TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION Regular Meeting Agenda Wednesday, February 1, 2023 6:30 p.m.

MEETING LOCATION:

Brooklyn Middle School Auditorium, 119 Gorman Road, Brooklyn, CT Click link below: Go to https://www.zoom.us/join

or https://us06web.zoom.us/j/87925438541 or Enter meeting ID: 879 2543 8541

Dial: 1-646-558-8656

Enter meeting number: 879 2543 8541, then press #, Press # again to enter meeting

- I. Call to Order
- II. Roll Call
- III. Seating of Alternates
- IV. Adoption of Minutes: Meeting January 17, 2023
- V. Public Commentary
- VI. Unfinished Business:
 - a. Reading of Legal Notices:
 - b. Continued Public Hearings: None.
 - c. New Public Hearings:
 - SP 22-008: Special Permit Application for Multi-Family Development (50 Condominium units) on south side of Louise Berry Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone, Applicant: Shane Pollack and Erin Mancuso.
 - d. Other Unfinished Business:
 - SP 22-008: Special Permit Application for Multi-Family Development (50 Condominium units) on south side of Louise Berry Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone, Applicant: Shane Pollack and Erin Mancuso.
 - SD 22-004: One lot Resubdivision including 2 acres on Allen Hill Road/Wauregan Road (Map 31, Lot 97C), Applicant: Wayne Jolley/Lori Pike. *Public Hearing 2/21/2023*
 - 3. **SP 22-007:** Special Permit for an Events Facility at 459 Wolf Den Road, Applicants: Nicole and Greg Fisher. ***Public Hearing 2/21/2023***
 - 4. **ZRC 22-009:** Multiple revisions to Section 4.F Mill Mixed Use Development Zone, Applicant: DMP Palmer Associates. ***Public Hearing 3/21/2023***

VII. New Business:

a. Applications:

- 1. **SPR 23-001:** Site Plan Review for a Home Business (Woodstock Rebuilding) at 249 Windham Road, RA Zone, Applicant: Kencyn Corporation/John Serrell.
- 2. **ZRC 23-001:** Multiple revisions concerning exceptions to the setbacks including Secs. 2.B, 3.A.5.2., 3.B.5.2., 3.C.5.2., 4.B.4.2., 4.C.4.2., and 8.A.4.
- b. Other New Business: None.

VIII. Reports of Officers and Committees:

- a. Staff Reports
- b. Budget Update
- c. Correspondence
- d. Chairman's Report
- IX. Public Commentary
- X. Adjourn

TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION Regular Meeting Tuesday, January 17, 2023 6:30 p.m.

3 WAYS TO ATTEND: IN-PERSON, ONLINE, AND BY PHONE

MEET	'ING LO	DCATION:
Clifford B. Green Meeting Center,	, Suite 2	4, 69 South Main Street, Brooklyn, CT
Click link below:	or	Go to <u>https://www.zoom.us/join</u>
https://us06web.zoom.us/j/84765564828	or	Enter meeting ID: 847 6556 4828
Dial: 1-646-558-8656		
Enter meeting number: 847 6556 4828, ther	1 press ‡	, Press # again to enter meeting

MINUTES

- I. Call to Order Michelle Sigfridson, Chair, called the meeting to order at 6:32 p.m.
- Roll Call M. Sigfridson, Carlene Kelleher, Allen Fitzgerald, Lisa Herring, S. Pember, J. Haefele; Gil Maiato; (all were present in person).
 Sara Deshaies and Brian Simmons and were absent with notice. Karl Avanecean was absent.

Staff Present: Jana Roberson, Town Planner and Director of Community Development; Austin Tanner, First Selectman (both present in person).

Also Present in Person: Pete Parent, P.E. with CHA; Attorney Kathleen Cerrone, The Northeast Law Center; J.S. Perreault, Recording Secretary. There were five additional people present in the audience.

Present via Zoom: Steve Townsend, Townsend Development; Debbie; Scott & Marie; Jim Doherty; Jackie; Lori Johnson; Amy Fleming; WINY Radio; Mary K; Bob; Norman Berman.

- **III.** Seating of Alternates No Alternates seated.
- **IV.** Adoption of Minutes: Meeting January 4, 2023

Motion was made by C. Kelleher to approve the Minutes of the Regular Meeting of January 4, 2023, as presented.

Second by G. Maiato. No discussion. Motion carried unanimously by voice vote (7-0-0).

V. Public Commentary

Scott Winslow, Herrick Road, stated that he was considering submitting an application for an Alternate Position. He asked about the philosophy of the PZC regarding zoning as he feels zoning regulations should be changed so that it benefits all of the Townspeople rather than sculpting or tailoring the regulations to only benefit a couple of people.

A. Tanner stated that you uphold the Regulations the way they are written and when there are changes, you do it to the best of your ability.

M. Sigfridson explained that everyone on the Commission wants to do something for the Town as a whole. Only a handful of people participated in the re-write of the Regulations.

L. Herring spoke of the difficulty and time spent in making decisions as those decisions change people's lives. She said that she makes her decisions based on what she feels is best for the Town. A. Fitzgerald stated that he doesn't feel that any of the Commission Members do it for personal gain and, although they don't always agree, they all try to do what is best for the Town.

C. Kelleher explained that the Regulations are fluid and are never finished. She looks at what is before her and sees how it fits in. It is always a balancing act between what is best for the Town and what a person is allowed to do with their personal property.

VI. Unfinished Business:

- a. Reading of Legal Notices: None.
- b. Continued Public Hearings:
 - 1. **ZRC 22-008:** Revisions to the Planned Commercial Zone to allow self-storage facilities as a Special Permit Use with specific standards, including Sec. 4.D.2.3.19 Permitted Uses in the PC Zone, and Section 6.T Standards for Self-Storage Facilities, Applicant: Townsend Development.

Pete Parent, P.E. with CHA, represented the Applicant. Mr. Townsend was present via Zoom. Mr. Parent reviewed revisions which resulted from discussion at the previous meeting.

- 6.T.2.1 No change.
- Added 6.T.2.2 No Outdoor Storage shall be allowed.
- Added 6.T.2.3 Maximum allowable density for Self-Storage Facilities shall be 4,000 square feet of Gross Building Area per Acre of Lot Area, with no single building greater than 20,000 square feet.

Mr. Parent stated that self-storage is a low-impact use that would be compatible with other allowed uses in the Zone. The revisions would reduce the visual affect.

Mr. Parent displayed a conceptual plan to show the scale of what Mr, Townsend is proposing. He indicated the locations of existing, proposed and previously approved buildings.

Steve Townsend's comments:

- He feels that this mixed-use combination is a great use for this property.
- Commercial development is not simply store-front retail and that he sees this type of development all across the country.
- Route 6 will become vibrant if some of these alternative uses are allowed along the Route 6 Corridor.
- Four sites, including this property, that would potentially impacted by this proposal.
- Low impact with little or no traffic coming off the site, little or no safety issues, little or no noise, height of the building would be less than what is permitted in the Zone.
- Would have a positive impact on the Grand List.
- No direct impact on schools.
- Would create more opportunities for others to develop.
- Self-storage would be complimentary to the 19,000 sq. ft. retail center that he plans to do.
- They are prepared to move on this as he has someone who is interested in doing the self-storage, if approved. They would get started in the spring when weather permits. They would be coming back to the PZC with detailed plans.

QUESTIONS/COMMENTS FROM THE COMMISSION:

J. Haefele asked about hours of operation.
Mr. Parent explained that hours of operation would be proposed as part of the special permit application process. He stated that there would be no need for 24-hour access and that standard business hours would be typical. Mr. Townsend stated same hours, until 9 p.m., like CVS.
Ms. Roberson stated that suitability to the location would be addressed should

Ms. Roberson stated that suitability to the location would be addressed should this proceed to a special permit application.

• A. Fitzgerald asked about whether more directive needs to be added to the proposal regarding a way to include retail space, as discussed at the last meeting, so that the Town doesn't get overwhelmed with storage facilities. Ms. Roberson stated that she had consulted with the Town Attorney and he feels that co-dependency of uses is probably not appropriate for Zoning Regulations.

• L. Herring spoke about her concerns regarding the difficulty in converting the building to another use in the case that self-storage does not work out. Mr. Townsend referred to the conceptual site plan and explained that the building could easily be converted to a retail center. He also explained that, for the 19,000 sq. ft. retail building, they do not do the inside until they have a tenant.

QUESTIONS/COMMENTS FROM THE PUBLIC:

• Scott Winslow, Herrick Road, asked if anyone had done a study on Cube Smart in North Windham and another in Chaplin to see what the percentage is of them being filled up, to determine the demand.

G. Maiato and A. Fitzgerald stated that they had experienced that there is a need for storage in the area.

M. Sigfridson explained that the goal, as a Commission, is not to do feasibility studies for the developers.

ADDITIONAL COMMENTS FROM THE COMMISSION:

- **M. Sigfridson** commented that self-storage facilities are not her favorite use, however, this would be meeting a need in this area and would have an immediate positive affect on the Grand List with very little need for services from the Town. She appreciates that it is proposed in such a way to limit storage units as far as the eye can see.
- C. Kelleher stated agreement with Ms. Sigfridson and asked Ms. Roberson about distances possibly being changed by the ZBA.
 Ms. Roberson explained that language could be added specifying that the distances cannot be changed by the ZBA.
 Ms. Kelleher stated that she would like the language to be added.
 M. Sigfridson agreed and mentioned concern for an applicant asking for a variance regarding the rear lot requirement.
 Ms. Roberson stated that that would be a huge change from the anticipated

Ms. Roberson stated that that would be a huge change from the anticipated impact as it would open up the frontages.

• J. Haefele commented that, although his preference would be residential which had been denied in the past, this is a viable option that would not be a tremendous eyesore as it is internal storage and, in this case, combined with some retail space. He stated that he has concern that the retail space will end up sitting empty like much of the other retail space in Town, but Mr. Townsend has tenants lined up that may be interested. He stated agreement with the restriction regarding the ZBA.

There was discussion regarding language to be added: Amendment to the proposal (#4): "No variance shall be issued to reduce or modify the entirety of the dimensional requirements."

Mr. Parent and Mr. Townsend both stated that they have no objections to this language.

• A. Fitzgerald stated that he is in favor of the proposal as it would benefit the Town Grand List and would not disturb property values, as it had already been approved for commercial buildings. He stated that research a number of towns and no other town restricts self-storage facilities in the commercial zone.

Motion was made by C. Kelleher to close the public hearing for **ZRC 22-008**: Revisions to the Planned Commercial Zone to allow self-storage facilities as a Special Permit Use with specific standards, including Sec. 4.D.2.3.19 Permitted Uses in the PC Zone, and Section 6.T Standards for Self-Storage Facilities, Applicant: Townsend Development.

Second by G. Maiato. No discussion.

Motion carried unanimously by voice vote (7-0-0).

c. New Public Hearings: None.

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d. Other Unfinished Business:

1. **ZRC 22-008:** Revisions to the Planned Commercial Zone to allow self-storage facilities as a Special Permit Use with specific standards, including Sec. 4.D.2.3.19 Permitted Uses in the PC Zone, and Section 6.T Standards for Self-Storage Facilities, Applicant: Townsend Development.

There was discussion regarding whether the Town Attorney should review the additional language. Ms. Roberson explained that the Town Attorney had been consulted and had suggested a different scenario. Ms. Sigfridson commented that she feels comfortable moving ahead.

There was discussion regarding the amendment to the proposal (#4): "No variance shall be issued to reduce or modify the entirety of the dimensional requirements of this Section."

Motion was made by L. Herring to approve the amended proposal to allow self-storage facilities as a Special Permit Use with specific standards, including Sec. 4.D.2.3.19 Permitted Uses in the PC Zone, and Section 6.T Standards for Self-Storage Facilities with the finding that the changes will aid in the protection of public health, safety, welfare, and property values and are consistent with the Plan of Conservation and Development and the intent of the Zoning Regulations.

The regulations shall become effective 15 days from the date of publication.

Second by G. Maiato.

Discussion: M. Sigfridson stated that the Commission had discussed their feelings during the public hearing. Motion carried unanimously by voice vote (7-0-0).

Amendment to the proposal (#4): "No variance shall be issued to reduce or modify the entirety of the dimensional requirements of this Section."

2. **ZRC 22-007:** Revisions to the Residential-Agricultural Zone to allow Glamping as a Special Permit Use with specific standards, including Section 2.B Definitions, Section 3.C.2.4. Permitted Uses in the RA Zone, and Section 6.T Standards for Glamping.

Ms. Sigfridson noted that the Applicant's Representative, Attorney Cerrone, was present.

Ms. Roberson explained that, using the last submission from the Applicant (dated 11/29/2022), she had provided the draft language (dated 1/12/2023), which includes her track changes as per discussion from the last meeting, for review by the Commission. The draft language was displayed. She stated that grammatical corrections had been made.

• Regarding Section 6.T.2.15, Ms. Roberson stated that the last six words, "including both lodging and event guests" should have been removed from the draft as the Commission had discussed, at the December 20th meeting, changing it to just lodging occupancy as there could be events that are not related to the glamping.

Section 6.T.2.15 to read as follows: "Maximum lodging occupancy for the Glamp-ground shall be a total of 110 persons."

• Ms. Roberson reviewed Section 6.T.2.5 and there was discussion. The Commission had previously discussed setting a maximum number of Glamping Units at 50. Ms. Roberson referred to, and read aloud, C. Kelleher's email dated 1/16/2023 (provided to Commission Members at this meeting as it was received after packets had been sent on 1/13/2023), in which she states that she feels there is a conflict with the maximum of 50 Glamping units and the density language, therefore, she suggests using the language from the original draft, as follows:

"The maximum density of Glamp-grounds shall be one Glamping Unit per every two suitable acres. A suitable acre is defined by the Connecticut Department of Brooklyn Planning and Zoning Commission Regular Meeting Minutes - Hybrid 4 Tuesday, January 17, 2023 Public Health regulations for Family Campgrounds as dry land available for unit site development – dry land meaning land not designated as wetlands or watercourse. The density of one Glamping Site per acre shall not prevent Glamping Site or Glamping Units from being clustered together." Ms. Kelleher noted that this approach would increase the maximum units to 62(.5). Discussion continued.

The following language was decided upon for Section 6.T.2.5: "The maximum number of Glamping Units shall be one per every two suitable acres, not to exceed fifty (50) Glamping Units. A suitable acre is defined by the Connecticut Department of Public Health regulations for Family Campgrounds as dry land available for unit site development – dry land meaning land not designated as wetlands or watercourse."

- Ms. Roberson reviewed Section 6.T.2.9 to read as follows: "All Glamping Units shall be installed on raised permanent platforms no less than 6 inches off the ground."
- Ms. Roberson reviewed the definition for Glamping Unit, to read as follows: "A lodging structure to be occupied for transient and recreational lodging. Such structures may include, but are not limited to, safari tents, yurts and teepees. Such Glamping Units may not exceed 600 square feet and must be part of the Glamp-ground operation and located on approved Glamping Sites. Glamping Units, like hotels, are not included in the definition of a dwelling, as defined in these Regulations."
- There was more discussion regarding Section 6.T.2.15 and whether to increase the maximum occupancy from 110 as discussed at a previous meeting to 125 or 150 as suggested by Ms. Kelleher in her email (dated 1/16/2023).
 A. Tanner stated agreement with Ms. Kelleher.

S. Pember disagreed as he feels that it would be easier to increase, if needed in the future, rather than to decrease.

L. Herring stated that she understands both sides, but stated agreement with Mr. Pember. She is comfortable with 110.

M. Sigfridson considered whether maybe it should be tied to the number of Units. Discussion continued.

C. Kelleher feels that raising it by 15 people won't make a huge difference in impact to the neighborhood, but could make a difference in feasibility.

S. Pember stated that you have to draw the line somewhere and that he prefers that the number be 100.

Ms. Roberson stated that it started at 250 and suggested 150 (3 per unit). Ms. Sigfridson and Ms. Herring both stated that they do not feel it should be less than 110.

Ms. Kelleher stated that if it is approved, it should be something that is workable or not approve it at all. If approved, she would like it to be successful. Ms. Sigfridson feels that it makes sense to tie the maximum the number guests to the number of units (maxim number of guests per unit). She suggested 2.5 guests per unit, total of 125 guests. She said that a smaller Glamp-ground would have fewer guests than a bigger Glamp-ground. She said that she is excited about this proposal as she feels it will be good for the Town. She stated that she agrees with Ms. Kelleher and that, if approved, it should give the Applicant a realistic shot at doing it in a way that won't ruin the lives of the neighbors. She said that she would be in favor to make whatever changes are necessary to see what this would look like in Town and, if it's with a cap of 110, so be it.

Ms. Roberson explained that if the Commission takes action to approve this Application, the Section number would be 6.U rather than 6.T because the previous Application (ZRC 22-008) was approved as Section 6.T.

J. Haefele stated that it needs to be put on the Record how this Application fits in with the POCD. He said it is not a clear fit. He said we're getting there, but Glamping is not in the POCD.

C. Kelleher stated that the POCD calls for supporting agriculture tourism. M. Sigfridson stated that it has been discussed a lot that this Application doesn't directly conserve farmland and she said that she wouldn't try to argue that it does, but it certainly is supportive of tourism which she thinks that most people in Town are in favor of that type of business development because tourism brings money into Town, hopefully, without a huge requirement for Town services. Schools are not impacted which is a big part of the budget, although, there may be a consideration for emergency services. L. Herring explained that she feels that it does sort of preserve open land with the way we set it up by changing the direction a little bit by not allowing things that can't be taken apart very easily (hard structures).

M. Sigfridson stated, although somewhat conjecture, people running a Glamp-ground would want to preserve scenic resources so that it will attract people to come there. J. Haefele stated that a positive is that there is somebody who is interested in a site of almost 600 acres in the Town of Brooklyn whose first thought isn't development. He said that, eventually, it will get developed. This proposed development has some tie-in to agriculture, to reasonable things that are nice to keep alive in Town. He feels there is hope this way.

There were no further comments.

Motion was made by C. Kelleher to amend the proposal for **ZRC 22-007**: Revisions to the Residential-Agricultural Zone to allow Glamping as a Special Permit Use with specific standards, including Section 2.B Definitions, Section 3.C.2.4. Permitted Uses in the RA Zone, and Section 6.U Standards for Glamping. Amend Section:

• 6.U.2.15 to read as follows: Maximum lodging occupancy for the Glamp-ground shall be a total of 125 persons."

Second by J. Haefele.

Discussion: G. Maiato asked for clarification. Increase from 110 persons to 125 persons. Motion failed by voice vote (2-4-1). L. Herring, J. Haefele, G. Maiato and S. Pember were opposed. A. Fitzgerald abstained.

Motion was made by C. Kelleher to approve the proposal to allow Glamping as a Special Permit Use in the RA Zone with specific standards, including revisions to Section 2.B-Definitions and Section 3.C.2.4.-Permitted Uses in the RA Zone and the addition of Section 6.U-Standards for Glamping to the Zoning Regulations with the finding that the changes will aid in the protection of public health, safety, welfare, and property values and are consistent with the Plan of Conservation and Development and the intent of the Zoning Regulations. The regulations shall become effective 15 days from the date of publication. Second by L. Herring.

Discussion: M. Sigfridson clarified that the Motion was to approve a change that would allow Glamping as a special permit use.

A voice vote was taken, but it was unclear how Commission Members voted.

A. Fitzgerald requested a Roll Call Vote.

Roll Call Vote: L. Herring – yes; J. Haefele – yes; G. Maiato – no; M. Sigfridson – yes; C. Kelleher – yes; A. Fitzgerald – no; S. Pember – yes.

Motion carried (5-2-0).

There was discussion regarding those who voted opposed stating their reasons.

A. Fitzgerald was opposed for the following reasons: He doesn't feel that it would benefit the Town/Tax Roll; and he doesn't feel it would do anything for property values.

G. Maiato was opposed for the following reasons: He feels it would ruin the Quiet Corner; concerns for safety, traffic on the road, fire and EMS; if he lived on that road, he wouldn't want it.

3. **SP 22-007:** Special Permit for an Events Facility at 459 Wolf Den Road, Applicants: Nicole and Greg Fisher. ***Public Hearing 2/21/2023***

Ms. Roberson explained that the location will need to be changed to the Middle School. There was discussion and Ms. Sigfridson agreed that the Brooklyn Middle School Auditorium would be the best place.

 SP 22-008: Special Permit Application for Multi-Family Development (50 Condominium units) on south side of Louise Berry Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone, Applicant: Shane Pollack and Erin Mancuso. *Public Hearing 2/1/2023*

This public hearing will take place at the Brooklyn Middle School Auditorium.

Ms. Roberson provided copies of the Scope of Services for the Traffic Engineer (dated 1-9-2021) and she also provided copies of a proposal from the same Traffic Engineer (KWH Enterprise, LLC dated 1-15-2023) that the Commission had used before, who suggested charging hourly (amount not to exceed \$6,000). Ms. Roberson stated that she shared this with the Applicant. Nicholas Mancuso (the Applicant's Attorney) strongly objected as he feels that the Applicant should not have to pay twice for the same work and does not think that it is appropriate for the Commission to take action on this. For the record, Ms. Roberson read aloud from Attorney Mancuso's e-mail.

Ms. Roberson spoke about how the Traffic Report received is not the same Traffic Report. School was not in session when the Study was first done due to COVID-19. She said that she specifically requested that they collect traffic count data from while school is in session. She explained that the Commission is within its authority to request a third-party consultant to review that Report and she does not feel that the purpose of the third-party consultant is changed by this being a revision of a previously withdrawn application. The work involved is less. She referred to the Ordinance which specifies a 25-percent contingency.

There was discussion:

- Mr. Haefele would like to instruct the Traffic Engineer to give us a percentage increase.
- Mr. Pember suggested that someone who has done the Study before would go back with that same Study in mind that they already did. So, he feels that a fresh set of eyes would be better to do a completely new Study with school in session. The cost is not our major concern.
- Ms. Sigfridson reminded the Commission that the third-party Consultant would be reviewing the data provided by the Applicant.
- Mr. Pember stated that he would like the Applicant to do a completely new Traffic Study with a new Engineer. Mr. Fitzgerald stated agreement with Mr. Pember. The two stated that they could not approve the Application based on the previous Traffic Study. Mr. Fitzgerald suggested that the Town Attorney be consulted.
- Ms. Roberson stated that she had strongly suggested that they collect contemporary data and she read from the most recent Traffic Report submitted in December 2022, which states that data was collected from school afternoon peak hours on September 21, 2021. This, she said, indicates to her that they did not collect more contemporary data. The third-party Consultant would give their expert opinion to determine this. They may determine that the Applicant needs to collect more data. Discussion continued.
- Mr. Pember stated that he is not biased one way or the other, but he knows, personally with kids in that school, that the data collected in September of 2021 is not going to be correct. He said that there is now double or more traffic than there was then. He offered to abstain, if necessary. Ms. Roberson stated that she does not think that it is grounds for abstention.
- Ms. Sigfridson stated that the Commission needs to determine if we are okay with the Scope of Work.

Mr. Tanner suggested that the Scope of Work be more specific. There was discussion regarding language to request specific data. Mr. Fitzgerald suggested that a site visit be requested during the times that people would be going to the School. He said that the traffic is the biggest problem with the Townspeople.

