Canopy Trees that may be substituted with Understory Trees and/or FIL, upon STC approval, per 55-4F. | |
| I. | Line (F) less Line (G) = Shortfall in DBH compliance with the minimum Canopy Tree Replacement Requirement , per 55-4D(6)(a). | |
| | COMPLIANCE TEST: If line (H) is less than line (I), the deficit of minimum Canopy Tree Replacement requirement, per 55-4D(6) cannot be fully compensated with Substitutions, per 55-4F. | |



| | | |
|----|---|--|
| J. | Line (I) divided by 3" (round fractions <u>up</u> to a whole number) = Shortfall in the <u>number</u> of required 3" Canopy Replacement Trees. | |
| K. | Provide the total number of substitution Understory Trees proposed to be planted by the Applicant, per 55-4F(1). | |
| L. | Line (K) divided by two = Number of required 3"-cal. Replacement Canopy Trees being substituted with Understory Trees per 55-4F(1). | |
| M. | Line (J) less Line (L) = Number of required 3"-cal. Replacement Canopy Trees proposed by the Applicant to be substituted with payment of in-lieu fees , per 55-4F(2). NOTE: Review proposed Landscape Plan to ensure that the use of Replacement Understory Tree substitutes has been maximized prior to calculating the number of substitutes via in-lieu fees, per 55-4F(4). | |
| N. | Sum of Line (L) and Line (M) = Total proposed number of Replacement Canopy Trees being substituted per 55-4F. | |
| O. | Line (N) multiplied by 3" = Total shortfall of DBH to be fulfilled with substitutions as proposed by this Landscape Plan. | |
| | COMPLIANCE TEST: If (O) is greater than (H), the Applicant's proposal has exceeded the 40% maximum eligible for consideration for Replacement substitutions, per 55-4F, and is not in compliance. | |
| P. | Sum of Line (O) and (G) = Total Caliper compensation for Removed Trees as provided by this proposed Landscape Plan. | |
| | COMPLIANCE TEST: If (P) is less than (F), the Applicant's proposal is not in compliance with the Tree Replacement Requirement. | |

4) Compliance with Species Requirement of Replacement Trees – 55-4E:

| | | |
|----|---|--|
| Q. | Total number of proposed Canopy Replacement Trees , per 55-4C(4)(c). | |
|----|---|--|



| | | |
|----|---|--|
| R. | 75% of line (Q) (round fractions <i>up</i> to the next whole number) = Minimum required number of Native Species Replacement Canopy Trees, per 55-4E. | |
| S. | Provide the number of proposed Native Species Canopy Replacement Trees, per 55-4C(4)(c). | |
| | COMPLIANCE TEST: If Line (S) is less than Line (R), the Applicant's proposal is not in compliance with the 75% Native Species requirement for Replacement Canopy Trees, per 55-4E. | |
| T. | Provide the number of proposed Native Species Understory Trees. | |
| | COMPLIANCE TEST: If Line (T) is less than line (K), the Applicant's proposal is not in compliance with the 100% Native Species requirement for Replacement Understory Trees. | |



5) Compliance with Landscaping Requirements of Other Code Chapters. Complete the following Tables for each applicable requirement.

REQUIRED TREES:

| A | B | C | D* | E | F** |
|---|---|------------------------|---|------------------------|---|
| Full Code Citation: Chapter, sub-chapter, etc. | Subject matter as indicated in Code caption | Required # of Trees | Credits for Preserved Trees per 55-4D(5) | Proposed # of Trees | Column (C) less Column (D) and (E) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

*NOTE: Column (D) Credits are strictly limited to calculating Chapter 105-52 Buffer yards, in accordance with 55-4D(5).
 **NOTE: When the result in Column (F) is greater than zero, the Applicant's proposal is not in compliance with the applicable Code requirement.

REQUIRED SHRUBS:

| A | B | C | D | E* |
|---|---|-------------------------|-------------------------|-------------------------------|
| Full Code Citation: Chapter, sub-chapter, etc. | Subject matter as indicated in Code caption | Required # of Shrubs | Proposed # of Shrubs | Column (C) less Column (D) |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



***NOTE: When the result in Column (E) is greater than zero, the Applicant's proposal is not in compliance with the applicable Code requirement.**

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

| | | | |
|---|---|---|-----------------------|
| LOCATION - 400 STENTON AVENUE, PLYMOUTH MEETING, PA. | | | |
| ZONING INFORMATION | | | |
| ZONING DISTRICT - WHITEMARSH TOWNSHIP - AA RESIDENTIAL DISTRICT | | | |
| LOT AREA | ALLOWABLE / REQUIRED 30,000 S.F. (MIN) | EXISTING 136,734 S.F. | PROPOSED NO CHANGE |
| LOT WIDTH | 135 FT. (MIN) | TO BE DETERMINED BY TWP ZONING OFFICER - LOT CONFIGURATION IS UNCHANGED | |

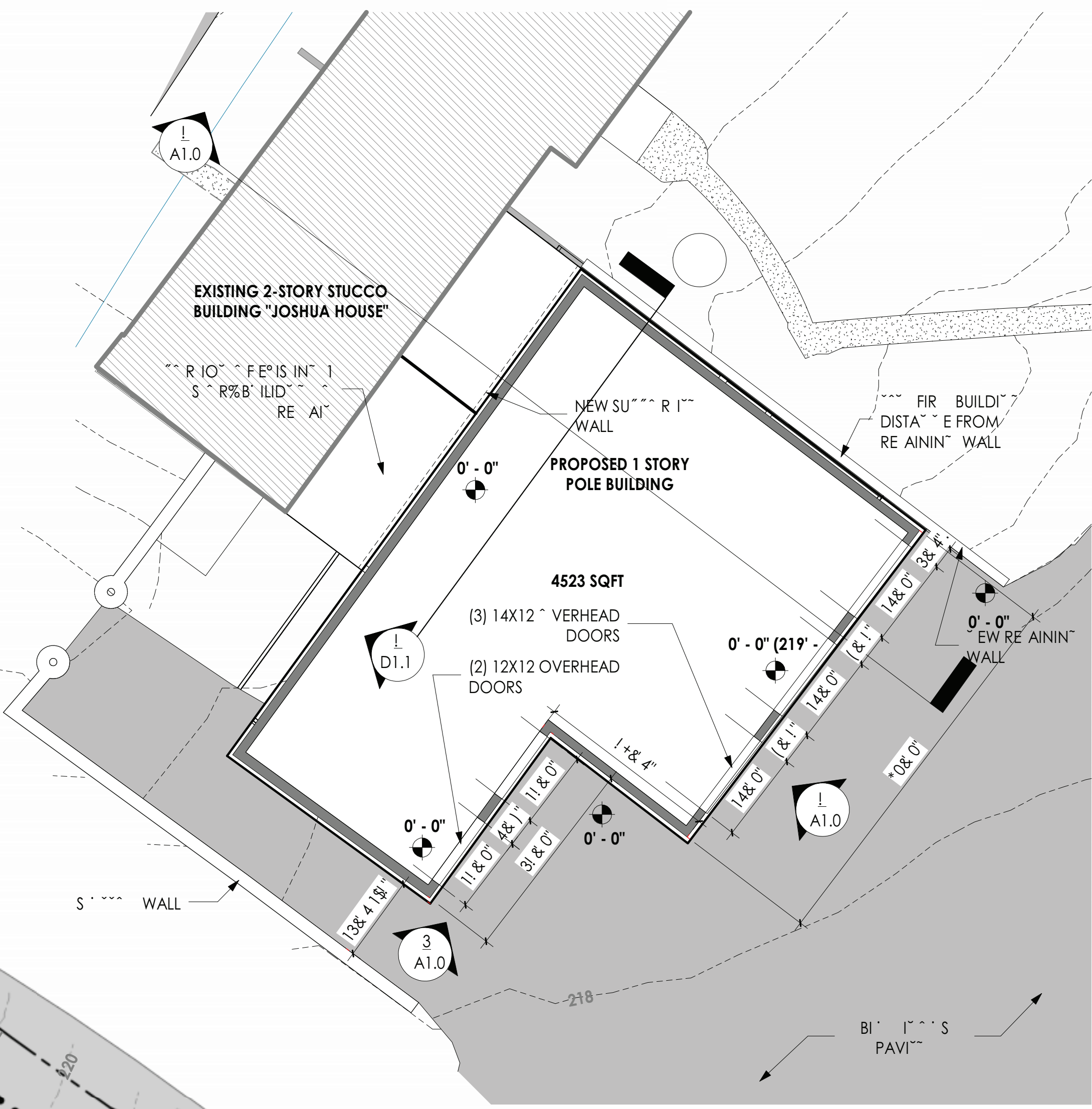
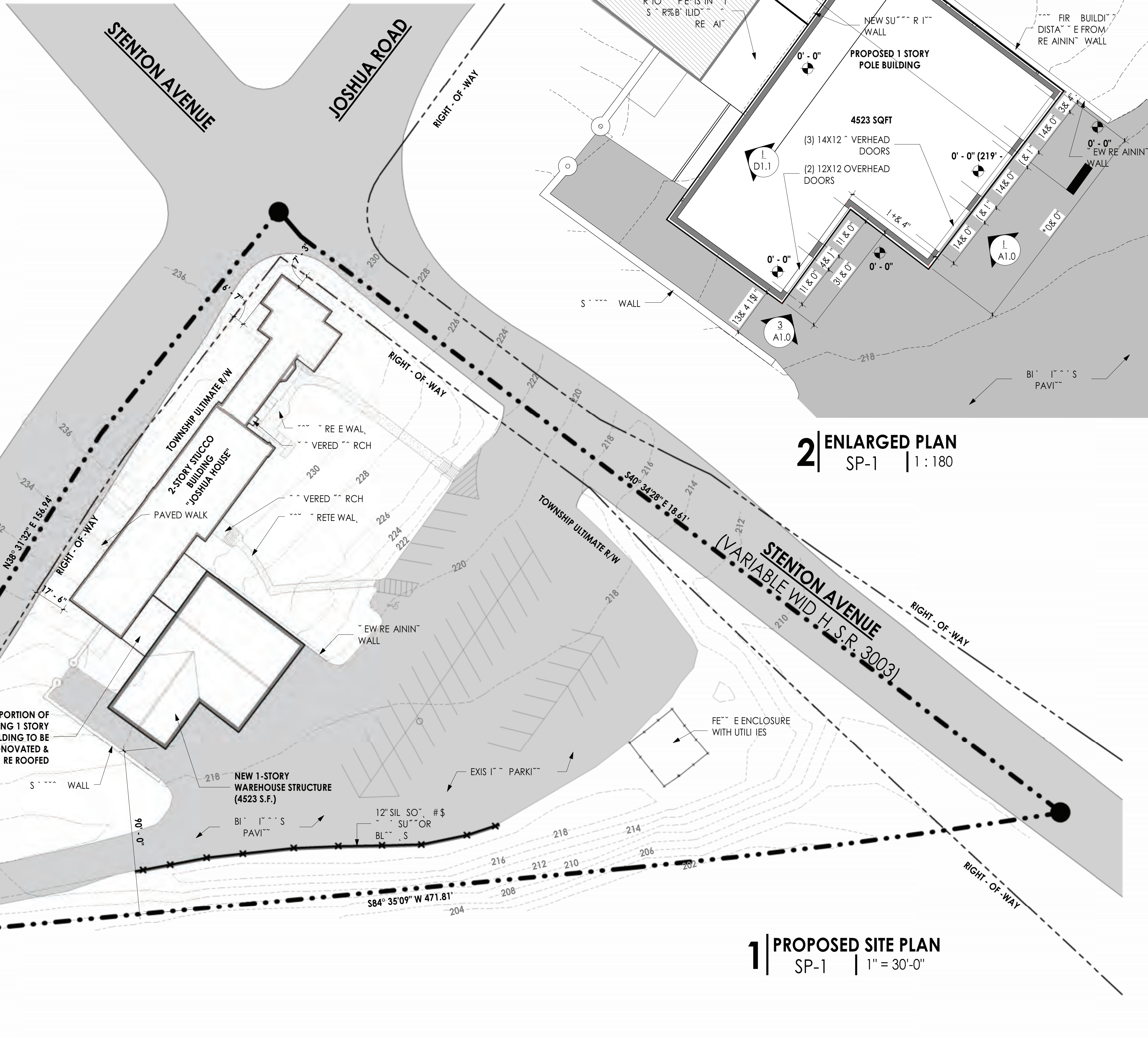
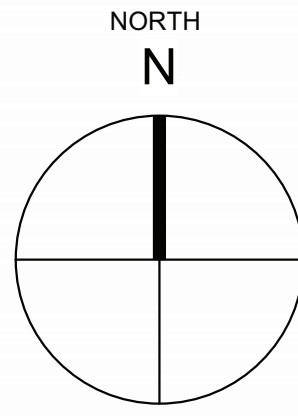
| | | | |
|----------------------|---|--------------------------------|------------------------------|
| SITE COVERAGE | | | |
| BUILDING COVERAGE | ALLOWABLE / REQUIRED 15% OF TOTAL LOT AREA (MAX) | EXISTING 11,193 S.F. (8.2%) | PROPOSED 11,948 SF (8.7%) |
| IMPERVIOUS COVERAGE | | 55,929 S.F. (40.9%) | NO CHANGE |

| | | | |
|-----------------------------------|--|--|---|
| SETBACKS / BUILDING HEIGHT | | | |
| FRONT | ALLOWABLE / REQUIRED 50' (MIN) | EXISTING | PROPOSED |
| REAR | 50' (MIN) | SETBACKS RELATED TO FRONT, SIDE, AND REAR YARD ARE TO BE DETERMINED BY ZONING OFFICER SINCE THE PROPERTY IS A THREE SIDED CORNER LOT - REFER TO SITE PLAN TO SEE THE CLOSEST DIMENSION BETWEEN EACH PROPERTY LINE TO THE EXISTING OR PROPOSED STRUCTURES | |
| SIDE | 25' (AT EACH, MIN) | | |
| BUILDING HEIGHT | 35' (PRINCIPAL BLDG. MAX) 20' (ACCESSORY BLDG. MAX) | (EXISTING BLDG., NO CHANGE) | EXISTING MAX BLDG. HT. IS UNCHANGED - NEW ADDITION BLDG HT: IS 20' - 0" |

| | | |
|-------------------------|---|--|
| PARKING | | |
| OFFICE 1 / 250 S.F. | EXISTING OFFICE = 13,000 S.F. = 52 SP. | PROPOSED OFFICE = 13,000 S.F. = 52 SP. |
| WAREHOUSE 1 / 1000 S.F. | EXISTING WAREHOUSE = 4523 S.F. = 5 SP. | PROPOSED WAREHOUSE = 4,523 S.F. = 5 SP. |
| | TOTAL SPACE REQ. - 57 SP | TOTAL SPACE REQ. - 57 SP |

NOTE: EXISTING PARKING - 44 SPACES (NO CHANGE PROPOSED)

| | |
|----------------------|--|
| SITE PLAN KEY | |
| | 12" SILT SOCK w/ C.M.U. SUPPORT BLOCKS |

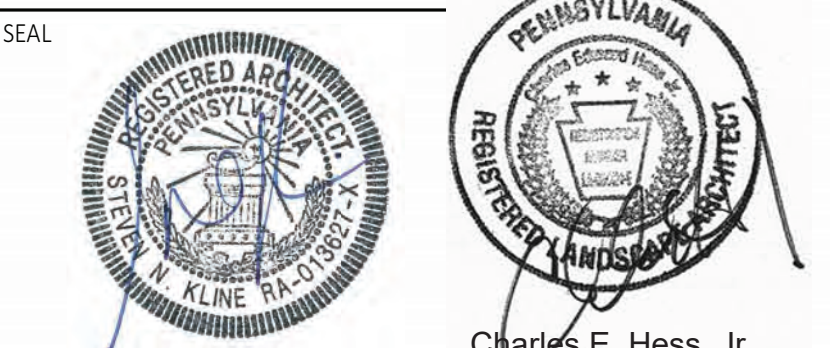


2 | ENLARGED PLAN
SP-1 | 1:180

1 | PROPOSED SITE PLAN
SP-1 | 1" = 30'-0"

CLIENT
OWNER
CLIENT ADDRESS
PHONE

COPYRIGHT RESERVED
THIS DRAWING AND ITS CONTENTS IS THE SOLE PROPERTY OF REGAN KLINE CROSS ARCHITECTS, (RKC). ANY USE OR ALTERATION OF THIS DRAWING BY OTHERS WITHOUT WRITTEN REQUEST AND APPROVAL OF AN RKC PRINCIPAL IS STRICTLY PROHIBITED. FURTHERMORE, ANY USE OF THIS DRAWING BEYOND ITS ORIGINAL INTENT, AS DETERMINED BY RKC, WHETHER AUTHORIZED OR NOT, SHALL HOLD RKC HARMLESS FROM ANY ISSUES RESULTING FROM SAME.



PROJECT ADDRESS
400 S23. 24. Ave. #8 492: 332.;
"A 194*!"

| | |
|------------|--------------|
| DATE | DRAWING NO |
| 11/10/2010 | |
| REVISION | |
| SCALE | As - / 0128/ |

PROJECT
LITTLETON CONTRACTORS - 400 STENTON AVE.

SHEET TITLE
PROPOSED SITE PLAN

DATE
11/10/2010

DRAWING NO
SP-1



JOHN ROCKWELL HOSBACH JR.

Urban Forester
Registered Consulting Arborist #483
ISA Certified Arborist PD-0372

610-731-7969

john@rockwellurbanforestry.com

Via Email delivery

To: Samantha Zrillo
Planner, Whitemarsh Township
616 Germantown Pike
Lafayette Hill, PA 19444-1821
From: John Hosbach Jr., Rockwell Urban Forestry
Date: December 21, 2025
Property/applicant: 400 Stenton Ave
Project: WT – Chapter 55 Review

Dear Sam,

Pursuant to my site inspection and review of the submitted plans for 400 Stenton Avenue, I offer the following comments relative to compliance with Chapter 55 of the Whitemarsh Township Shade Tree Ordinance.

The proposed plan for 400 Stenton Avenue is unique in that all construction activities are confined exclusively to previously disturbed and developed areas of the site. No expansion beyond the existing limits of disturbance (LOD) is proposed.

Based on my review of Chapter 55, the scope of work is unlikely to result in any interaction with exterior trees, as no grading, excavation, or construction activities are proposed outside of the established LOD. Accordingly, trees located outside the limits of disturbance are not anticipated to be impacted, disturbed, or removed as part of the proposed improvements.

As designed, the project appears to be in general conformance with the intent of Chapter 55, as it avoids unnecessary disturbance to protected trees and limits impacts to previously developed areas only. That said, several waivers will be required, as outlined below.

Tree Survey Plan

Chapter 55 requires a plan identifying the size, species, and location of all existing trees having a diameter at breast height (DBH) of six inches or greater, and denoting each tree to be saved or removed, including trees removed within the past five years.



JOHN ROCKWELL HOSBACH JR.

Urban Forester
Registered Consulting Arborist #483
ISA Certified Arborist PD-0372

610-731-7969

john@rockwellurbanforestry.com

Status: Tree locations have not been provided with the submission. As these trees are located outside the proposed construction activities, a waiver will be required for this requirement.

Tree Removal

No trees are proposed for removal.

The ordinance limits the removal of trees six inches DBH or greater to no more than 33% on any lot.

Status: Compliant — no trees are being removed.

Tree Protection

The ordinance requires the identification of preserved and boundary trees, along with the installation of tree protection fencing encompassing the root protection zones, calculated as the greater of:

A radius of 1.25 feet per one inch of DBH; or

A radius extending to the furthest crown dripline.

Status: Tree protection measures have not been provided with this application. As such, a waiver will be required. However, based on my site review, it is unlikely that any exterior vegetation will be impacted by the proposed work.

Replacement Tree Requirement

Replacement trees are required only where living and healthy trees six inches DBH or greater are removed or destroyed.

Status: No trees are proposed for removal; therefore, no replacement trees are required. That said, it may be beneficial for the applicant to consider additional plantings to enhance shade coverage and ornamental value on the site.





ROCKWELL ASSOCIATES

URBAN FORESTRY, NATURAL RESOURCE & LANDSCAPE CONSULTANTS

JOHN ROCKWELL HOSBACH JR.

Urban Forester
Registered Consulting Arborist #483
ISA Certified Arborist PD-0372

 610-731-7969

 john@rockwellurbanforestry.com

At this time, I would like to meet with the applicant onsite to confirm that my observations and assumptions regarding limits of disturbance and tree impacts are accurate.

Please let me know if you have any questions or would like to discuss this review further.

Respectfully submitted,



John Rockwell Hosbach Jr., RCA, Urban Forester | Principal



WHITEMARSH TOWNSHIP
APPLICATION FOR MINOR EARTH DISTURBANCE PERMIT and/or
REGULATED EARTH DISTURBANCE ACTIVITY

Date Filed: _____ Date of Completed Application Accepted: _____

Property Owner: _____

Address: _____

Phone #: _____ Fax #: _____ Email: _____

Location of Property: Block: _____ Unit(s): _____

Billing Address: _____

Phone #: _____ Fax #: _____ Email: _____

Scope of Work: _____

Does the proposed work affect any other property in any way?

No Yes, please describe: _____

Application must be accompanied by **two (2) copies** of the plan, prepared in accordance with the requirements of Chapter 58 of the Township Code: Grading Erosion Control, Stormwater Management and Best Management Practices. **Five (5) copies of the final plan** must be submitted to the Township for final approval.

Details of the Proposed Work: Cubic Yards of fill/excavated materials: _____

Square Feet of new impervious coverage: _____

Square Feet of earth disturbance: _____

Date of Work to begin: _____ Date of Work to be completed: _____

Work being performed by: _____
(if other than owner)

Phone #: _____ Fax #: _____ Email: _____

All work to be in conformance with all applicable Whitemarsh Township Codes & Ordinances including any amendments thereto.

Signature of Applicant

Date



Applicant Name: _____

Development Name: _____

Location of Property: _____

Date: _____

PROJECT COVER SHEET – *Approved at June 6, 2023 Shade Tree Commission Meeting*

To verify fulfillment of Chapter 55 Ordinance requirements for:

1. Maximum Tree Removal – 55-4B
2. Tree Replacement – 55-4D(6)(a)
3. Substitutions for Replacements – 55-4F
4. Replacement Tree Species – 55-4E
5. Tree and Shrub requirements for Chapters other than Chapter 55

Complete the following tables, filling in data for each lettered item, and resolving each Compliance Test. In accordance with 55-4C(4)(e), provide this completed Cover Sheet together with the Landscape Plan.

Citations to Sections of Chapter 55 are provided for the convenience of the Applicant. Other Chapters of the Whitemarsh Township Code and other sections of Chapter 55, such as 55-2 Definitions, may be relevant. In the event of an inconsistency between this Cover Sheet and any provision of the Code, the language of the Code shall be controlling.