Ms. Roberson stated that she will revise the Scope of Work to include concerns about changes to the traffic pattern since September 2021, and to request a site visit during both drop off and pick up. Ms. Roberson referred to, and read from, the Ordinance and asked that a motion be made to accept the Scope of Services.

Motion was made by J. Haefele to amend the Scope of Services – Traffic Engineer regarding SP 22-008 to add #5 to request a site visit during drop off and pick up to address concerns about changes to the traffic pattern since September 2021.

Second by S. Pember. No discussion.

Motion carried unanimously by voice vote (7-0-0).

Motion was made by A. Fitzgerald to reschedule the public hearing for SP 22-008: Special Permit Application for Multi-Family Development (50 Condominium units) on south side of Louise Berry Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone, Applicant: Shane Pollack and Erin Mancuso for the regular meeting of the Planning and Zoning Commission to be held on **February 1, 2023** at 6:30 p.m. at the Brooklyn Middle School Auditorium, 119 Gorman Road, Brooklyn, CT and via Zoom.

Second by C. Kelleher. No discussion.

Motion carried unanimously by voice vote (7-0-0).

5. **SD 22-004:** One lot Resubdivision including 2 acres on Allen Hill Road/Wauregan Road (Map 31, Lot 97C), Applicant: Wayne Jolley/Lori Pike. ***Public Hearing 2/21/2023***

Ms. Roberson explained that the public hearing for this Application would also be at the Brooklyn Middle School.

Mr. Fitzgerald asked if this item could be placed early on the agenda as it is pretty cutand-dry. Ms. Roberson stated that she will do that.

Motion was made by J. Haefele to reschedule the public hearing for SD 22-004: One lot Resubdivision including 2 acres on Allen Hill Road/Wauregan Road (Map 31, Lot 97C), Applicant: Wayne Jolley/Lori Pike for the regular meeting of the Planning and Zoning Commission to be held on **February 21, 2023** at 6:30 p.m. at the Brooklyn Middle School Auditorium, 119 Gorman Road, Brooklyn, CT and viaZoom. Second by A. Fitzgerald. No discussion.

Motion carried unanimously by voice vote (7-0-0).

6. **ZRC 22-009:** Multiple revisions to Section 4.F Mill Mixed Use Development Zone, Applicant: DMP Palmer Associates. ***Public Hearing to be Rescheduled***

Motion was made by A. Fitzgerald to reschedule the public hearing for ZRC 22-009: Multiple revisions to Section 4.F Mill Mixed Use Development Zone, Applicant: DMP Palmer Associates for the regular meeting of the Planning and Zoning Commission to be held on **March 21, 2023** at 6:30 p.m. at the Clifford B.Green Memorial Building, 69 South Main Street, Brooklyn, CT and via Zoom. Second by S. Pember. No discussion.

Motion carried unanimously by voice vote (7-0-0).

VII. New Business:

- a. Applications: None.
- b. Other New Business: None.

VIII. Reports of Officers and Committees

There was discussion regarding two training opportunities for Commission Members as PZC and ZBA Members (now required to do four hours of training per year):

• CLEAR Training (included in packets to Commission Members) that is available virtually;

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• Connecticut Land Use Law for Municipal Land Use Agencies, Boards, and Commissions (included in packets to Commission Members).

Ms. Roberson will forward links to Commission Members.

Ms. Roberson explained that some members of the public were not happy with how their comments were described in the minutes and that she had asked that, if they would like the Commission to modify the minutes, they provide the actual words they would like inserted.

- Maria Gandy-Winslow and Scott Winslow submitted a letter dated January 5, 2022 (included in packets to Commission Members).
- Ms. Roberson provided copies of the original text of the Minutes of the December 7, 2022 meeting and a copy with Track Changes inserted. Ms. Roberson asked that Commission Members read it as it was not included the in packets. Ms. Roberson explained that her understanding is that previous minutes may be amended, it is not a requirement. Any changes to previous minutes actually would be reflected in the minutes of this meeting, we do not go back and change the old minutes. She said that we had never gotten a request like this before.

There was discussion. Scott Winslow stated that Ms. Gandy-Winslow had read from her letter and only excerpts were included in the minutes. He said that he listened to the audio of the public hearing and everything that she read was on the Record. Mr. Winslow feels that although the recording of each meeting is available to the public, they will not listen to them, but that they would read the minutes. Ms. Gandy-Winslow's comments, in their entirety, as she read them aloud from her letter, which she also submitted to Staff at the public hearing on December 7, 2022, are part of the Record of that meeting. Ms. Roberson confirmed that those comments are part of the Record of the December 7th meeting. Additionally, Ms. Roberson confirmed that all written comments submitted to her were posted on the website and can be viewed under the December 20, 2022 Agenda, Appendix D (206 pages). Ms. Roberson explained that the entire Record of the Application is not posted on the website, but it is accessible to anyone who requests it. The letter from Mr. Winslow and Ms. Gandy-Winslow (dated January 5, 2023) will not be added to the Record.

Ms. Sigfridson stated that the Minutes of the January 17, 2023 Meeting will reflect that a letter was received from Maria Gandy-Winslow and Scott Winslow requesting that Maria's comments be clarified.

IX. Public Commentary

• **Debbie Cornman** asked for clarification regarding the Glamping Application that was approved at this meeting: She asked if it is correct that the Commission went from a maximum of 225 lodgers plus guests together to 110 lodgers and no limit on the non-lodgers. Ms. Sigfridson stated that it is correct.

Ms. Kelleher stated that the Special Event Permit will deal with maximums Ms. Cornman stated that she is disappointed that a limit was not placed on the number of people that can be on the property. She asked if people will be able to come and visit with an unlimited number. She asked if lodgers would need to have an Even Permit to have a party. Mr. Pember stated that if it is more than 50 people beyond lodgers, they would have to get a Special Event Permit.

Ms. Cornman asked if Mr. Haefele's suggestion for it to be reviewed every 24 months had been included.

Ms. Sigfridson stated that it was not included.

Ms. Cornman stated that, for transparency, it would be nice if people's letters were easier to access.

There was discussion among the Commission Members regarding the 24-month review. It can be added under the Special Permit. Mr. Fitzgerald suggested that it could be every 12 months. Ms. Kelleher commented about enforcement procedures.

 Jim Doherty suggested looking into transcription software. He asked if the Enforcement Official works on weekends.
 Ma Sigfideen stated that we have the audie recording and anyone, who wants to can list?

Ms. Sigfridson stated that we have the audio recording and anyone, who wants to, can listen to it. The minutes are not supposed to be a transcript, but rather something that can be quickly

referred to. Ms. Sigfridson and Ms. Roberson stated that they are not aware of requirements of content for minutes in the Statutes. Mr. Fitzgerald read from "Robert's Rules of Order" that the duty of the recording clerk is to record what is done by the Assembly, not what is said by the Members.

Regarding the Enforcement Officer, Ms. Roberson explained that Ms. Washburn's hours could be flexible to address certain situations as they arise. Ms. Washburn is aware that things do happen outside of normal business hours.

Mr. Doherty asked who to call on weekends should an issue arise.

Mr. Tanner stated, "The buck stops here."

Ms. Sigfridson stated that the first call would be to the Zone Enforcement Officer, but if she is not at her desk, Ms. Sigfridson suggested leaving a message or sending an e-mail. The Selectman's contact information is available on the Town website as well. Law enforcement is an option if there are issues of safety or danger. The Resident Trooper is not on duty on the weekends. People can also take photos or recordings as Ms. Washburn does not have to personally witness a violation in order to do something about it.

Mr. Doherty stated that he is disappointed in the decision (he did not identify which) as he does not think it was in the best interest of the Town, specifically the neighbors. Mr. Doherty commented regarding the other proposal by the School and a traffic study

conducted on Bush Hill and Wolf Den.

Ms. Sigfridson and Ms. Roberson explained that a traffic study on Bush Hill Road had not been considered for the Zoning Regulation change. It was a different application.

Mr. Doherty stated that he hopes that it will be scrutinized on the special permit application because it is a significant piece of the equation.

Mr. Doherty stated that a question had been asked to consider the totality of the special permit for the wedding venue on Wolf Den Road. He feels that the Commission needs to look at the totality of everything.

- Maria Gandy-Winslow commented that Dr. Poland was always being introduced as the expert and she had verbally acknowledged what he had said. She said that she would like to have equal detail to what he received in his presentation, as an expert. She said that a financial liability report was never submitted and there are no reasons why this should be accepted.
- Scott Winslow stated that as far as the minutes are concerned, exceptions should be taken because he felt that the Attorney comments were more detailed. He said it was not factual. Mr. Tanner explained that there have been a lot of requests for the audio and they are looking into making the links available to click on for easy access.
- Mr. Fitzgerald asked about getting notifications regarding ZBA so that the PZC can address them.

Anyone can sign up to have updates e-mailed to them.

Ms. Roberson explained that all actions of the ZBA are on the ZEO Report which Members of the PZC receives.

There was discussion. Ms. Roberson stated that the main thing is concerning setbacks. She had provided copies of draft changes, to make it clearer, at the December 20th meeting. She will fill out the form to make it a Zoning Regulation Change and will bring it to the February 1st meeting. It will be assigned ZRC 23-001.

There was discussion regarding a special permit for a storage facility that has not been received yet. Ms. Roberson will look into it.

X. Adjourn

Motion was made by A. Fitzgerald to adjourn at 9:50 p.m. Second by G. Maiato. No discussion. Motion carried unanimously by voice vote (7-0-0).

Respectfully submitted,

J.S. Perreault Recording Secretary

TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION NOTICE OF PUBLIC HEARING

The Planning and Zoning Commission will hold a public hearing on February 1, 2023, at 6:30 p.m. via Zoom and in-person at the Brooklyn Middle School Auditorium, 119 Gorman Road Brooklyn, CT on the following:

SP 22-008: Special Permit Application for Multi-Family Development (50 Condominium units) on south side of Louise Berry Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone, Applicant: Shane Pollack and Erin Mancuso.

Please publish January 18th and 25th

DECUG 2022 DECUG 2022 Received Date By PLANNING AND ZONING COMMISSION TOWN OF BROOKLYN CONECTICUT Application #SP 22-008 Check #
APPLICATION FOR SPECIAL PERMIT
Name of Applicant Shune, Pollack & Eraw MANEUSU Phone Star 488-3129 Mailing Address 101 Muchon Drive, Crissula, CT (235) Phone
Name of Engineer/Surveyor Killingly Engineering Artistical (1997) Address IN wescold 2000 PO Box 431 Killingly CT (2034) Contact Person Altimum Theseult Phone 100 - 74-7349Fax
Name of Attomey NICHELAS MANCESO
PhoneFax
Property location/oddress Louise Procession (2.5) Map#_19_Lot#_19_Zone R - 30 Total Acression, 447 RL Sewage Disposal: PrivatePublicExistingProposed Water: PrivatePublicExistingProposed
Proposed Activity Multi Franking Development (50 single same continuon
Compliance with Article 4, Site Plan Requirements
is parcel located within 500 feet of an adjoining Town?
The following shall accompany the application when required:
Fee \$State Fee (\$60.00) 3 copies of plansSanitary Report 4.5.5 Application/ Report of Decision from the Inland Wetlands Commission Sanitary Report 4.5.5 Applications filed with other Agencies 12.1 Erosion and Sediment Control Plans
The owner and applicant hereby grant the Brooklyn Planning and Zoning Commission, the Board of Selectman, Authorized Agents of the Planning and Zoning Commission or Board of Selectman, permission to enter the property to which the application is requested for the purpose of inspection and enforcement of the Zoning regulations and the Subdivision regulations of the Town at Brooklyn Planning and Zoning Commission or Board of Selectman, permission to enter the property to which the application is requested for the purpose of inspection and enforcement of the Zoning regulations and the Subdivision regulations of the Town at Brooklyn Planning and Zoning Commission of the Zoning regulations and the Subdivision regulations of the Town at Brooklyn Applicant. Applicant Science Sci
*Note: All consulting fees shall be paid by the applicant

PLANNING AND ZON TOWN OF BI CONECT Received Date Action Date	ROOKLYN
APPLICATION FOR S	ITE PLAN REVIEW
Name of Applicant <u>Share Polks X & Frend</u> Molling Address <u>XA Made a Drave Critic</u> iano, C	
Name of Owner, <u>24977</u> Molling Address	PhonePhone
Nome of Engineer/Surveyor <u>Valuation</u> Address <u>Vi</u> Society Contact Person Algorith, Think at 2000 P	hone <u>84:221-2-479</u> Fax
Property localian/address - <u>Linutesty Destricty (Xielde</u> Map # <u>13</u> total <u>14</u> 2016 <u>R. 20 -</u> Total Ad	res (1),44(1) pc.
Proposed Activity Chink Control Description	nt (Su male Comin
Change of Use: YesNg If Yes, Previous Use, . Area of Proposad Structure(s) or Expansion	
Wilfties - Sepfic: On Site Municipal Woter: Private Public	CxistingProposed RxistingProposed
Compliance with Article 4, Site Plan Regulaements] .
The following shall accompany the application when r	equired;
Fee\$State Fee (\$60.00)3 copies 4.5.5 Application/ Report of Decision from the Inland M 4.5.5 Applications filed with other Agencies 12.1 Erosion and Sediment Control Plans See also Site Plan Review Worksheet	of plansSanitory Report Vetlands Commission
Variances obtained <u>N/A</u>	Dote
The owner and opplicant hereby grant the Brooklyn Pi Selectmon, Authorized Agents of the Planning and Zor	anning and Zoning Commission) the Board of -

to enter the property to which the apprication is requested for the purpose of inspection and entarcement of the Zapica cegatificans and the Subdivision regulations of the Town of Bracklyn polleck Aver 199 ate 2 Ζς, иA Applicent _ / ሊե 27, ĥ ٧V VAN CLADCIC. Ownler: Ø. غ۵G ά. Note: Any consulting fees will be paid by the applicant

LIST OF AJACENT LAND OWNERS - INCLUDING ACROSS THE STREET #5 OF 10/21/2022 NECCOG

Shane J. Pollock & Erin F. Mancuso Louise Berry Drive Brooklyn, CT

MAP/LOT	NAME
33/21	Tuwn of Brooklyn PO Box 355 Brook iyn, CT 96234
74/148	Connecticut Baptist Homes Inc 292 Thorpe Ave Mender, CT 06450
24/158	Brooklyn Property Manugement LLC 211 Wauregan Rozd Brooklyn, CT 06234
33/10A	Saliy A. Wood 68 Franklin Drive Brooklyn, CT 96234
33/13	Cinity Scalzi & Greg Benoit 36 Franklin Drive Brooklyn, CT 06234
33/14	Mark S Benard 273 Main Street Hampton, CT 06247
33/15	Londa Atsales 24 Franklin Drivo Brooklyn, CT 06234
33/16	Stophanie A. Hynes & Brennan D. Hynes 20 Franklim Drive Broaklyn, CT 06234
33/17	Richard E Bein 12 Franklin Drive Brooklya, CT 06234
55/20.3	William J Purcell Jr 179 German Road Brooklyn, CT 06234
33/20	David R Dumont 173 Gorman Road Brooklyn, CT 06234
33/20.1	Curt R Hostman PO Bex 351 Broaklyn, CT 06234



JOSEPH R. THEROUX

~ CERTIFIED FORESTER / SOIL SCIENTIST ~ PHONE 860-428-7992~ FAX 860-376-6842 P.O. BOX 32, VOLUNTOWN, CT. 06384 FORESTRY SERVICES ~ ENVIRONMENTAL IMPACT ASSESSMENTS WETLAND DELINEATIONS AND PERMITTING ~ E&S/SITE MONITORING WETLAND FUNCTION AND VALUE ASSESSMENTS

5/10/2022

KILLINGLY ENGINEERING ASSOCIATES P.O. Box 421 Dayville, CT. 06241

RE: TREE PLANTING RECOMMENDATIONS, POLLOCK PROPERTY, LOUISE BERRY DRIVE, BROOKLYN, CT.

DEAR MR. THIBEAULT,

AT YOUR REQUEST I HAVE INSPECTED THE ABOVE REFERENCED PROPERTY AND THE SITE PLAN DEPICTING THE PROPOSED DEVELOPMENT FOR THE PURPOSES OF MAKING RECOMMENDATIONS ON TREE SPECIES SUITABLE FOR THE SITE.

IN THE SOUTHERN PORTION OF THE PROPERTY WHERE IT WAS HEAVILY LOGGED AND THE OVERSTORY WAS REMOVED, IN AND ADJACENT TO THE WETLANDS, I WOULD RECOMMEND PLANTING WHITE PINE SEEDLINGS, (PINUS STROBUS). THESE SEEDLINGS SHOULD BE 3-YEAR-OLD STOCK, APPROX. 15 TO 18 INCHES IN HEIGHT.

FOR THIS REMAINING AREA THAT WAS HEAVILY LOGGED AND IS NOT BEING DEVELOPED, (+/-1 ACRE), I WOULD RECOMMEND 250 TREES, AS THIS IS TYPICAL STOCKING PER ACRE FOR HEALTHY WHITE PINE STANDS.

REGARDING TREE SPECIES FOR SCREENING BETWEEN THE UNITS, I WOULD RECOMMEND GREEN GIANT ARBORVITAE, (THUJA PLICATA). THESE TREES ARE EVERGREEN, DEER RESISTANT, AND ARE ONE OF THE FASTEST GROWING PRIVACY TREES. THEY WILL GROW APPROX. 3 TO 5 FEET PER YEAR AND WILL REACH HEIGHTS OF 60 FEET. THEY THRIVE IN A WIDE RANGE OF SOILS AND LIKE FULL SUN.

THEY SHOULD BE PLANTED IN STAGGERED ROWS APPROX. 4 TO 6 FEET SPACING.

AS WITH ANY PLANTINGS, THE PINES AND ARBORVITAES SHOULD BE PLANTED IN SPRING OR FALL TO MINIMIZE MORTALITY AND SHOULD BE MONITORED FOR SURVIVAL THE FIRST YEAR.

IN CONCLUSION, IF YOU HAVE ANY QUESTIONS CONCERNING MY RECOMMENDATIONS, PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

Joseph R. Theroux

JOSEPH R. THEROUX CERTIFIED SOIL SCIENTIST MEMBER SSSSNE, NSCSS.

Killingly Engineering Associates

P.O. Box 421 Dayville, CT 06241 Phone: 860-779-7299 Fax: 860-774-3703

Proposed 50-Unit Condominium Development for Shane Pollock Louise Berry Drive Brooklyn, CT

Statement of Use

The referenced project will result in the construction of a 1,000' cul-de-sac road with access from Louise Berry Drive, installation of public water and sanitary sewer and the construction of 51 single-family condominiums that will be "for sale" units. The sanitary sewer design has been reviewed and approved by the Brooklyn WPCA and the waterline extension and installation is approved by CT Water. The plans have been submitted to the Brooklyn Fire Marshal for review and comment.

The total area of the property is 13.497 acres and approximately half of the property will require clearing to facilitate construction. The condominiums will be constructed in groups of 2-7 units and have been positioned a minimum of 40° apart in a manner that will alleviate the necessity for excessive cuts and fills for the project. The Brooklyn Inland Wetlands Commission approved the application at their April 2021 meeting; no clearing is proposed in the wetlands and there will be slightly over 2 acres of disturbance within the regulated upland review area.

During construction, the transport of sediment will be controlled by means of silt fencing backed with double staked haybales between the disturbed areas and the wetlands. A proposed stormwater swale that is proposed for the final stabilized site will be utilized as a temporary sedimentation swale during construction and drainage will be conveyed to a temporary sediment trap which will ultimately be the stormwater basin for the project. Fill slopes have been designed to a controllable 3H:1V grade and will be stabilized with a biodegradable erosion control fabric over seeding.

The stormwater system has been designed in accordance with the Town of Brooklyn requirements for stormwater quality and infiltration, defined per the 2004 State of CT stormwater Quality Guidelines. The design encourages overland flow where possible to preserve the integrity of the wetlands on the site. For paved areas, stormwater will be collected in a series of catch basins and pipe and conveyed to a proposed stormwater basin which has been designed to limit peak flows for up to a 100-year design storm. The basin will be constructed with an underdrain to ensure that it empties completely within 24 hours of any storm event to maintain full design capacity. In addition, by emptying completely after storm events, the design will alleviate any potential habitat for mosquitos and other vector insects.

The roadway and stormwater system will be privately owned and maintained by the homeowner's association and will not be the responsibility of the Town of Brooklyn. It is anticipated that construction of the roadway and installation of utilities will commence in 2022 and will take 3-4 months to complete. Construction of residences will commence upon the completion of the road up to the binder course and will occur in a phased manner, likely beginning with the units at the roadway terminus and working back toward Louise Berry Drive to limit activity in the vicinity of residences where families may be residing.



Proposed 50-Unit Condominium Development for Shane Pollock Louise Berry Drive Brooklyn, CT

Sanitary Report

As required by the Town of Brooklyn Zoning Regulations, this project will be served by public sanitary sewer. Each unit will be individually served and conveyed to a collection system prior to discharge to an existing Town owned sanitary manhole. The plans have been reviewed and approved by the Town of Brooklyn Water Pollution Control Authority, Alan Carpenter, P.E., the WPCA's reviewing Engineer, and Syl Pauley, P.E. from the Northeast Connecticut Council of Governments.

PROPOSED MULTI-FAMILY CONDOMINIUM DEVELOPMENT

ZO	$NE = R - 30^*$	
and another the	REQUIRED	PROVIDED
Lot Area	30,000 s.f.	13.497 Acres
Front Yard Setback	50'	53.4'
Side Yard Setback	30'	48'
Rear Yard Setback	50'	257'
Building Height	35' Max.	<35'
Lot Frontage	110'	243.74'
Building Separation	40' min	40'-115'
<u>DENSITY:</u> 1 unit per ev 13.497 ac = 50 units proj	587,929 s/f -	117 units max
PARKING: 2 spaces per	unit required -	100 required
	ce + 1 driveway nits = 96 space	
	ce + 2 driveway its = 6 spaces	spaces per
+ 36 additional	spaces - 140 s	paces total

Multi-family development in accordance with Section 6.E. ZONE = RA

GENERAL NOTES:

- 1. Ownership of the stormwater basin and drainage system shall be the Homeowner's Association. The Town of Brooklyn will not assume responsibility as such.
- 2. There shall be no parking along the main access roadway or side drives. Appropriate signage shall be installed accordingly.
- 3. The only work allowed prior to installing the perimeter sediment. controls shall be clearing vegetation. No grubbing shall be allowed until the perimeter sediment controls have been installed as per plan. Call (860) 779-3411. ext. 31, for an inspection of the perimeter sediment controls. The perimeter sediment controls must be approved in writing by the IWWC Agent or a Commission member prior to commencing any other work.
- 4. The temporary sediment basin and swale must be at least temporarily stabilized prior to discharging any stormwater into them. Call (860) 779-3411. ext. 31, for an inspection of the temporary sediment basin and swale. The temporary stabilization of the temporary sediment basin and swale must be approved in writing by the IWWC Agent or a Commission member prior to discharging any stormwater into them.
- 5. Detention basin side slopes and bottom shall be mowed annually by 6/30 and 10/1 for the life of the basin, in perpetuity.
- 6. The Homeowner's Association shall be responsible for maintenance of the stormwater basin and its outlets in perpetuity.
- 7. The construction of the temporary sediment basin and swale shall begin between April 14 and September 1 to allow for vegetation to become at east temporarily established in the basin prior to discharging stormwater into the temporary sediment basin and swale. The basin and swale should be substantially completed by September 1. Construction of the temporary sediment basin and swale shall not commence between September 2 and April 13 in accordance with the provisions od Section 11.1 of the Brooklyn IWWC Regulations.