1) Calculation of Requirement for Maximum Tree Removal – 55-4B:

| | | |
|----|---|--|
| A. | Total of all existing Trees on the lot with DBH of 6” or greater, per 55-4C(3)(a). | |
| B. | 33% of line (A) = maximum existing Trees which may be Removed. | |
| C. | Provide number of existing Trees proposed to be Removed by the Applicant, per 55-4C(3)(a). | |
| | COMPLIANCE TEST: If Line (C) is greater than Line (B), the Applicant’s proposal is not in compliance with the requirement that no more than 33% of trees having a DBH of six inches or greater may be removed. | |



2) Calculation of Replacement Requirement for Removed Trees having a DBH of Six Inches or Greater 55-4D(6)(a):

| | | |
|----|---|--|
| D. | Total DBH of all existing Living and Healthy Trees (as determined per 55-4A) having a DBH of 6” or greater that are proposed to be Removed , per 55-4C(3)(a). | |
| E. | Total DBH of all Living and Healthy Trees (as determined per 55-4A) having a DBH of 6” or greater, removed within five years prior to the submission of application , per 55-4C(3)(b). | |
| F. | Sum of line (D) and line (E) = Total DBH that must be replaced for all Removed Living and Healthy Trees. | |
| G. | Total Caliper inches of Canopy Replacement Trees proposed to be planted by the Applicant (as shown on the Landscape Plan) per 55-4D(6)(a). Each Canopy Replacement Tree shall have a minimum Caliper of three inches. | |
| | COMPLIANCE TEST: If Line (G) is less than Line (F), the Applicant’s proposal is not in compliance with the minimum Canopy Tree Replacement Requirement. To comply with this requirement, the Applicant may request a waiver from the Shade Tree Commission to permit limited substitutions per 55-4F. If so, proceed to Substitution calculation (3) below. | |

3) Calculation of maximum Proposed Substitutions for Replacement Canopy Trees – 554F, subject to certain limitations and approval by the Shade Tree Commission.

| | | |
|----|---|--|
| H. | 40% of line (F) (round fractions <u>down</u> to a whole number) = maximum Caliper of required Replacement Canopy Trees that may be substituted with Understory Trees and/or FIL, upon STC approval, per 55-4F. | |
| I. | Line (F) less Line (G) = Shortfall in DBH compliance with the minimum Canopy Tree Replacement Requirement , per 55-4D(6)(a). | |
| | COMPLIANCE TEST: If line (H) is less than line (I), the deficit of minimum Canopy Tree Replacement requirement, per 55-4D(6) cannot be fully compensated with Substitutions, per 55-4F. | |



| | | |
|----|---|--|
| J. | Line (I) divided by 3" (round fractions <u>up</u> to a whole number) = Shortfall in the <u>number</u> of required 3" Canopy Replacement Trees. | |
| K. | Provide the total number of substitution Understory Trees proposed to be planted by the Applicant, per 55-4F(1). | |
| L. | Line (K) divided by two = Number of required 3"-cal. Replacement Canopy Trees being substituted with Understory Trees per 55-4F(1). | |
| M. | Line (J) less Line (L) = Number of required 3"-cal. Replacement Canopy Trees proposed by the Applicant to be substituted with payment of in-lieu fees , per 55-4F(2). NOTE: Review proposed Landscape Plan to ensure that the use of Replacement Understory Tree substitutes has been maximized prior to calculating the number of substitutes via in-lieu fees, per 55-4F(4). | |
| N. | Sum of Line (L) and Line (M) = Total proposed number of Replacement Canopy Trees being substituted per 55-4F. | |
| O. | Line (N) multiplied by 3" = Total shortfall of DBH to be fulfilled with substitutions as proposed by this Landscape Plan. | |
| | COMPLIANCE TEST: If (O) is greater than (H), the Applicant's proposal has exceeded the 40% maximum eligible for consideration for Replacement substitutions, per 55-4F, and is not in compliance. | |
| P. | Sum of Line (O) and (G) = Total Caliper compensation for Removed Trees as provided by this proposed Landscape Plan. | |
| | COMPLIANCE TEST: If (P) is less than (F), the Applicant's proposal is not in compliance with the Tree Replacement Requirement. | |

4) Compliance with Species Requirement of Replacement Trees – 55-4E:

| | | |
|----|---|--|
| Q. | Total number of proposed Canopy Replacement Trees , per 55-4C(4)(c). | |
|----|---|--|



| | | |
|----|---|--|
| R. | 75% of line (Q) (round fractions <u>up</u> to the next whole number) = Minimum required number of Native Species Replacement Canopy Trees, per 55-4E. | |
| S. | Provide the number of proposed Native Species Canopy Replacement Trees, per 55-4C(4)(c). | |
| | COMPLIANCE TEST: If Line (S) is less than Line (R), the Applicant's proposal is not in compliance with the 75% Native Species requirement for Replacement Canopy Trees, per 55-4E. | |
| T. | Provide the number of proposed Native Species Understory Trees. | |
| | COMPLIANCE TEST: If Line (T) is less than line (K), he Applicant's proposal is not in compliance with the 100% Native Species requirement for Replacement Understory Trees. | |



5) Compliance with Landscaping Requirements of Other Code Chapters. Complete the following Tables for each applicable requirement.

REQUIRED TREES:

| A | B | C | D* | E | F** |
|---|---|------------------------|---|------------------------|--|
| Full Code Citation: Chapter; sub-chapter, etc. | Subject matter as indicated in Code caption | Required # of Trees | Credits for Preserved Trees per 55-4D(5) | Proposed # of Trees | Column (C) less Columns (D) and (E) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

***NOTE:** Column (D) Credits are strictly limited to calculating Chapter 105-52 Buffer yards, in accordance with 55-4D(5).

****NOTE:** When the result in Column (F) is greater than zero, the Applicant's proposal is not in compliance with the applicable Code requirement.

REQUIRED SHRUBS:

| A | B | C | D | E* |
|---|---|-------------------------|-------------------------|-------------------------------|
| Full Code Citation: Chapter; sub-chapter, etc. | Subject matter as indicated in Code caption | Required # of Shrubs | Proposed # of Shrubs | Column (C) less Column (D) |
| | | | | |
| | | | | |



| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

****NOTE: When the result in Column (E) is greater than zero, the Applicant's proposal is not in compliance with the applicable Code requirement.***

INVOICE

*** Duplicate ***

Hold

Page:

1

Holly Days Nursery, Inc.
1201 Horsham Road
Ambler, PA 19002
215-283-3228
www.hollydaysnursery.com
sales@hollydaysnursery.com

Invoice #: 101-H9288
Invoice Date: 10/3/25
Station: 101-BRENDA

Sold to: Union League Liberty Hill, LLC
800 Ridge Pike
Lafayette Hill, PA 19444 USA
615-825-8000
Audrey Siebert - AP

Ship to:

Customer #: 101-39527 Ship date: Ship-via Code
Sales Rep: BRENDA Location: 101 Terms: Net due in 30 days

| Quantity | Description | Size | Price | Ext Price |
|----------|---------------------------|------|--------|-----------|
| 12 | Viburnum pragense cont 7g | 7GAL | 65.00 | 780.00 |
| 6 | Picea abies 6-7' | 6-7' | 175.00 | 1,050.00 |
| 6 | Picea glauca 6-7' | 6-7' | 185.00 | 1,110.00 |
| 6 | Picea omorika 6-7' | EACH | 205.00 | 1,230.00 |
| 5 | Abelia 'John Creech' 3g | 3GAL | 28.50 | 142.50 |
| 1 | Delivery charge | EACH | 250.00 | 250.00 |

0661-60130
John F. Leonard
10/14/25

- Pres for Delivery Screening

| | | | |
|--------------|---------------------|----------------|----------|
| User: BRENDA | Total line items: 6 | Sale subtotal: | 4,562.50 |
| | | Tax: | 0.00 |
| | | Total: | 4,562.50 |

Total savings: \$1,926.33

Website: www.hollydaysnursery.com
Thank you for shopping at Holly Days!
Returned checks subject to \$30 bank fee.





Holly Days

NURSERY, GARDEN CENTER & LANDSCAPING

1201 Horsham Road
Ambler, PA 19002
215-283-3228

Website: www.hollydaysnursery.com

Ticket #102-05520 User: POS
Station: POS 3 Sales Rep: BRENDA
10/20/2025 12:41:33 PM Drawer: POS 3

| Item Description | Qty | Unit | Price | Total |
|-------------------------------|-----|------|----------|------------|
| 10469 Picea abies 6-7' | 6 | 6-7' | \$175.00 | \$1,050.00 |
| 12410 Abelia 'John Creech' 3g | 4 | 3GAL | \$28.50 | \$114.00 |
| Subtotal | | | | \$1,164.00 |
| Total | | | | \$1,164.00 |

Tender:
Accts Rcvble (Due on Ac) \$1,164.00

Number of items purchased: 10
*** Total discount \$477.96

101-39527
Union League Liberty Hill, LLC

Thank you for shopping at Holly Days!
Returned checks subject to \$30 bank fee.



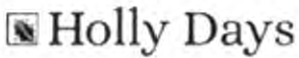
* 2 1 2 3 9 3 5 2 7 6 1 9 *

0661-60130

John F. Larson

10/23/25

- Thus to finish driveway
screening.



NURSERY GARDEN CENTER & LANDSCAPING

INVOICE
*** Duplicate ***

Page:

1

Holly Days Nursery, Inc.
1201 Horsham Road
Ambler, PA 19002
215-283-3228
www.hollydaysnursery.com
sales@hollydaysnursery.com

Invoice #: 101-92877
Invoice Date: 5/28/25
Station: POS 1

Sold to: Union League Liberty Hill, LLC
800 Ridge Pike
Lafayette Hill, PA 19444 USA
615-825-8000
Audrey Siebert - AP

Ship to:

Customer #: 101-39527 Ship date: Ship-via Code
Sales Rep: BRENDA Location: 101 Terms: COD

| Quantity | Description | Size | Price | Ext Price |
|----------|------------------|------|--------|-----------|
| 6 | Picea abies 6-7' | 6-7' | 175.00 | 1,050.00 |

0661-60130

John Flannery

5/29/25

-Trees to screen at neighbors-

| | | | |
|--------------|---------------------|----------------|----------|
| User: TAMMEY | Total line items: 1 | Sale subtotal: | 1,050.00 |
| | | Tax: | 0.00 |
| | | Total: | 1,050.00 |

| | |
|-------------------------------|----------|
| Tender: | |
| Accts Rcvble (Due on Account) | 1,050.00 |
| Net tender: | 1,050.00 |

Total savings: \$444.00

Website: www.hollydaysnursery.com
Thank you for shopping at Holly Days!
Returned checks subject to \$30 bank fee.

101-92877

Holly Days

NURSERY, GARDEN CENTER, & LANDSCAPING

1201 Horsham Road
Ambler, PA 19002
215-283-3228

Website: www.hollydaysnursery.com

Ticket #102-06485 User: POS
Station:POS 3 Sales Rep BREND
11/4/2025 9:57:53 AM Drawer: POS 3

| Item | Qty | Unit | Price | Total |
|------------------------------------|-----|------|---------|----------|
| 1302 | 10 | 7GAL | \$65.00 | \$650.00 |
| Viburnum pragense cont 7g | | | | |
| 4274 | 3 | 5GAL | \$45.00 | \$135.00 |
| Ilex verticillata 'Red Sprite'. 5g | | | | |
| 830 | 1 | 3GAL | \$30.00 | \$30.00 |
| Ilex verticillata 'Jim Dandy' 3g | | | | |
| Subtotal | | | | \$815.00 |
| Total | | | | \$815.00 |

Tender:
Accts Rcvble (Due on Ac \$815.00

[Handwritten Signature]

Number of items purchased:14
*** Total discount \$297.86

101-39527
Union League Liberty Hill, LLC

Thank you for shopping at Holly Days!
Returned checks subject to \$30 bank fee.



* 2 1 2 3 0 8 4 1 4 6 6 1 *

November 26, 2025

VIA EMAIL

Mr. Craig T. McAnally
Township Manager
Whitemarsh Township
616 Germantown Pike
Lafayette Hill, PA 19444

**Reference: *Union League at Liberty Hill - Ballroom
Partial Waiver Request
Whitemarsh Township, Montgomery County, Pennsylvania
Nave Newell No. 2021-045.07***

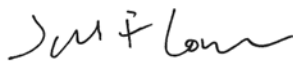
Dear Mr. McAnally:

On the behalf of our client, The Union League Liberty Hill, and in accordance with the Whitemarsh Township Tree Protection Standards (Ch 55), the applicant respectfully requests the following partial waiver and/or modification from the cited provisions of the ordinance.

- 1.) Section 55-4.D.6. | Replacement Tree Requirement. A partial waiver is sought to permit the required tree replacement plantings to be satisfied by 30 new trees previously planted on the property earlier this year (2025). The previously planted trees are of adequate size and quantity to satisfy the required trees dictated by the ballroom project disturbance. Additionally, it should be noted that the 30 previously planted trees were not required and were solely supplemental to other landscaping already on the property. The ballroom project will remove only six trees, five of which are smaller ornamental trees between six and ten inches in diameter. There is not a significant impact to existing trees as a result of this project and therefore we would respectfully request that the previously planted trees on the property be considered appropriate replacement plantings.

Should you have any questions, or wish to discuss this request further, please contact me at (610) 265-8323 or via email at jlowman@navenewell.net.

Sincerely,



Jared Lowman, RLA

cc (via email): Michelle Christensen, Union League Liberty Hill
Chris Condon, Tobin Peters
Robert Careless, Cozen O'Connor

K:\21proj\21045_Union_League_at_Liberty_Hill\RevResp\Township\McAnally_Waiver_ltr_25-11-26.docx

December 23, 2025

VIA EMAIL

Ms. Krista Heinrich
Township Engineer
Whitemarsh Township
616 Germantown Pike
Lafayette Hill, PA 19444

**Reference: *Union League at Liberty Hill – Ballroom
Earth Disturbance Permit (Grading Permit) – Follow up Plan Submission
Whitemarsh Township, Montgomery County, PA
Nave Newell No. 2021-045.07***

Dear Ms. Heinrich:

On behalf of our client, The Union League Liberty Hill, please find enclosed the following items for a follow up to our Earth Disturbance Permit (Grading Permit) submission that was originally submitted on 10/31/2025.

1. Union League Liberty Hill – Ballroom Grading Permit Plan, dated 10/31/2025 and last revised 12/22/2025

We are in receipt of an email from Chris Condon that was sent to Whitemarsh Township on 12/19/2025, confirming the following that needed to be addressed in support of the previously submitted EDP plan:

1. Show the tire wash location inside of the fence in construction zone.
Response: The proposed tire wash/ rock construction entrance is shown on drawing sheet C2.0 (sheet 2 of 10) and drawing sheet C8.0 (sheet 8 of 10) and it is within the proposed limit of disturbance. We have also added a concrete washout to both aforementioned drawing sheets and were sure to show it being a minimum of 100' away from all trees that we are proposing to protection with fencing.
2. Show a detail for the township required chain link fence tree protection.
Response: After speaking with Ms. Samantha Zrillo via phone call it was confirmed that there is no PDF of a Tree Protection Fence Detail but there is a bulleted list in chapter 55 of the Whitemarsh Township code which lists the requirements for tree protection fencing. These requirements have been added to drawing sheet 2 of 10 and have been titled "Tree Protection and Preservation/ Protective Fencing Notes".

3. Show the location of trees being protected.

Response: We are now showing tree protection fence around the existing trees that are to be protected during construction on drawing sheet 2 of 10 and drawing sheet 8 of 10.

4. Provide a tree schedule listing existing trees to be protected, canopy or understory, and species. (native or not).

Response: We have added a table titled "Existing Trees Near L.O.D. to Be Protected" on drawing sheet 2 of 10 which lists the quantity, size, species, canopy/understory, and native/non-native.

5. Provide a tree schedule listing trees being removed and the same info as above.

Response: We have revised the table titled "Existing Trees to be Removed" on drawing sheet 2 of 10 to now list all of the required information for the existing trees that are proposed to be removed during construction. There is also a note below the table that reads "There are no trees within the limit of disturbance that will be preserved" for clarity.

If you have any questions regarding the submission and attached documents. Please do not hesitate to contact me at (610) 265-8323 or at jlowman@navenewell.net

Sincerely,

Jared F. Lowman, RLA



Enclosure

cc (via email):

Michelle Christensen, CCM – The Union League Liberty Hill Ballroom
Chris Condon – TobinPeters Project Management

GRADING PERMIT PLANS

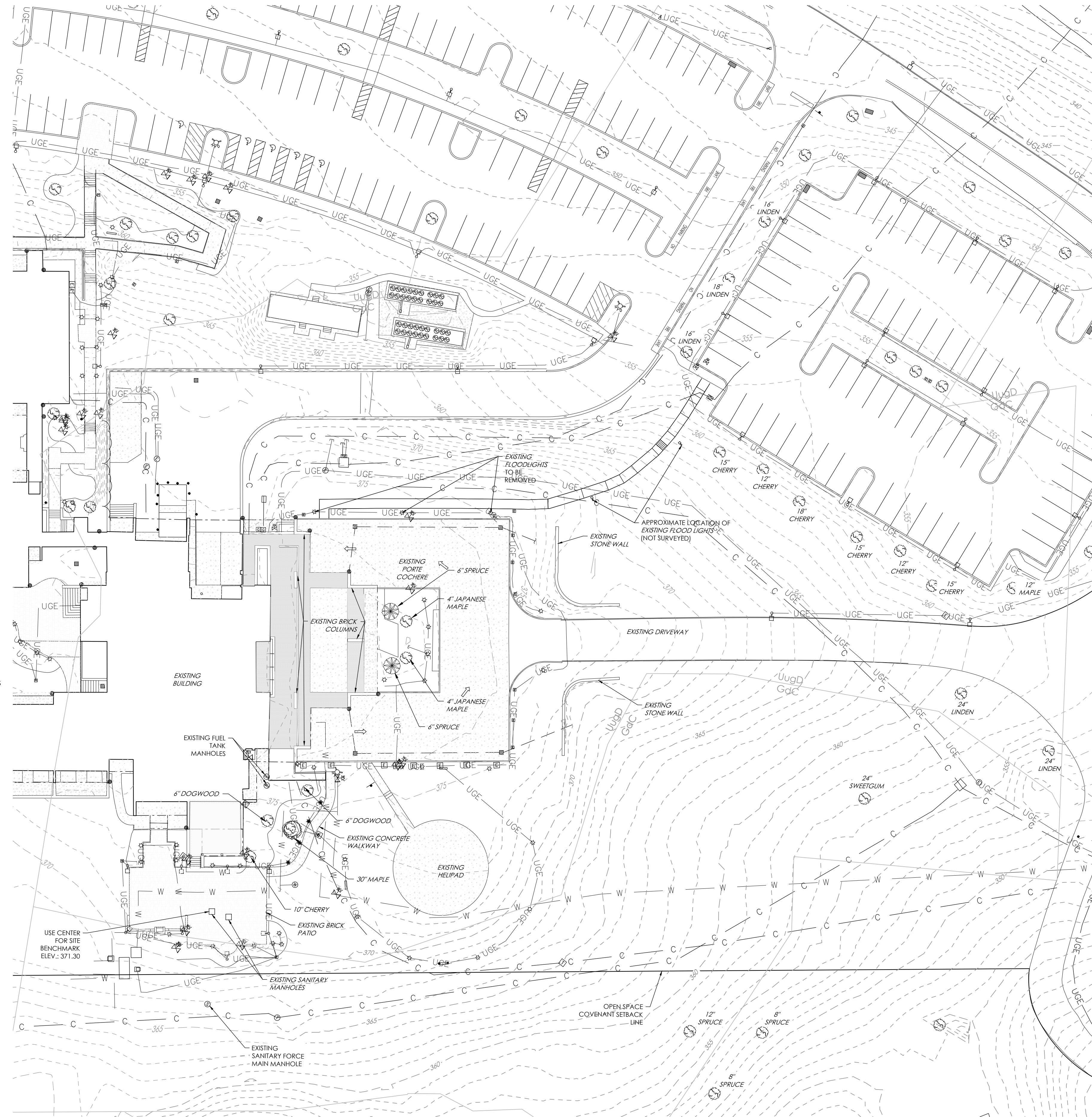
| PLAN INDEX | | | |
|--------------|--|------------|---------------------|
| SHEET NUMBER | SHEET TITLE | SHEET DATE | SHEET REVISION DATE |
| 1 | EXISTING FEATURES PLAN | 10/31/2025 | |
| 2 | DEMOLITION PLAN | 10/31/2025 | 12/22/2025 |
| 3 | SITE CONTEXT PLAN | 10/31/2025 | |
| 4 | SITE PLAN | 10/31/2025 | |
| 5 | GRADING PLAN | 10/31/2025 | |
| 6 | UTILITY PLAN | 10/31/2025 | |
| 7 | STORM PROFILE PLAN | 10/31/2025 | |
| 8 | EROSION AND SEDIMENTATION CONTROL PLAN | 10/31/2025 | 12/22/2025 |
| 9 | EROSION AND SEDIMENTATION CONTROL DETAIL SHEET | 10/31/2025 | 12/22/2025 |
| 10 | CONSTRUCTION DETAIL SHEET | 10/31/2025 | |

WAIVER OF LAND DEVELOPMENT

A WAIVER OF LAND DEVELOPMENT WAS GRANTED BY THE WHITEMARSH TOWNSHIP BOARD OF SUPERVISORS ON THURSDAY, OCTOBER 9TH, 2025.

GENERAL NOTES:

- THIS PLAN IS BASED ON A SURVEY CONDUCTED IN THE FIELD BY HOWELL ENGINEERING COMPLETED ON JUNE 4, 2025.
- THIS SURVEY REPRESENTS CONDITIONS AS OF THE DATE OF THE SURVEY EXCEPT SUCH IMPROVEMENTS OR EASEMENTS, IF ANY, THAT MAY BE LOCATED BELOW THE SURFACE OF THE LAND, ON THE SURFACE OF THE LANDS OR ABOVE THE SURFACE OF THE LANDS AND NOT VISIBLE.
- TITLE TO THE SUBJECT PROPERTY IS FILED IN THE MONTGOMERY COUNTY COURT HOUSE IN DEED BOOK 6222 PAGE 00754 IN THE WHITEMARSH TOWNSHIP, COUNTY OF MONTGOMERY, PENNSYLVANIA.
- BEARING BASIS FOR THE SURVEY IS THE RECORD DEED AS REFERENCED IN NOTE 3. ABOVE.
- LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREIN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS, PLANS BY OTHERS AND/OR ABOVE GROUND EXAMINATION OF SITE. THE COMPLETENESS OR ACCURACIES OF THE LOCATIONS ARE NOT GUARANTEED. SHOULD ANY NEW CONSTRUCTION BE PROPOSED, THE CONTRACTOR MUST VERIFY LOCATIONS AND DEPTHS OF ALL UTILITIES BEFORE START OF WORK.
- SITE BENCHMARK (ELEVATION: 371.30) REFER TO CALL OUT OF EXISTING SANITARY MANHOLE ON EXISTING FEATURES DRAWING (C1.0).
- PURSUANT TO ACT 199 "PENNSYLVANIA ONE CALL INC." WAS PLACED, INFORMATION THEREBY OBTAINED WAS USED TO ILLUSTRATE EXISTING UTILITIES.
- NO REVIEW OF THE PROPERTY REGARDING THE PRESENCE OF WETLANDS WAS ACCOMPLISHED AS A PART OF THIS SURVEY.
- NO REVIEW OF THE PROPERTY REGARDING THE PRESENCE OF HAZARDOUS MATERIAL WAS ACCOMPLISHED AS A PART OF THIS SURVEY.
- UNIT AND BLOCK NUMBERS REFER TO THE OFFICIAL TAX MAPS OF WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA.
- EXISTING GRADES AS SHOWN ARE BASED ON AN ASSUMED VERTICAL DATUM.
- IF CONTRACTOR DEVIATES FROM THE PLANS AND/OR SPECIFICATIONS WITHOUT FIRST OBTAINING THE WRITTEN AUTHORIZATION OF THE OWNER, NAVE NEWELL, INC., AND THE JURISDICTIONAL AUTHORITIES, THE CONTRACTOR SHALL BE LIABLE AND RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS AND/OR SPECIFICATIONS, ALL FINES AND/OR PENALTIES ASSESSED, AND ALL COMPENSATORY, CONSEQUENTIAL, AND/OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR IS ON NOTICE THAT BY DEVIATING FROM SUCH PLANS AND/OR SPECIFICATIONS, THE CONTRACTOR IS ASSUMING THE RISK OF ALL SUCH DAMAGES, AND CONTRACTOR WILL BE SUBJECT TO INDEMNITY, CONTRIBUTION, AND/OR HOLD HARMLESS CLAIMS FROM THE OWNER AND/OR NAVE NEWELL, INC. FOR ALL SUCH LIABILITIES.



SOILS LEGEND:

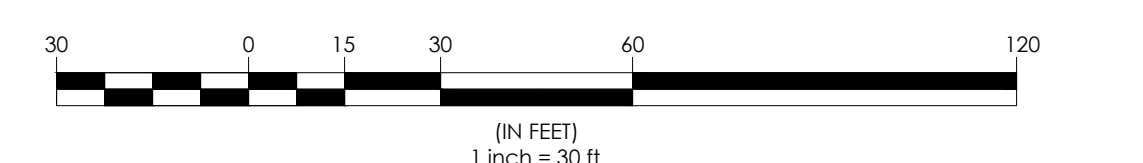
SOILS INFORMATION OBTAINED FROM THE USDA-NRCS WEB SOIL SURVEY, VERSION 19, SURVEY PERFORMED ON SEPTEMBER 5, 2024.

GdC - GLADSTONE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES HSG: B
 UgdG - URBAN LAND-UDORTHERTS, SCHIST AND GNEISS COMPLEX, 8 TO 25 PERCENT SLOPES HSG: C

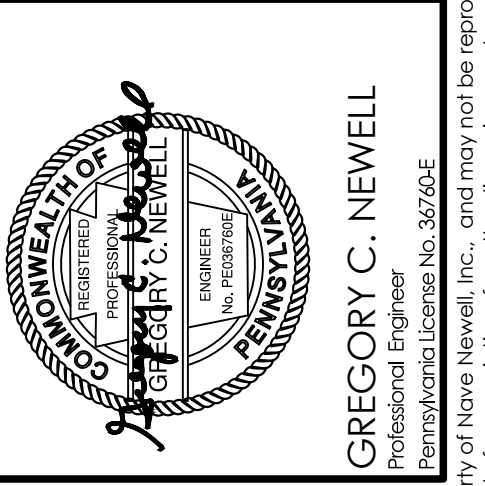
| SOIL LIMITATIONS AND RESOLUTIONS | | |
|----------------------------------|---|--|
| APPLICABILITY TO PROJECT | SOIL LIMITATION | RESOLUTION(S) |
| YES | CUTBANKS CAVE | PROVIDE APPROPRIATE BENCHING AND/OR SHORING IN AREAS OF EXCAVATION. |
| YES | CORROSIVE TO CONCRETE/STEEL | INSTALL REBAR TO MINIMUM COVER REQUIREMENTS AND USE EPOXY COATED REBAR. APPLY MOISTURE BARRIER TO SURFACE OF EXPOSED CONCRETE. |
| YES | DROUGHTY | SOIL SHOULD BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. ANY RECOMMENDATIONS PRESCRIBED BY THE GEOTECHNICAL ENGINEER SHALL BE FOLLOWED PRIOR TO USE ON SITE. |
| YES | EASILY ERODIBLE | SOILS SHALL BE STABILIZED WITH EITHER TEMPORARY OR FINAL STABILIZATION IN AREAS WHERE EARTHWORK IS DELAYED OR STOPPED FOR FOUR CONSECUTIVE DAYS. |
| NO | FLOODING | AVOID DEVELOPMENT IN FLOOD PRONE AREAS. |
| NO | DEPTH TO SATURATED ZONE / SEASONAL HIGH WATER TABLE | SOILS SHOULD BE EVALUATED FOR WETNESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WET FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |
| YES | HYDRIC / HYDRIC INCLUSIONS | SOILS TO BE EVALUATED BY GEOTECHNICAL SPECIALIST. WATER TABLE EVALUATION WILL BE REQUIRED, POSSIBLY IN AREA OF WETLANDS. |
| YES | LOW STRENGTH / LANDSLIDE PRONE | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| YES | SLOW PERCOLATION | SOIL TO BE EVALUATED FOR SUITABILITY FOR INFILTRATION PRACTICES. |
| NO | PIPING | AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM. |
| YES | POOR SOURCE OF TOPSOIL | SOIL SHOULD BE AMENDED AS RECOMMENDED TO PROVIDE ADEQUATE MATERIALS NECESSARY FOR REQUIRED PLANT GROWTH. |
| YES | FROST ACTION | SOILS SHOULD BE FREE OF FROZEN OR MUCKY MATERIALS. FILL SHOULD NOT BE PLACED ON SATURATED OR FROZEN SURFACES. EARTHWORK INVOLVING THESE SOILS SHOULD BE LIMITED TO THE WARMER MONTHS WHEN PRACTICAL. |
| YES | SHRINK - SWELL | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| NO | POTENTIAL SINKHOLE | SOILS SHOULD BE EVALUATED FOR SINKHOLE ACTIVITY. INFILTRATION PRACTICES SHOULD BE AVOIDED IN THESE AREAS OR APPLIED WITH CONSIDERATION TO MINIMIZING INFILTRATION RATE. APPLY RECOMMENDATIONS FROM GEOTECHNICAL SPECIALIST. AVOID PLACING INFILTRATION PRACTICES, IF NEEDED, CLOSE TO BUILDINGS OR PRINCIPAL STRUCTURES. ENSURE ALL DRAINAGE SYSTEMS ARE WATERTIGHT. |
| NO | PONDING | ANY PONDING WATER SHALL BE PUMPED TO A LOCATION OF NO PONDING. ANY SEDIMENT LADEN WATER OR POTENTIALLY SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH A SEDIMENT CONTROL BMP SUCH AS PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS. |
| NO | WETNESS | SOILS SHOULD BE EVALUATED FOR WETNESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WET FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |

LEGEND

| | |
|--|-------------------------------------|
| | EXISTING PROPERTY BOUNDARY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING DRIVEWAY |
| | EXISTING BUILDING |
| | EXISTING SIDEWALK/ CONCRETE WALKWAY |
| | EXISTING BRICK WALKWAY |
| | EXISTING TREES |
| | EXISTING UNDERGROUND ELECTRIC LINE |
| | EXISTING STORM SEWER |
| | EXISTING COMMUNICATIONS LINE |
| | EXISTING WATER LINE |
| | EXISTING IRRIGATION VALVE |
| | EXISTING STORM INLET |
| | EXISTING HYDRANT |



| DATE | NO. | DESCRIPTION | REVISIONS |
|------------|-----|-----------------------|-----------|
| 12/22/2025 | | PER TOWNSHIP COMMENTS | |



DRAWING NAME: EXISTING FEATURES PLAN
 UNION LEAGUE AT LIBERTY HILL - BALLROOM
 WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA
 LOCATION:

| | |
|----------------------------|---------------------|
| project no. 2021-045.07 | drawn by: CC |
| date: 10/31/2025 | chk'd by: GCN |
| scale: 1" = 30' | approved by: GCN |
| sheet no. | |

C1.0

1 of 10

DEMOLITION NOTES:

- LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREIN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS, PLANS BY OTHERS, ABOVE GROUND EXAMINATION OF THE SITE AND/OR PRIVATE UTILITY LOCATION COMPANY. THE COMPLETENESS OR ACCURACY OF THE LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR MUST VERIFY LOCATIONS AND DEPTHS OF ALL UTILITIES BEFORE START OF WORK.
- PRIOR TO STARTING CONSTRUCTION, ALL UTILITY SERVICES IN THE AREA ARE TO BE LOCATED, THE USER NOTIFIED, AND MEASURES TAKEN TO PROTECT THE LINES IN ACCORDANCE WITH PA ACT 287, AS AMENDED. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT PA "ONE-CALL" AT LEAST 72 HOURS TO ANY EXCAVATION OR DEMOLITION ON SITE.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF DEMOLITION.
- THE EXISTING ASPHALT TO BE RESURFACED SHALL BE PATCHED, FILLED AND/OR REPAIRED AS NECESSARY PRIOR TO THE APPLICATION OF THE WEARING COURSE.
- IN ALL AREAS WHERE FINISHED PAVING IS TO BE PROVIDED, THE CONTRACTOR IS TO BREAK APART EXISTING ASPHALT TO EXISTING SUBBASE STONE, FOLLOWING MILLING, THE EXPOSED SUBGRADE SHALL BE INSPECTED FOR ITS SUITABILITY AS PAVEMENT SUBBASE. IN AREAS WHERE EXISTING ASPHALT WILL BE CONVERTED TO GREEN SPACE OR BUILDING, THE CONTRACTOR IS TO MILL OUT THE EXISTING ASPHALT FOR ITS REUSE ON-SITE AS SUBBASE IN PROPOSED ASPHALT PAVEMENT AREAS. ALL FILL MEASURES TO BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL SPECIFICATIONS.
- WHERE IMPROVEMENTS ARE PROPOSED TO THE INTO EXISTING FEATURES, THE EXISTING FEATURES SHALL BE FIELD VERIFIED FOR ELEVATION AND LOCATION. IF FIELD LOCATED DATA IS DIFFERENT THAN THE DATA CONTAINED WITHIN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY NAVE NEWELL, INC. PRIOR TO ANY DESIGN CHANGES.
- THE PAVEMENT SECTION AREA DELINEATED ON THE PLANS TO BE MODIFIED SHALL BE USED AS GUIDANCE. EXPANSION OR CONTRACTION OF THIS AREA AT THE TIME OF THIS LOCATION TO EXISTING PAVEMENT, SIDEWALK, DRIVEWAY APRONS, AND LOADING AREAS AS THE FIELD CONDITIONS WARRANT. ALL PAVEMENT SEAMS SHALL BE SEALED.
- SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE DISCONNECTION, ABANDONMENT, RELOCATION AND/OR REMOVAL OF ALL APPLICABLE ON-SITE UTILITIES, IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS WELL AS ANY REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
- ALL DEMOLITION SHALL BE PERFORMED BY A QUALIFIED, LICENSED CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- THIS PLAN IS NOT INTENDED TO DEPICT ALL FACETS AND ITEMS TO BE ADDRESSED DURING THE COURSE OF DEMOLITION ACTIVITIES. THIS PLAN IS INTENDED TO REPRESENT ONLY THE READILY VISIBLE, EXISTING IMPROVEMENTS ON-SITE. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE CONDITION PRIOR TO FINALIZING HIS BID AND PROVIDE ALL NECESSARY DEMOLITION SERVICES REQUIRED TO COMPLETE THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS. UPON INITIATION OF DEMOLITION, CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD IMMEDIATELY, SHOULD CONFLICTS ARISE IN THE FIELD.
- CONTRACTOR IS TO EXERCISE CARE WHEN REMOVING PAVEMENT OVER EXISTING PIPES TO REMAIN. DURING CONSTRUCTION, CONTRACTOR SHALL TAKE STEPS TO MAINTAIN ADEQUATE COVER OVER ALL EXISTING PIPES TO REMAIN AND TO PREVENT CONSTRUCTION TRAFFIC FROM DAMAGING SAID PIPES. IF THE EXISTING PIPES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM IN KIND AT THE CONTRACTOR'S COST.
- ALL PAVEMENT WITHIN THE LIMITS OF DISTURBANCE NOT SCHEDULED TO BE REMOVED SHALL BE MILLED AND OVERLAID WITH 1.5" ID-2 BITUMINOUS WEARING COURSE. MILLING AND OVERLAYING SHALL BE PERFORMED TO MAKE PATCHING NONVISUAL WHEN COMPLETED.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN REMOVING EXISTING UTILITIES TO PREVENT ANY DISTURBANCE TO UTILITIES THAT ARE TO REMAIN. IF SAID REMAINING UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY REPAIRS.
- ALL UTILITIES TO BE ABANDONED AND LEFT IN PLACE SHALL BE PLUGGED AND FILLED WITH FLOWABLE CONCRETE.
- ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION.
- CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

TREE PROTECTION AND PRESERVATION/ PROTECTIVE FENCING NOTES:

- TREE PROTECTIVE FENCING SHALL BE PLACED AROUND THE ROOT PROTECTION ZONE. THE FENCING SHALL BE AT LEAST SIX FEET TALL WITH TWO-INCH MESH CHAIN LINK FABRIC, TWO-INCH SIX-GAUGE ALUMINUM WIRES AT 24 INCHES ON CENTER. POSTS SHALL BE A MINIMUM OF TWO FEET IN THE GROUND AND SPACE OF 10 FEET ON CENTER. PLASTIC TIE RIPS MAY NOT BE USED IN PLACE OF REQUIRED SIX-GAUGE ALUMINUM WIRE.
- THE PROTECTIVE FENCING SHALL BE INSTALLED WITH CARE TO AVOID ROOTS AND PLACED ENCOMPASSING THE ENTIRE ROOT PROTECTION ZONE OF INDIVIDUAL OR GROUPS OF CONTIGUOUS TREES. FENCING SHALL BE INSTALLED PRIOR TO ANY WORK BEING CONDUCTED, E.G., GRUBBING, EXCAVATION, GRADING, TRENCHING, CLEANING, OR INSTALLATION OF SILT FENCING/ COMPOST FILTER SOCK. THE PROTECTIVE FENCING SHALL BE MAINTAINED THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION.
- NO FUEL STORAGE, REFUELING OR MAINTENANCE OF EQUIPMENT, OR WASH DOWN OF CEMENT HANDLING EQUIPMENT SHALL BE PERMITTED WITHIN 100 FEET OF ANY TREE TO BE PRESERVED.
- NO ACTIVITY OF ANY SORT RELATING TO TRANSPORTING, DEMOLITION, GRADING, CONSTRUCTION, STORAGE, OR ANY OTHER ACTIVITIES SHALL OCCUR BEYOND THE LIMIT OF DISTURBANCE MARKED BY THE PROTECTIVE FENCING. NOTHING SHALL BE STORED, STOCKPILED, TEMPORARILY PLACED, OR ALLOWED TO ACCUMULATE IN THE ROOT PROTECTION ZONE.
- ANY DAMAGE TO THE FENCING OR ENCROACHMENT ON THE PROTECTED AREAS SHALL BE REMEDIATED IMMEDIATELY. ANY OBSERVED DAMAGE TO THE TREES SHALL BE IMMEDIATELY REPORTED TO THE TOWNSHIP AND REMEDIATED AS SOON AS IS PRACTICABLE. AT THE DISCRETION OF THE SHADE TREE COMMISSION, PRESERVED TREES THAT HAVE NOT BEEN ADEQUATELY PROTECTED OR HAVE BEEN DAMAGED MAY BE REQUIRED TO BE REMOVED AND REPLACED AT THE EXPENSE OF THE APPLICANT.

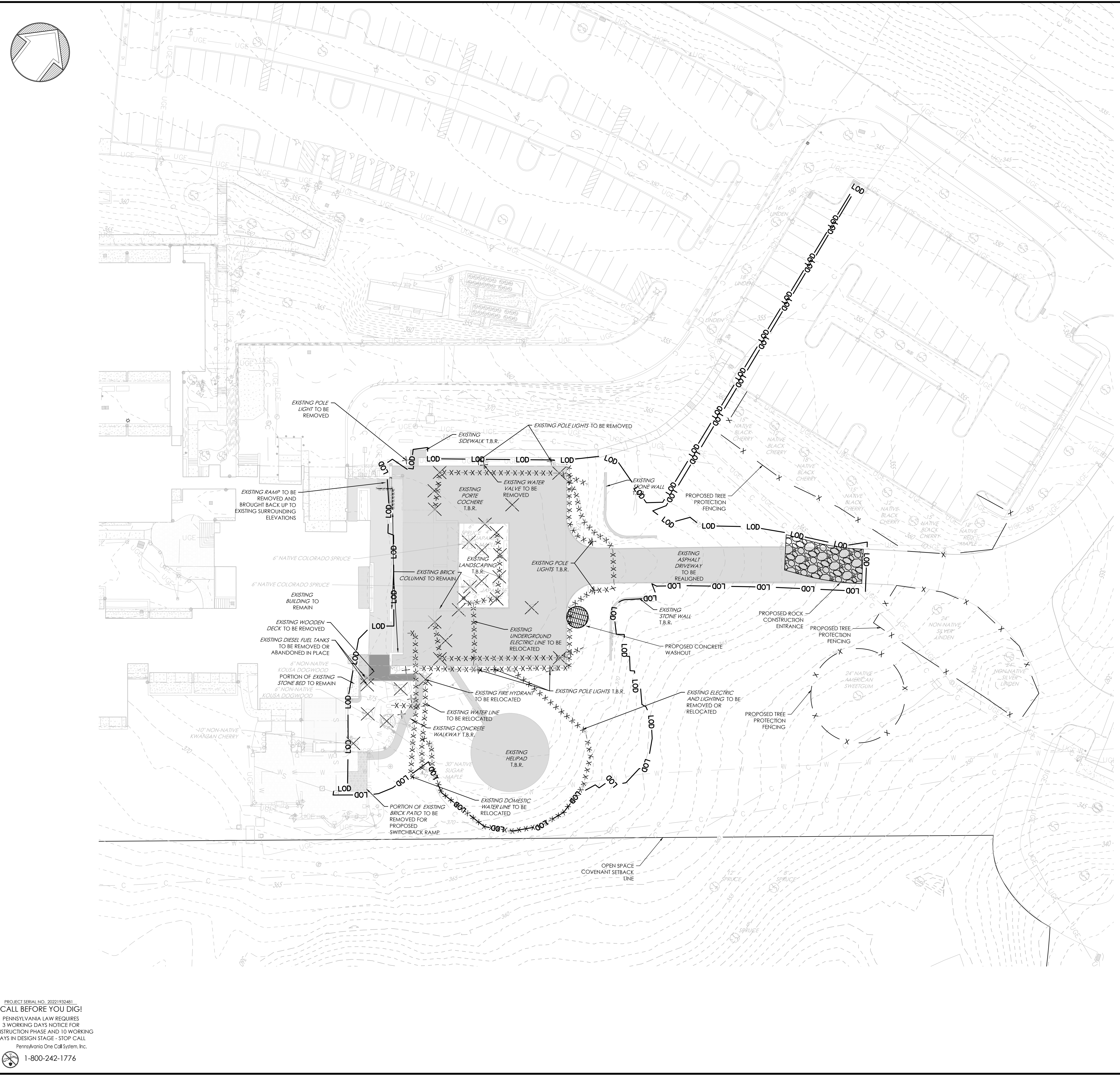
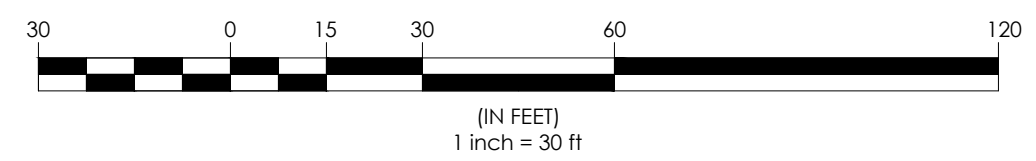
| QUANTITY PROTECTED | SIZE | SPECIES | NOTES | NATIVE/NON-NATIVE |
|--------------------|------|--------------------|--------|-------------------|
| 1 | 12" | RED MAPLE | CANOPY | NATIVE |
| 3 | 15" | BLACK CHERRY | CANOPY | NATIVE |
| 2 | 12" | BLACK CHERRY | CANOPY | NATIVE |
| 1 | 18" | BLACK CHERRY | CANOPY | NATIVE |
| 2 | 24" | SILVER LINDEN | CANOPY | NON-NATIVE |
| 1 | 24" | AMERICAN SWEET GUM | CANOPY | NATIVE |

| QUANTITY REMOVED | SIZE | SPECIES | NOTES | NATIVE/NON-NATIVE |
|------------------|------|-----------------|------------|-------------------|
| 1 | 30" | SUGAR MAPLE | CANOPY | NATIVE |
| 1 | 10" | KAWNAZAN CHERRY | UNDERSTORY | NON-NATIVE |
| 2 | 6" | KOUSA DOGWOOD | UNDERSTORY | NON-NATIVE |
| 2 | 6" | COLORADO SPRUCE | UNDERSTORY | NATIVE |

NOTE: THERE ARE NO TREES WITHIN THE LIMIT OF DISTURBANCE THAT WILL BE PRESERVED

LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING DRIVEWAY
- EXISTING DWELLING
- EXISTING SIDEWALK/ CONCRETE WALKWAY
- EXISTING BRICK/PATIO WALKWAY TO REMAIN
- EXISTING TREES
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORM SEWER
- EXISTING COMMUNICATIONS LINE
- EXISTING WATER LINE
- EXISTING TREE/ FEATURE TO BE REMOVED
- EXISTING IMPERVIOUS TO BE REMOVED
- EXISTING WOODEN DECK TO BE REMOVED
- EXISTING UTILITY TO BE REMOVED/ RELOCATED
- PROPOSED LIMIT OF DISTURBANCE (LOD)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TREE PROTECTION FENCE
- PROPOSED CONCRETE WASHOUT



900 WEST VALLEY ROAD, SUITE 1100
WAYNE, PA 19087 1830
P: 610.265.8323 F: 610.265.4299
WWW.NAVENEWELL.COM

| DATE | DESCRIPTION | BY | CHKD BY |
|------------|-----------------------|-----|---------|
| 12/22/2025 | PER TOWNSHIP COMMENTS | JFL | CC |

GREGORY C. NEWELL
Professional Engineer
Pennsylvania License No. 367626

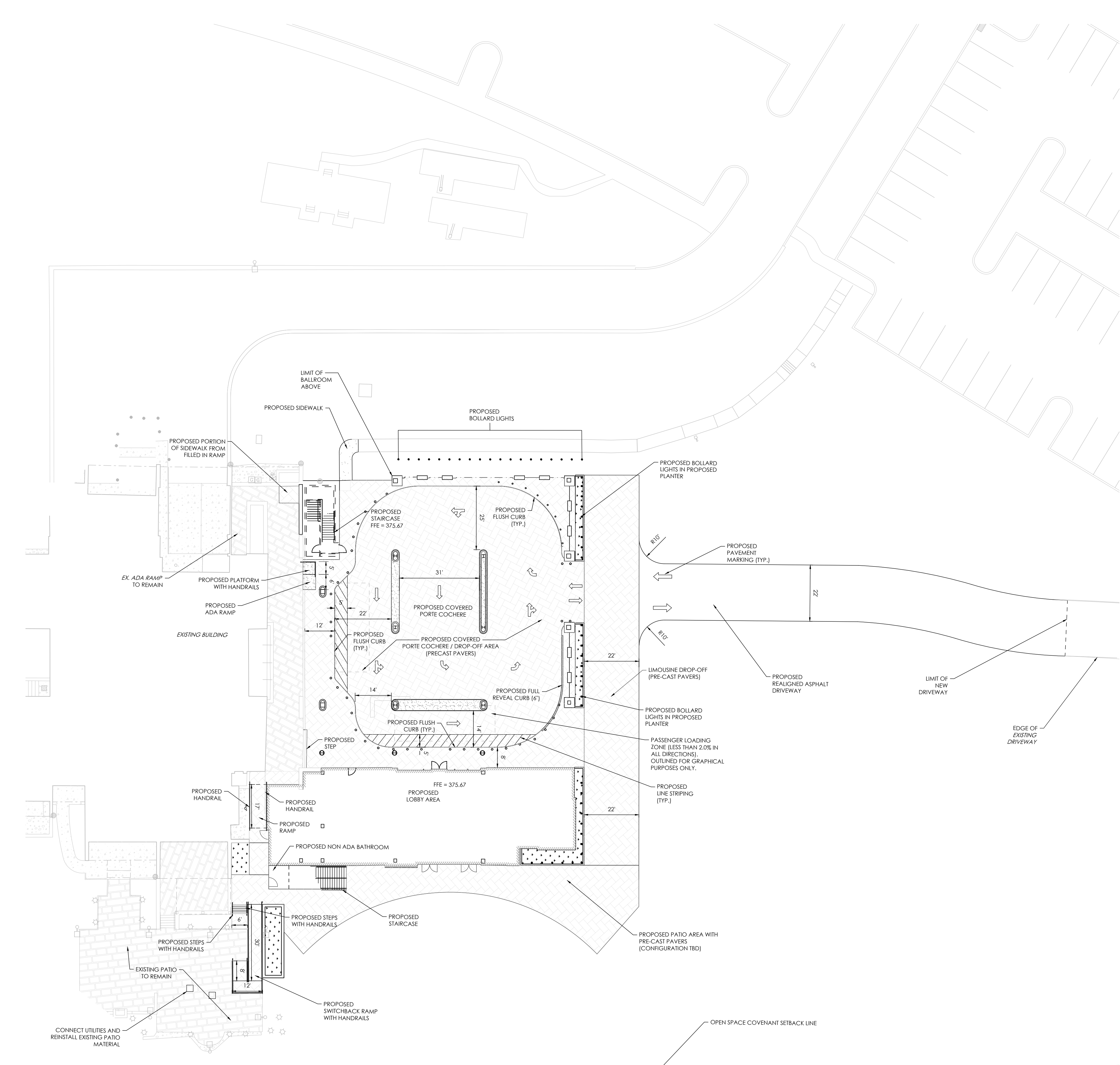
DEMOLITION PLAN
 UNION LEAGUE AT LIBERTY HILL - BALLROOM
 WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA
 LOCATION:

| | |
|----------------------------|--------------------|
| project no. 2021-045.07 | drawn by: CC |
| date: 10/31/2025 | chkd by: GCN |
| scale: 1" = 30' | approv. by: GCN |
| sheet no. | |

C2.0

2 of 10

PROJECT SERIAL NO. 20221932481
CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL
 Pennsylvania One Call System, Inc.
 1-800-242-1776



ZONING DATA CALCULATIONS

ZONING DISTRICT: AR - ADMINISTRATION AND RESEARCH DISTRICT
 GROSS TRACT AREA: 298.37 AC.
 AR DISTRICT LOT AREA: 48.53 AC.

| | REQUIRED | EXISTING | PROPOSED |
|---|----------|------------|------------|
| MINIMUM LOT AREA (CONFERENCE CENTER): | 25 AC. | 298.37 AC. | 298.37 AC. |
| FRONT YARD MINIMUM: | 100' | +/- 126' | +/- 126' |
| SIDE YARD MINIMUM: | 35' | +/- 225' | +/- 225' |
| SIDE YARD MIN. AGGREGATE: | 100' | +/- 225' | +/- 225' |
| REAR YARD MINIMUM: | 50' | N/A | N/A |
| BUILDING COVERAGE MAXIMUM: | 25% | 4.4% | 7.0% |
| IMPERVIOUS COVER MAXIMUM: | 45% | 28.1% | 28.5% |
| MIN. GREEN SPACE: | 20% | 71.9% | 71.5% |
| BUILDING HEIGHT: | 40' | 42.89' | 40.75' |
| BUILDING & PARKING SETBACK FROM RESIDENTIAL DISTRICT: | 150' | > 150' | > 150' |

EXISTING PARKING TO REMAIN: 492 SPACES

NOTE: BUILDING COVERAGE, IMPERVIOUS COVERAGE, AND GREEN SPACE CALCULATIONS ARE BASED UPON THE AR ZONING DISTRICT AREA ONLY.