DATE:

APPROVED BY THE BROOKLYN PLANNING AND ZONING COMMISSION

CHAIRMAN

EXPIRATION DATE:

FINAL APPROVAL DATE

Per Sec. 8.26c of the Connecticut General Statutes, as amended, approval automatically expires _____ if all public improvements required by this plan are not completed by that date.

ENDORSED BY THE BROOKLYN INLAND WETLANDS COMMISSION

CHAIRMAN

DATE

LEGEND

A

RON PIN TO BE SET IRON PIN FOUND ODH DRILL HOLE FOUND CB CATCH BASIN UTILITY POLE SANITARY SEWER MANHOLE O SMH HYDRANT EXISTING CONTOURS ------------ INLAND WETLANDS FLAG COCOCCCC STONE WALL 0 00 000 STONE WALL REMAINS SILT FENCE 175' WATERCOURSE SETBACK 125' UPLAND REVIEW

LOUISE BERRY DRIVE BROOKLYN, CONNECTICUT

PREPARED FOR: SHANE POLLOCK



PREPARED BY:



April 23, 2020

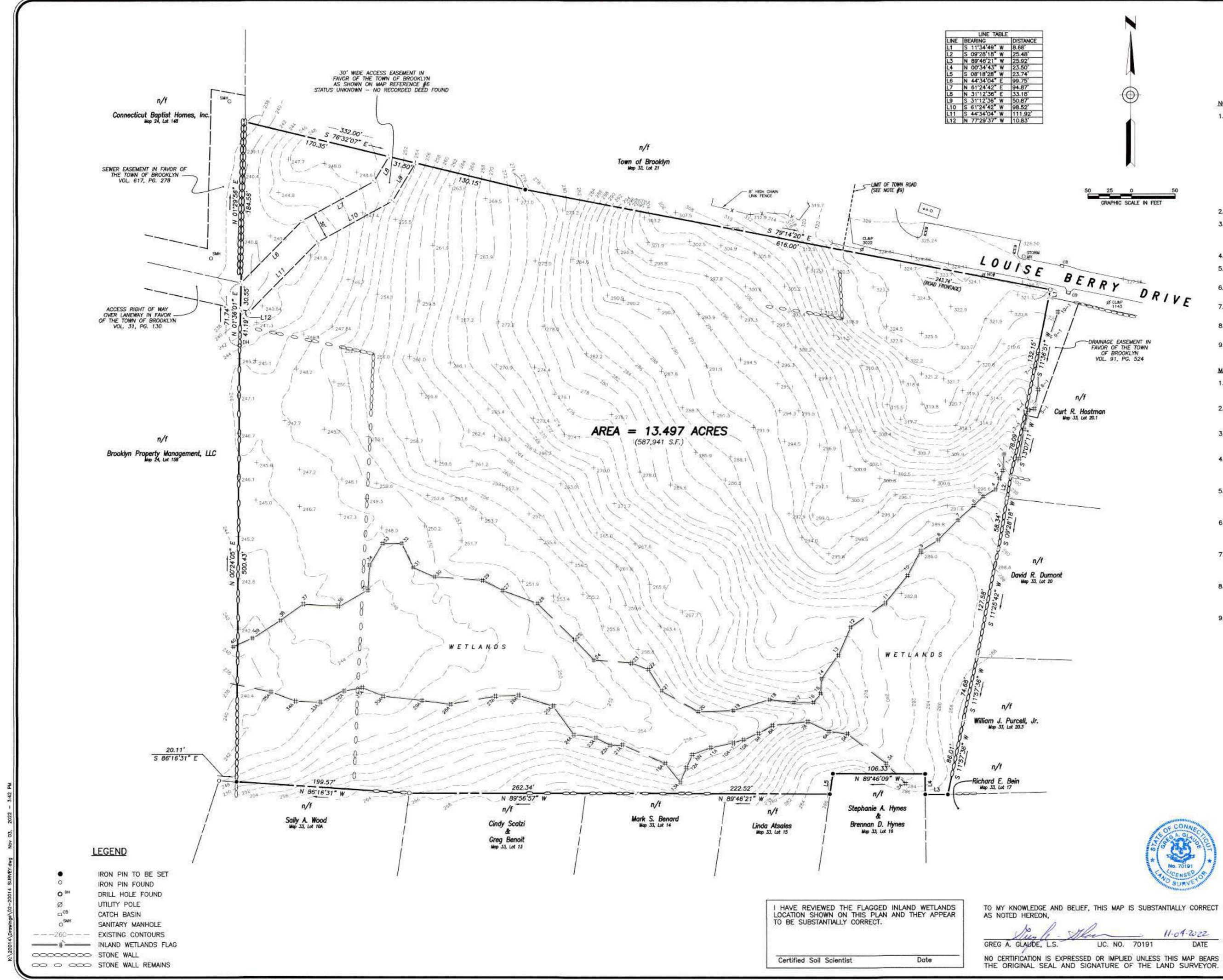
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TITLE

INDEX TO DRAWINGS

	SHEET No.
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RTY SURVEY	2 OF 16
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NG PLAN No. 2	9 OF 16
NG PLAN No. 3	10 OF 16
NG PLAN No. 4	11 OF 16
NG PLAN No. 5	12 OF 16
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MITY PLAN	1 OF 1





	LINE TABLE	3
LINE	BEARING	DISTA
L1	S 11'34'49" W	8.68
L2	S 09'28'18" W	25.48
L3	N 89'46'21" W	25.92
L4	N 00"34'43" W	23.50
L5	S 08'18'28" W	23.74
L6	N 44'34'04" E	99.75
L7	N 61'24'42" E	94.87
L8	N 31'12'36" E	33.18
L9	S 31'12'36" W	50.87
L10	S 61"24'42" W	98.52
L11	S 44'34'04" W	111.9
L12	N 77'29'37" W	10.83

NOTES:

 This survey has been prepared pursuant to the Regulations of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996;

- This survey conforms to a Class "A-2" horizontal accuracy.
- Topographic features conform to a Class "T-2", "V-2" vertical accuracy.
- Survey Type: Property Survey
- Boundary Determination Category: Resurvey.
- 2. Zone = R-30.

3. Owner of record: Shane J. Pollock & Erin F. Mancuso 101 Mackin Drive

Griswold, CT 06351 See Volume 659, Page 151

- 4. Parcel is shown as Lot 19 on Assessors Map 33.
- 5. North orientation is based on North American Datum of 1982 (NAD 82) and is taken from GPS observations.
- Elevations shown are based on an North American Vertical Datum of 1988 (NAVD 88). Contours taken from actual field survey. Contour interval = 2'.
- Parcel lies within Flood Hazard Zone 'C' (areas of minimal flooding) as shown on FIRM Map # 090164 Panel 0005A Effective Date: Jan. 3, 1985.
- Wetlands shown were delineated in the field by Joseph Theroux, Certified Soil Scientist, in 2019.
- 9. Town road limit was established by referencing the CDOT 2020 Town Roads Report, which designates the length of Louise Berry Drive to be .12 miles or 634' in length.

MAP REFERENCES:

- "Plan of site for new school in the Town of Brooklyn, Conn. Scale: 1" = 100" Date: June 9, 1952 Prepared by: William W. Pike, Surveyor." On file in the Brooklyn land records.
- "Layout of Franklin Drive in the Town of Brooklyn, Conn. Scale: 1" = 100' -Date: Oct. 15, 1959 Prepared by: William W. Pike, Surveyor." On File in the Brooklyn land records.
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- "Perimeter Survey prepared for Eggs Inc. Gorman Road / Franklin Drive / Wauregan Road Brooklyn, Connecticut Date: Oct. 2014 Scale: 1" = 125' Sheet 1 of 1 Prepared by Archer Surveying, LLC." On file in the Brooklyn land records.
- "Boundary Line Agreement prepared for Brooklyn Center Complex, BLB, LLC and Vina Land, LLC Wauregan Road & Vina Lane Brooklyn, Connecticut Date: December 11, 2019 Scale: 1" = 125' Sheet 1 of 1 Prepared by Archer Surveying, LLC." Not on file.

08/29/2022	INNE APPLICATION RESUBINISSION	
10/26/2021	PHASING / EAS	
10/15/2021	CONSULTANT REVIEW & COMMISSION	
09/15/2021	TOWN ROAD FRONTAGE	
04/20/2021	NWC APPROVAL CONDITIONS	
DATE	DESCRIPTION	
	REVISIONS	

PROPERTY SURVEY

PREPARED FOR

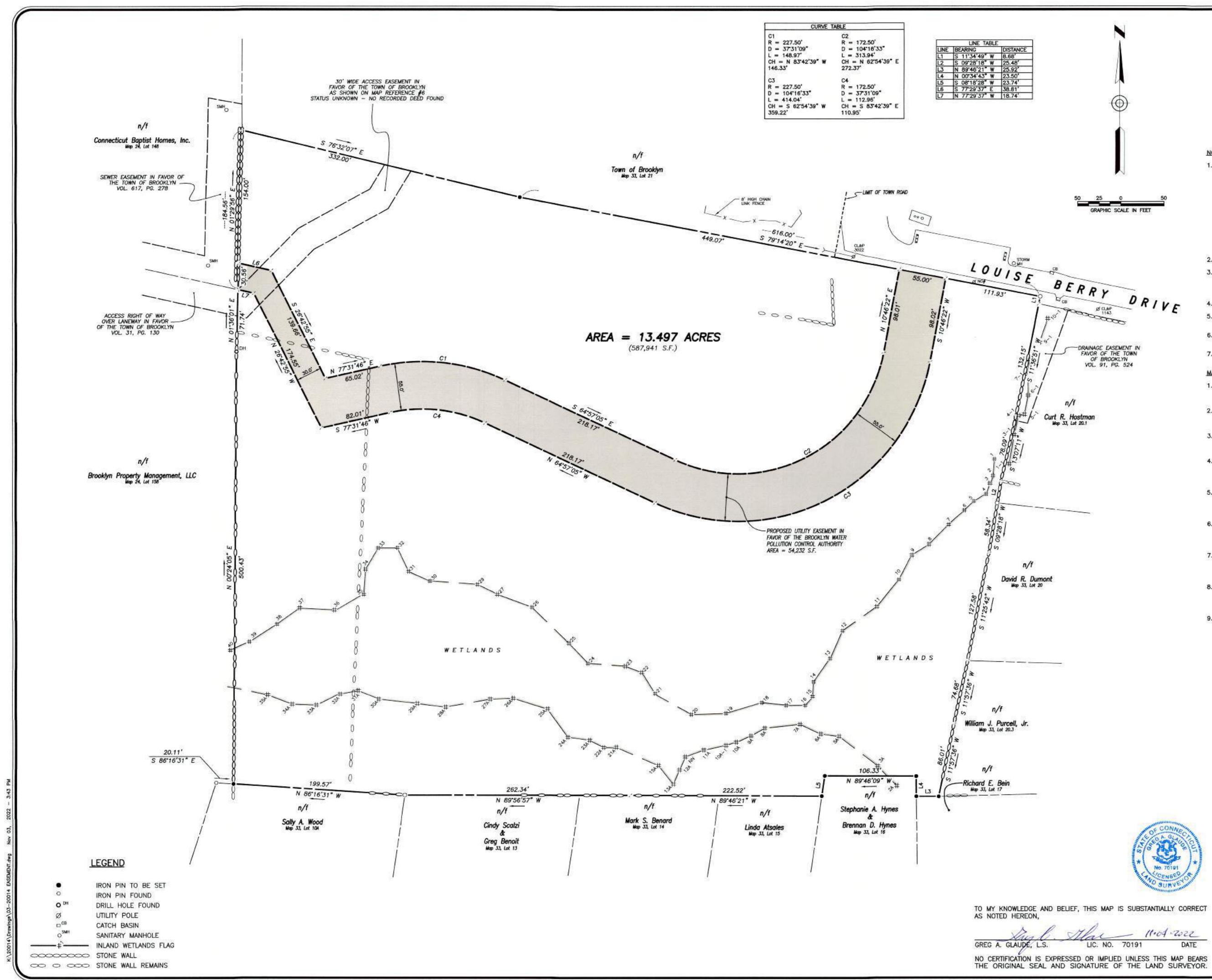
SHANE POLLOCK

LOUISE BERRY DRIVE BROOKLYN, CONNECTICUT

Killingly Engineering Associates Civil Engineering & Surveying

114 Westcott Road P.O. Box 421 Killingly, Connecticut 06241 (860) 779-7299 www.killinglyengineering.com

ATE: 4/23/2020	DRAWN: DNE	
SCALE: $1^* = 50^{\circ}$	DESIGN: NET	
HEET: 2 OF 16	CHK BY: GG	
WG. No: CLIENT FILE	JOB No: 20014	



11.04-2022 DATE

NOTES:

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- Topographic features conform to a Class "T-2", "V-2" vertical
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- 2. Zone = R-30.
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04/20/2021	INVIC APPROVAL CONDITIONS	
DATE	DESCRIPTION	
	REVISIONS	

EASEMENT MAP

PREPARED FOR

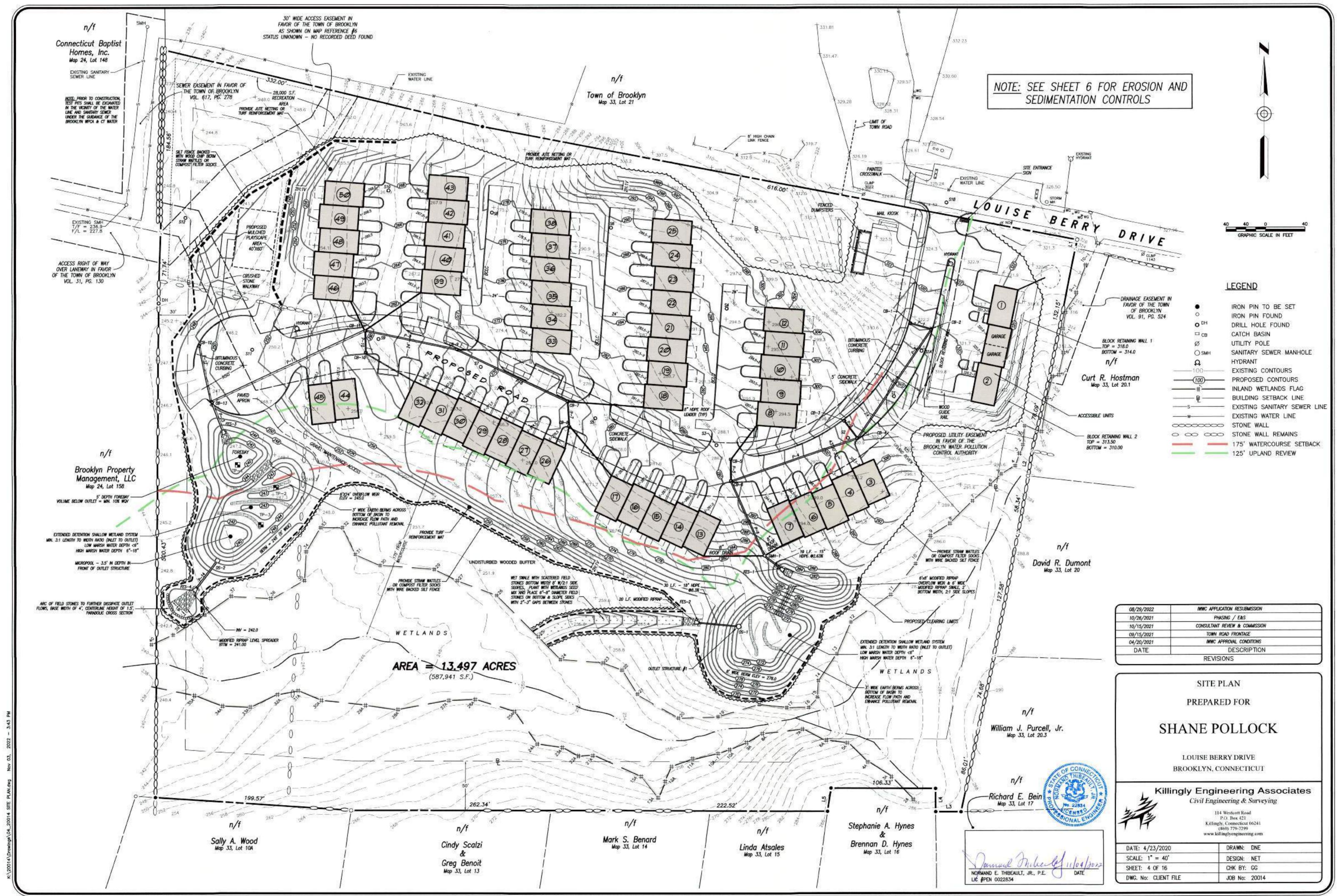
SHANE POLLOCK

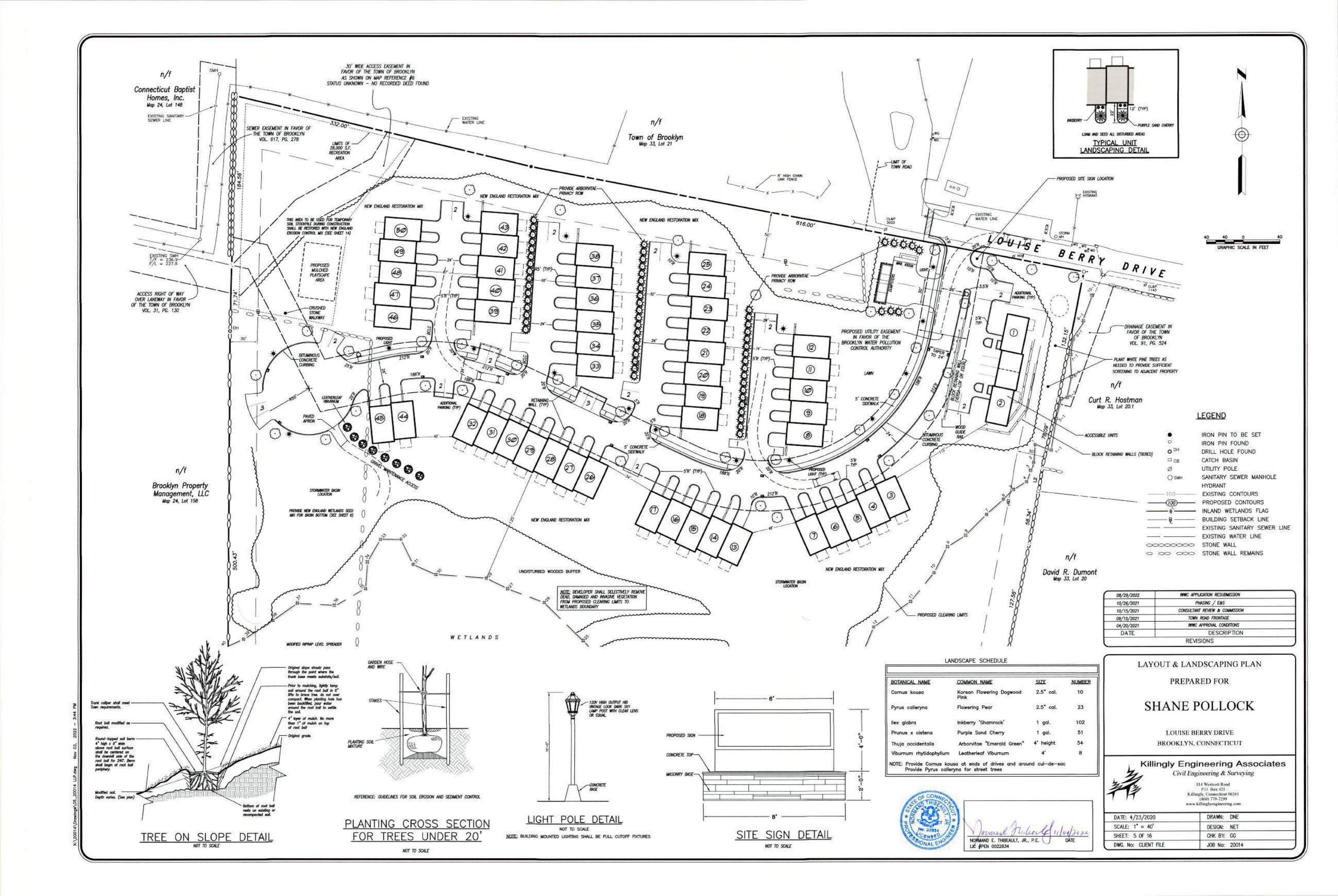
LOUISE BERRY DRIVE BROOKLYN, CONNECTICUT

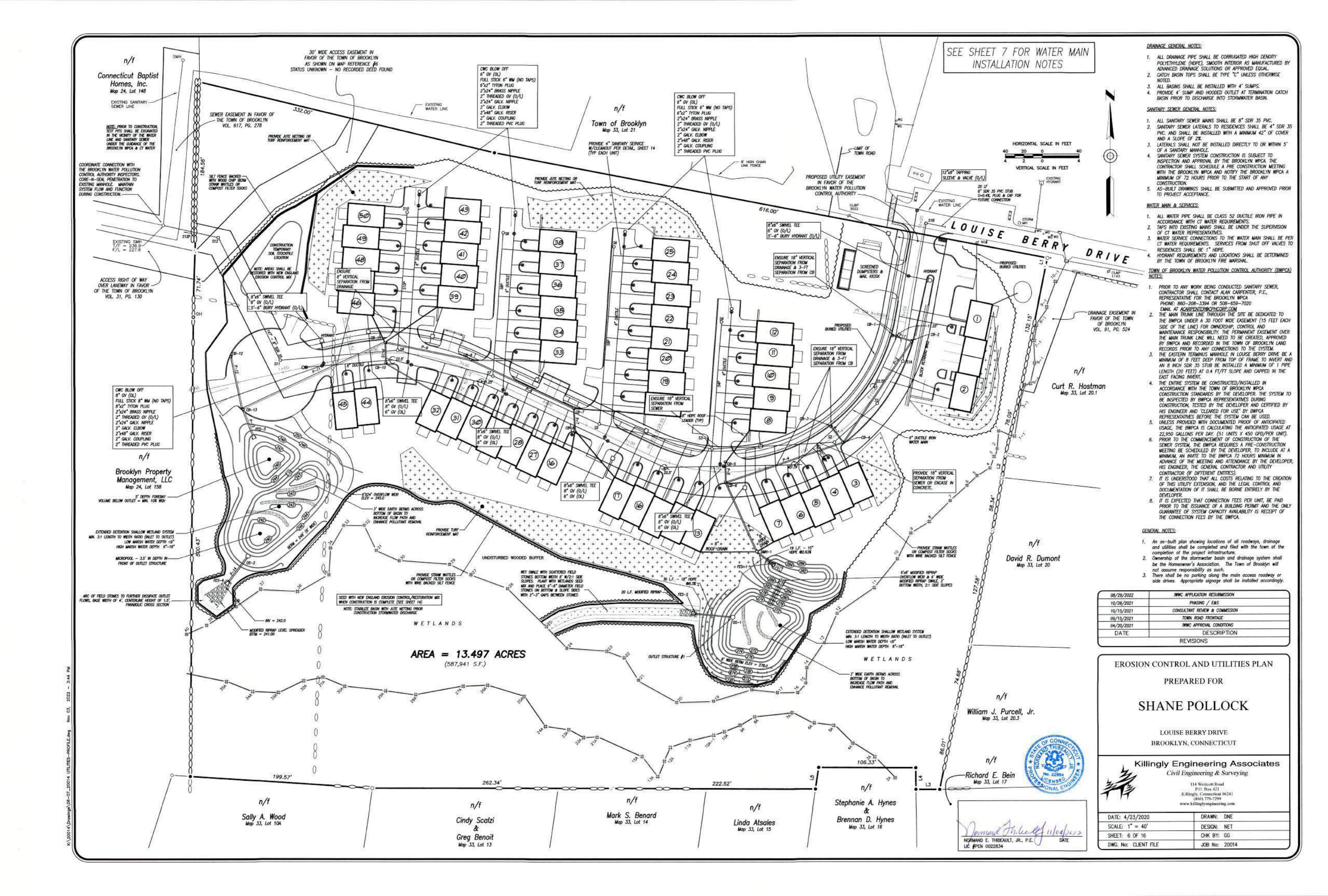
Killingly Engineering Associates Civil Engineering & Surveying