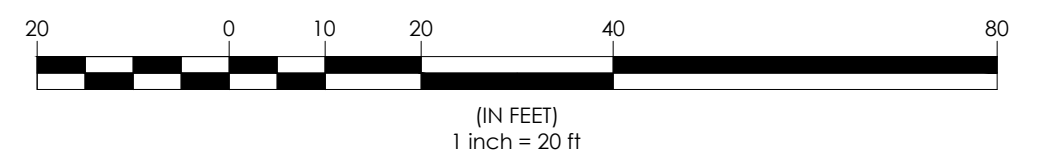
STATEMENT OF INTENT

UNION LEAGUE PLANS TO RELOCATE THE BALLROOM ASSOCIATED WITH THE CLUB AND CONFERENCE CENTER. THE EXISTING BALLROOM WILL BE REPURPOSED ONCE THE NEW BALLROOM IS CONSTRUCTED. THEREFORE, NO MEMBERSHIP OR PARKING NEED INCREASE IS ANTICIPATED AS A RESULT OF THIS PROJECT.

- SITE NOTES:**
- SEE ARCHITECTURAL DRAWINGS FOR DETAILED BUILDING, STRUCTURAL, ELECTRICAL, LIGHTING, ELEVATORS, STAIRWELLS AND SIDEWALK INFORMATION AND DETAILS, INCLUDING PAVEMENT FINISHES SHOWN AS ANYTHING OTHER THAN ASPHALT.
 - CONTRACTOR IS TO ENSURE THAT ALL ACCESSIBLE FACILITIES SHALL BE CONSTRUCTED IN CONFORMANCE WITH CURRENT ADA REQUIREMENTS.
 - ALL INTERNAL CURB IS TO BE 6" REVEAL EXCEPT WHERE NOTED AS FLUSH. REFER TO DETAIL SHEET.
 - ALL INTERNAL CURB RADII IS TO BE 5' UNLESS OTHERWISE NOTED.
 - REFER TO THE GENERAL NOTES PROVIDED ON THE EXISTING FEATURES PLAN (DRAWING NUMBER C1.0), GRADING NOTES ON GRADING PLAN (DRAWING NUMBER C2.0) AND UTILITY NOTES ON UTILITY PLAN (C&U) SHEET FOR ADDITIONAL NOTES. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERSEDE IN ALL CASES. NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IN WRITING.
 - CONTRACTOR TO MATCH EXISTING PAVEMENT, CURB, AND SIDEWALK ELEVATIONS/LOCATIONS WHERE THE PROPOSED IMPROVEMENTS TIE INTO EXISTING FEATURES.

LEGEND

| | |
|--|-------------------------------------|
| | EXISTING PROPERTY BOUNDARY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING DRIVEWAY |
| | EXISTING DWELLING |
| | EXISTING SIDEWALK/ CONCRETE WALKWAY |
| | EXISTING BRICK WALKWAY |
| | EXISTING UNDERGROUND ELECTRIC LINE |
| | EXISTING STORM SEWER |
| | EXISTING COMMUNICATIONS LINE |
| | EXISTING WATER LINE |
| | PROPOSED CURB |
| | PROPOSED INLET |
| | PROPOSED STORM LINE W/ CLEANOUT |
| | PROPOSED ROOF DRAIN |
| | PROPOSED WATER LINE |
| | PROPOSED SANITARY LINE |
| | PROPOSED BUILDING |
| | PROPOSED EXTERIOR DOOR |
| | PROPOSED STAMPED CONCRETE |
| | PROPOSED DRIVEWAY |



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 WWW.NAVENEWELL.COM

REVISIONS

| NO. | DESCRIPTION | CHK'D BY | DATE |
|-----|-------------|----------|------|
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GREGORY C. NEWELL
 Professional Engineer
 Pennsylvania License No. 367626

SITE PLAN

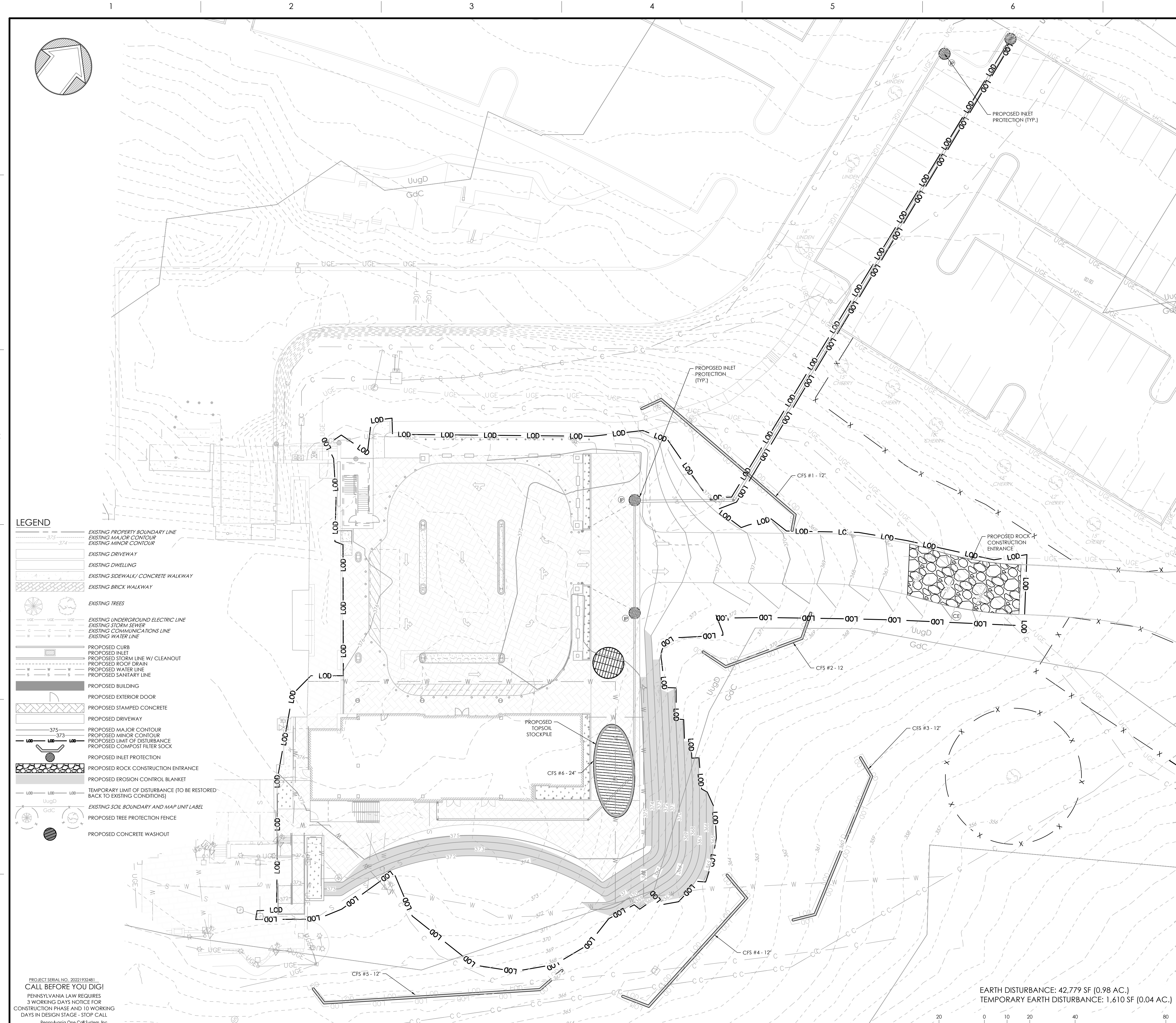
UNION LEAGUE AT LIBERTY HILL - BALLROOM

LOCATION: WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA

| | | | |
|-------------|-------------|--------------|-----|
| project no. | 2021-045.07 | drawn by: | CC |
| date: | 10/31/2025 | chk'd by: | GCN |
| scale: | 1" = 20' | approved by: | GCN |
| sheet no. | | | |

C4.0

4 of 10



LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING DRIVEWAY
- EXISTING DWELLING
- EXISTING SIDEWALK / CONCRETE WALKWAY
- EXISTING BRICK WALKWAY
- EXISTING TREES
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING STORM SEWER
- EXISTING COMMUNICATIONS LINE
- EXISTING WATER LINE
- PROPOSED CURB
- PROPOSED INLET
- PROPOSED STORM LINE W/ CLEANOUT
- PROPOSED ROOF DRAIN
- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- PROPOSED BUILDING
- PROPOSED EXTERIOR DOOR
- PROPOSED STAMPED CONCRETE
- PROPOSED DRIVEWAY
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED COMPOST FILTER SOCK
- PROPOSED INLET PROTECTION
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED EROSION CONTROL BLANKET
- TEMPORARY LIMIT OF DISTURBANCE (TO BE RESTORED BACK TO EXISTING CONDITIONS)
- EXISTING SOIL BOUNDARY AND MAP UNIT LABEL
- PROPOSED TREE PROTECTION FENCE
- PROPOSED CONCRETE WASHOUT

GENERAL CONSERVATION NOTES AND SPECIFICATIONS

INTENT OF CONSERVATION PROGRAM: THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSION OF THE EXPOSED SITE SOILS DURING THE CONSTRUCTION AND PERMANENT LIFE PERIODS OF THE DEVELOPMENT. THE PROGRAM REQUIRES RETENTION OF ALL SEDIMENTS ON THE CONSTRUCTION SITE TO MINIMIZE THE IMPACT OF DEVELOPMENT ON EXISTING STREAMS AND ADJACENT PROPERTY OWNERS. THESE OBJECTIVES WILL BE ACHIEVED BY MINIMIZING THE EXPOSURE TIME OF POTENTIALLY ERODIBLE SOILS TO RUNOFF AND INSTALLATION OF THE TEMPORARY CONSTRUCTION. THE INTENT OF THIS PROGRAM SHOULD BE UNDERSTOOD AND IMPLEMENTED THROUGHOUT THE ENTIRE DEVELOPMENT. THE VARIOUS CONSTRUCTION TRADES SHOULD BE APPRAISED OF THIS PROGRAM AND DIRECTED TO PREVENT UNDUE DISTURBANCE OF PREPARED AND PROTECTED SURFACES.

SURFACE STABILIZATION CRITERIA: ALL DENUDED SOIL SURFACES, INCLUDING SOIL STOCKPILES, ARE SUBJECT TO EROSION AND SHALL BE STABILIZED EITHER TEMPORARILY OR PERMANENTLY IMMEDIATELY DURING NON-GERMINATION PERIODS. MULCH MUST BE APPLIED AT RECOMMENDED RATES. CRUSHED STONE ON PAVEMENT SUBGRADES IS CONSIDERED ADEQUATE PROTECTION. ALL DISTURBED ZONES AND VEGETATED REGIONS SHALL BE STABILIZED, PREFERABLY WITH A PERMANENT TREATMENT AS FOLLOWS:

SEEDING & MULCHING SPECIFICATIONS

TEMPORARY: SEEDING SHALL BE COMMON RYE GRASS APPLIED AT 45 LBS. PER ACRE. LIMING TO BE APPLIED AT 1 TON/ACRE. 50-50 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE. HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE.

PERMANENT: SEEDING SHALL BE 15% KENTUCKY BLUEGRASS, 35% KENTUCKY 31 FESCUE, 25% CHEWINGS FESCUE, 15% PERENNIAL RYE GRASS, AND 10% RECLEANED REDTOP AT A RATE OF 60 LBS. PER ACRE. LIMING TO BE APPLIED AT 3 TONS/ACRE. 10-20-50 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE. HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE. THE NON-GERMINATING PERIODS ARE BETWEEN 6/15 THROUGH 8/15 AND 9/30 THROUGH 4/15. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMITED, FERTILIZED, SEEDED AND MULCHED IMMEDIATELY FOLLOWING THE END OF THOSE PERIODS. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDING WITH VEGETATIVE COVER AND STOCKPILES FOR RE-USE IN FINISH GRADING. THERE IS TO BE NO EARTH DISTURBANCE OR VEGETATIVE CLEARING IN AREAS OUTSIDE OF THE DELINEATED AREAS TO BE DISTURBED.

SEDIMENT DISPOSAL: SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE OF FLOOD PLAINS, WETLANDS, STEEP SLOPES, AND DRAINAGE SWALES. AREAS OF SEDIMENT DISPOSAL SHALL BE CONSIDERED C.V.A..

DUST CONTROL: DUST AND OTHER PARTICULATES SHALL BE KEPT WITHIN TOLERABLE LIMITS BY USING WATER. APPLICATION SHALL BE AS NEEDED OR AS DIRECTED BY THE TOWNSHIP ENGINEER OR THE CONSERVATION DISTRICT.

CRITICAL VEGETATION AREAS (C.V.A.): CRITICAL VEGETATION AREAS ARE TO BE GRADED, HYDROSEEDED AND MULCHED WITHIN 10 DAYS OF THE BEGINNING OF EXCAVATION. IN GENERAL, CRITICAL VEGETATION AREAS ARE DEFINED AS CUT SLOPES STEEPER THAN 3H:1V. ALL FILL SLOPES STEEPER THAN 4H:1V AND IN ALL DRAINAGE SWALES.

- GENERAL NOTES FOR UTILITY CONSTRUCTION**
- EXCAVATED MATERIAL SHOULD BE STAGED ON THE UPSTREAM SIDE OF A TRENCH.
 - THE DAILY EXTENT OF TRENCHING SHOULD NOT EXCEED WHAT CAN BE BACK FILLED AND STABILIZED IN ONE WORKING DAY.
 - LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
 - WORK CREWS AND EQUIPMENT FROM TRENCHING, PLACEMENT OF PIPE, AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
 - WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE.
 - ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
 - SOILS EXCAVATED FROM EXISTING SURFACE LAYER SHOULD BE STOCKPILED SEPARATELY AND RETURNED AS FINAL SURFACE LAYER FOLLOWING TRENCH BACKFILLING.

MAINTENANCE SCHEDULE FOR TEMPORARY SEDIMENTATION CONTROL STRUCTURES

INSPECTION AND MAINTENANCE OF ALL FACILITIES SHALL BE MADE AFTER EACH RAIN STORM EVENT AND ON A WEEKLY BASIS. MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE "EROSION AND SEDIMENT CONTROL NARRATIVE."

MAINTENANCE OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES

MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE "EROSION AND SEDIMENT CONTROL NARRATIVE." INSPECTION AND MAINTENANCE OF ALL FACILITIES SHALL BE MADE AFTER EACH RAIN STORM EVENT AND ON A WEEKLY BASIS. INSPECTIONS SHALL BE LOGGED ONTO DEP FORM 3803-FM-8C/0271D, DATED 1/2019 AND KEPT ON SITE AT ALL TIMES.

SOILS LEGEND:

SOILS INFORMATION OBTAINED FROM THE USDA-NRCS WEB SOIL SURVEY, VERSION 19, SURVEY PERFORMED ON SEPTEMBER 5, 2024.

GdC - GLADSTONE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES HSG: B
 UuGD - URBAN LAND-UDORTHENTS, SCHIST AND GNEISS COMPLEX, 8 TO 25 PERCENT SLOPES HSG: C

| SOIL LIMITATIONS AND RESOLUTIONS | | |
|----------------------------------|---|--|
| APPLICABILITY TO PROJECT | SOIL LIMITATION | RESOLUTION(S) |
| YES | CUBAN'S CAVE | PROVIDE APPROPRIATE BENCHING AND/OR SHORING IN AREAS OF EXCAVATION. |
| YES | CORROSIVE TO CONCRETE/STEEL | INSTALL REBAR TO MINIMUM COVER REQUIREMENTS AND USE EPOXY COATED REBAR. APPLY MOISTURE BARRIER TO SURFACE OF EXPOSED CONCRETE. |
| YES | DROUGHTY | SOIL SHOULD BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. ANY RECOMMENDATIONS PRESCRIBED BY THE GEOTECHNICAL ENGINEER SHALL BE FOLLOWED PRIOR TO USE ON SITE. |
| YES | EASILY ERODIBLE | SOILS SHALL BE STABILIZED WITH EITHER TEMPORARY OR FINAL STABILIZATION IN AREAS WHERE EARTHWORK IS DELAYED OR STOPPED FOR FOUR CONSECUTIVE DAYS. |
| NO | FLOODING | AVOID DEVELOPMENT IN FLOOD PRONE AREAS. |
| NO | DEPTH TO SATURATED ZONE / SEASONAL HIGH WATER TABLE | SOILS SHOULD BE EVALUATED FOR WETNESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WEAK FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |
| YES | HYDRIC / HYDRIC INCLUSIONS | SOILS TO BE EVALUATED BY GEOTECHNICAL SPECIALIST. WATER TABLE EVALUATION WILL BE REQUIRED, POSSIBLY IN AREA OF WETLANDS. |
| YES | LOW STRENGTH / LANDSLIDE PRONE | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| YES | SLOW PERCOLATION | SOIL TO BE EVALUATED FOR SUITABILITY FOR INFILTRATION PRACTICES. |
| NO | PIPING | AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENT AND PROTECTION'S (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM. |
| YES | POOR SOURCE OF TOPSOIL | SOIL SHOULD BE AMENDED AS RECOMMENDED TO PROVIDE ADEQUATE MATERIALS NECESSARY FOR REQUIRED PLANT GROWTH. |
| YES | FROST ACTION | SOILS SHOULD NOT BE PLACED ON SATURATED OR FROZEN SURFACES. EARTHWORK INVOLVING THESE SOILS SHOULD BE LIMITED TO THE WARMER MONTHS WHEN PRACTICAL. |
| YES | SHRINK - SWELL | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| NO | POTENTIAL SINKHOLE | SOILS SHOULD BE EVALUATED FOR SINKHOLE ACTIVITY. INFILTRATION PRACTICES SHOULD BE AVOIDED IN THESE AREAS OF APPLIED WITH CONSIDERATION TO MINIMIZING INFILTRATION RATE. APPLY RECOMMENDATIONS FROM GEOTECHNICAL SPECIALIST. AVOID PLACING INFILTRATION PRACTICES, IF NEEDED, CLOSE TO BUILDINGS OR PRINCIPAL STRUCTURES. ENSURE ALL DRAINAGE SYSTEMS ARE WATERTIGHT. |
| NO | PONDING | ANY PONDING WATER SHALL BE PUMPED TO A LOCATION OF NO PONDING. ANY SEDIMENT LADEN WATER OR POTENTIALLY SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH A SEDIMENT CONTROL BMP SUCH AS PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS. |
| NO | WETNESS | SOILS SHOULD BE EVALUATED FOR WETNESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WEAK FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |

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| NO. | DESCRIPTION | DATE | BY | CHKD BY |
|----------|-----------------------|------|-----|---------|
| 12/22/25 | PER TOWNSHIP COMMENTS | | JFL | CC |

GREGORY C. NEWELL
Professional Engineer
Montgomery License No. 367626

EROSION AND SEDIMENTATION CONTROL PLAN

UNION LEAGUE AT LIBERTY HILL - BALLROOM

WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA

PROJECT NO: 2021-045.07
DATE: 10/31/2025
SCALE: 1" = 20'
SHEET NO: C8.0

DRAWN BY: CC
CHKD BY: GCN
APPROV BY: GCN

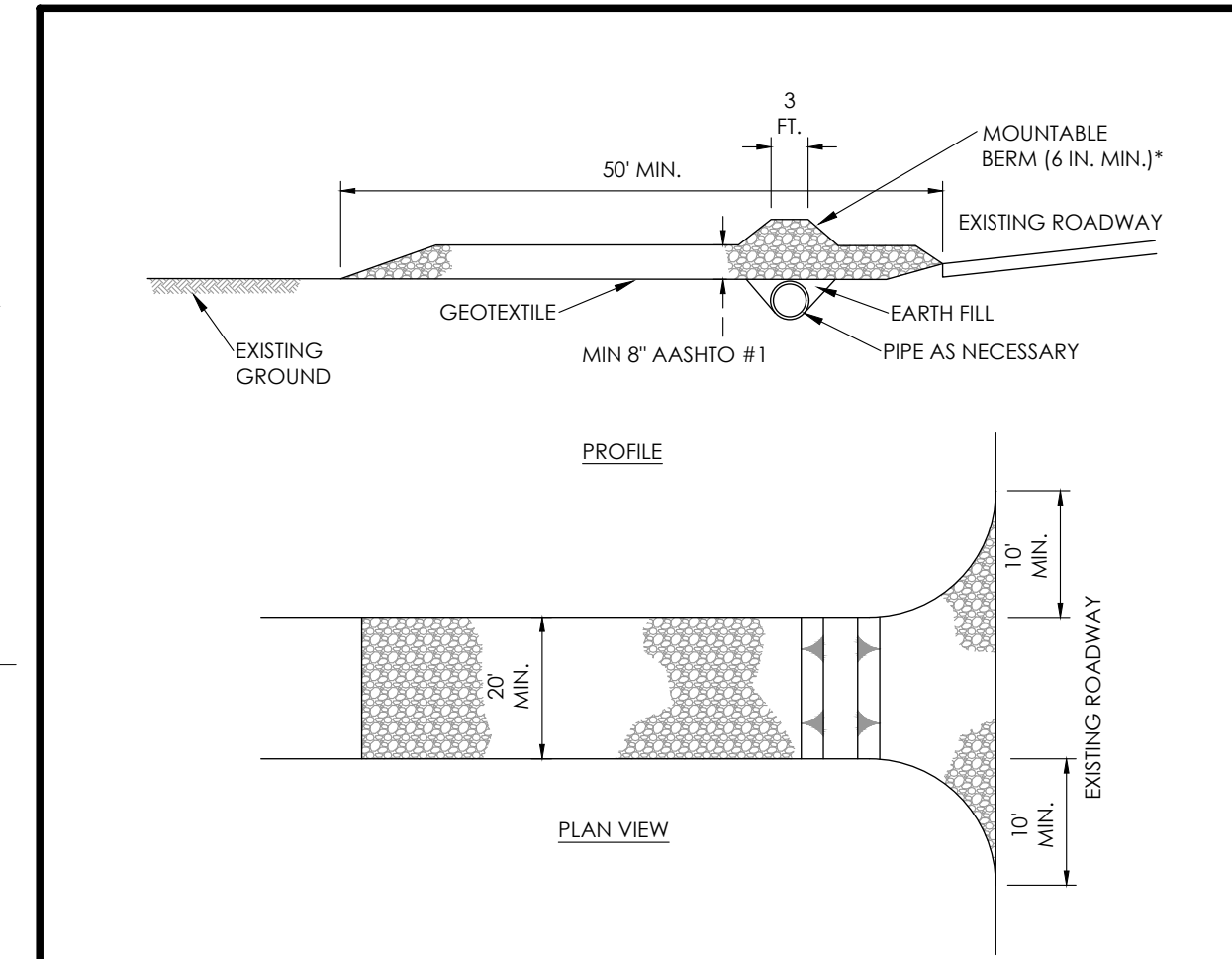
PROJECT SERIAL NO. 20221932481
CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL
Pennsylvania One Call System, Inc.
1-800-242-1776

THIS PLAN FOR EROSION AND SEDIMENTATION PURPOSES ONLY

EARTH DISTURBANCE: 42,779 SF (0.98 AC.)
TEMPORARY EARTH DISTURBANCE: 1,610 SF (0.04 AC.)

(IN FEET)
1 inch = 20 ft

C8.0



* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

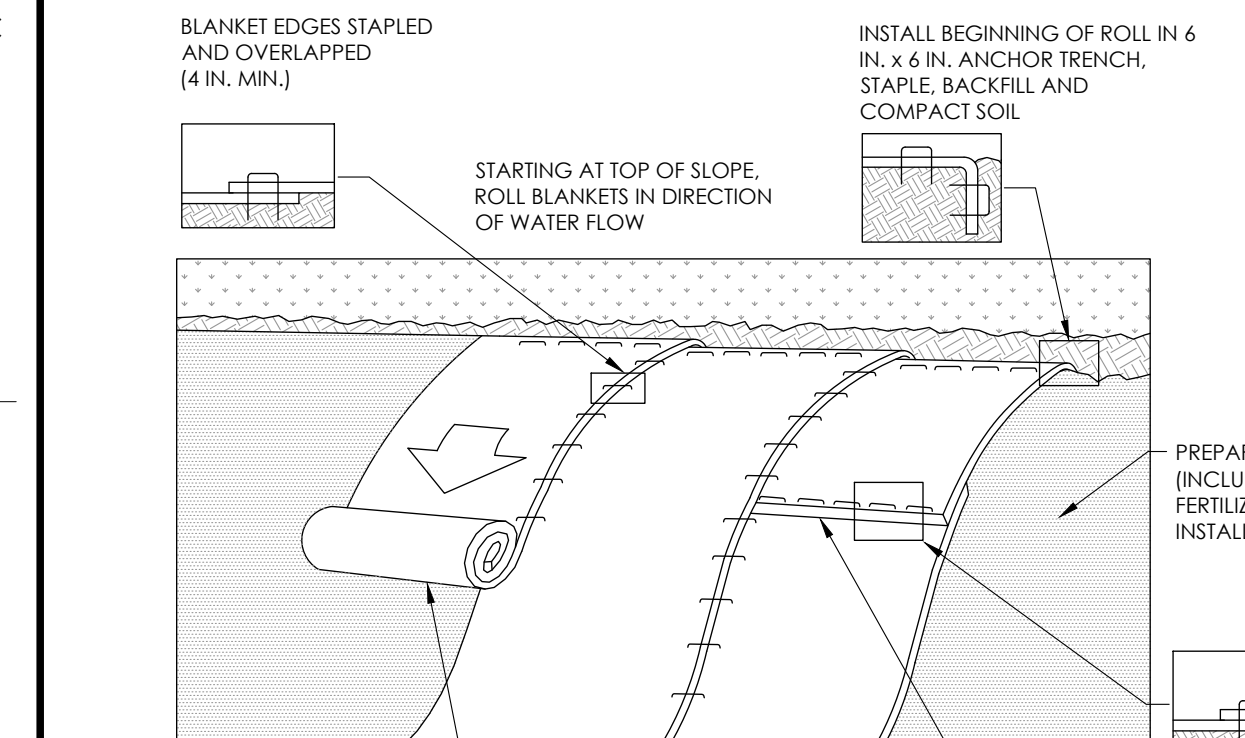
NOTES:
REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

**STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE**

NOT TO SCALE



NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

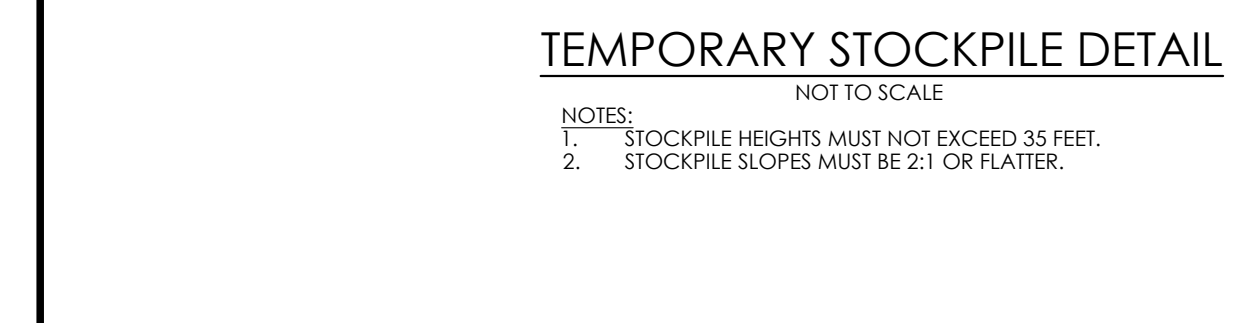
BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK**

NOT TO SCALE



NOTES:
MAXIMUM DRAINAGE AREA = 1/2 ACRE.
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI. AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET**

NOT TO SCALE

NOTES:
SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.

BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

**STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION**

NOT TO SCALE

NOTES:
ANTICIPATED E&S BMP RELATED CONSTRUCTION WASTES AND DISPOSAL PROCEDURES
SEDIMENT: SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE FLOODPLAINS, WETLANDS, STEEP SLOPES, AND DRAINAGE SWALES. SILT AND SEDIMENT CATEGORIZED AS CONTAMINATED SHALL BE DISPOSED OF PER THE SOIL MANAGEMENT NOTES.

TRASH & LITTER: TRASH AND LITTER SHALL BE REMOVED FROM EROSION AND SEDIMENTATION CONTROL BMPs AND DISPOSED OF IN APPROPRIATE TRASH RECEPTABLE.

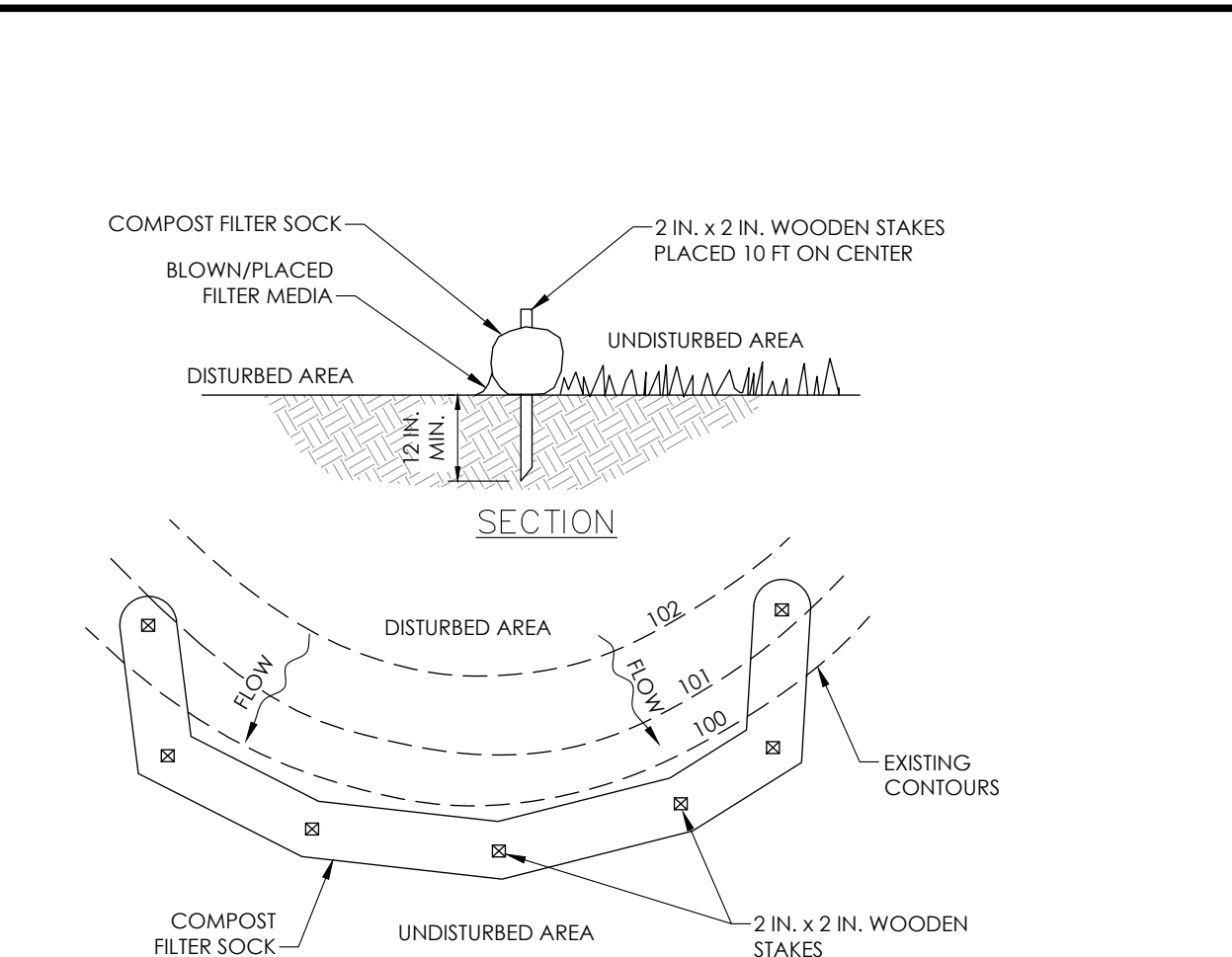
CONCRETE WASHWATER: CONCRETE WASHWATER SHALL BE DISPOSED OF IN THE LOCATION SHOWN ON-SITE. ONCE WASHWATER SOLIDIFIES THE HARDENED CONCRETE SHALL BE DISPOSED OFF-SITE IN AN APPROVED MANNER.

NOTE: ANY APPLICABLE MATERIAL SHALL BE RECYCLED IN ACCORDANCE TO THE APPROPRIATE REGULATIONS.

PROJECT SERIAL NO. 20221932481
CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE - STOP CALL
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1-800-242-1776

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NOTES:
SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-1
COMPOST FILTER SOCK**

NOT TO SCALE

MAINTENANCE PROGRAM FOR TEMPORARY SEDIMENTATION CONTROLS STRUCTURES

MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND AS STATED BELOW:

1. ROCK CONSTRUCTION ENTRANCE - MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF SILT FENCING.

2. EROSION CONTROL BLANKET (ECB) - BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

3. PUMPED WATER FILTER BAGS - FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

4. COMPOST FILTER SOCK - ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN. COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

5. INLET PROTECTION - INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

6. CONTROLLED NON-DISCHARGE CONCRETE WASHOUT - ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. WHEN WASHOUT MATERIAL REACHES 50% CAPACITY OF FILTERING HEIGHT, STOP USAGE OF THAT RING. WHEN STABLE, BREAK UP CONCRETE WASHOUT MATERIAL AND DISPOSE OF APPROPRIATELY.

POTENTIAL THERMAL IMPACTS

THERMAL IMPACTS DURING CONSTRUCTION ACTIVITIES WILL BE MINIMIZED THROUGH AVOIDING DIRECT DISCHARGE INTO SURFACE WATERS, LIMITING THE EXTENT AND DURATION OF EARTH DISTURBANCE AND THE USE OF COMPOST FILTER SOCK, WHICH IS THE PRIMARY PERIMETER EROSION CONTROL. RUNOFF WILL BE TREATED BY THE COMPOST FILTER SOCK AND THEN DISCHARGED TO STABILIZED VEGETATIVE COVER. AS THE DISCHARGE FLOWS BELOW THE CANOPY OF EXISTING VEGETATION (LAWN, TREES, ETC.), THE DISCHARGE WILL BE AFFORDED TIME TO COOL PRIOR TO REACHING THE RECEIVING WATERWAYS.

GEOLOGIC FORMATIONS/SOIL CONDITIONS/POLLUTANT PREVENTION

THE PROPOSED SITE IS UNDERLAIN BY FELSIC GNEISS FORMATIONS. BASED ON PENNSYLVANIA'S DEPARTMENT OF ENVIRONMENTAL PROTECTION (PA DEP) MAP P.A.C.001, IF ISSUES ARISE ON SITE DURING CONSTRUCTION A GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

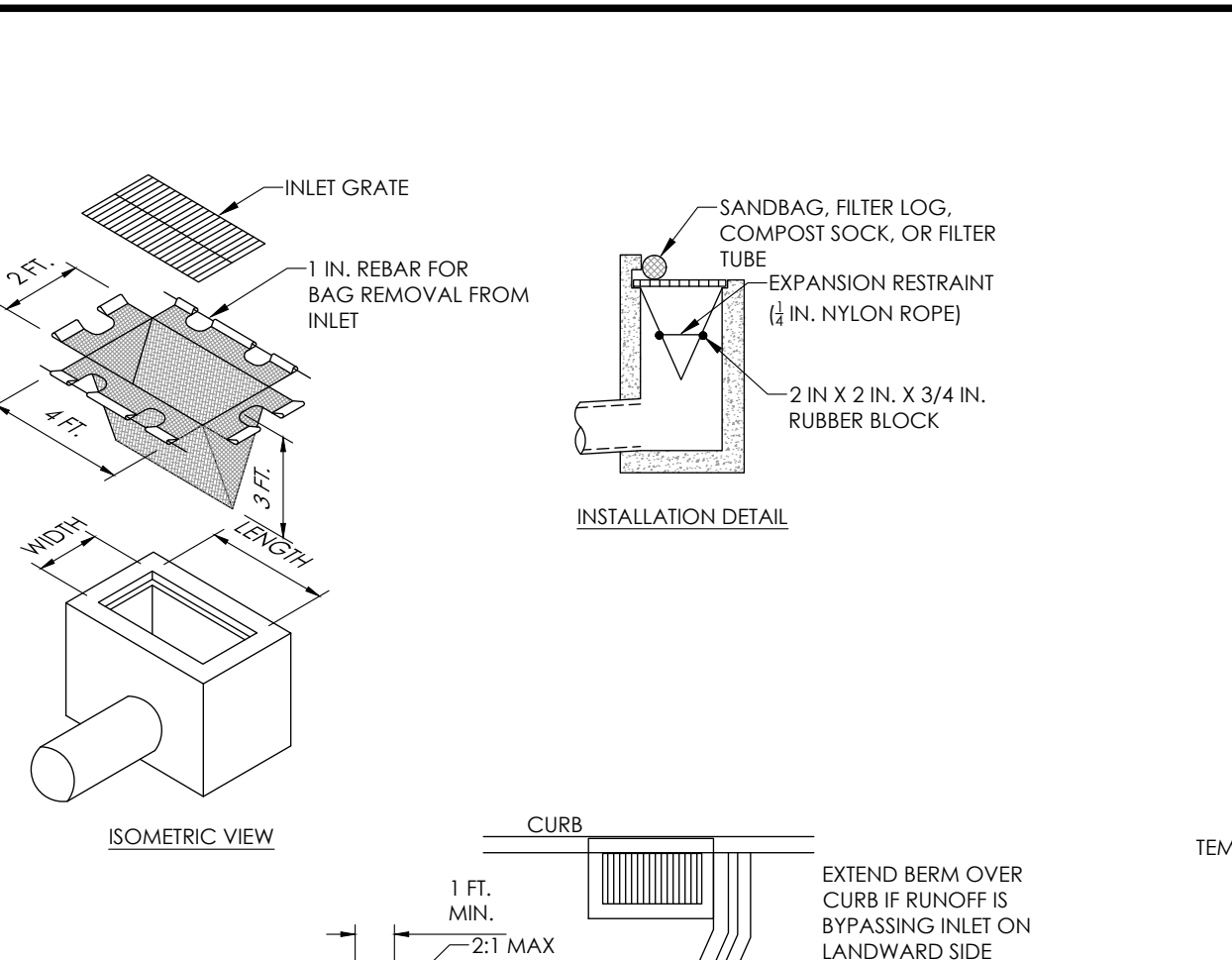
ANTICIPATED E&S BMP RELATED CONSTRUCTION WASTES AND DISPOSAL PROCEDURES

SEDIMENT: SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED OF ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE FLOODPLAINS, WETLANDS, STEEP SLOPES, AND DRAINAGE SWALES. SILT AND SEDIMENT CATEGORIZED AS CONTAMINATED SHALL BE DISPOSED OF PER THE SOIL MANAGEMENT NOTES.

TRASH & LITTER: TRASH AND LITTER SHALL BE REMOVED FROM EROSION AND SEDIMENTATION CONTROL BMPs AND DISPOSED OF IN APPROPRIATE TRASH RECEPTABLE.

CONCRETE WASHWATER: CONCRETE WASHWATER SHALL BE DISPOSED OF IN THE LOCATION SHOWN ON-SITE. ONCE WASHWATER SOLIDIFIES THE HARDENED CONCRETE SHALL BE DISPOSED OFF-SITE IN AN APPROVED MANNER.

NOTE: ANY APPLICABLE MATERIAL SHALL BE RECYCLED IN ACCORDANCE TO THE APPROPRIATE REGULATIONS.



NOTES:
MAXIMUM DRAINAGE AREA = 1/2 ACRE.
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI. AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET**

NOT TO SCALE

SOIL EROSION AND SEDIMENTATION CONTROL NOTES:

1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.

2. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL NOTIFY ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN TO AN ON-SITE PRE-CONSTRUCTION MEETING.

3. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL MUNICIPALITY.

5. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

6. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SPECIFICATION FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.

7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.

9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL MUNICIPALITY.

10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 2603.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL MUNICIPALITY. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

12. ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN OVER UNDISTURBED VEGETATED AREAS.

13. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RE-SEEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

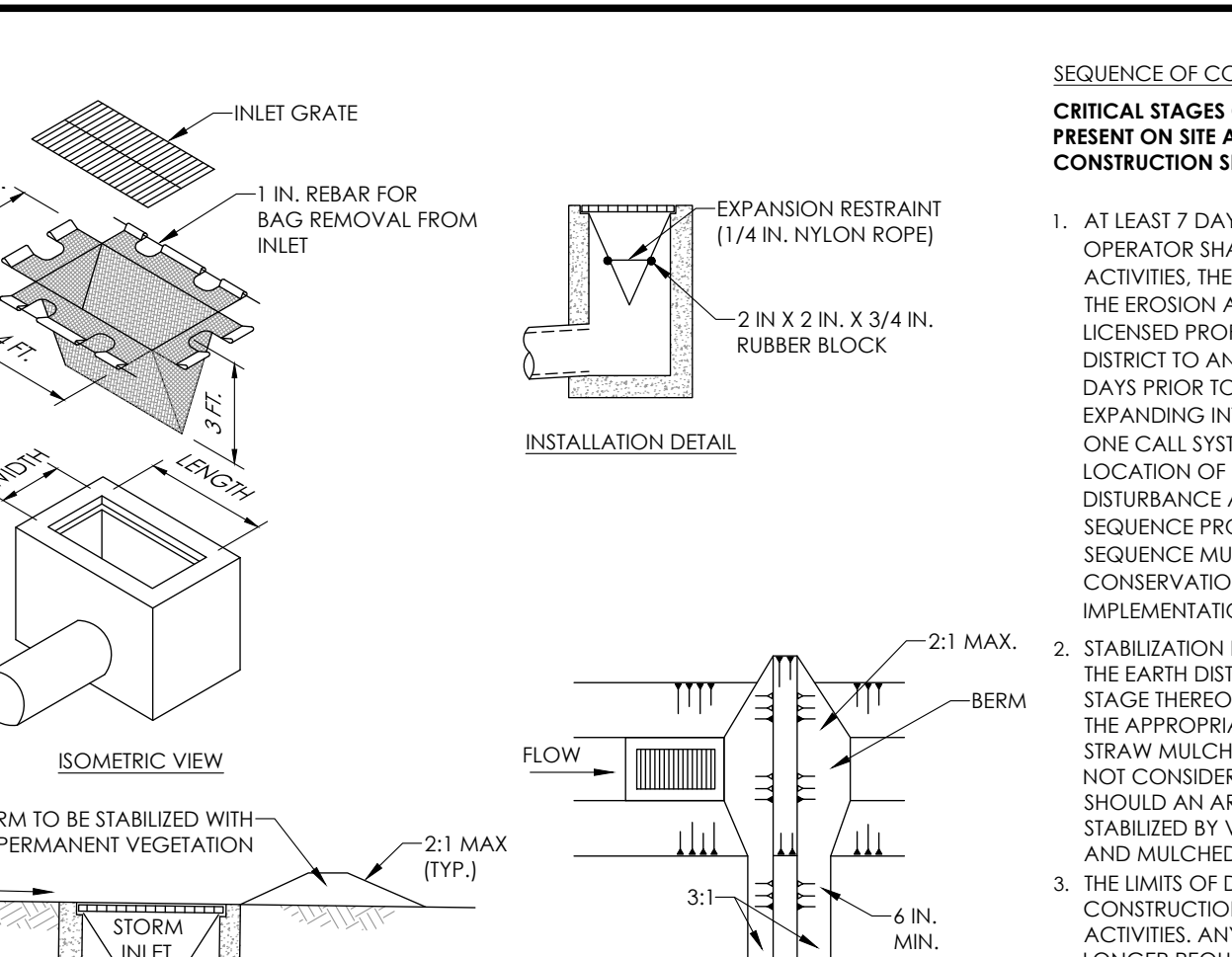
14. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY, OR AS DIRECTED BY THE LOCAL MUNICIPALITY, AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROAD SIDE DITCH, STORM SEWER, OR SURFACE WATER.

15. ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.

16. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTCROPS SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

17. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

18. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.