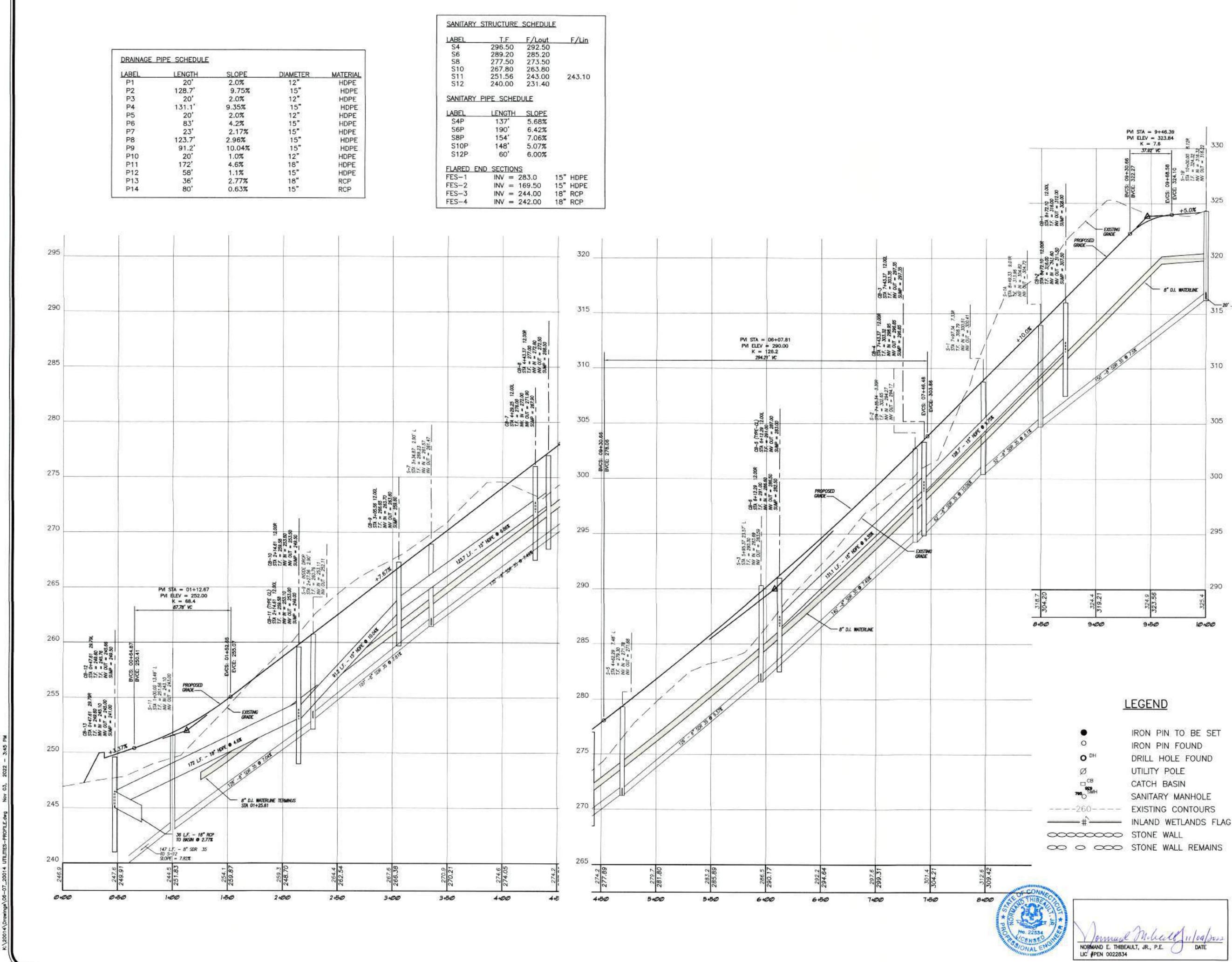
114 Westcott Road P.O. Box 421 Killingly, Connecticut 06241 (860) 779-7299 www.killinglyengineering.com

DATE: 4/23/2020	DRAWN: DNE
SCALE: 1" = 50'	DESIGN: NET
SHEET: 3 OF 16	CHK BY: GG
DWG. No: CLIENT FILE	JOB No: 20014









WATER MAIN INSTALLATION NOTES:

1. PROJECT MUST BE BUILT TO CONNECTICUT WATER COMPANY SPECIFICATIONS. 2. CLASS 52 DUCTILE IRON PIPE REQUIRED.

3. COPPER AND/OR DUCTILE IRON SERVICE LATERAL MATERIAL REQUIRED.

4. GATE VALVES OPEN LEFT.

5. FIRE HYDRANTS OPEN LEFT. HYDRANTS ARE 5.5' BURY DEPTH. CT WATER COMPANY WILL FURNISH MATERIALS INCLUDING TEE, VALVE, PIPE, HYDRANT AND ACCESSORIES. FIRE HYDRANTS TO BE INSTALLED WITH FACE OF HYDRANT 3-FEET OFF FACE OF CURB. HYDRANTS ARE NOT TO BE INSTALLED IN SIDEWALKS. WHERE 3-FEET CANNOT BE OBTAINED, INSTALL HYDRANT BEHIND SIDEWALK UNLESS OTHERWISE NOTED OR AS DIRECTED BY A CT WATER COMPANY PROJECT MANAGER. 10-FEET HORIZONTAL SEPARATION REQUIRED BETWEEN HYDRANTS, SEWER MANHOLES AND STORM DRAINS. ***FIRE HYDRANTS TO BE INSTALLED WITH FINISH GRADE AT THE BURY LINE CAST INTO THE LOWER BARREL. CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS OF WATER MAIN AND LATERAL ELEVATION TO ACHIEVE PROPER BURY DEPTH. ANY COSTS RELATED TO ADJUSTMENTS REQUIRED BY CT WATER COMPANY WILL BE THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR AND/OR APPLICANT OF RECORD.

6. ALL WATER MAIN PIPING AND APPURTENANCES MUST BE POLYETHYLENE ENCASED IN ACCORDANCE WITH AWWA ANSI-AWWA C105/A21.5-99(10). POLYETHYLENE ENCASEMENT SHALL BE V-BIO ENHANCED POLYETHYLENE ENCASEMENT ONLY AND CONSIST OF THREE CO-EXTRUDED LAYERS OF LINEAR LOW-DENSITY POLYETHYLENE (LLDPE) FILM THAT ARE FUSED INTO ONE.

7. MEGALUG RESTRAINTS REQUIRED ON ALL FITTINGS, BENDS, OFFSETS, TEES, GATE VALVES AND HYDRANTS.

8. FIELD LOK (U.S. PIPE) OR SURE STOP 350 (MCWANE) RESTRAINING GASKETS ARE REQUIRED 2 PIPE JOINTS BEFORE AND AFTER EACH FITTING AND ON THE LAST 3 PIPE LENGTHS ON DEAD ENDS.

9. THRUST BLOCKING IS REQUIRED ON ALL BENDS, TEES, OFFSETS, HYDRANTS AND DEAD ENDS.

10. ALL WATER MAINS SHALL BE INSTALLED TO A DEPTH OF 4-FEET OF COVER BASED ON THE ROADWAY GRADE, EXCEPT AS NOTED.

11. 3-FT MINIMUM HORIZONTAL SEPARATION REQUIRED BETWEEN WATER AND ANY OTHER UTILITY/UNDERGROUND STRUCTURE 10-FT MINIMUM HORIZONTAL SEPARATION REQUIRED BETWEEN WATER AND SEWER/SEPTIC ("SEWER")*** SLEEVE REQUIRED WHERE WATER CROSSES SEWER IF WATER IS BELOW SEPTIC AND/OR WHEN 18" VERTICAL SEPARATION CANNOT BE ACHIEVED WHEN WATER IS ABOVE SEWER. 4-FEET MINIMUM HORIZONTAL SEPARATION REQUIRED BETWEEN WATER MAIN AND DRAINAGE WHEN AT LIKE ELEVATIONS.

12. WATER MAINS TO BE DEFLECTED UNDER ALL STORM DRAWS UNLESS OTHERWISE NOTED OR AS DIRECTED BY A CT WATER COMPANY PROJECT MANAGER. A VERTICAL CLEARANCE OF 18" TO BE MAINTAINED BETWEEN STORM DRAIN AND WATER MAINS. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COMPACTION AROUND AND UNDER EXISTING DRAINAGE FACILITIES WHICH MAY INCLUDE REMOVAL AND RESETTING TO PROPER GRADE.

13. ANGLE OF BENDS TO BE FIELD DETERMINED.

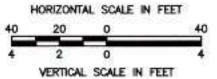
14. MAXIMUM ALLOWABLE DEFLECTION PER FULL LENGTH PUSH-ON JOINT FOR 4" TO 12" IS FIVE (5) DEGREES AND THREE (3) DEGREES FOR 14" AND GREATER DUCTILE IRON PIPE.

15. EXISTING SERVICES TO SITE THAT WILL NO LONGER BE USED MUST BE TERMINATED AT THE WATER MAIN BY EXPOSING AND SHUTTING OFF THE CORPORATION VALVE. THE LINE MUST BE SEVERED IMMEDIATELY AFTER THE CORPORATION VALVE. SAID SERVICES MUST BE SHOWN ON PLANS.

16. WHERE A WATER SUPPLY WELL FOR ANY PURPOSE EXISTS OR IS APPROVED WITHIN THE LIMITS OF THIS PROJECT, ALL SERVICE LINES CONNECTED TO THE PUBLIC WATER SUPPLY REQUIRE A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPD), AND MUST MEET THE REQUIREMENTS OF SEC. 19A-209A OF THE CONNECTICUT GENERAL STATUTES ("CGS"), AND SEC. 19-13-B38A OF THE PUBLIC HEALTH CODE.

17. WHERE AN AIR RELIEF IS REQUIRED, CT WATER COMPANY WILL PERFORM TAP AND INSTALL WHILE THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR THE EXCAVATION AND RESTORATION UNLESS OTHERWISE NOTED. LABOR AND MATERIALS FOR THE INSTALLATION(S) WILL BE CHARGED TO THE PROJECT.

18. WHEN THE INSTALLATION OF UNDERGROUND INFRASTRUCTURE DEVIATES FROM THE CT WATER COMPANY APPROVED PLANS(S), THE APPLICANT, AT HIS/HER COST, WILL BE HELD LIABLE FOR THE RELOCATION OF INFRASTRUCTURE AS REQUIRED TO THE SATISFACTION OF THE CT WATER COMPANY. FAILURE TO CORRECT ANY DEVIATION DEEMED UNACCEPTABLE TO THE CT WATER COMPANY WILL RESULT IN LITIGATION.



08/29/2022	NNIK APPLICATION RESUBUISSION	
10/26/2021	PHASING / EAS	
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04/20/2021	INVIC APPROVAL CONDITIONS	
DATE	DESCRIPTION	
95,	REVISIONS	

ROAD PROFILE

PREPARED FOR

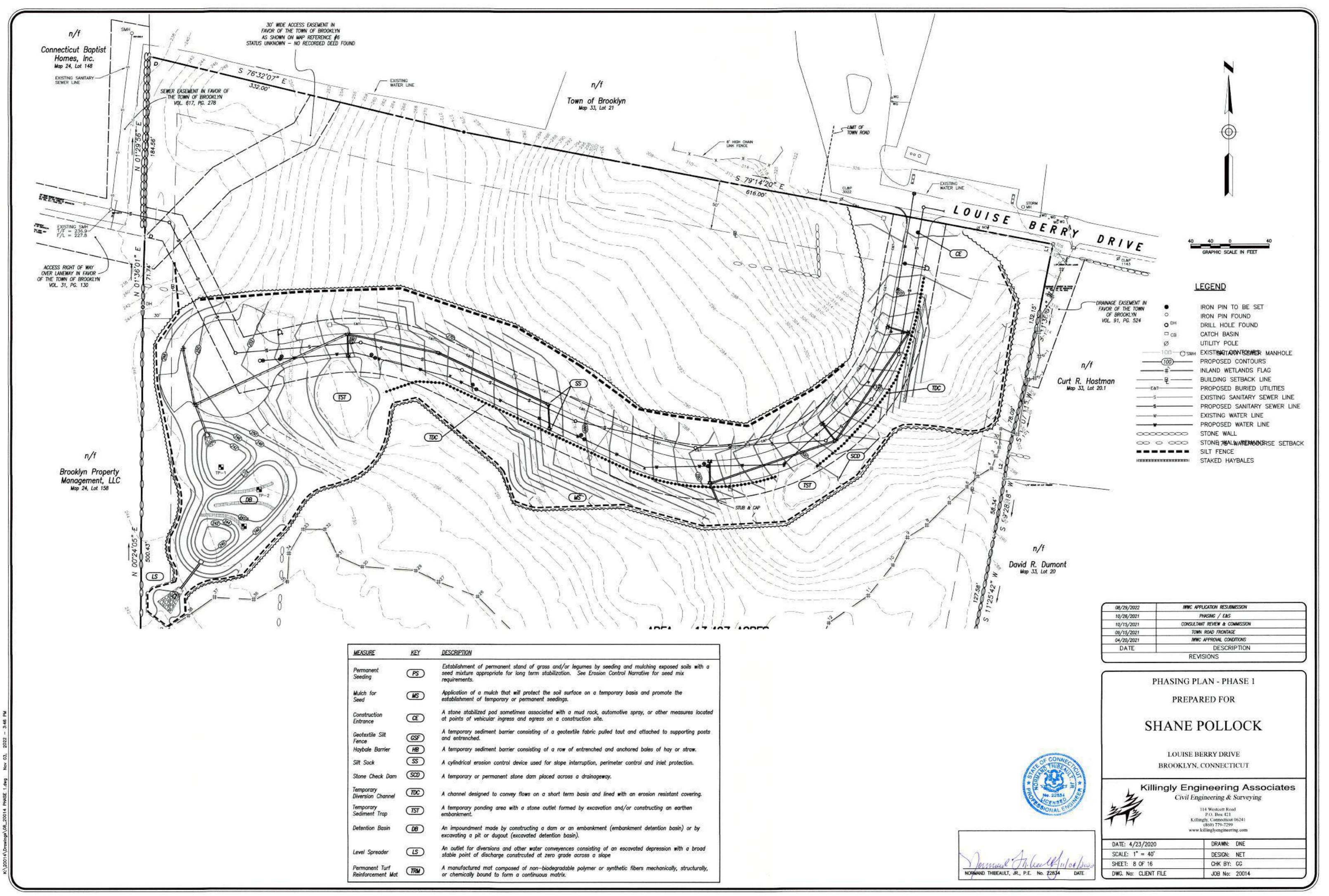
SHANE POLLOCK

LOUISE BERRY DRIVE BROOKLYN, CONNECTICUT

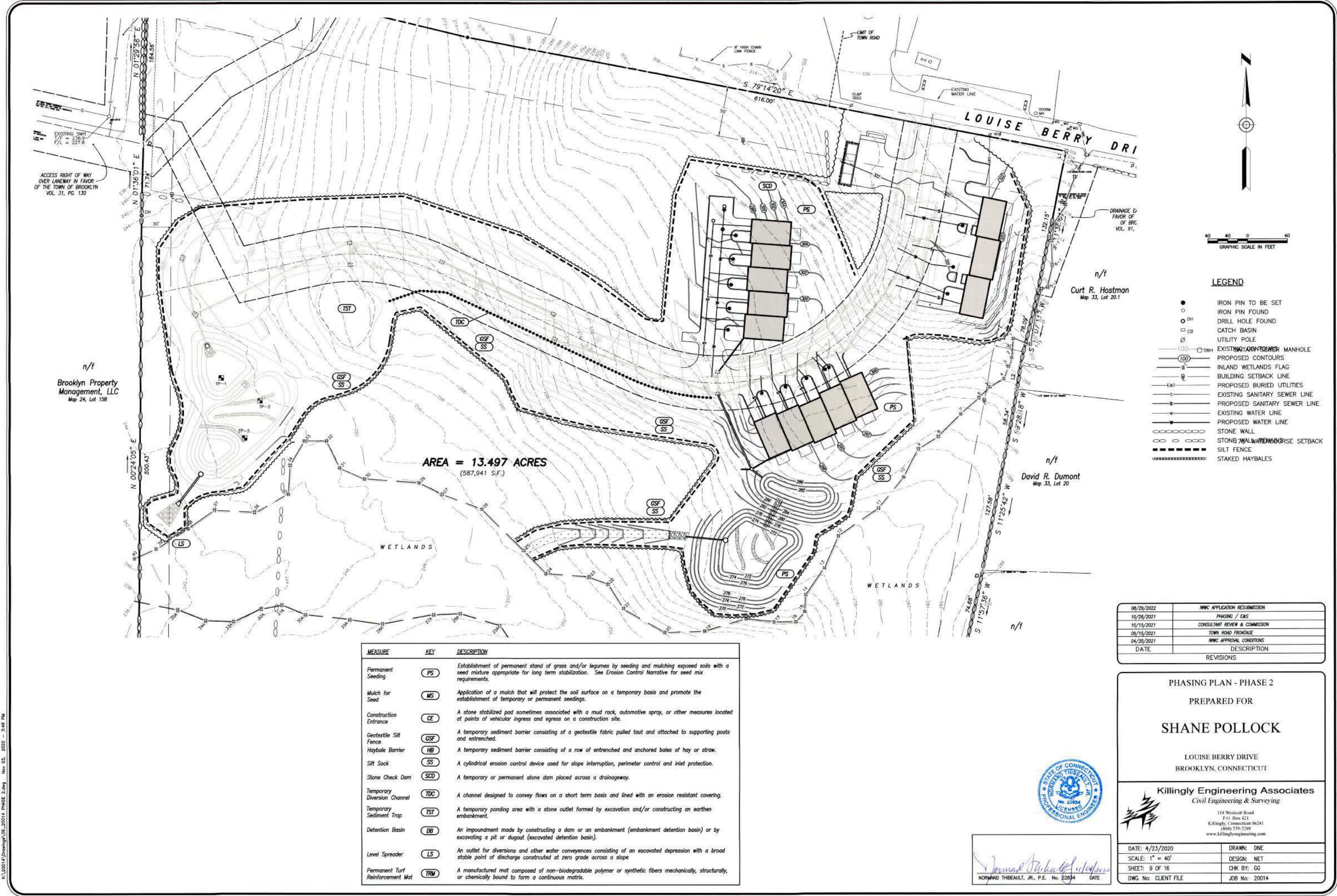
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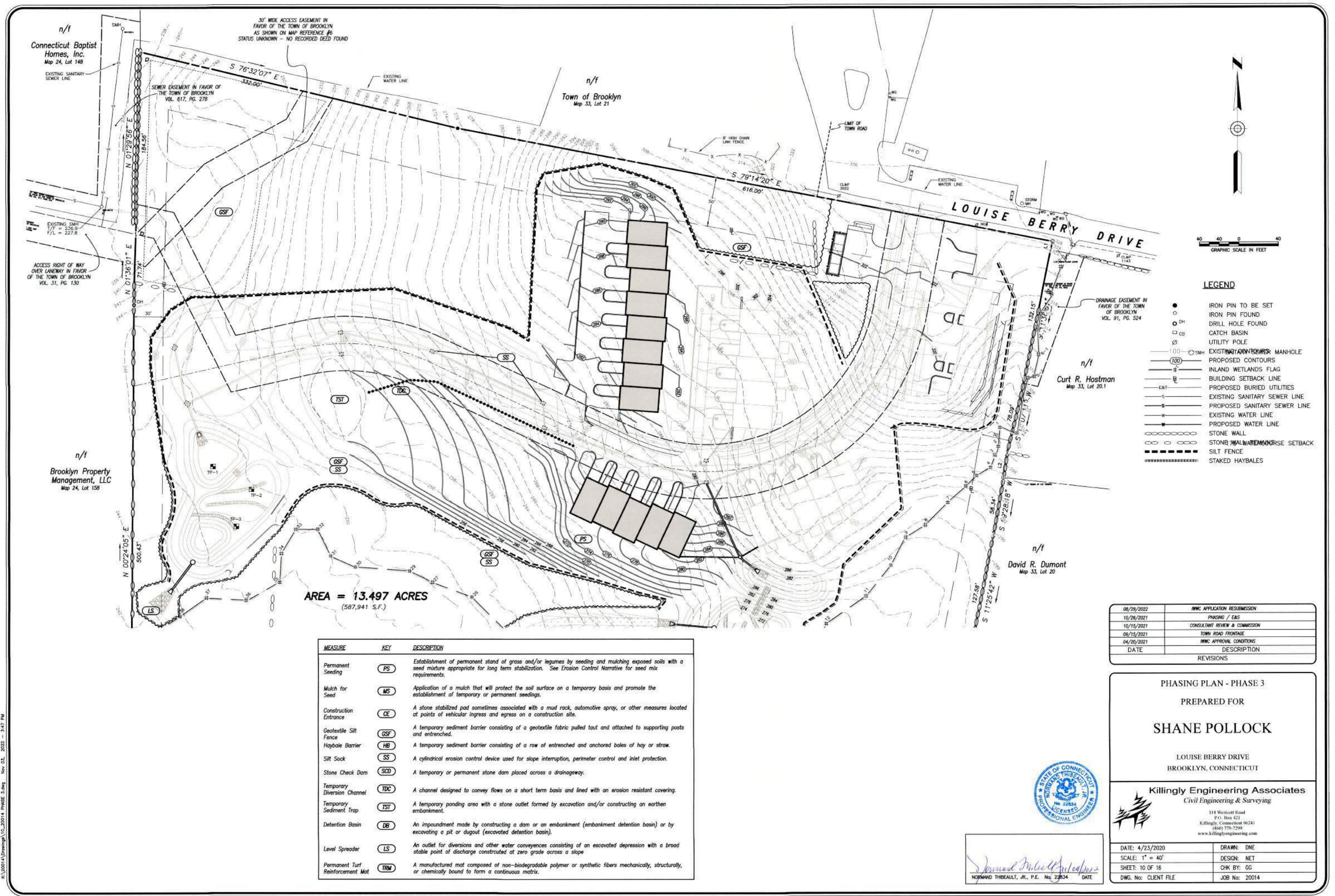
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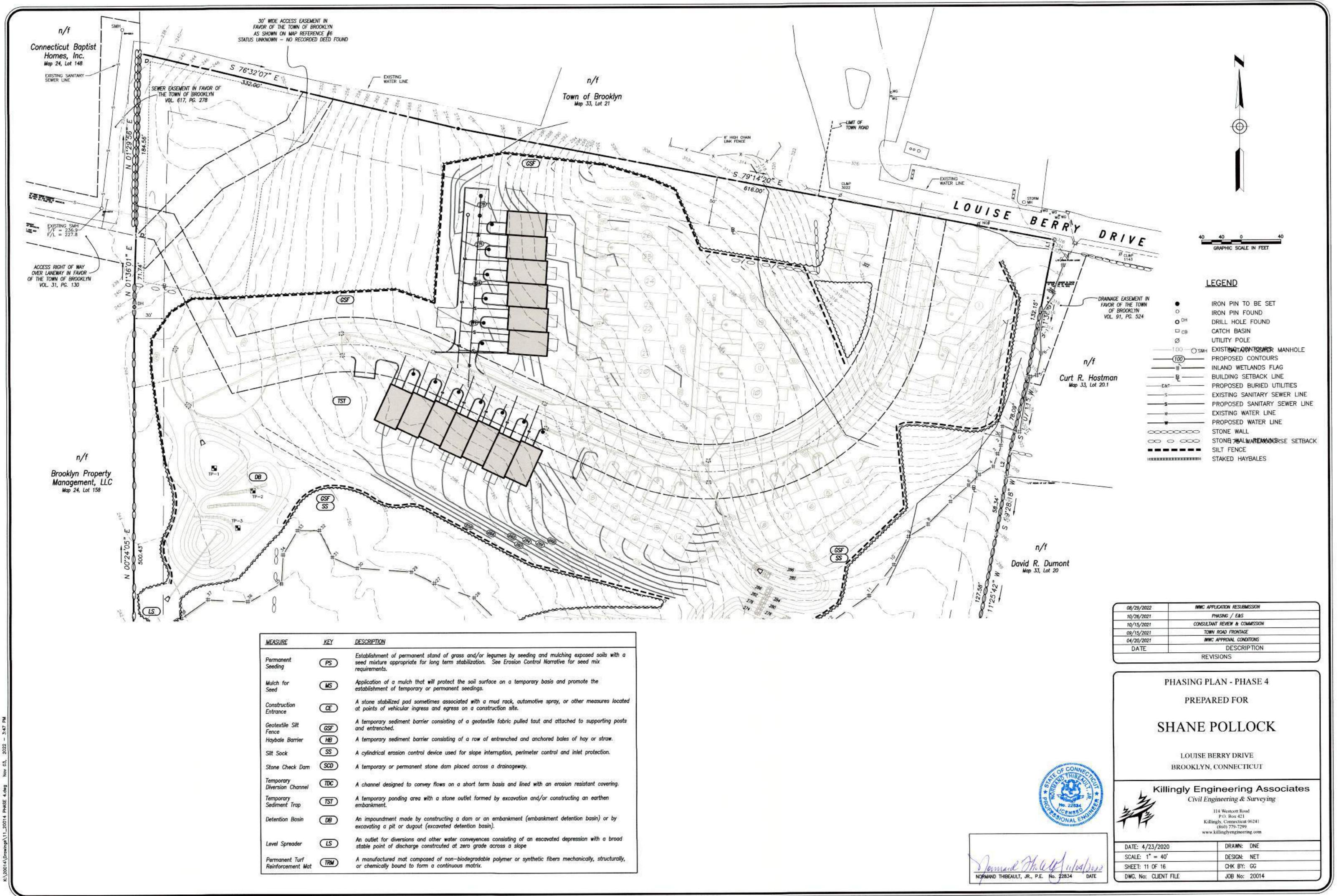