NOTES:
MAXIMUM DRAINAGE AREA = 1/2 ACRE.
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI. AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

**STANDARD CONSTRUCTION DETAIL #4-16
FILTER BAG INLET PROTECTION - TYPE M INLET**

NOT TO SCALE

SEQUENCE OF CONSTRUCTION

CRITICAL STAGES OF INSPECTION WHEN A LICENSED PROFESSIONAL IS TO BE PRESENT ON SITE ARE INDICATED WITH AN ASTERISK (*) IN THE FOLLOWING CONSTRUCTION SEQUENCES.

1. AT LEAST 7 DAYS BEFORE ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL NOTIFY ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, THE DESIGNATED LICENSED PROFESSIONAL, AND MONTGOMERY COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. ALSO, AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.

2. STABILIZATION NOTE: UPON COMPLETION OR TEMPORARY CESSATION OF THE EARTH DISTURBANCE ACTIVITY THAT WILL EXCEED 4 DAYS, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION, HAY OR STRAW MULCH MUST BE APPLIED AT 3.0 TONS PER ACRE. HYDROSEED IS NOT CONSIDERED STABILIZATION UNTIL IT GERMINATES. IN NO CASE SHOULD AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED.

3. THE LIMITS OF DISTURBANCE MUST BE DELINEATED WITH ORANGE CONSTRUCTION FENCE OR APPROVED EQUAL PRIOR TO EARTH-MOVING ACTIVITIES. ANY CESSATION OF ACTIVITIES FOR MORE THAN FOUR DAYS OR LONGER REQUIRES TEMPORARY STABILIZATION.

4. INSTALL TREE PROTECTION FENCING PRIOR TO ANY WORK BEING CONDUCTED E.G., GRUBBING, EXCAVATION, GRADING, TRENCHING, CLEANING, OR INSTALLATION OF COMPOST FILTER SOCK.

5. INSTALL STABILIZED CONSTRUCTION ENTRANCES AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS. CONTRACTOR TO UTILIZE ACCEPTABLE STANDARDS AND PRACTICES TO ENSURE SEDIMENT IS NOT TRACKED OFF THE PROPERTY AND ONTO PUBLIC RIGHTS-OF-WAY. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY, AS APPROPRIATE.

6. PLACE PERIMETER EROSION AND SEDIMENT CONTROLS AS SHOWN ON EROSION AND SEDIMENT CONTROL PLAN THAT INCLUDES COMPOST FILTER SOCK, AND LOCATIONS FOR TEMPORARY TOPSOIL STOCKPILE AREAS. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY, AS APPROPRIATE.

7. CLEAR AND GRUB TREES AND VEGETATION THROUGHOUT THE DISTURBANCE AREA, AS INDICATED ON THE EXISTING FEATURES AND DEMOLITION PLAN. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY, AS APPROPRIATE.

8. BEGIN CONSTRUCTION OF PROPOSED BUILDING, ASSOCIATED DRIVEWAY RE-ALIGNMENT, PROPOSED STAMPED CONCRETE, AND SITE UTILITIES.

9. AFTER SITE FINAL STABILIZATION HAS OCCURRED, AN ON-SITE INSPECTION SHALL BE SCHEDULED WITH WHITEMARSH TOWNSHIP. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.

10. *AFTER AN ON-SITE INSPECTION AND APPROVAL BY THE DESIGNATED LICENSED PROFESSIONAL, REMOVE ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES. STABILIZE ANY RESULTING DISTURBANCE IMMEDIATELY.

11. UPON COMPLETION OF PERMITTED IMPROVEMENTS THE PERMITEE SHALL SUBMIT ALL REQUIRED DOCUMENTATION FOR A FORMAL CLOSE OUT.

12. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

13. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

14. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

15. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSUR



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Via Email delivery

To: Samantha Zrillo
 Whitemarsh Township
From: John Hosbach Jr., Rockwell Urban Forestry
Date: December 29, 2025
Property: Union League at Liberty Hill Hall
Subject: Chapter 55 Requirements

Dear Sam,

Pursuant to my review of the revised plan and a site visit yesterday afternoon, please find the associated notes.

1. INTRODUCTION & SCOPE OF REVIEW

The applicant has submitted a revised plan set for the proposed ballroom and associated site improvements at the Union League at Liberty Hill Hall. This review has been conducted pursuant to Chapter 55 of the Whitemarsh Township Shade Tree Ordinance and is limited to tree impacts, tree protection measures, mitigation requirements, and construction-related activities that may affect existing vegetation.

The purpose of this review is to confirm ordinance compliance, identify deficiencies, and provide technical guidance to ensure that tree resources are adequately protected during construction and properly mitigated where removal is unavoidable.

2. TREE REMOVAL INVENTORY

The revised plan includes an inventory of existing trees proposed for removal. Based on the information provided, the following trees are identified:

Existing Trees Proposed for Removal

| Qty | Size (DBH) | Species | Classification | Native Status |
|-----|------------|---|----------------|---------------|
| 1 | 30 inches | Sugar Maple <i>Acer saccharum</i> | Canopy | Native |
| 1 | 10 inches | Kwanzan Cherry <i>Prunus serrulata</i> 'Kwanzan' | Understory | Non-Native |
| 2 | 6 inches | Kousa Dogwood <i>Cornus kousa</i> | Understory | Non-Native |
| 2 | 6 inches | Colorado Spruce <i>Picea pungens</i> | Understory | Native |



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The removal of a 30-inch native canopy tree represents a significant loss of canopy and ecological value and should be clearly accounted for in mitigation calculations consistent with Chapter 55. They are removing less than 33% of the subject trees on site.

3. TREE PROTECTION MEASURES

The plan notes indicate that tree protection fencing is proposed and that the concrete washout area is located a minimum of 100 feet from all trees proposed for protection. This setback distance is appropriate and generally consistent with best management practices.

Deficiency – Tree Protection Detail

While protective measures are referenced in notes, a tree protection detail is not graphically shown on the plan. At present, the plan relies solely on written notes, which is insufficient for clear interpretation and enforcement in the field.

The following is required:

- A tree protection detail illustrating: Type of fencing (e.g., 6-foot chain-link, size, 1.25')
- Prohibited activity within tree protection zones

Tree protection fencing detail to be clearly labeled and shown prior to any site disturbance.

The absence of a graphic detail increases the risk of inadvertent root disturbance and non-compliance during construction.

4. TREE REPLACEMENT / FEE-IN-LIEU REQUIREMENTS

At this time, no planting plan and no fee-in-lieu calculation are shown on the plan.

Chapter 55 requires that trees removed under permit be mitigated through:

- On-site replacement plantings, or



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- A clearly defined fee-in-lieu of planting, where site constraints prevent replacement

Outstanding Items

- A tree replacement plan, including:
 - Species
 - Caliper sizes
 - Quantities
 - Planting locations
 - OR
- A fee-in-lieu calculation consistent with Township requirements

Until one of the above is provided, compliance with Chapter 55 cannot be confirmed.

5. SEDIMENT DISPOSAL & ROOT ZONE PROTECTION

The plan includes the following sediment disposal note:

“Silt removed from temporary sediment control structures shall be disposed on-site in landscaped areas located outside of floodplains, wetlands, steep slopes, and drainage swales. Areas of sediment disposal shall be considered C.V.A.”

Critical Clarification Required

While the above note addresses certain environmental constraints, it does not adequately protect existing trees. It must be explicitly stated that:


Sediment disposal shall not occur within the dripline or critical root zone of any existing trees, including trees proposed for preservation.


Sediment placement within tree driplines results in:



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- Root suffocation
- Soil compaction
- Altered soil chemistry
- Increased likelihood of delayed tree decline or failure

Sediment disposal within tree protection zones is not acceptable and is contrary to the intent of Chapter 55.

The sediment disposal notes should be revised accordingly.

6. SUMMARY OF OUTSTANDING ITEMS

Prior to final approval, the following items should be addressed:

- Add a graphic tree protection detail to the plan set.
- Provide a tree replacement plan or fee-in-lieu calculation consistent with Chapter 55.
- Revise sediment disposal notes to explicitly prohibit disposal within the dripline or root zone of any trees.
- Ensure all tree protection measures are clearly shown, labeled, and enforceable during construction.

7. CONCLUSION

The revised plan demonstrates progress toward addressing Shade Tree Commission concerns; however, several key ordinance requirements remain unresolved.

Respectfully submitted,



John Rockwell Hosbach Jr.

John Rockwell Hosbach Jr., RCA, Urban Forester | Principal

Re: Replacement species for Giveaway

The chart: Hasan at Tree Authority says that of the 12 STC approved species for the 2026 Giveaway, 6 (blue species) are uncertain to be available. He should know in the spring. (The other species not listed on this chart, including the large species, are fine.) Hasan requested backups for the 6 blue species. Andrew and I came up with the red species as replacements for those blue species that Hasan may not be able to provide. Parenthesized number is the priority for replacement, as needed.

| Size at Maturity | Common Name | Species | Height/Spread (ft) | Lepidoptera Supported | Mt. Cuba Center Resilient Canopy Level | Comments |
|-----------------------------|----------------------------------|--|----------------------------------|--------------------------------|--|------------------|
| Medium | Southern magnolia | <i>Magnolia grandiflora</i> 'D.D. Blanchard' | 35-50/20-35 | 20 | 1 | |
| | Skyline' Honey locust | <i>Gleditsia triacanthos f. inermis</i> 'Skyline' | 35-45/25-35 | 44 | 1 | Thornless |
| | Green Mountain sugar maple | <i>Acer saccharum</i> 'Green Mountain' | 40-60/25-45 | 293 | 2 | |
| | Prok common persimmon | <i>Diospyros virginiana</i> 'Prok' | 35-60/35-50 | 48 | 1 | Self-fertilizing |
| | American basswood (4) | <i>Tilia americana</i> | 50-80/30-50 | 160 | 2 | |
| | yellowwood (7) | <i>Cladrastis kentukea</i> | 30-50/40-55 | n/a | 1 | |
| | umbrella tree (3) | <i>Magnolia tripetala</i> | 15-30/15-30 | 20 | 1 | |
| | Sweetbay magnolia 'Moonglow' (5) | <i>Magnolia virginiana</i> 'Moonglow' | 15-35/10-20 | 20 | 1 | |
| | hophornbeam (6) | <i>Ostrya virginiana</i> | 25-40/20-30 | 97 | 1 | |
| | river birch (2) | <i>Betula nigra</i> | 40-70/40-60 | 381 | 1 | |
| | Virginia pine (1) | <i>Pinus virginiana</i> | 15-30/10-20, or bigger | 243 (P. virginiana not listed) | 1 | Active |
| | Understory | White redbud | <i>Cercis canadensis f. alba</i> | 20-30/25-35 | 24 | 1 |
| Thornless cockspur hawthorn | | <i>Crataegus crus-galli</i> (thornless form) | 20-30/20-35 | 166 | 1 | Thornless |
| fringe tree (2) | | <i>Chionanthus virginicus</i> | 12-20/12-20 | n/a | 1 | |
| flowering dogwood (1) | | <i>Benthamidia florida</i> (formerly <i>Cornus florida</i>) | 15-20/15-30 | 124 | 1 | |
| American wild plum (3) | | <i>Prunus americana</i> | 15-25/15-25 | 435 (P. americana not listed) | 1 | |

January 5, 2026

VIA EMAIL

Ms. Samantha Zrillo
Township Planner
Whitemarsh Township
616 Germantown Pike
Lafayette Hill, PA 19444

**Reference: *Union League at Liberty Hill – Ballroom
Earth Disturbance Permit (Grading Permit) – Chapter 55 Requirements
Whitemarsh Township, Montgomery County, PA
Nave Newell No. 2021-045.07***

Dear Ms. Zrillo:

On behalf of our client, The Union League Liberty Hill, please find enclosed the following items for a follow up to our Earth Disturbance Permit (Grading Permit) submission that was originally submitted on 10/31/2025.

1. Union League Liberty Hill – Ballroom Grading Permit Plan, dated 10/31/2025 and last revised 01/05/2026.

We are in receipt of a review letter from Whitemarsh Township Arborist, John Hosbach, which was submitted to Samatha Zrillo of Whitemarsh Township on 12/29/2025 in which Mr. Hosbach has listed the following “Summary of Outstanding Items”:

SUMMARY OF OUTSTANDING ITEMS

Prior to final approval, the following items should be addressed:

1. Add a graphic tree protection detail to the plan set.
Response: We have added a detail titled “Chain Link Tree Protection Fence” on drawing C2.0 (sheet 2 of 10).
2. Provide a tree replacement plan or fee-in-lieu calculation consistent with Chapter 55.
Response: A partial waiver request has been submitted to the Shade Tree Commission on 11/26/2025 via email. Additionally, we have added a note titled “Waiver Requests” on drawing C1.0 (sheet 1 of 10) which states that we are requesting a partial waiver to

permit the required tree replacement plantings to be satisfied by 30 new trees previously planted on the property in 2025.

3. Revise sediment disposal notes to explicitly prohibit disposal within the dripline or root zone of any trees.

We have added a second paragraph on drawing C8.0 (sheet 8 of 10) under the note section titled "Sediment Disposal" which includes all the "explicitly stated" information from Mr. Hosbach's 12/29/2025 review letter.

4. Ensure all tree protection measures are clearly shown, labeled, and enforceable during construction.

We are showing and calling out tree protection on drawings C2.0 (sheet 2 of 10) and C8.0 (sheet 8 of 10) as well as calling out tree protection fencing in these respective drawing's legends. We have also bolded sequence of construction note "4" which states that tree protection fencing must be installed prior to any work being conducted (grubbing, excavation, grading, trenching, cleaning, or installation of compost filter sock).

If you have any questions regarding the submission and attached documents. Please do not hesitate to contact me at (610) 265-8323 or at jlowman@navenewell.net

Sincerely,

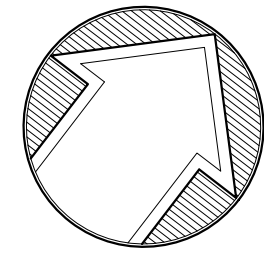
Jared F. Lowman, RLA



Enclosure

cc (via email): Michelle Christensen, CCM – The Union League Liberty Hill Ballroom
Chris Condon – TobinPeters Project Management

GRADING PERMIT PLANS



| PLAN INDEX | | | |
|--------------|--|------------|---------------------|
| SHEET NUMBER | SHEET TITLE | SHEET DATE | SHEET REVISION DATE |
| 1 | EXISTING FEATURES PLAN | 10/31/2025 | 01/05/2026 |
| 2 | DEMOLITION PLAN | 10/31/2025 | 01/05/2026 |
| 3 | SITE CONTEXT PLAN | 10/31/2025 | |
| 4 | SITE PLAN | 10/31/2025 | |
| 5 | GRADING PLAN | 10/31/2025 | |
| 6 | UTILITY PLAN | 10/31/2025 | |
| 7 | STORM PROFILE PLAN | 10/31/2025 | |
| 8 | EROSION AND SEDIMENTATION CONTROL PLAN | 10/31/2025 | 01/05/2026 |
| 9 | EROSION AND SEDIMENTATION CONTROL DETAIL SHEET | 10/31/2025 | 01/05/2026 |
| 10 | CONSTRUCTION DETAIL SHEET | 10/31/2025 | |

WAIVER REQUESTS

WAIVERS BEING REQUESTED FOR APPROVAL BY THE BOARD OF SUPERVISORS

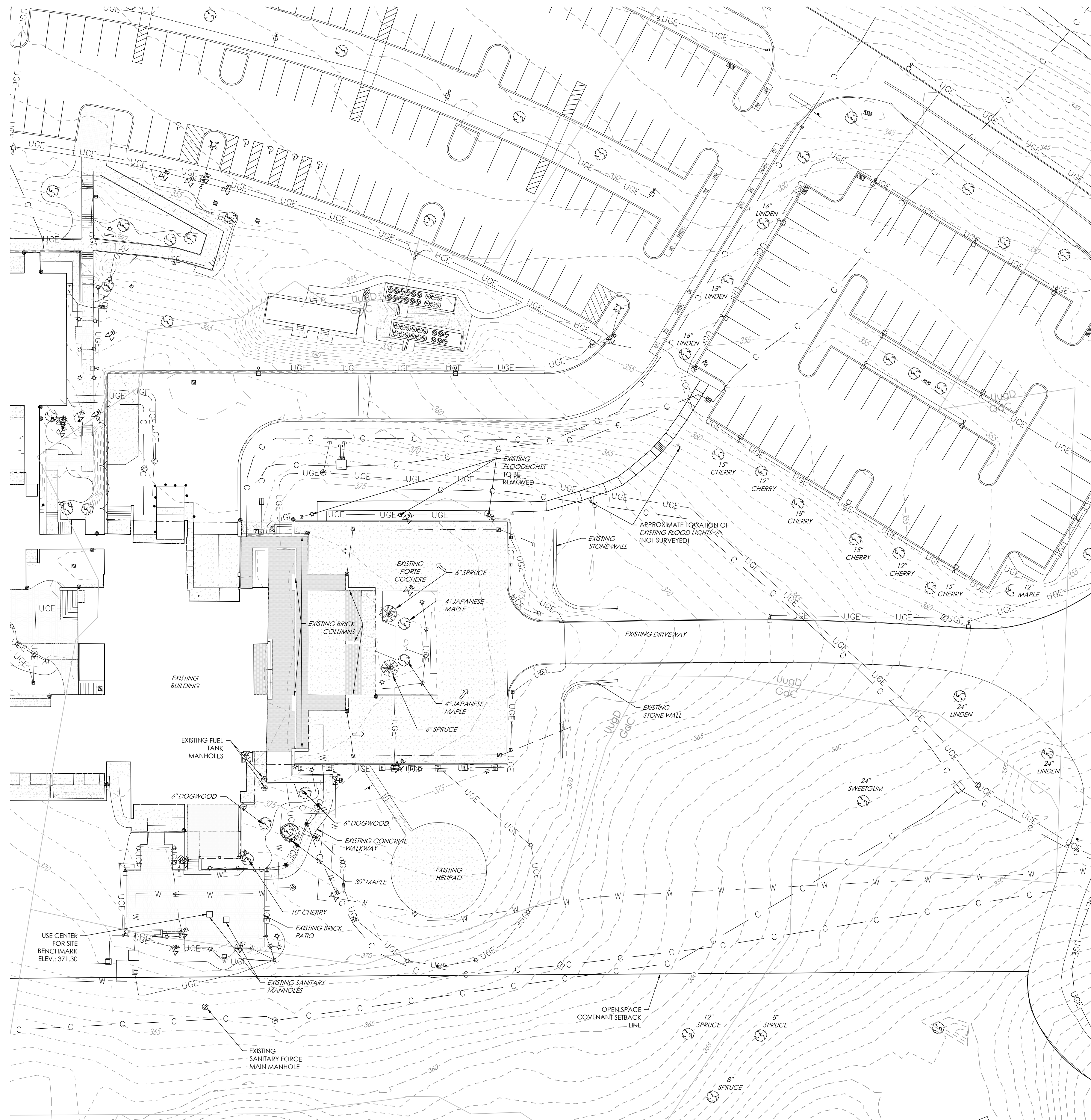
TREE PROTECTION STANDARDS
SECTION 55-40(a) REPLACEMENT TREE REQUIREMENT: WE REQUEST A PARTIAL WAIVER TO PERMIT THE REQUIRED TREE REPLACEMENT PLANTINGS TO BE SATISFIED BY 30 NEW TREES PREVIOUSLY PLANTED ON THE PROPERTY IN 2025.

WAIVER OF LAND DEVELOPMENT

A WAIVER OF LAND DEVELOPMENT WAS GRANTED BY THE WHITEMARSH TOWNSHIP BOARD OF SUPERVISORS ON THURSDAY, OCTOBER 9TH, 2025.

GENERAL NOTES:

- THIS PLAN IS BASED ON A SURVEY CONDUCTED IN THE FIELD BY HOWELL ENGINEERING COMPLETED ON JUNE 4, 2025.
- THIS SURVEY REPRESENTS CONDITIONS AS OF THE DATE OF THE SURVEY EXCEPT SUCH IMPROVEMENTS OR ADJUSTMENTS, IF ANY, THAT MAY BE LOCATED BELOW THE SURFACE OF THE LAND, ON THE SURFACE OF THE LANDS OR ABOVE THE SURFACE OF THE LANDS AND NOT VISIBLE.
- TITLE TO THE SUBJECT PROPERTY IS FILED IN THE MONTGOMERY COUNTY COURT HOUSE IN DEED BOOK 6222 PAGE 00754 IN THE WHITEMARSH TOWNSHIP, COUNTY OF MONTGOMERY, PENNSYLVANIA.
- BEARING BASIS FOR THE SURVEY IS THE RECORD DEED AS REFERENCED IN NOTE 3. ABOVE.
- LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREIN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS, PLANS BY OTHERS AND/OR ABOVE GROUND EXAMINATION OF SITE. THE COMPLETENESS OR ACCURACIES OF THE LOCATIONS ARE NOT GUARANTEED. SHOULD ANY NEW CONSTRUCTION BE PROPOSED, THE CONTRACTOR MUST VERIFY LOCATIONS AND DEPTHS OF ALL UTILITIES BEFORE START OF WORK.
- SITE BENCHMARK ELEVATION: 371.30. REFER TO CALL OUT OF EXISTING SANITARY MANHOLE ON EXISTING FEATURES DRAWING (C1.0).
- PURSUANT TO ACT 199 "PENNSYLVANIA ONE CALL INC." WAS PLACED, INFORMATION THEREBY OBTAINED WAS USED TO ILLUSTRATE EXISTING UTILITIES.
- NO REVIEW OF THE PROPERTY REGARDING THE PRESENCE OF WETLANDS WAS ACCOMPLISHED AS A PART OF THIS SURVEY.
- NO REVIEW OF THE PROPERTY REGARDING THE PRESENCE OF HAZARDOUS MATERIAL WAS ACCOMPLISHED AS A PART OF THIS SURVEY.
- UNIT AND BLOCK NUMBERS REFER TO THE OFFICIAL TAX MAPS OF WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA.
- EXISTING GRADES AS SHOWN ARE BASED ON AN ASSUMED VERTICAL DATUM.
- IF CONTRACTOR DEVIATES FROM THE PLANS AND/OR SPECIFICATIONS WITHOUT FIRST OBTAINING THE WRITTEN AUTHORIZATION OF THE OWNER, NAVE NEWELL, INC., AND THE JURISDICTIONAL AUTHORITY(IES), THE CONTRACTOR SHALL BE LIABLE AND RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS AND/OR SPECIFICATIONS, ALL FINES AND/OR PENALTIES ASSESSED, AND ALL COMPENSATORY, CONSEQUENTIAL, AND/OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR IS ON NOTICE THAT BY DEVIATING FROM SUCH PLANS AND/OR SPECIFICATIONS, THE CONTRACTOR IS ASSUMING THE RISK OF ALL SUCH DAMAGES, AND CONTRACTOR WILL BE SUBJECT TO INDEMNITY, CONTRIBUTION, AND/OR HOLD HARMLESS CLAIMS FROM THE OWNER AND/OR NAVE NEWELL, INC. FOR ALL SUCH LIABILITIES.



SOILS LEGEND:

SOILS INFORMATION OBTAINED FROM THE USDA-NRCS WEB SOIL SURVEY, VERSION 19. SURVEY PERFORMED ON SEPTEMBER 5, 2024.