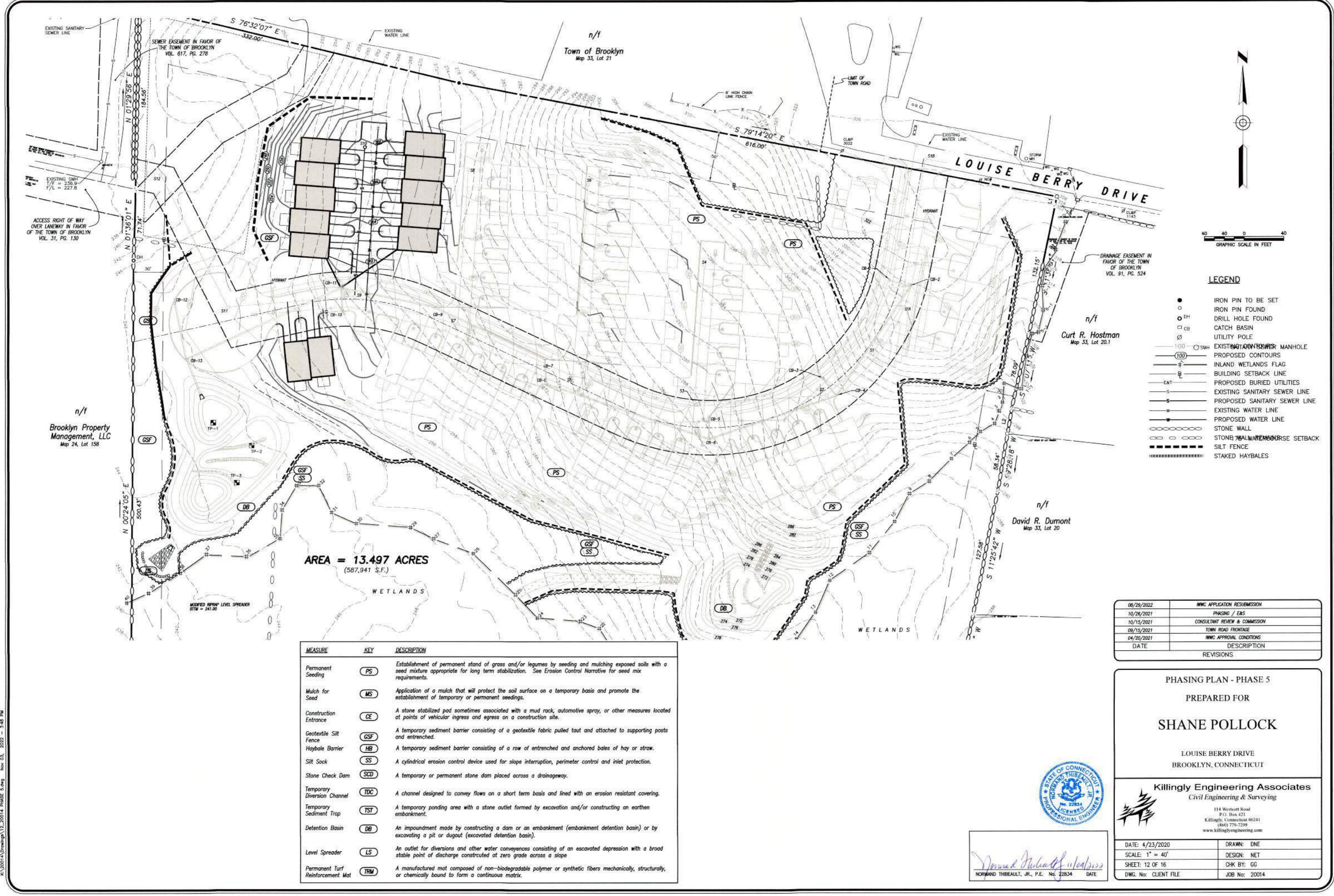
KEY	DESCRIPTION
PS)	Establishment of permanent stand of grass and/or legumes by seeding and mulching exposed soils with a seed mixture appropriate for long term stabilization. See Erosion Control Narrative for seed mix requirements.
MS)	Application of a mulch that will protect the soil surface on a temporary basis and promote the establishment of temporary or permanent seedings.
Œ	A stone stabilized pad sometimes associated with a mud rack, automotive spray, or other measures located at points of vehicular ingress and egress on a construction site.
SSF)	A temporary sediment barrier consisting of a geotextile fabric pulled taut and attached to supporting posts and entrenched.
HB	A temporary sediment barrier consisting of a row of entrenched and anchored bales of hay or straw.
SS)	A cylindrical erosion control device used for slope interruption, perimeter control and inlet protection.
500)	A temporary or permanent stone dam placed across a drainageway.
TDC)	A channel designed to convey flows on a short term basis and lined with an erosion resistant covering.
IST)	A temporary ponding area with a stone outlet formed by excavation and/or constructing an earthen embankment.
08)	An impoundment made by constructing a dam or an embankment (embankment detention basin) or by excavating a pit or dugout (excavated detention basin).
LS	An outlet for diversions and other water conveyences consisting of an escavated depression with a broad stable point of discharge constrcuted at zero grade across a slope
TRM	A manufactured mat composed of non-biodegradable polymer or synthetic fibers mechanically, structurally, or chemically bound to form a continuous matrix.



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TRM	A manufactured mat composed of non-biodegradable polymer or synthetic fibers mechanically, structurally, or chemically bound to form a continuous matrix.







EROSION AND SEDIMENT CONTROL PLAN:

REFERENCE IS MADE TO:

- 1. Connecticut Guidelines for Soll Erosion and Sediment Control 2002 (2002 Guidelines).
- 2. U.S.D.A. N.R.C.S. Web Soil Survey.

The project will require registration under the "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES" with the CIDEEP. 60 doys prior to any activity on site, the developer or his representative shall submit the registration to the CTDEEP. The Town of Brooklyn shall be given a copy of the registration approval.

- DEVELOPMENT CONTROL PLAN:
- . Development of the site will be performed by the Contractor, who will be responsible for the installation and maintenance of erosion and sediment control measures required throughout construction.
- 2. The sedimentation control mechanisms shall remain in place from start of construction until permanent vegetation has been established. The representative for the Town of Brooklyn will be notified when sediment and erosion control structures are initially in place. Any additional soil & erosion control measures requested by the Town or its agent, shall be installed immediately. Once the proposed development, seeding and planting have been completed, the representative shall again be notified to inspect the site. The control measures will not be removed until this inspection is complete.
- 3. All stripping is to be confined to the immediate construction area. Topsoil shall be stockpiled so that slopes do not exceed 2 to 1. A hay bale sediment barrier is to surround each stockpile and a temporary vegetative cover shall be provided.
- 4. Dust control will be accomplished by apraying with water. The application of calcium chloride is not permitted adjacent to wetland resource areas or within 100' of these areas.
- 5. The proposed planting schedule is to be adhered to during the planting of disturbed areas throughout the proposed construction site.
- 5. Final stabilization of the site is to follow the procedures outlined in "Permanent Vegetative Cover". If necessary a temporary vegetative cover is to be provided until a permanent cover can be

SILT FENCE INSTALLATION AND MAINTENANCE:

- 1. Dig a 6" deep trench on the uphill side of the barrier location.
- 2. Position the posts on the downhill side of the barrier and drive the posts 1.5 feet into the
- 3. Lay the bottom 6* of the fabric in the trench to prevent undermining and backfill.
- 4. Inspect and repair barrier after heavy rainfall.
- 5. Inspections will be made at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater to determine maintenance needs.
- 6. Sediment deposits are to be removed when they reach a height of 1 foot behind the barrier or half the height of the barrier and are to be deposited in an area which is not regulated by the inland wetlands commission.
- 7. Replace or repair the fence within 24 hours of observed failure. Failure of the fence has
- occurred when sediment fails to be retained by the fence because: the fence has been overtopped, undercut or bypassed by runoff water.
- the fence has been moved out of position (knocked over), or - the geotextile has decomposed or been damaged.

HAY BALE INSTALLATION AND MAINTENANCE:

- 1. Bales shall be placed as shown on the plans with the ends of the bales tightly abutting each
- 2. Each bale shall be securely anchored with at least 2 stakes and gaps between bales shall be wedged with straw to prevent water from passing between the bales.
- 3. Inspect bales at least once per week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inches or greater to determine maintenance needs.
- 4. Remove sediment behind the bales when it reaches half the height of the bale and deposit in an area which is not regulated by the inland Wetlands Commission.
- 5. Replace or repair the barrier within 24 hours of observed failure. Failure of the barrier has occurred when sediment fails to be retained by the barrier because:
- the barrier has been overtopped, undercut or bypassed by runoff water, - the barrier has been moved out of position, or the hay bales have deteriorated or been damaged.

TEMPORARY VEGETATIVE COVER:

SEED SELECTION

Grass species shall be appropriate for the season and site conditions. Appropriate species are outlined in Figure TS-2 in the 2002 Guidelines.

TIMING CONSIDERATIONS

Seed with a temporary seed mixture within 7 days after the suspension of grading work in disturbed areas where the suspension of work is expected to be more than 30 days but less than 1 year. SITE PREPARATION

Install needed erosion control measures such as diversions, grade stabilization structures, sediment bosins and grassed waterways.

Grade according to plans and allow for the use of appropriate equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.

SEEDBED PREPARATION

Loosen the soil to a depth of 3-4 inches with a slightly roughened surface. If the area has been recently loosened or disturbed, no further roughening is required. Soil preparation can be accomplished by tracking with a bulldozer, discing, harrowing, raking or dragging with a section of chain link fence. Avoid excessive compaction of the surface by equipment traveling back and forth over the surface. If the slope is tracked, the cleat marks shall be perpendicular to the anticipated direction of the flow of surface water.

If soil testing is not practical or feasible on small or variable sites, or where timing is critical, fertilizer may be applied at the rate of 300 pounds per acre or 7.5 pounds per 1,000 square feet of 10-10-10 or equivalent. Additionally, lime may be applied using rates given in Figure TS-1 in the 2002 Guidelines.

SEEDING

Apply seed uniformly by hand cyclone seeder, drill, cultipacker type seeder or hydroseeder at a minimum rate for the selected species. Increase seeding rates by 10% when hydroseeding. MULCHING

Temporary seedings made during optimum seeding dates shall be mulched according to the recommendations in the 2002 Guidelines. When seeding outside of the recommended dates, increase the application of mulch to provide 95%-100% coverage. MAINTENANCE

Inspect seeded area at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for seed and mulch movement and rill erosion

Where seed has moved or where soil erosion has occurred, determine the cause of the failure. Repair eroded areas and install additional controls if required to prevent reoccurrence of erosion.

Continue inspections until the grasses are firmly established. Grasses shall not be considered established until a ground cover is achieved which is mature enough to control soil erosion and to survive severe weather conditions (approximately 80% vegetative cover).

PERMANENT VEGETATIVE COVER:

Refer to Permanent Seeding Measure in the 2002 Guidelines for specific applications and details related to the installation and maintenance of a permanent vegetative cover. In general, the following sequence of operations shall apply:

- 1. Topsoil will be replaced once the excavation and grading has been completed. Topsoil will be spread at a minimum compacted depth of 4".
- 2. Once the topsoil has been spread, all stones 2° or larger in any dimension will be removed as well as debris.
- Apply agricultural ground limestone at a rate of 2 tons per acre or 100 lbs. per 1000 s.f. Apply 10-10-10 fertilizer or equivalent at a rate of 300 lbs. per acre or 7.5 lbs. per 1000 s.f. Work lime and fertilizer into the soil to a depth of 4".
- 4. Inspect seedbed before seeding. If traffic has compacted the soil, retill compacted areas. 5. Apply the chosen grass seed mix. The recommended seeding dates are: April 1 to June 15 &
- August 15 October 1 Following seeding, firm seedbed with a roller. Mulch immediately following seeding. If a permanent

DEVELOPMENT SCHEDULE/SEQUENCE OF OPERATIONS:

- 1. Flag the limits of disturbance and schedule pre-construction meeting with Town of Brooklyn wetlands Agent.
- 2. The only work that shall be permitted prior to installation of perimeter erosion controls shall be clearing of vegetation. No grubbing shall be conducted until the perimeter erosion and sediment controls have been installed per the plan and inspected by the Town of Brocklyn Agent. Written approval for installation of the erosion and sedimentation controls shall be obtained from the Town of Brooklyn IWWC Agent prior to commencing with any other work.
- 3. Contact utility companies for scheduling installation of utilities and connections
- 4. Install the anti-tracking construction entrance.
- 5. Cut trees within the defined clearing limits and remove the cut wood.
- 6. Install perimeter erosion and sedimentation controls in accordance with the site development plan.
- 7. Chip brush and slash, stockpile chips for use on site or remove off site.
- 8. Box out driveway and stockpile topsoil in locations shown on the plans. Install erosion controls around stockpile and apply temporary seeding.
- 9. Contact utility companies (CT Water and the Brooklyn WPCA) to coordinate water main and sanitary sewer connections. Install water and sanitary sewer lines beginning from the lowest elevation.
- 10.Excavate stormwater basin to be utilized as a temporary sedimentation basin during construction. Install drainage structures and pipe and provide inlet protection at catch basins.
- 11.Install and compact processed gravel for roadway base.
- 12. Remove tree stumps and dispose of at an approved disposal site. Alternatively, stumps may be chipped in place. No stumps shall be buried on site.
- 13. Strip and stockpile topsoil that is within the footprint of the site. Surround stockpile with silt fence or staked havbales, and apply temporary seeding in accordance with recommended mixtures. Divert runoff around the perimeter of the stockpile.
- 14. Make all required cuts and fills. Establish the subgrade for the driveway as required and install additional erosion controls as necessary and as shown on the plans.
- 15.Inspect perimeter erosion and sedimentation controls weekly and after rain events in excess of 0.5". Repair any damaged controls and provide additional erosion control devices as necessary to address areas of concentrated runoff that may develop as a result of the construction activities. The contractor shall review discharge conditions with the design engineer or the Town of Brooklyn prior to
- installing additional erosion controls. Apply water as necessary for dust control. 16.Install utilities to in the locations shown on the plans.
- 17.Prepare sub-base for roadway for final grading.
- 18. Excavate for building footings, stockpile soil and pour footings & slab. Begin
- phased building construction. 19. Place topsoil where required and install any proposed landscaping upon completion of each building.
- 20.Install first course of pavement to each building as they are completed and required landscaping.
- 21. When the remainder of the site work is near completion, sweep all paved areas for the final course of paving. Inspect erosion controls and remove any accumulated sediment.
- 22. Install final course of payement upon the completion of the final structure.
- 23. Fine grade, rake, seed and mulch to within 2' of the pavement.
- 24. Remove and dispose of all silt fence and hay bales after the site has been stabilized to the satisfaction of the Town of Brooklyn.

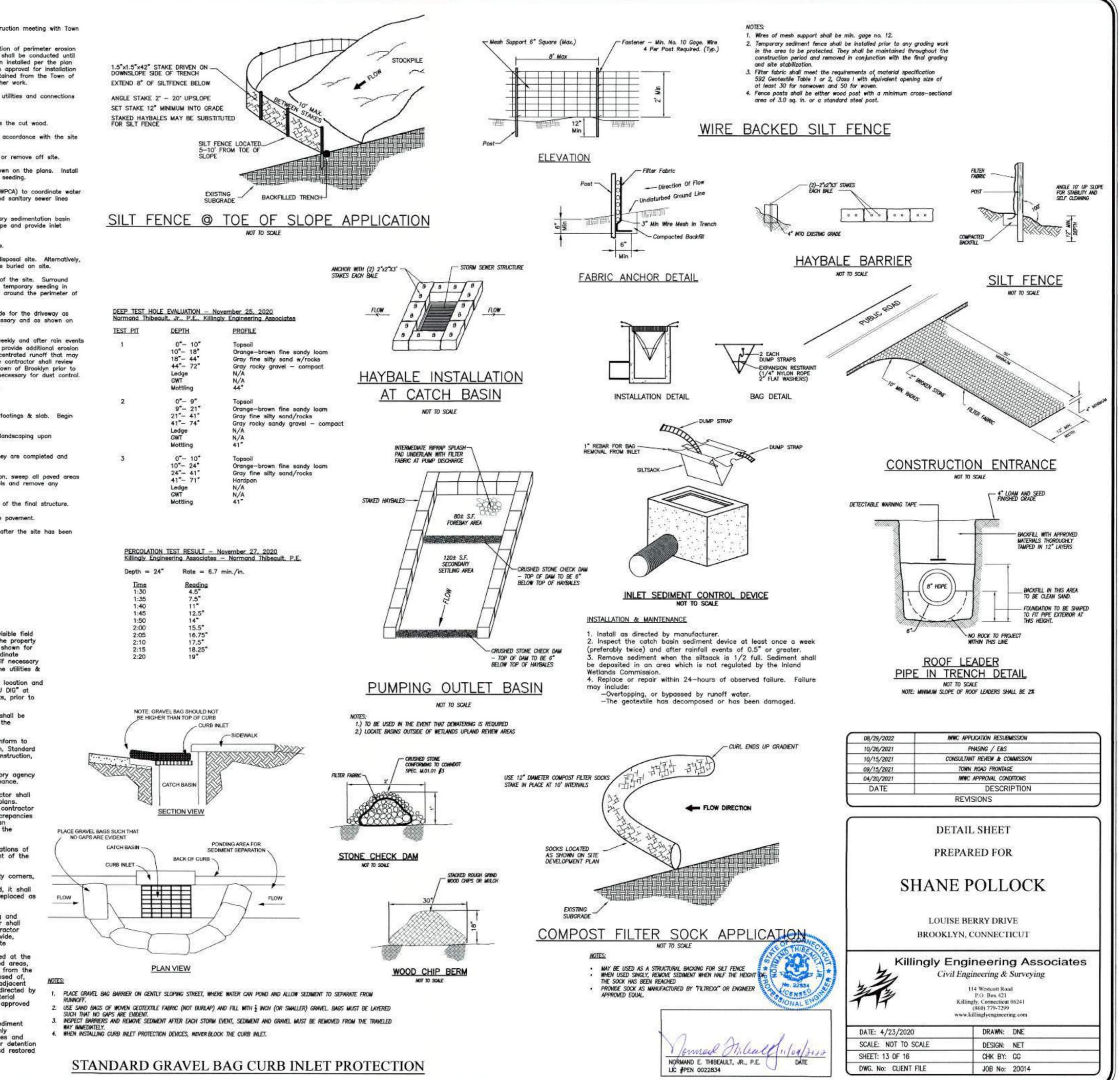
RESPONSIBLE PARTY FOR E&S MAINTENANCE:

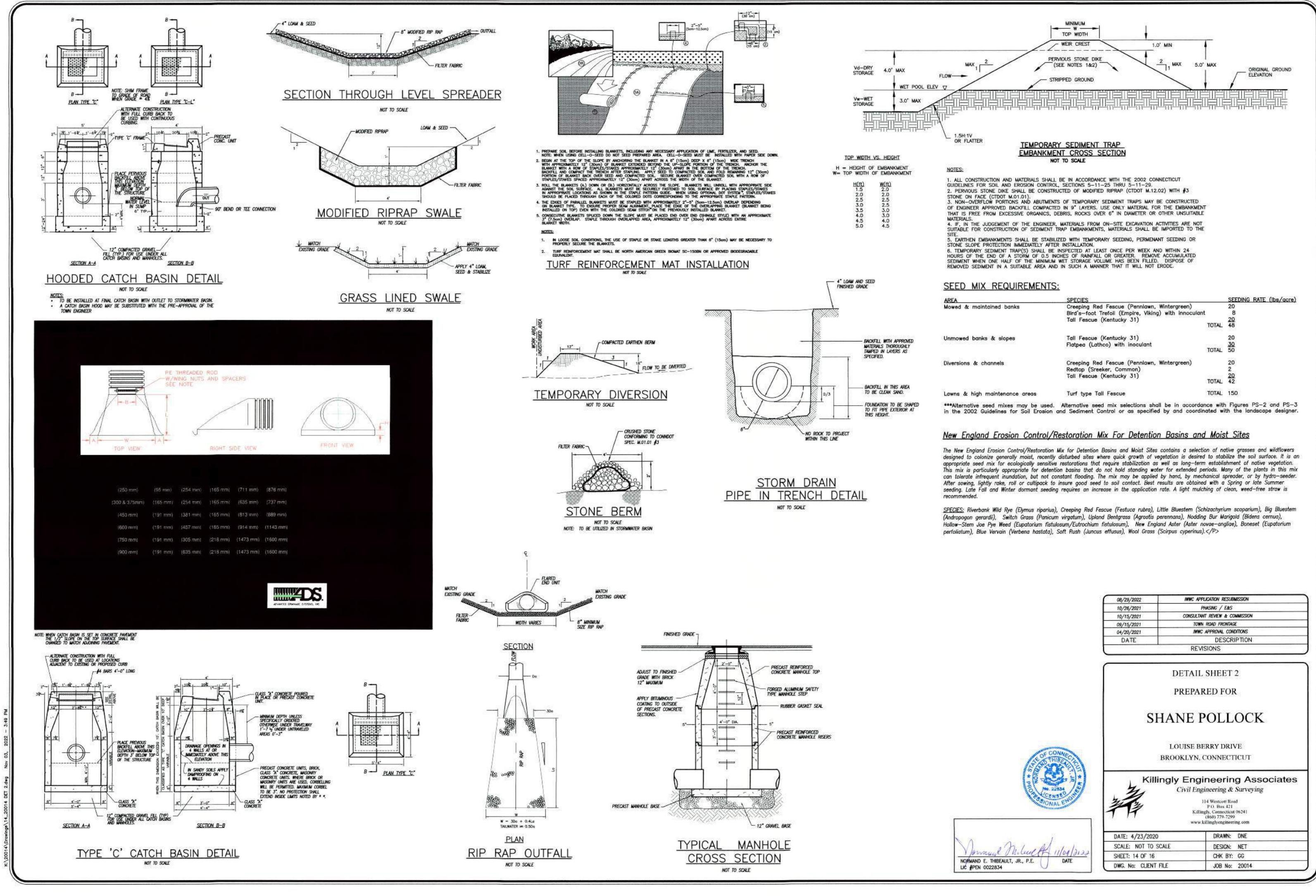
Shane Pollock

101 Mackin Drive Griswold, CT 06351 (860) 888-3129

CONSTRUCTION NOTES/GENERAL PROVISIONS

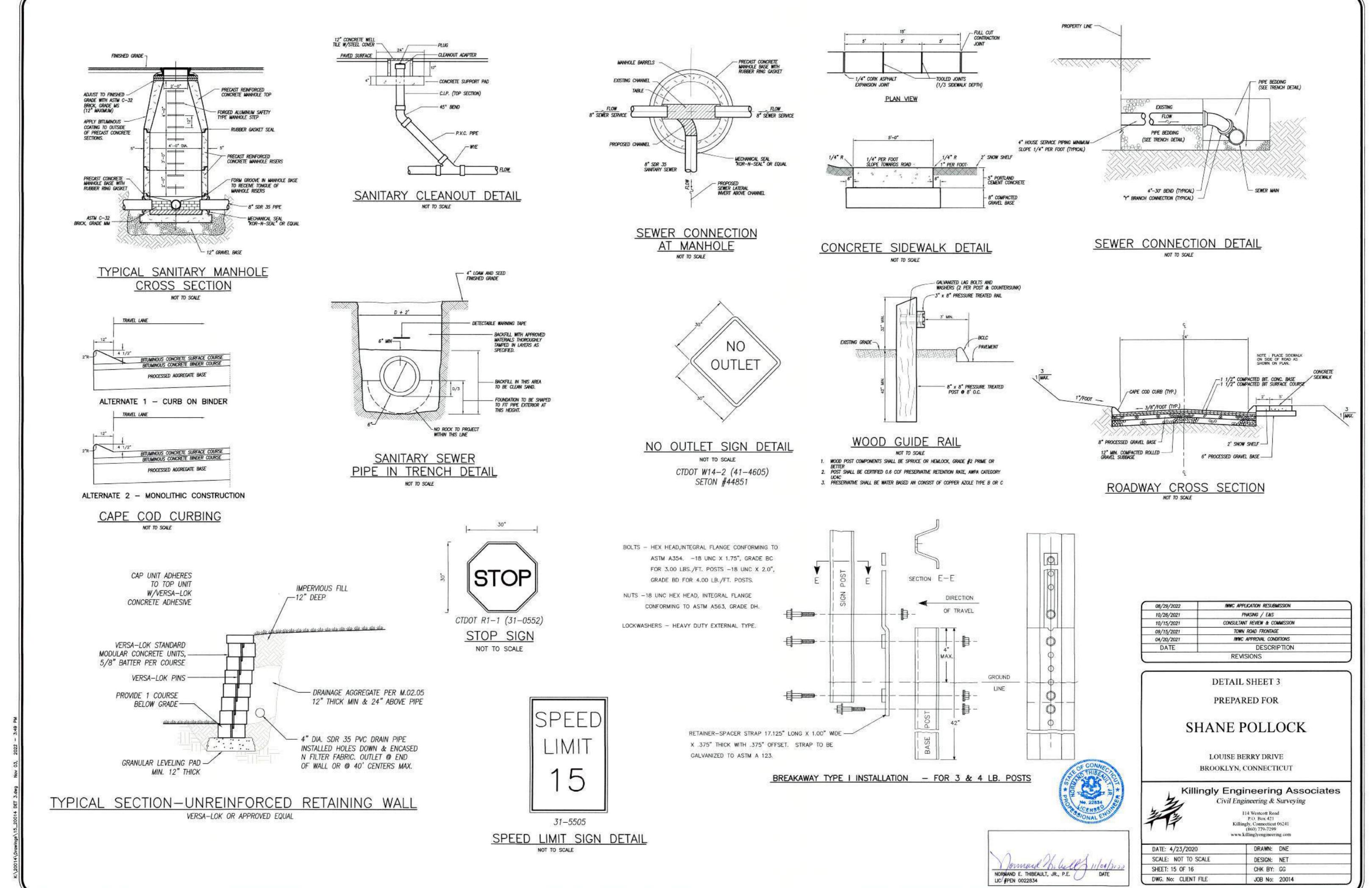
- 1. The locations of existing utilities are based upon visible field observations, record mapping and interviews with the property owner and abutting property owners. They are is shown for informational purposes only. Contractor shall coordinate exploratory test hole excavation with the Engineer if necessary to verify and/or determine actual locations of some utilities & structures. It is the responsibility of the contractor to verify the location and elevation of all utilities. Contact "CALL BEFORE YOU DIG" at
- 1-800-922-4455, and obtain all applicable permits, prior to any excavation around utilities. 2. All existing site features not scheduled to remain shall be
- removed and disposed of in a proper manner, by the contractor
- 3. All Materials and methods of construction shall conform to "State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 818", and supplements thereto.
- The Contractor shall obtain copies of all regulatory agency permits from the Owner prior to any site disturbance.
- 5. Unless otherwise noted on the plans, the contractor shall use the geometry provided on the construction plans. Benchmark information shall be provided to the contractor by the Owner or the Owner's surveyor. Any discrepancies between field measurements and construction plan information shall be brought to the attention of the Engineer or Surveyor immediately,
- 6. The Contractor shall not revise elevations or locations of items shown on the plans without written consent of the project Engineer or Surveyor.
- 7. The Contractor shall protect benchmarks, property corners, and other survey monuments from damage or displacement. If a marker needs to be removed, it shall be referenced by a licensed land surveyor and replaced as necessary by the same.
- 8. The Contractor shall be responsible for preparing and compacting base for proposed pavement. Owner shall provide general fill to establish subgrade - contractor shall spread and compact. Contractor shall provide, spread and compact required processed aggregate
- The entire project site shall be thoroughly cleaned at the completion of the work. Clean all installed paved areas, accumulated silt and sediment shall be removed from the stormwater system, silt fence removed and disposed of, excess construction materials removed, plus all adjacent areas affected by the construction activities as directed by the Owner or the jurisdictional Agency. Any material removed from the site shall be relocated to an approved off-site disposal area.
- 10. Upon completion of construction, accumulated sediment and other deleterious materials shall be thoroughly removed catch basins, manholes, pipes and swales and disposed of off site. Additionally, the stormwater detention basin bottom and structures shall be cleaned and restored to "like new" condition.
- vegetative stand cannot be established by September 30, apply a temporary cover on the topsoil such as netting, mat or organic mulch.

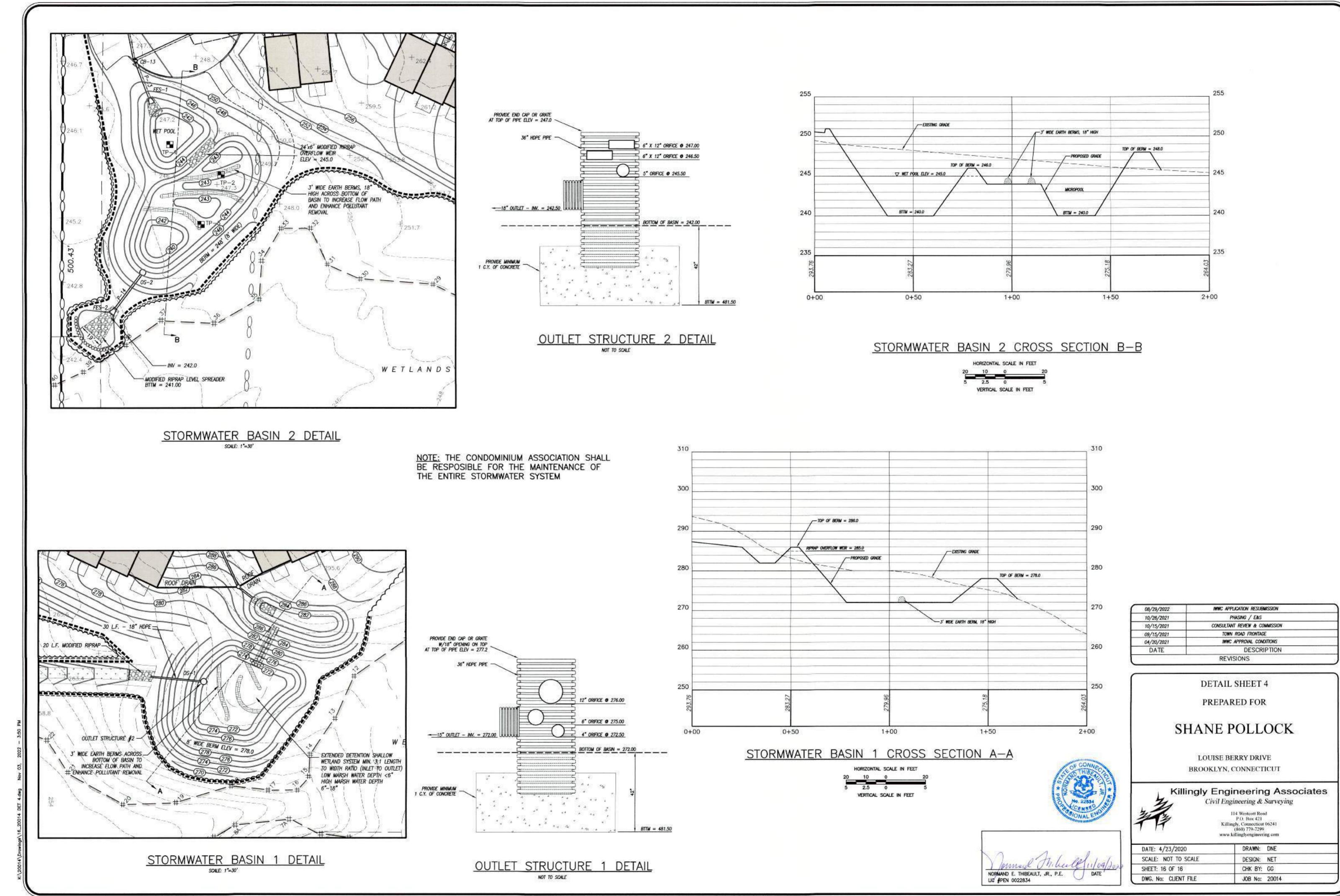


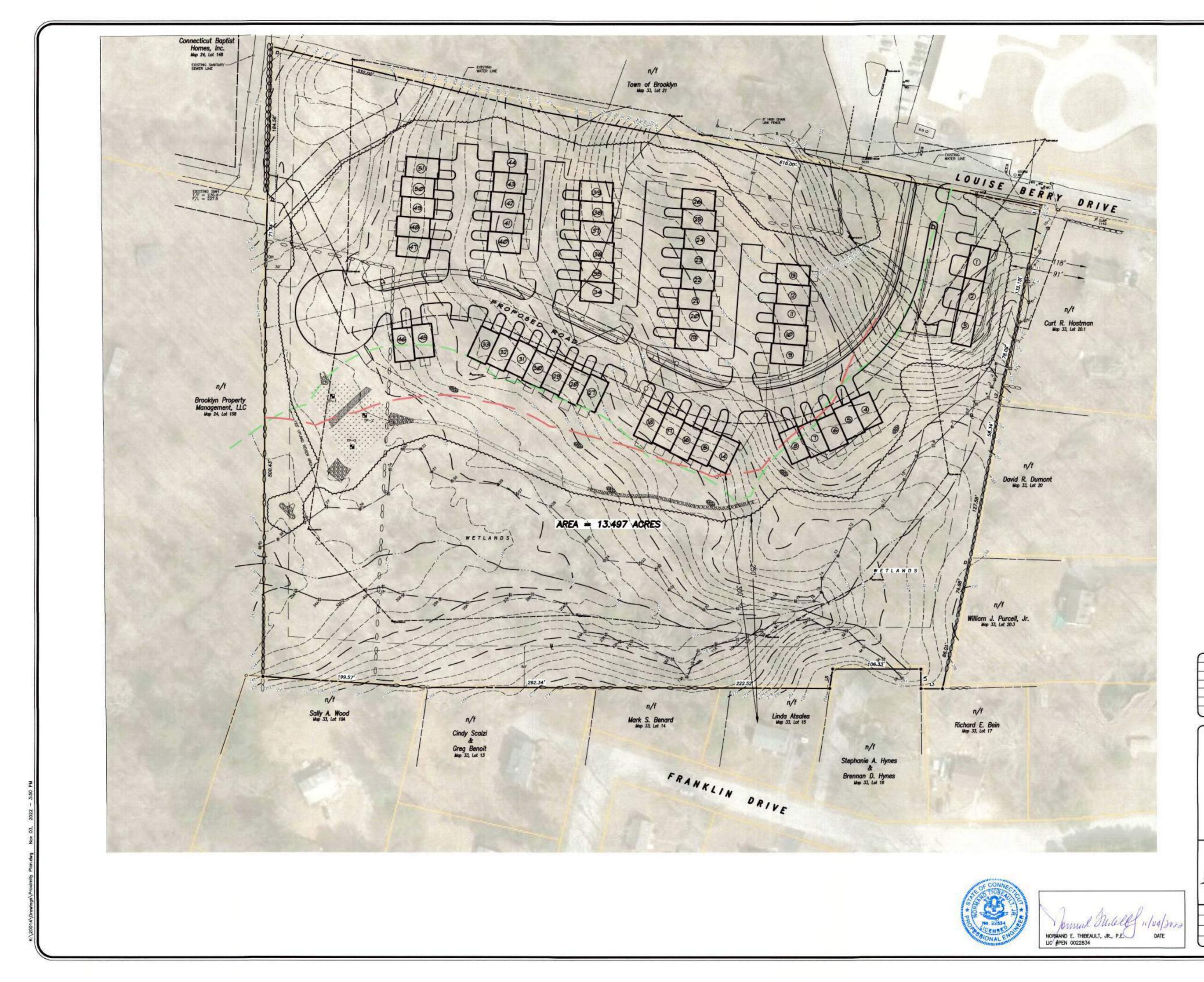


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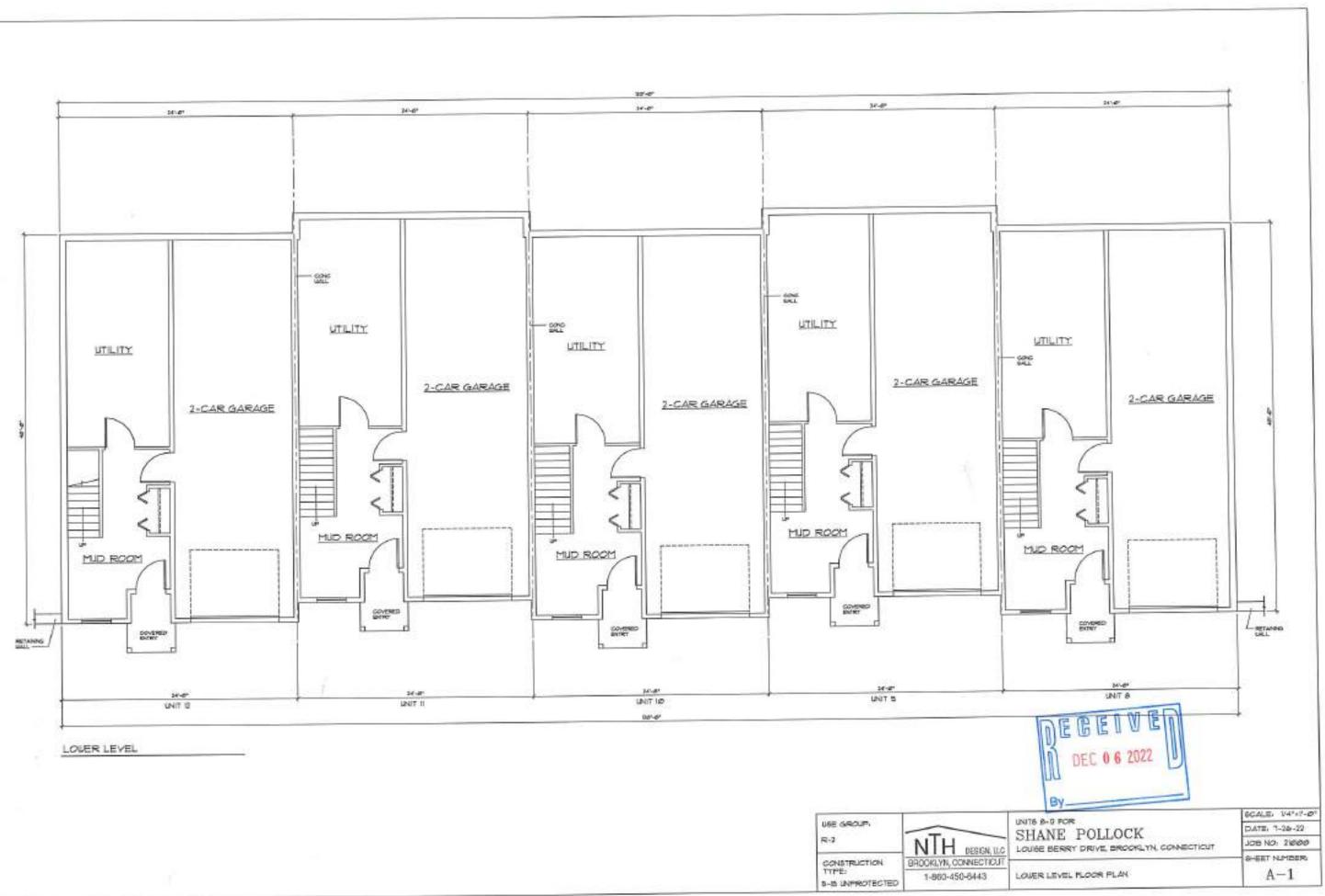
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DESCRIPTION REVISIONS
SITE PROXIMITY PLAN
PREPARED FOR
SHANE POLLOCK
LOUISE BERRY DRIVE
BROOKLYN, CONNECTICUT
Killingly Engineering Associates
Civil Engineering & Surveying