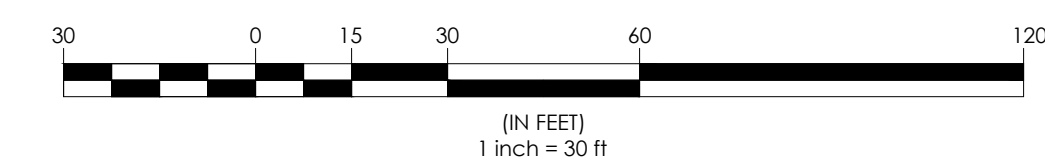
GdC - GLADSTONE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES HSG: B
 UgdG - URBAN LAND-UDORTHERS, SCHIST AND GNEISS COMPLEX, 8 TO 25 PERCENT SLOPES HSG: C

SOIL LIMITATIONS AND RESOLUTIONS

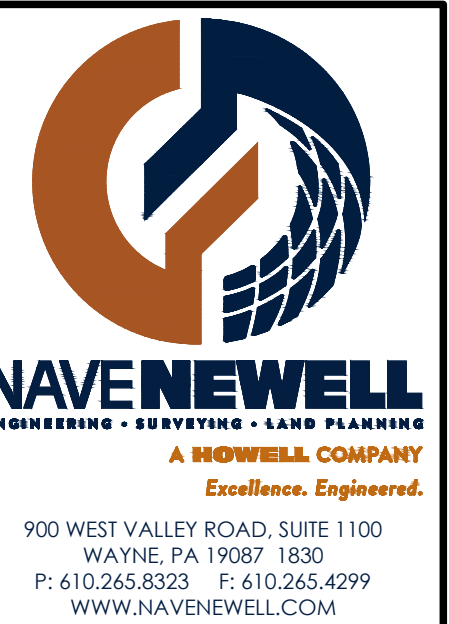
| APPLICABILITY TO PROJECT | SOIL LIMITATION | RESOLUTION(S) |
|--------------------------|---|--|
| YES | CUTBANKS CAVE | PROVIDE APPROPRIATE BENCHING AND/OR SHORING IN AREAS OF EXCAVATION. |
| YES | CORROSIVE TO CONCRETE/STEEL | INSTALL REBAR TO MINIMUM COVER REQUIREMENTS AND USE EPOXY COATED REBAR. APPLY MOISTURE BARRIER TO SURFACE OF EXPOSED CONCRETE. |
| YES | DROUGHTY | SOIL SHOULD BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. ANY RECOMMENDATIONS PRESCRIBED BY THE GEOTECHNICAL ENGINEER SHALL BE FOLLOWED PRIOR TO USE ON SITE. |
| YES | EASILY ERODIBLE | SOILS SHALL BE STABILIZED WITH EITHER TEMPORARY OR FINAL STABILIZATION IN AREAS WHERE EARTHWORK IS DELAYED OR STOPPED FOR FOUR CONSECUTIVE DAYS. |
| NO | FLOODING | AVOID DEVELOPMENT IN FLOOD PRONE AREAS. |
| NO | DEPTH TO SATURATED ZONE / SEASONAL HIGH WATER TABLE | SOILS SHOULD BE EVALUATED FOR WETNESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WET FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |
| YES | HYDRIC / HYDRIC INCLUSIONS | SOILS TO BE EVALUATED BY GEOTECHNICAL SPECIALIST. WATER TABLE EVALUATION WILL BE REQUIRED, POSSIBLY IN AREA OF WETLANDS. |
| YES | LOW STRENGTH / LANDSLIDE PRONE | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| YES | SLOW PERCOLATION | SOIL TO BE EVALUATED FOR SUITABILITY FOR INFILTRATION PRACTICES. |
| NO | PIPING | AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM. |
| YES | POOR SOURCE OF TOPSOIL | SOIL SHOULD BE AMENDED AS RECOMMENDED TO PROVIDE ADEQUATE MATERIALS NECESSARY FOR REQUIRED PLANT GROWTH. |
| YES | FROST ACTION | SOILS SHOULD BE FREE OF FROZEN OR MUCKY MATERIALS. FILL SHOULD NOT BE PLACED ON SATURATED OR FROZEN SURFACES. EARTHWORK INVOLVING THESE SOILS SHOULD BE LIMITED TO THE WARMER MONTHS WHEN PRACTICAL. |
| YES | SHRINK - SWELL | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| NO | POTENTIAL SINKHOLE | SOILS SHOULD BE EVALUATED FOR SINKHOLE ACTIVITY. INFILTRATION PRACTICES SHOULD BE AVOIDED IN THESE AREAS OR APPLIED WITH CONSIDERATION TO MINIMIZING INFILTRATION RATE. APPLY RECOMMENDATIONS FROM GEOTECHNICAL SPECIALIST. AVOID PLACING INFILTRATION PRACTICES, IF NEEDED, CLOSE TO BUILDINGS OR PRINCIPAL STRUCTURES. ENSURE ALL DRAINAGE SYSTEMS ARE WATERTIGHT. |
| NO | PONDING | ANY PONDING WATER SHALL BE PUMPED TO A LOCATION OF NO PONDING. ANY SEDIMENT LADEN WATER OR POTENTIALLY SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH A SEDIMENT CONTROL BMP SUCH AS PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS. |
| NO | WETNESS | SOILS SHOULD BE EVALUATED FOR WETNESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WET FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |

LEGEND

| | |
|--|-------------------------------------|
| | EXISTING PROPERTY BOUNDARY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING DRIVEWAY |
| | EXISTING BUILDING |
| | EXISTING SIDEWALK/ CONCRETE WALKWAY |
| | EXISTING BRICK WALKWAY |
| | EXISTING TREES |
| | EXISTING UNDERGROUND ELECTRIC LINE |
| | EXISTING STORM SEWER |
| | EXISTING COMMUNICATIONS LINE |
| | EXISTING WATER LINE |
| | EXISTING IRRIGATION VALVE |
| | EXISTING STORM INLET |
| | EXISTING HYDRANT |



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 P: 610.265.8323 F: 610.265.4299
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| DATE | NO. | DESCRIPTION | CHK'D BY | JFL | CC |
|------------|-----|--------------------------------|----------|-----|----|
| 12/22/2025 | 1 | PER TOWNSHIP COMMENTS | JFL | CC | |
| 01/05/2026 | 2 | PER TOWNSHIP ARBORIST COMMENTS | JFL | CC | |

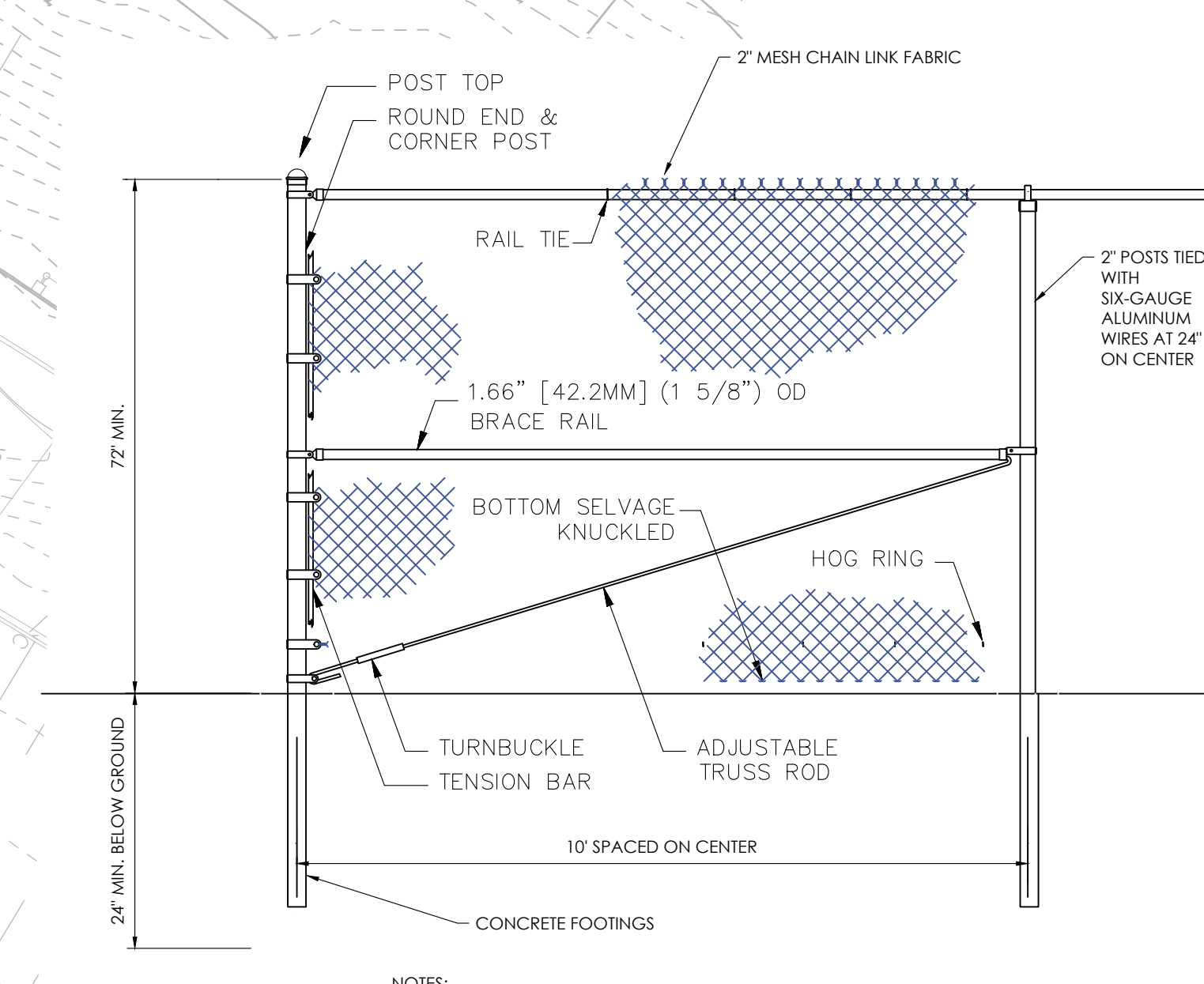
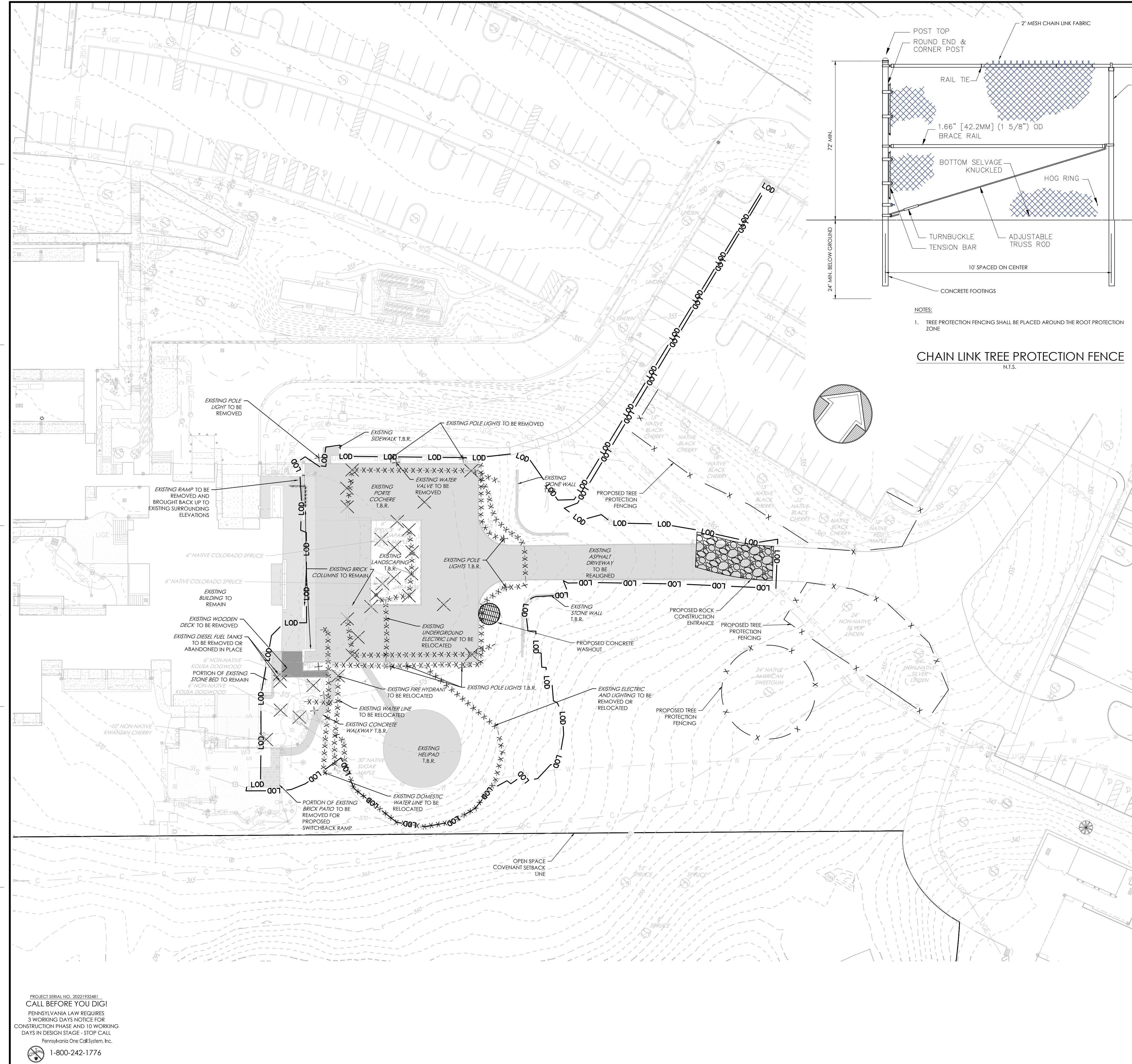


GREGORY C. NEWELL
 Professional Engineer
 License No. 367626

DRAWING NAME: EXISTING FEATURES PLAN
UNION LEAGUE AT LIBERTY HILL - BALLROOM
 LOCATION: WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA

| | | | |
|-------------|-------------|--------------|-----|
| project no. | 2021-045.07 | drawn by: | CC |
| date: | 10/31/2025 | chk'd by: | GCN |
| scale: | 1" = 30' | approved by: | GCN |
| sheet no. | | | |

C1.0



CHAIN LINK TREE PROTECTION FENCE
N.T.S.

- NOTES:**
1. TREE PROTECTION FENCING SHALL BE PLACED AROUND THE ROOT PROTECTION ZONE

- DEMOLITION NOTES:**
1. LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREIN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS, PLANS BY OTHERS, ABOVE GROUND EXAMINATION OF THE SITE AND/OR PRIVATE UTILITY LOCATION COMPANY. THE COMPLETENESS OR ACCURACY OF THE LOCATIONS ARE NOT GUARANTEED. THE CONTRACTOR MUST VERIFY LOCATIONS AND DEPTHS OF ALL UTILITIES BEFORE START OF WORK.
 2. PRIOR TO STARTING CONSTRUCTION, ALL UTILITY SERVICES IN THE AREA ARE TO BE LOCATED, THE USER NOTIFIED, AND MEASURES TAKEN TO PROTECT THE LINES IN ACCORDANCE WITH PA ACT 287, AS AMENDED. CONTRACTORS ARE TO IMMEDIATELY NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE PLAN INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT PA "ONE-CALL" AT LEAST 72 HOURS TO ANY EXCAVATION OR DEMOLITION ON SITE.
 3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF DEMOLITION.
 4. THE EXISTING ASPHALT TO BE RESURFACED SHALL BE PATCHED, FILLED AND/OR REPAIRED AS NECESSARY PRIOR TO THE APPLICATION OF THE WEARING COURSE.
 5. IN ALL AREAS WHERE FINISHED PAVING IS TO BE PROVIDED, THE CONTRACTOR IS TO BREAK APART EXISTING ASPHALT TO EXISTING SUBBASE STONE, FOLLOWING MILLING, THE EXPOSED SUBGRADE SHALL BE INSPECTED FOR ITS SUITABILITY AS PAVEMENT SUBBASE. IN AREAS WHERE EXISTING ASPHALT WILL BE CONVERTED TO GREEN SPACE OR BUILDING, THE CONTRACTOR IS TO MILL OUT THE EXISTING ASPHALT FOR ITS REUSE ON SITE AS SUBBASE IN PROPOSED ASPHALT PAVEMENT AREAS. ALL FILL MEASURES TO BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL SPECIFICATIONS.
 6. WHERE IMPROVEMENTS ARE PROPOSED TO BE INTO EXISTING FEATURES, THE EXISTING FEATURES SHALL BE FIELD VERIFIED FOR ELEVATION AND LOCATION. IF FIELD LOCATED DATA IS DIFFERENT THAN THE DATA CONTAINED WITH THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY NAVE NEWELL, INC. PRIOR TO ANY DESIGN CHANGES.
 7. THE PAVEMENT SECTION AREA DELINEATED ON THE PLANS TO BE MODIFIED SHALL BE USED AS GUIDANCE. EXPANSION OR CONTRACTION THIS AREA, AT THE NEW LOCATION TO EXISTING PAVEMENT, SIDEWALK, DRIVEWAY APRONS, AND LOADING AREAS AS THE FIELD CONDITIONS WARRANT. ALL PAVEMENT SEAMS SHALL BE SEALED.
 8. SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE DISCONNECTION, ABANDONMENT, RELOCATION AND/OR REMOVAL OF ALL APPLICABLE ON-SITE UTILITIES, IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AS WELL AS ANY REQUIREMENTS FROM THE RELEVANT UTILITY COMPANY.
 9. ALL DEMOLITION SHALL BE PERFORMED BY A QUALIFIED, LICENSED CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
 10. THIS PLAN IS NOT INTENDED TO DEPICT ALL FACETS AND ITEMS TO BE ADDRESSED DURING THE COURSE OF DEMOLITION ACTIVITIES. THIS PLAN IS INTENDED TO REPRESENT ONLY THE READILY VISIBLE, EXISTING IMPROVEMENTS ON-SITE. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE CONDITION PRIOR TO FINALIZING HIS BID AND PROVIDE ALL NECESSARY DEMOLITION SERVICES REQUIRED TO COMPLETE THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS. UPON INITIATION OF DEMOLITION, CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD IMMEDIATELY, SHOULD CONFLICTS ARISE IN THE FIELD.
 11. CONTRACTOR IS TO EXERCISE CARE WHEN REMOVING PAVEMENT OVER EXISTING PIPES TO REMAIN. DURING CONSTRUCTION, CONTRACTOR SHALL TAKE STEPS TO MAINTAIN ADEQUATE COVER OVER ALL EXISTING PIPES TO REMAIN AND TO PREVENT CONSTRUCTION TRAFFIC FROM DAMAGING SAID PIPES. IF THE EXISTING PIPES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM IN KIND AT THE CONTRACTOR'S COST.
 12. ALL PAVEMENT WITHIN THE LIMITS OF DISTURBANCE NOT SCHEDULED TO BE REMOVED SHALL BE MILLED AND OVERLAID WITH 1.5" ID-2 BITUMINOUS WEARING COURSE. MILLING AND OVERLAYING SHALL BE PERFORMED TO MAKE PATCHING NONVISUAL WHEN COMPLETED.
 13. CONTRACTOR SHALL USE EXTREME CAUTION WHEN REMOVING EXISTING UTILITIES TO PREVENT ANY DISTURBANCE TO UTILITIES THAT ARE TO REMAIN. IF SAID REMAINING UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY REPAIRS.
 14. ALL UTILITIES TO BE ABANDONED AND LEFT IN PLACE SHALL BE PLUGGED AND FILLED WITH FLOWABLE CONCRETE.
 15. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION.
 16. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

- TREE PROTECTION AND PRESERVATION/ PROTECTIVE FENCING NOTES:**
1. TREE PROTECTIVE FENCING SHALL BE PLACED AROUND THE ROOT PROTECTION ZONE. THE FENCING SHALL BE AT LEAST SIX FEET TALL WITH TWO-INCH MESH CHAIN LINK FABRIC. TWO-INCH CHAIN LINK SHALL BE TIED WITH SIX-GAUGE ALUMINUM WIRES AT 24 INCHES ON CENTER. POSTS SHALL BE A MINIMUM OF TWO FEET IN THE GROUND AND SPACE OF 10 FEET ON CENTER. PLASTIC ZIP TIES MAY NOT BE USED IN PLACE OF REQUIRED SIX-GAUGE ALUMINUM WIRE.
 2. THE PROTECTIVE FENCING SHALL BE INSTALLED WITH CARE TO AVOID ROOTS AND PLACED ENCOMPASSING THE ENTIRE ROOT PROTECTION ZONE OF INDIVIDUAL OR GROUPS OF CONTIGUOUS TREES. FENCING SHALL BE INSTALLED PRIOR TO ANY WORK BEING CONDUCTED, E.G., GRUBBING, EXCAVATION, GRADING, TRENCHING, CLEANING, OR INSTALLATION OF SILT FENCING/ COMPOST FILTER SOCK. THE PROTECTIVE FENCING SHALL BE MAINTAINED THROUGHOUT THE ENTIRE PERIOD OF CONSTRUCTION.
 3. NO FUEL STORAGE, REFUELING OR MAINTENANCE OF EQUIPMENT, OR WASH DOWN OF CEMENT HANDLING EQUIPMENT SHALL BE PERMITTED WITHIN 100 FEET OF ANY TREE TO BE PRESERVED.
 4. NO ACTIVITY OF ANY SORT RELATING TO TRANSPORTING, DEMOLITION, GRADING, CONSTRUCTION, STORAGE, OR ANY OTHER ACTIVITIES SHALL OCCUR BEYOND THE LIMIT OF THE TREE PROTECTION FENCING. NOTHING SHALL BE STORED, STOCKPILED, TEMPORARILY PLACED, OR ALLOWED IN THE ROOT PROTECTION ZONE.
 5. ANY DAMAGE TO THE FENCING OR ENCROACHMENT ON THE PROTECTED AREAS SHALL BE REMEDIATED IMMEDIATELY. ANY OBSERVED DAMAGE TO THE TREES SHALL BE IMMEDIATELY REPORTED TO THE TOWNSHIP AND REMEDIATED AS SOON AS IS PRACTICABLE. AT THE DISCRETION OF THE SHADE TREE COMMISSION, PRESERVED TREES THAT HAVE NOT BEEN ADEQUATELY PROTECTED OR HAVE BEEN DAMAGED MAY BE REQUIRED TO BE REMOVED AND REPLACED AT THE EXPENSE OF THE APPLICANT.