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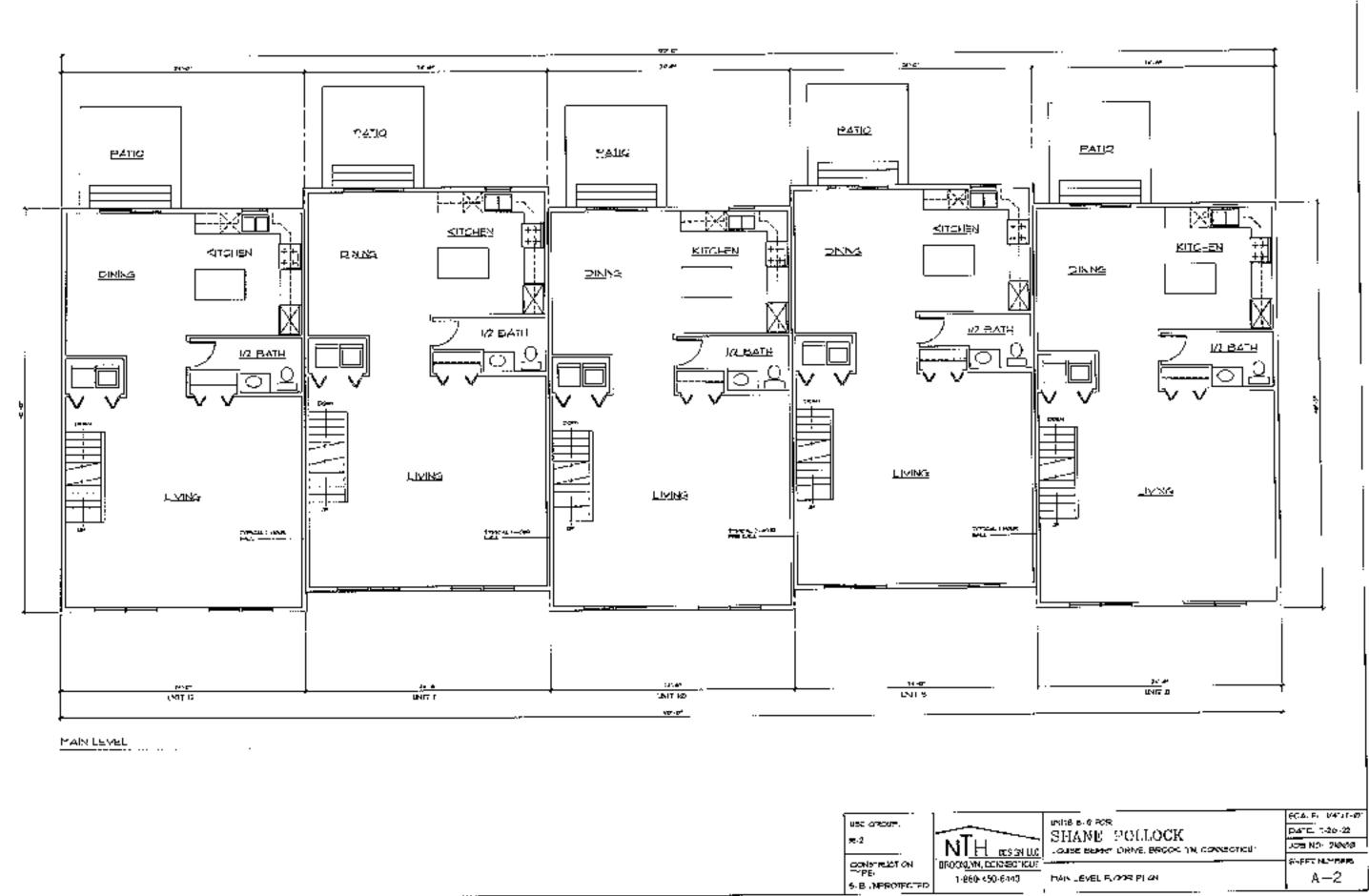
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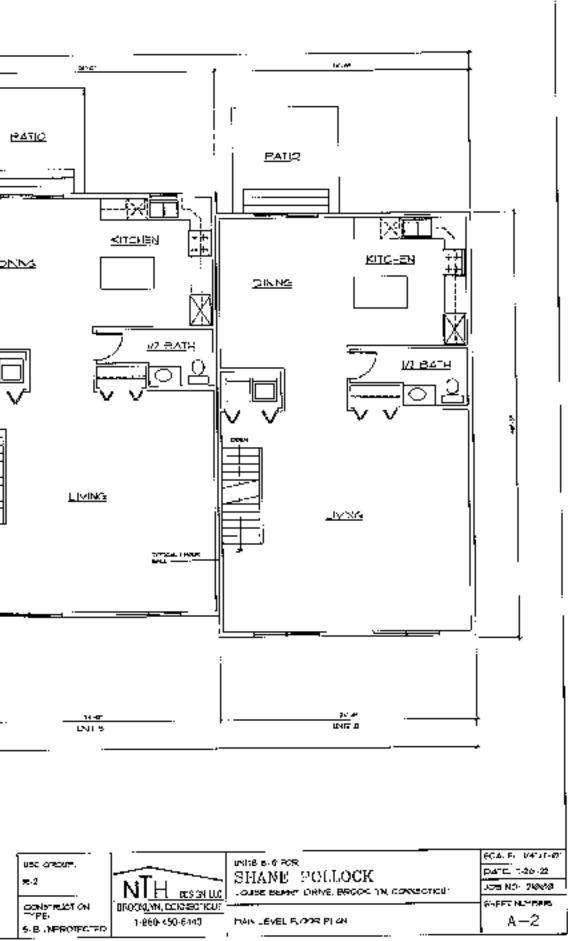
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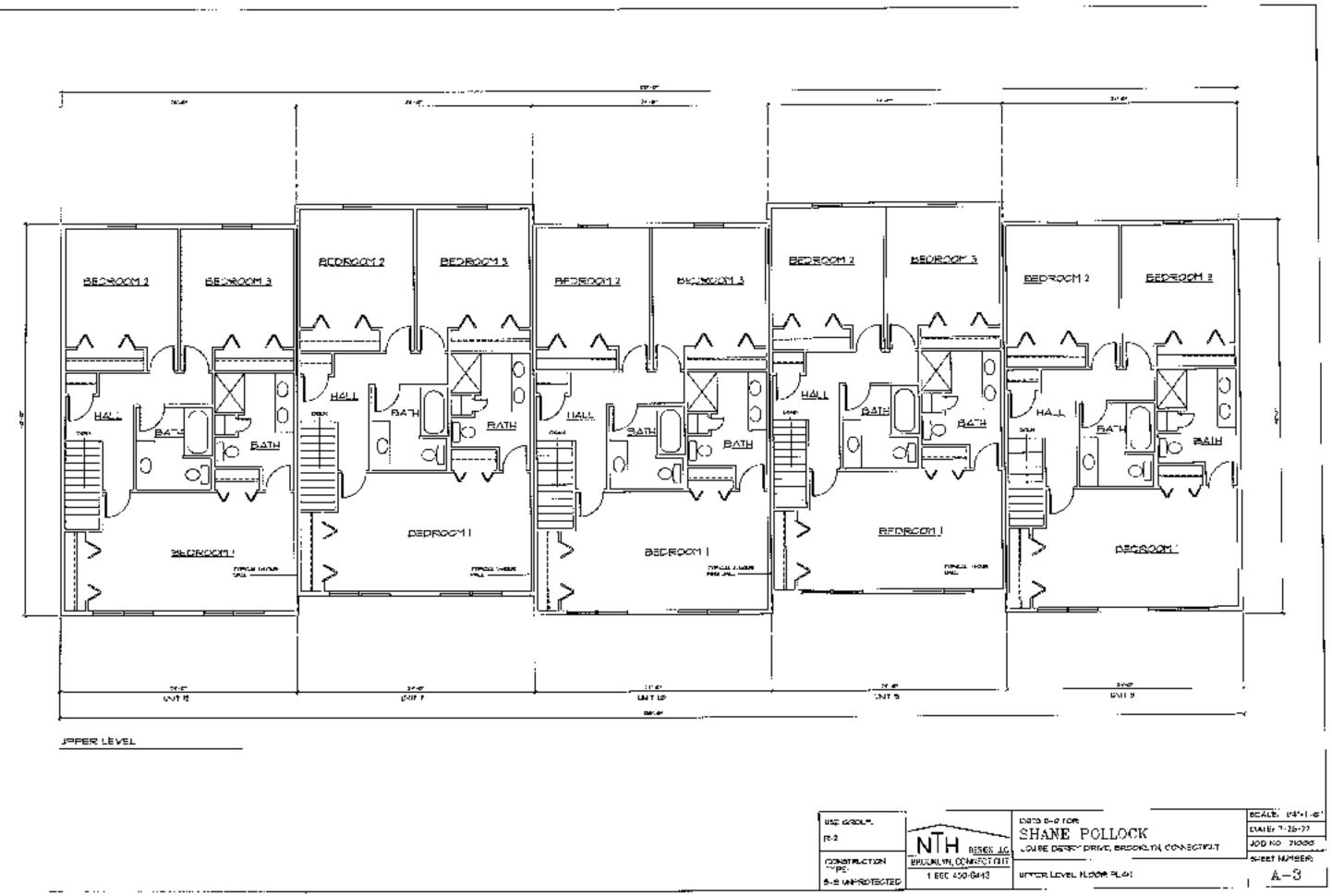
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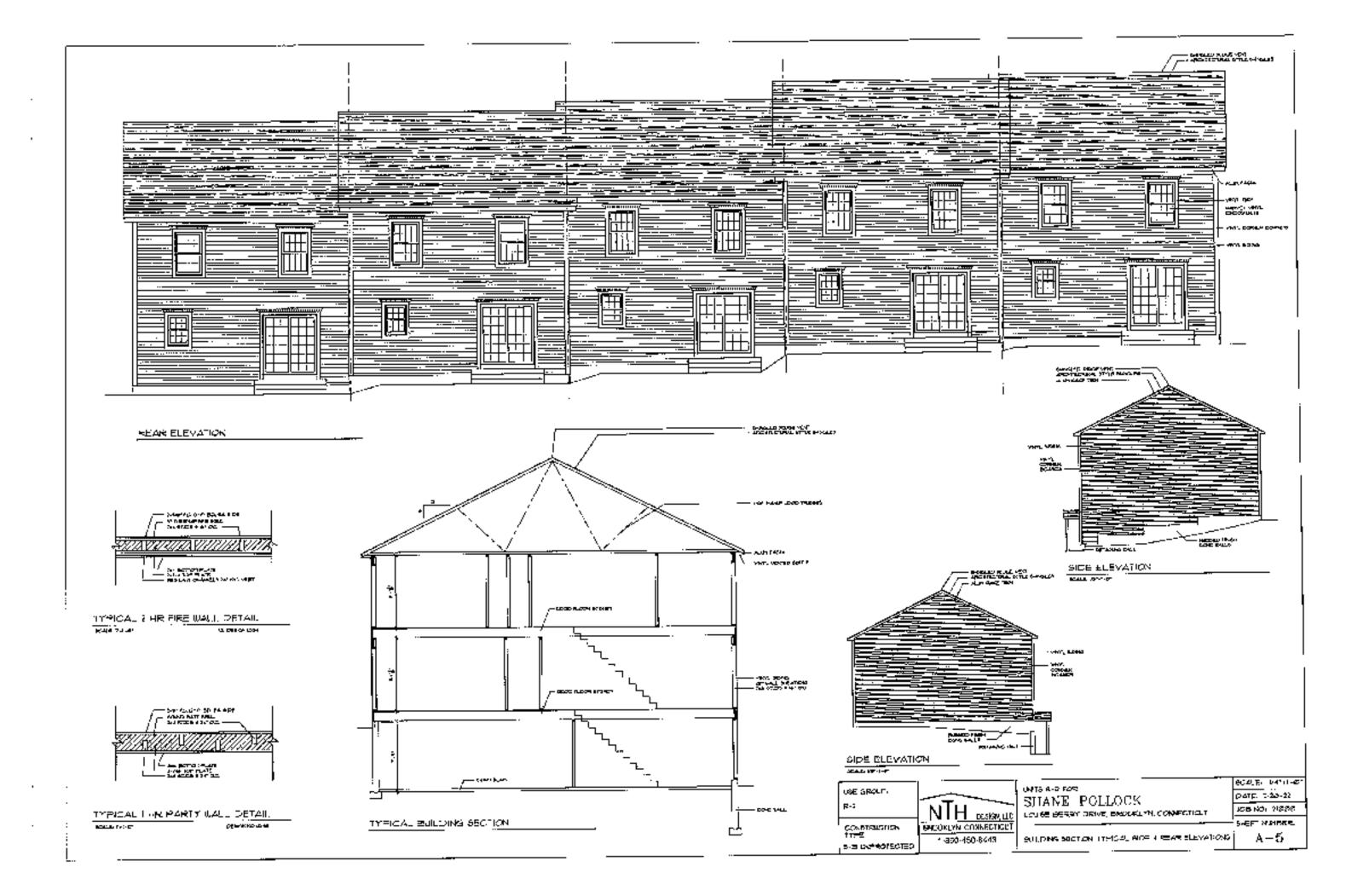
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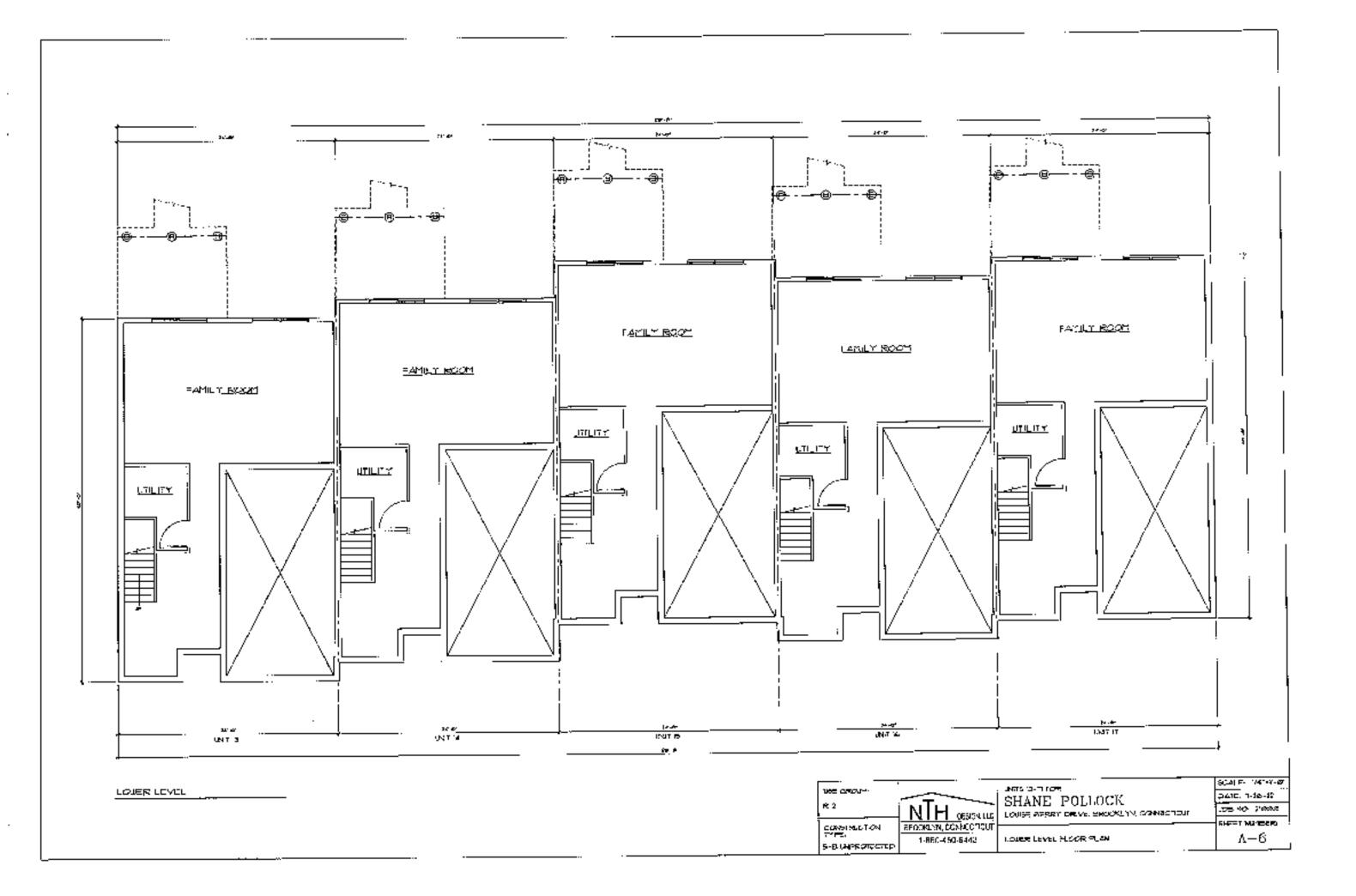