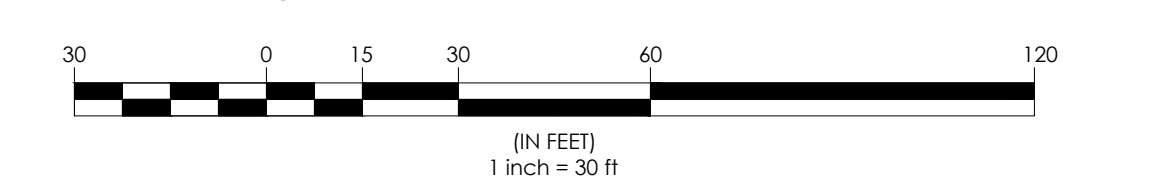
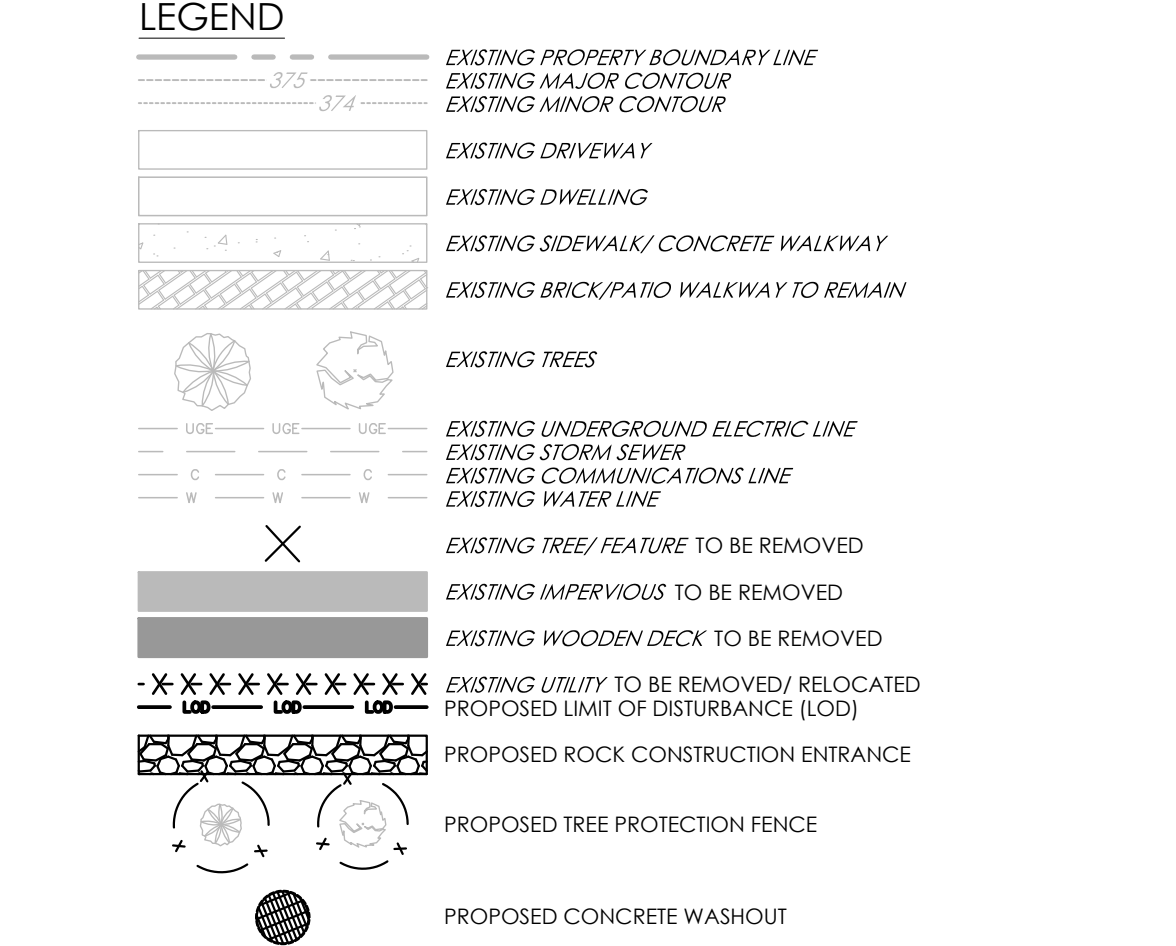
EXISTING TREES NEAR L.O.D. TO BE PROTECTED

| QUANTITY PROTECTED | SIZE | SPECIES | NOTES | NATIVE/NON-NATIVE |
|--------------------|------|--------------------|--------|-------------------|
| 3 | 12" | RED MAPLE | CANOPY | NATIVE |
| 1 | 15" | BLACK CHERRY | CANOPY | NATIVE |
| 2 | 12" | BLACK CHERRY | CANOPY | NATIVE |
| 1 | 18" | BLACK CHERRY | CANOPY | NATIVE |
| 2 | 24" | SILVER LINDEN | CANOPY | NON-NATIVE |
| 1 | 24" | AMERICAN SWEET GUM | CANOPY | NATIVE |

EXISTING TREES TO BE REMOVED

| QUANTITY REMOVED | SIZE | SPECIES | NOTES | NATIVE/NON-NATIVE |
|------------------|------|-----------------|------------|-------------------|
| 1 | 30" | SUGAR MAPLE | CANOPY | NATIVE |
| 1 | 10" | KAWNZAN CHERRY | UNDERSTORY | NON-NATIVE |
| 2 | 6" | KOUSA DOGWOOD | UNDERSTORY | NON-NATIVE |
| 2 | 6" | COLORADO SPRUCE | UNDERSTORY | NATIVE |

NOTE: THERE ARE NO TREES WITHIN THE LIMIT OF DISTURBANCE THAT WILL BE PRESERVED



900 WEST VALLEY ROAD, SUITE 1100
WAYNE, PA 19087 1830
P: 610.265.8323 F: 610.265.4299
WWW.NAVENEWELL.COM

REVISIONS

| DATE | NO. | DESCRIPTION | CHK'D BY | APP'D BY |
|------------|-----|--------------------------------|----------|----------|
| 12/22/2025 | 1 | PER TOWNSHIP COMMENTS | JFL | CC |
| 01/05/2026 | 2 | PER TOWNSHIP ARBORIST COMMENTS | JFL | CC |

GREGORY C. NEWELL
Professional Engineer
Montgomery License No. 367626

DEMOLITION PLAN

UNION LEAGUE AT LIBERTY HILL - BALLROOM

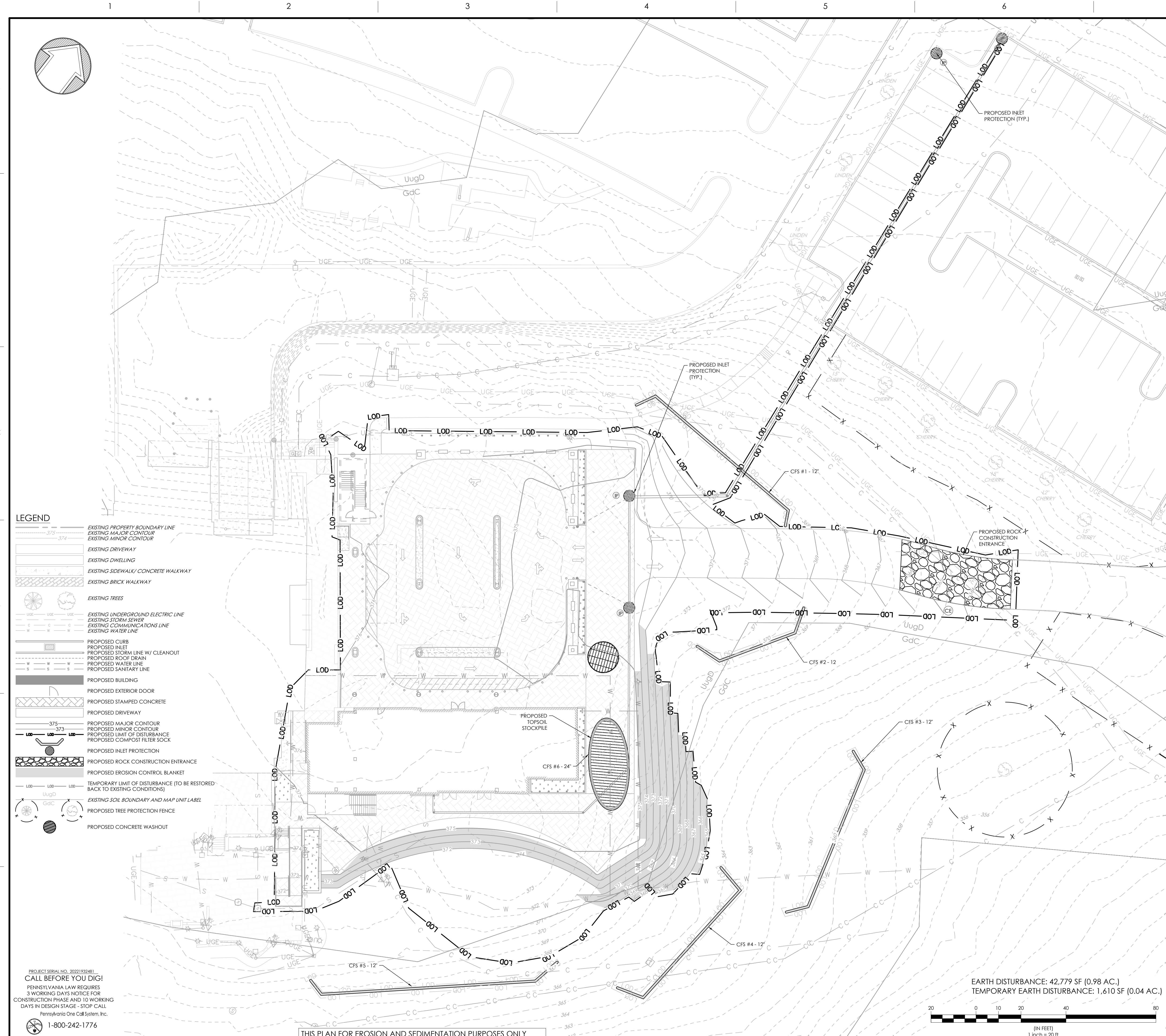
WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA

PROJECT NO. 2021-045.07
DATE: 10/31/2025
SCALE: 1" = 30'
SHEET NO.

DRAWN BY: CC
CHK'D BY: GCN
APPROV. BY: GCN

C2.0

2 of 10



LEGEND

| | |
|--|---|
| | EXISTING PROPERTY BOUNDARY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | EXISTING DRIVEWAY |
| | EXISTING DWELLING |
| | EXISTING SIDEWALK/ CONCRETE WALKWAY |
| | EXISTING BRICK WALKWAY |
| | EXISTING TREES |
| | EXISTING UNDERGROUND ELECTRIC LINE |
| | EXISTING STORM SEWER |
| | EXISTING COMMUNICATIONS LINE |
| | EXISTING WATER LINE |
| | PROPOSED CURB |
| | PROPOSED INLET |
| | PROPOSED STORM LINE W/ CLEANOUT |
| | PROPOSED ROOF DRAIN |
| | PROPOSED WATER LINE |
| | PROPOSED SANITARY LINE |
| | PROPOSED BUILDING |
| | PROPOSED EXTERIOR DOOR |
| | PROPOSED STAMPED CONCRETE |
| | PROPOSED DRIVEWAY |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | PROPOSED LIMIT OF DISTURBANCE |
| | PROPOSED COMPOST FILTER SOCK |
| | PROPOSED INLET PROTECTION |
| | PROPOSED ROCK CONSTRUCTION ENTRANCE |
| | PROPOSED EROSION CONTROL BLANKET |
| | PROPOSED EROSION CONTROL BLANKET |
| | TEMPORARY LIMIT OF DISTURBANCE (TO BE RESTORED BACK TO EXISTING CONDITIONS) |
| | EXISTING SOIL BOUNDARY AND MAP UNIT LABEL |
| | PROPOSED TREE PROTECTION FENCE |
| | PROPOSED CONCRETE WASHOUT |

PROJECT SERIAL NO. 2022193481
CALL BEFORE YOU DIG!
 PENNSYLVANIA LAW REQUIRES
 3 WORKING DAYS NOTICE FOR
 CONSTRUCTION PHASE AND 10 WORKING
 DAYS IN DESIGN STAGE - STOP CALL
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THIS PLAN FOR EROSION AND SEDIMENTATION PURPOSES ONLY

EARTH DISTURBANCE: 42,779 SF (0.98 AC.)
 TEMPORARY EARTH DISTURBANCE: 1,610 SF (0.04 AC.)

20 0 10 20 40 80
 (IN FEET)
 1 inch = 20 ft

GENERAL CONSERVATION NOTES AND SPECIFICATIONS

INTENT OF CONSERVATION PROGRAM: THE INTENT OF THIS PROGRAM IS TO PREVENT ACCELERATED EROSION OF THE EXPOSED SITE SOILS DURING THE CONSTRUCTION AND PERMANENT LIFE PERIODS OF THE DEVELOPMENT. THE PROGRAM REQUIRES RETENTION OF ALL SEDIMENTS ON THE CONSTRUCTION SITE TO MINIMIZE THE IMPACT OF DEVELOPMENT ON EXISTING STREAMS AND ADJACENT PROPERTY OWNERS. THESE OBJECTIVES WILL BE ACHIEVED BY MINIMIZING THE EXPOSURE TIME OF POTENTIALLY ERODIBLE SOILS TO RUNOFF AND INSTALLATION OF THE TEMPORARY CONSTRUCTION. THE INTENT OF THIS PROGRAM SHOULD BE UNDERSTOOD AND IMPLEMENTED THROUGHOUT THE ENTIRE DEVELOPMENT. THE VARIOUS CONSTRUCTION TRADES SHOULD BE APPRAISED OF THIS PROGRAM AND DIRECTED TO PREVENT UNDUE DISTURBANCE OF PREPARED AND PROTECTED SURFACES.

SURFACE STABILIZATION CRITERIA: ALL DENUDED SOIL SURFACES, INCLUDING SOIL STOCKPILES, ARE SUBJECT TO EROSION AND SHALL BE STABILIZED EITHER TEMPORARILY OR PERMANENTLY, IMMEDIATELY DURING NON-GERMINATION PERIODS. MULCH MUST BE APPLIED AT RECOMMENDED RATES. CRUSHED STONE ON PAVEMENT SUBGRADES IS CONSIDERED ADEQUATE PROTECTION. ALL DISTURBED ZONES AND VEGETATED REGIONS SHALL BE STABILIZED, PREFERABLY WITH A PERMANENT TREATMENT AS FOLLOWS:

SEEDING & MULCHING SPECIFICATIONS
TEMPORARY: SEEDING SHALL BE COMMON RYE GRASS APPLIED AT 45 LBS. PER ACRE. LIMING TO BE APPLIED AT 1 TON/ACRE. 50-50-50 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE. HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE.
PERMANENT: SEEDING SHALL BE 15% KENTUCKY BLUEGRASS, 35% KENTUCKY 31 FESCUE, 25% CHEWINGS FESCUE, 15% PERENNIAL RYE GRASS, AND 10% RECLEANED REDTOP AT A RATE OF 60 LBS. PER ACRE. LIMING TO BE APPLIED AT 3 TONS/ACRE. 10-20-30 FERTILIZER TO BE APPLIED AT 1000 LBS/ACRE. HAY OR STRAW MULCH TO BE APPLIED AT 3 TONS/ACRE. THE NON-GERMINATING PERIODS ARE BETWEEN 6/15 THROUGH 8/15 AND 9/30 THROUGH 4/15. AREAS DISTURBED DURING THESE PERIODS MUST BE LIMED, FERTILIZED, SEEDED AND MULCHED IMMEDIATELY FOLLOWING THE END OF THOSE PERIODS. TOPSOIL TAKEN FROM CONSTRUCTION AREAS SHALL BE SEEDED WITH VEGETATIVE COVER AND STOCKPILES FOR RE-USE IN FINISH GRADING. THERE IS TO BE NO EARTH DISTURBANCE OR VEGETATIVE CLEARING IN AREAS OUTSIDE OF THE DELINEATED AREAS TO BE DISTURBED.

SEDIMENT DISPOSAL:
 SILT REMOVED FROM TEMPORARY SEDIMENT CONTROL STRUCTURES SHALL BE DISPOSED ON-SITE IN LANDSCAPED AREAS LOCATED OUTSIDE OF FLOOD PLAINS, WETLANDS, STEEP SLOPES, DRIP LINES OF CRITICAL ROOT ZONES, AND DRAINAGE SWALES. AREAS OF SEDIMENT DISPOSAL SHALL BE CONSIDERED C.V.A.

SEDIMENT DISPOSAL SHALL NOT OCCUR WITHIN THE DRIPLINE OF CRITICAL ROOT ZONE OF ANY EXISTING TREES, INCLUDING TREES PROPOSED FOR PRESERVATION. SEDIMENT PLACEMENT WITHIN THE TREE DRIP LINES RESULTS IN: ROOT SUFFOCATION, SOIL COMPACTION, ALTERED SOIL CHEMISTRY, AND INCREASED LIKELIHOOD OF DELAYED TREE DECLINE OR FAILURE. SEDIMENT DISPOSAL WITHIN TREE PROTECTION ZONES IS NOT ACCEPTABLE AND IS CONTRARY TO THE INTENT OF CHAPTER 55.

DUST CONTROL:
 DUST AND OTHER PARTICULATES SHALL BE KEPT WITHIN TOLERABLE LIMITS BY USING WATER. APPLICATION SHALL BE AS NEEDED OR AS DIRECTED BY THE TOWNSHIP ENGINEER OR THE CONSERVATION DISTRICT.

CRITICAL VEGETATION AREAS (C.V.A.):
 CRITICAL VEGETATION AREAS ARE TO BE GRADED, HYDROSEEDING AND MULCHED WITHIN 10 DAYS OF THE BEGINNING OF EXCAVATION. IN GENERAL, CRITICAL VEGETATION AREAS ARE DEFINED AS CUT SLOPES STEEPER THAN 3H:1V, ALL FILL SLOPES STEEPER THAN 4H:1V AND IN ALL DRAINAGE SWALES.

GENERAL NOTES FOR UTILITY CONSTRUCTION

- EXCAVATED MATERIAL SHOULD BE STAGED ON THE UPSTREAM SIDE OF A TRENCH.
- THE DAILY EXTENT OF TRENCHING SHOULD NOT EXCEED WHAT CAN BE BACK FILLED AND STABILIZED IN ONE WORKING DAY.
- LIMIT ADVANCED CLEARING AND GRUBBING OPERATIONS TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY.
- WORK CREWS AND EQUIPMENT FROM TRENCHING, PLACEMENT OF PIPE, AND BACKFILLING WILL BE SELF CONTAINED AND SEPARATE FROM CLEARING AND GRUBBING AND SITE RESTORATION AND STABILIZATION OPERATIONS.
- WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING BEFORE PIPE PLACEMENT AND/OR BACKFILLING BEGINS. WATER REMOVED FROM THE TRENCH SHALL BE PUMPED THROUGH A FILTRATION DEVICE.
- ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL CONTOURS AND IMMEDIATELY STABILIZED.
- SOILS EXCAVATED FROM EXISTING SURFACE LAYER SHOULD BE STOCKPILED SEPARATELY AND RETURNED AS FINAL SURFACE LAYER FOLLOWING TRENCH BACKFILLING.

MAINTENANCE SCHEDULE FOR TEMPORARY SEDIMENTATION CONTROL STRUCTURES
 INSPECTION AND MAINTENANCE OF ALL FACILITIES SHALL BE MADE AFTER EACH RAIN STORM EVENT AND ON A WEEKLY BASIS. MAINTENANCE OF ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE "EROSION AND SEDIMENT CONTROL NARRATIVE."

MAINTENANCE OF TEMPORARY SEDIMENTATION CONTROL STRUCTURES
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SOILS LEGEND:
 SOILS INFORMATION OBTAINED FROM THE USDA-NRCS WEB SOIL SURVEY, VERSION 17, SURVEY PERFORMED ON SEPTEMBER 5, 2024.

GdC - GLADSTONE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES HSG: B
 UUGD - URBAN LAND-UDORTHENS, SCHIST AND GNESS COMPLEX, 8 TO 25 PERCENT SLOPES HSG: C

| SOIL LIMITATIONS AND RESOLUTIONS | | |
|----------------------------------|---|---|
| APPLICABILITY TO PROJECT | SOIL LIMITATION | RESOLUTION(S) |
| YES | CUTBANKS CAVE | PROVIDE APPROPRIATE BENCHING AND/OR SHORING IN AREAS OF EXCAVATION. |
| YES | CORROSIVE TO CONCRETE/STEEL | INSTALL REBAR TO MINIMUM COVER REQUIREMENTS AND USE EPOXY COATED REBAR. APPLY MOISTURE BARRIER TO SURFACE OF EXPOSED CONCRETE. |
| YES | DROUGHTY | SOIL SHOULD BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO USE ON SITE. ANY RECOMMENDATIONS PRESCRIBED BY THE GEOTECHNICAL ENGINEER SHALL BE FOLLOWED PRIOR TO USE ON SITE. |
| YES | EASILY ERODIBLE | SOILS SHALL BE STABILIZED WITH EITHER TEMPORARY OR FINAL STABILIZATION IN AREAS WHERE EARTHWORK IS DELAYED OR STOPPED FOR FOUR CONSECUTIVE DAYS. |
| NO | FLOODING | AVOID DEVELOPMENT IN FLOOD PRONE AREAS. |
| NO | DEPTH TO SATURATED ZONE / SEASONAL HIGH WATER TABLE | SOILS SHOULD BE EVALUATED FOR WEENESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WET FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |
| YES | HYDRIC / HYDRIC INCLUSIONS | SOILS TO BE EVALUATED BY GEOTECHNICAL SPECIALIST. WATER TABLE EVALUATION WILL BE REQUIRED, POSSIBLY IN AREA OF WETLANDS. |
| YES | LOW STRENGTH / LANDSLIDE PRONE | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| YES | SLOW PERCOLATION | SOIL TO BE EVALUATED FOR SUITABILITY FOR INFILTRATION PRACTICES. |
| NO | PIPPING | AREAS OF EMBANKMENTS WITH PIPES PASSING THROUGH THEM SHALL HAVE ANTI-SEEP COLLARS INSTALLED PER THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S (PA DEP) EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM. |
| YES | POOR SOURCE OF TOPSOIL | SOIL SHOULD BE AMENDED AS RECOMMENDED TO PROVIDE ADEQUATE MATERIALS NECESSARY FOR REQUIRED PLANT GROWTH. |
| YES | FROST ACTION | SOILS SHOULD BE FREE OF FROZEN OR MUCKY MATERIALS. FILL SHOULD NOT BE PLACED ON SATURATED OR FROZEN SURFACES. EARTHWORK INVOLVING THESE SOILS SHOULD BE LIMITED TO THE WARMER MONTHS WHEN PRACTICAL. |
| YES | SHRINK - SWELL | SOILS SHOULD NOT BE USED FOR STRUCTURAL FILL UNLESS THEY HAVE BEEN EVALUATED BY A GEOTECHNICAL ENGINEER AND THE GEOTECHNICAL ENGINEER DEEMS THEM SUITABLE AS FILL OR PROVIDES RECOMMENDATIONS TO AMEND SOILS MAKING THEM SUITABLE AS FILL. |
| NO | POTENTIAL SINKHOLE | SOILS SHOULD BE EVALUATED FOR SINKHOLE ACTIVITY. INFILTRATION PRACTICES SHOULD BE AVOIDED IN THESE AREAS OF APPLIED WITH CONSIDERATION TO MINIMIZING INFILTRATION RATE. APPLY RECOMMENDATIONS FROM GEOTECHNICAL SPECIALIST. AVOID PLACING INFILTRATION PRACTICES, IF NEEDED, CLOSE TO BUILDINGS OR PRINCIPAL STRUCTURES. ENSURE ALL DRAINAGE SYSTEMS ARE WATER TIGHT. |
| NO | PONDING | ANY PONDING WATER SHALL BE PUMPED TO A LOCATION OF NO PONDING. ANY SEDIMENT LADEN WATER OR POTENTIALLY SEDIMENT LADEN WATER SHALL BE PUMPED THROUGH A SEDIMENT CONTROL BMP SUCH AS PUMPED WATER FILTER BAG DISCHARGING OVER NON-DISTURBED AREAS. |
| NO | WEENESS | SOILS SHOULD BE EVALUATED FOR WEENESS PRIOR TO USE IN SITE WORK. IF GEOTECHNICAL ENGINEER DEEMS SOILS TOO WET FOR SITE WORK, THEN SOILS SHALL BE AMENDED OR DRIED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. |

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| DATE | NO. | DESCRIPTION | CHKD BY |
|------------|-----|--------------------------------|---------|
| 12/22/2025 | 1 | PER TOWNSHIP COMMENTS | JFL CC |
| 01/05/2026 | 2 | PER TOWNSHIP ARBORIST COMMENTS | JFL CC |

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EROSION AND SEDIMENTATION CONTROL PLAN

UNION LEAGUE AT LIBERTY HILL - BALLROOM

LOCATION: WHITEMARSH TOWNSHIP, MONTGOMERY COUNTY, PA

| | |
|-------------------------|-----------------|
| PROJECT NO. 2021-045.07 | DRAWN BY: CC |
| DATE: 10/31/2025 | CHKD BY: GCN |
| SCALE: 1" = 20' | APPROV. BY: GCN |
| SHEET NO. | |

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