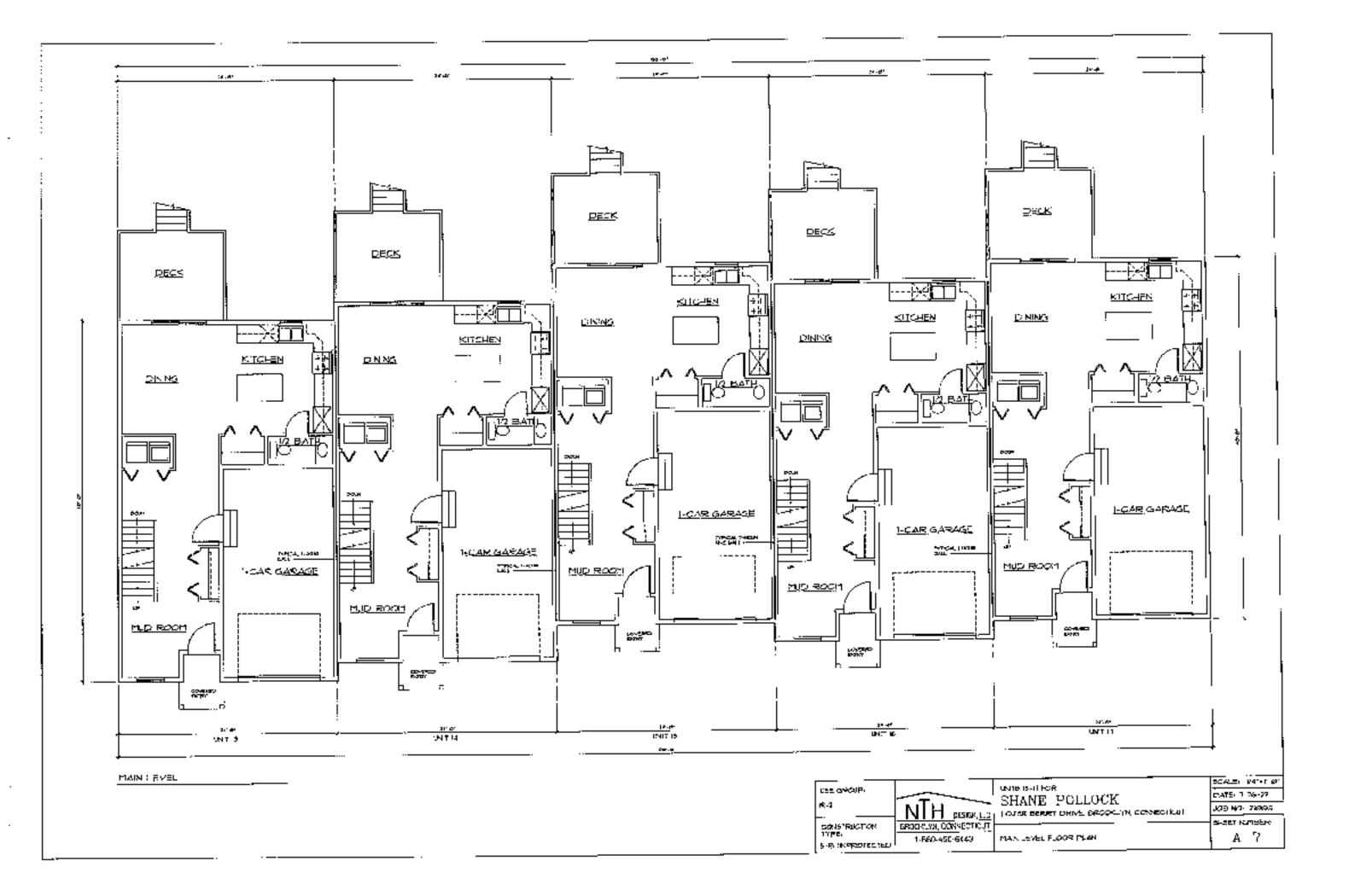


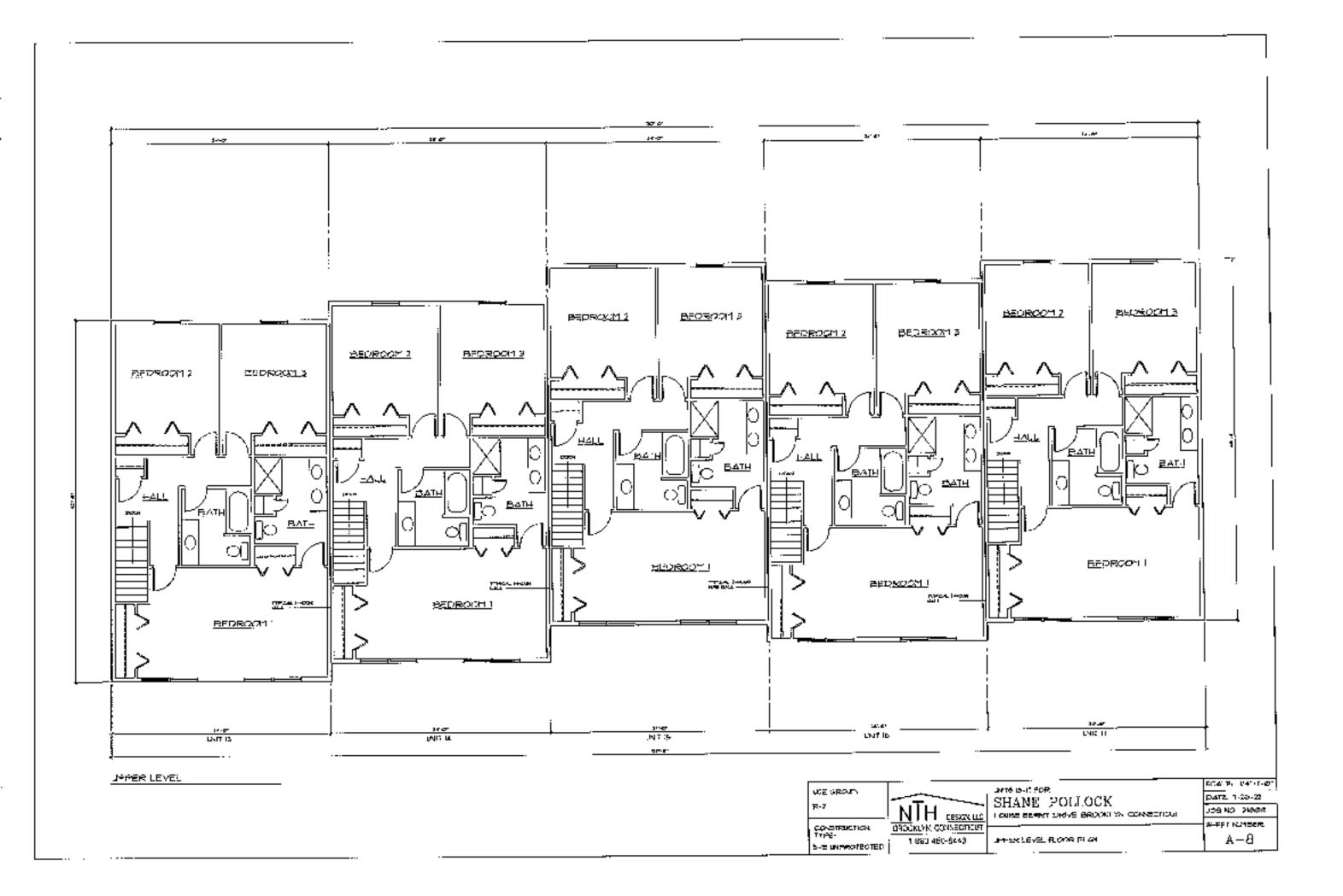








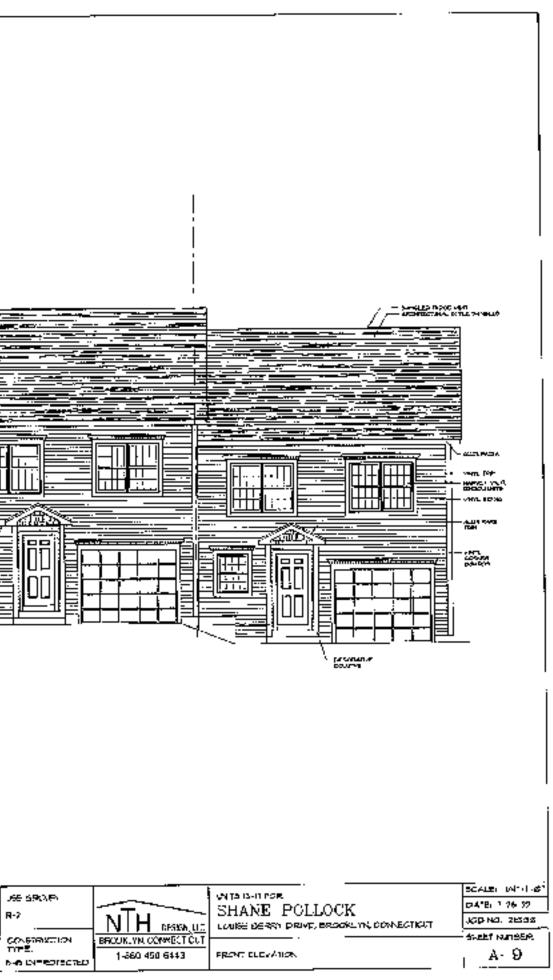


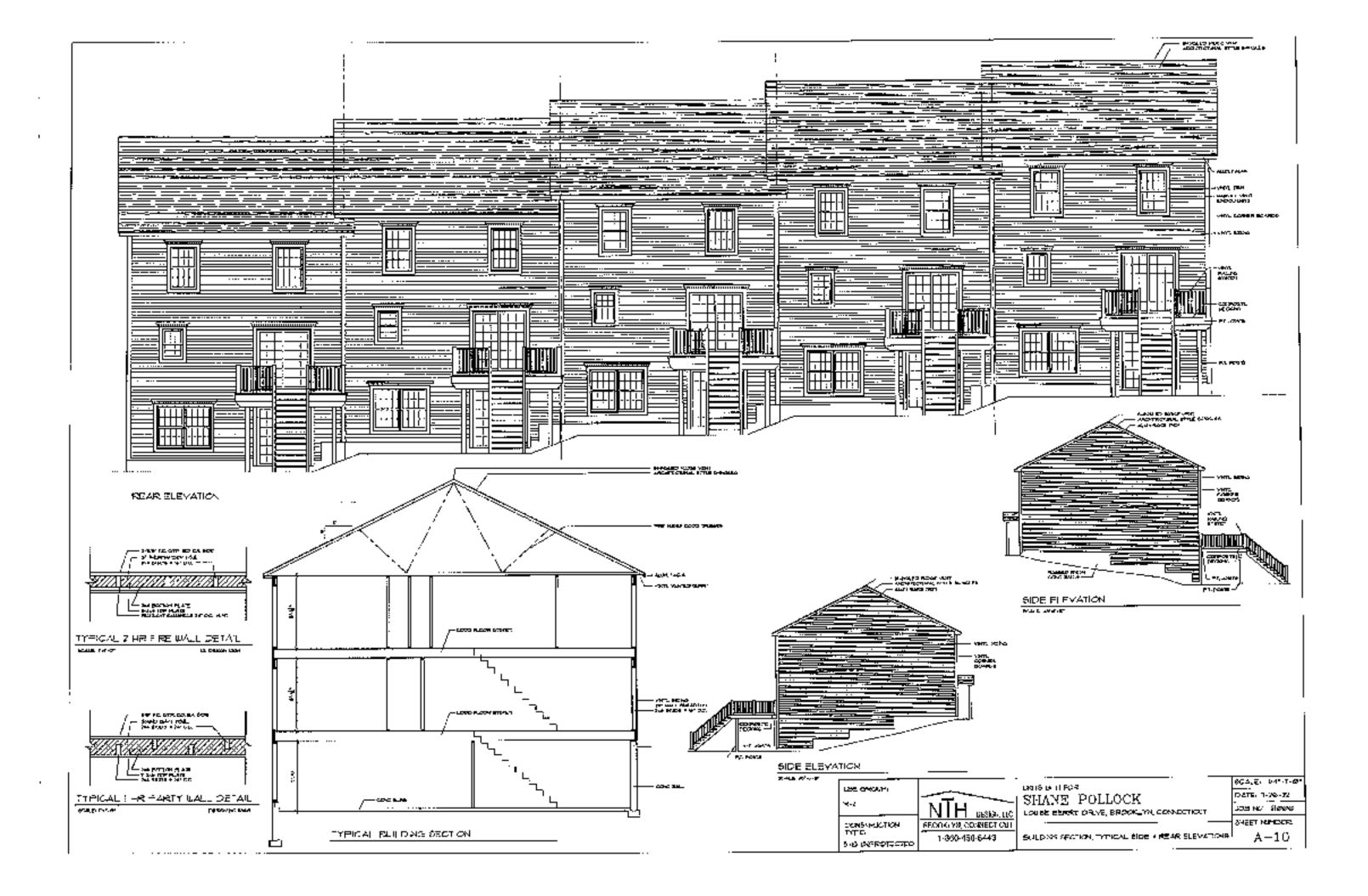


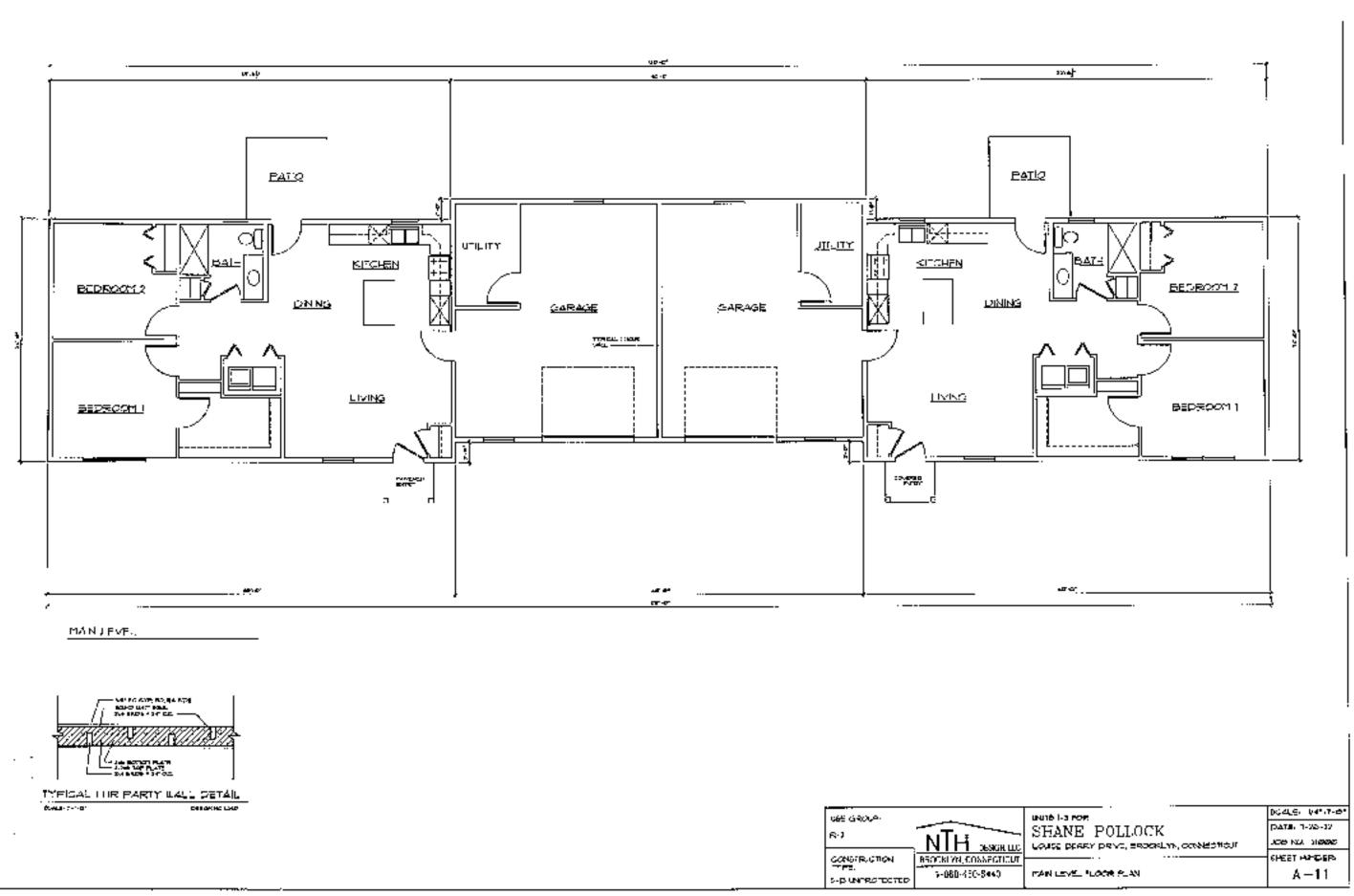


FRONT ELEVATION

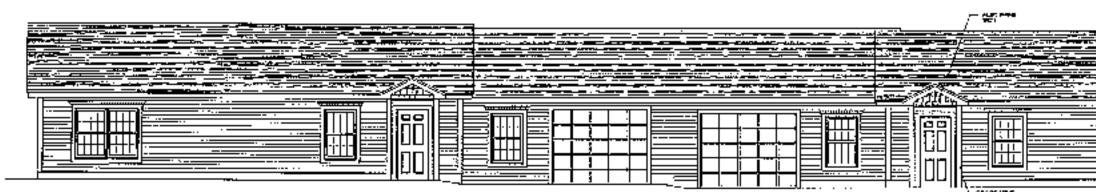
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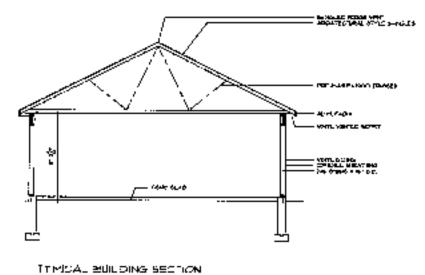


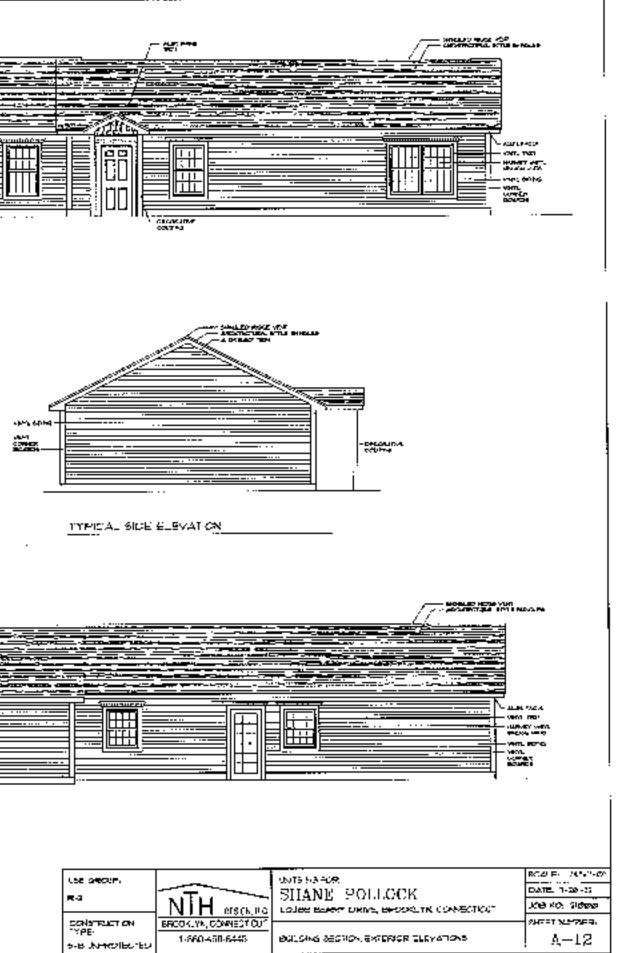


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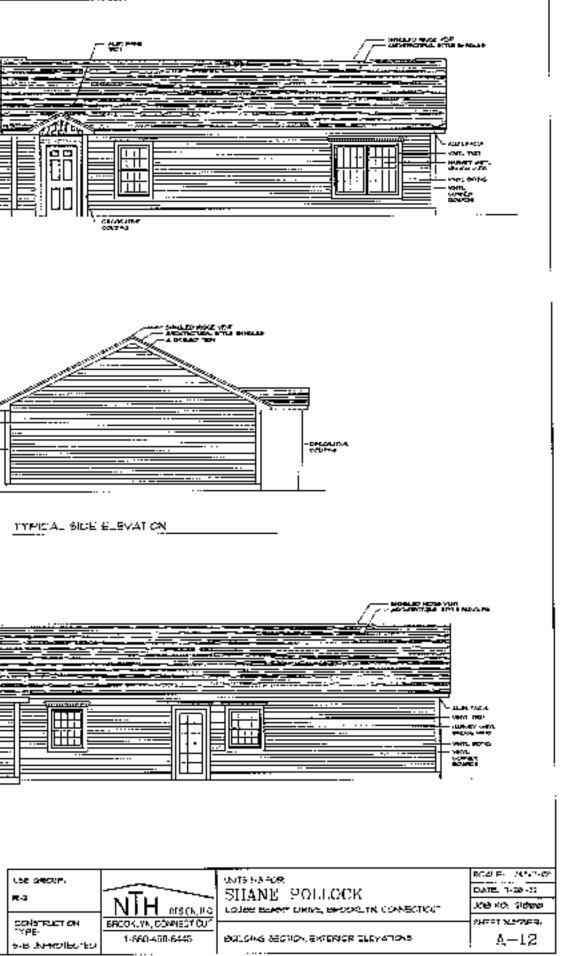
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Hesketh



Civil & Traffic Engineers + Surveyors + Planners + Landscape Architects

F. A. Hesketh & Associates, Inc.

November 30, 2022

Mr. Shane Pollock 101 Mackin Drive Griswold, CT 06351

RE: Proposed Residential Development Louise Berry Drive Brooklyn, Connecticut Our File # 21154

Dear Mr. Pollock:

Pursuant to your request our office has prepared this report to document our findings related to the potential traffic impact of a proposed 50-unit residential development located on Louise Berry Drive in the Town of Brooklyn, Connecticut. The site location is presented in Figure 1 with respect to the surrounding roadway network. This report presents our findings.

Site Plan

The site plan, prepared by Killingly Engineering Associates and dated April 23, 2020 and revised through August 29, 2022, shows 50 residential units with a total of 136 parking spaces. Access to the site is proposed from Louise Berry Drive at a point approximately 550 feet west of Gorman Road. The site access drive extends south into the site and then turns to the west extending a distance of approximately 900 feet, terminating in a cul-de-sac.

Description of Area

The site proposed for development is located on Louise Berry Drive. Louise Berry Drive is a local roadway that originates at an unsignalized intersection with Gorman Road and extends in a westerly direction approximately 600 feet, where it terminates in a parking lot for the Louise Berry elementary School. The roadway provides 22 feet of pavement with a single travel lane in each direction. The Louise Berry Drive approach to Gorman Road operates under stop-sign control.



3 Creamery Brook . East Granby, CT 06026

Cormen Road is a local roadway that originates at a T-intersection with Prince Hill Road and extends in a southerly direction past Louise Berry Drive and then continuing to its terminus at an unsignalized intersection with Route 205 and Baily Woods Road. The west approach of Prince Hill Road operates under stop-sign control. Gorman Road typically provides approximately 24 feet of pavement with a single travel lane in each direction separated by a double yelfow centerline. The posted speed limit is 25 miles per hour. Land use in the area is primarily residential. The Town of Brooklyn Elementary and Widdle Schools are located on the readway.

Current Traffic Volumes

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The Connecticut DOT maintains a traffic volume count program on all state highways and some local roadways. Included within the DOT database is a count conducted on Gorman Road located south of Prince Hill Road. The count was conducted during September 2019 and indicates Gorman Road carries an average daily traffic volume (ADT) of 2,000 vehicles with peak hour volumes of 345 vehicles during the a.m. peak hour (8:00 a.m.) and 309 vehicles during the p.m. peak hour (3:00 p.m.). The ConnDOT counts are presented in Table 1.

Manual turning movement counts were conducted during the morning and afternoon school peak hours on Tuesday September 21, 2021. Counts were not conducted during the afternoon commuter peak hour. To represent the afternoon commuter peak hours we have used the ConnDOT counts for Gorman Road and ITE trip generation data for the school for Louis Berry Drive. The ConnDOT Counts and turning movement counts are presented in Figure 2R-1 for Ihe morning and afternoon school peak hours as well as for the afternoon commuter peak hour.

in addition to the ConnDOT counts described above, our office has reviewed the files of OSTA and the Town of Brooklyn to determine if there have been any recent approvals or submissions that may have an impact on traffic volumes in the vicinity. It is our understanding that there are no such developments. Figure 2A presents the background traffic volumes for the morning and affernoon school peak hours as well as the afternoon commuter peak hour.

Site Generated Traffic

The proposat is to consist of a total of 50 residential units. To determine the tria generation for the proposed site, the Institute of Transportation Engineers (iTE) *Trip Generation* Report was

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consulted. *Trip Generation* presents trip generation estimates for many and uses based on counts conducted at existing facilities throughout the country. Included within the ITE catabase are several land uses that could be applicable to the proposed development. There are several land uses that could be applicable to the proposed development. Among them are: Land Use Code (LUC): 210 – Single Family Detached Housing; LUC 215 – Single Family Attached Housing; and LUC 220 – Multifamily Housing (Low rise). The report presents data based on the number of units. Trip generation was run for 50 units. Single Family Attached Housing returns the bighest trip generation. However, based on comments received from KHW Engineering related to the previous application, we have presented the trip generation for Multifamily Housing (Low Rise). Based on this methodology, the proposed 50-unit development has a trip generation school peak hour volume of 21 trips, and an effernoon commuter peak hour volume of 42 trips. The results are presented in Table 2R-1.

Table 2R-1 also presents the trip generation observed for the existing elementary and middle schools for the morning and afternoon school peak hours. This volume is the observed volume on Louise Berry Drive only, and those staff and/or parents that utilized that roadway. The table also presents the .TE Trip generation for the elementary school and middle school based on the, square footage and the number of students. The Town of Brocklyn Board of Education website indicates that the town has approximately 1,000 students. No information on how many students attend each of the schools. It is reasonable to assume that each school has 500 students. The Trip generation based on square footage, appears very high for the morning peak hour. The afternoon peak nour numbers appeared more reasonable. The trip generation based on the number of students appears to be more consistent with the observed volumes during a recent site counts. These volumes were used for the afternoon commuter peak hour volumes for Louis Berry Drive in Figure 2R-1.

The site generated traffic was then applied to the existing roadway network with a directional distribution of 70% oriented to and from the north along Gorman Road and 30% onented to and from the south along Gorman Road. 100% of the site generated traffic will enter the alte via a left-hand turn from Louise Berry Drive, and 100% will exit the site drive via right-hand turn. The

directional distribution is presented in Figure 3. Based on the directional distribution, the site generated traffic volumes for the morning peak hour are presented in Figure 4-R1. By adding these volumes to the background traffic volumes from Figure 2A, the combined traffic volumes, upon completion of the development, can be represented. The volumes present the combined traffic volumes as presented in Figure 5R-1.

Intersection Capacity

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To determine the impact of the site generated traffic on the existing roadway network, capacity analyses were conducted for the background and combined traffic volume conditions for the methoday and afternoon peak hours. The computer program SYNCHRO, which is based on the methodology in the Highway Capacity Manual, was utilized for this purpose. The general method determines now much of the capacity evailable for each movement is being utilized. This is converted into a cellay for each movement, and the delay is rated on a level of service (LOS) scale from A to F, with A being the best level of service with high delays. An analysis was completed for the unsignalized intersections of Gorman Road at Louise Berry Drive and for the proposed site driveway at Louise Berry Drive. The level of service results are summarized in Table 3R-1.

Gorman Road at Louise Berry Drive/Private - This is an existing un-signalized intersection with Gorman Road oriented in the north/south direction, Louise Berry Drive approaches from the west, and a private drive approaches from the east. Each approach provides a single lang. Louise Berry Drive and the private drive operate under stop-sign control. The analysis indicates that the northbound and southbound approaches operate at a LOS A during all peak hours under the background traffic volume conditions. The eastbound approach operates at a LOS 6 during the morning and afternoon peak hours and at a LOS A during the mic-day peak. With the introduction of the site generated traffic, the northbound and southbound approaches will continue to operate at a LOS A. The eastbound approach will operate at a LOS C during the morning and mid-day peak and at a LOS D during the afternoon peak hour, at a LOS A during the mid-day peak hour and at a LOS P during the afternoon peak hour. A peak hour factor of 0.25 was used for the Louise Berry Drive approach based on observations made during the morning peak hour count. This incidentes (hat

most traffic on that approach occurred during a single 15 - minute period. The calculated LOS describes that peak 15 - minute period. The Intersection LOS during the remaining 45 minutes would be likely be a LOS A for all approaches.

Louise Berry Drive at Site Driveway - This is a proposed un-signalized "T" intersection with Louise Berry Drive oriented in the east/west direction. The proposed site driveway approaches from the south. All approaches provide a single lane approach. The proposed site driveway will operate under stop sign control. An analysis indicates that all eastbound and westbound approaches will operate at a LOS A during peak hours. The site driveway approach will operate at a LOS B during the morning and mid day peak hour and at a LOS A during the afternoon peak hour. Again, this condition would last for only 15 minutes, with the remaining 45 minutes operating at a LOS A.

Site Driveway Location and Design

The proposed site driveway is located on Louise Serry Drive, approximately 550 feet west of Gorman Road. The proposed driveway will provide 26 feet of pavement with a single 13 'ool lane for both entering and exiting traffic. The driveway approach will operate under stop sign control. We recommend a 12° white stop bar and stop sign be installed on the site driveway. The available intersection signt distance, with some clearing of vegetation across the subject parcel, extends to the intersection of Gorman Road tooking to the right and to the end of the readway looking to the left. The available signt distance meets the current ConnDOT ortema for an approach speed more than 45 miles per hour. Loise Berry Drive is assumed to posted at 25 mph.

The site driveway is located opposite from an existing 12 space parking area for the Louise Berry Elementary School. The spaces are used by staff during school hours.

School Operations

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Observations of the school traffic patients were made during the morning peak hour count. Louise Berry Drive is used by staff and some parents for both entering and exiting traffic. Staff begin arriving at about 8:15 A.M. A significant proportion of parents enter the school grounds from one of the school's northerly driveways from Gorman Road. Those parents proceed

behind the school and queue along the east side of the parking tot, behind the school. Parents begin to line up starting at about 9:00. Students are not allowed to exit their vehicles until 9:15. A M, and the drop off period is completed by 9:30 A.M. Once a student has been dropped off, the parent exits the parking lot to Louise Berry Drive and then to Gorman Road. School buses do not use Louise Berry Drive. Although we did not review operations during the afternoon school beak period, we assume that the operation works in the same manner.

Since most people begin work by 9:09 a.m. and work umit 4:00 P.M., at a minimum, and the peak period of school activity on Louise Berry Drive coes not begin until 9:15 A.M. and likely ends by 4:00 P.M., the peak hours of the proposed residential development should not occur during the peak periods of the elementary school.

Accident Experience

The University of Connecticul gathers and complets treffic accident data for all state highways and some major local roadways. A list of accidents occurring in the area from October 1, 2019 through October 1, 2022 includes the most recent 3 years of available data. In the appendix are the UConn tables relating the accidents to various conditions including date, time, roadway and weather conditions, coll sion types, and other variables as well as a short description of each accident.

Accident records were obtained for the entirety of Gorman Road. In total four (4) accidents involving a total of eight (8) vehicles, occurred in the defined area over the past 3 years. Of those accidents, there were three rear end accidents and one fixed object accident. All accidents were listed as properly demage only. There were no reported fatal ties

Conclusion

Based on the available traffic volume data, the projected site generated traffic volumes and the analysis as cultimed in this report, it is our professional opinion that the traffic volumes associated with the proposed 50-unit residential development can readily be accommodated by the existing roadway network. The proposed site driveway is properly located with respect to acjacent intersections and with respect to available sight distances and are properly designed to

accommodate the anticipated driveway volumes. It is our opinion that the proposed development will not result in a detrimental impact to the health, safety and welfare of the general public.

We appreciate the opportunity to provide this analysis to you. We will be available to offer testimony in support of your application before local planning agencies upon your request. If you require additional information regarding this application, please do not hesitate to contact our office.

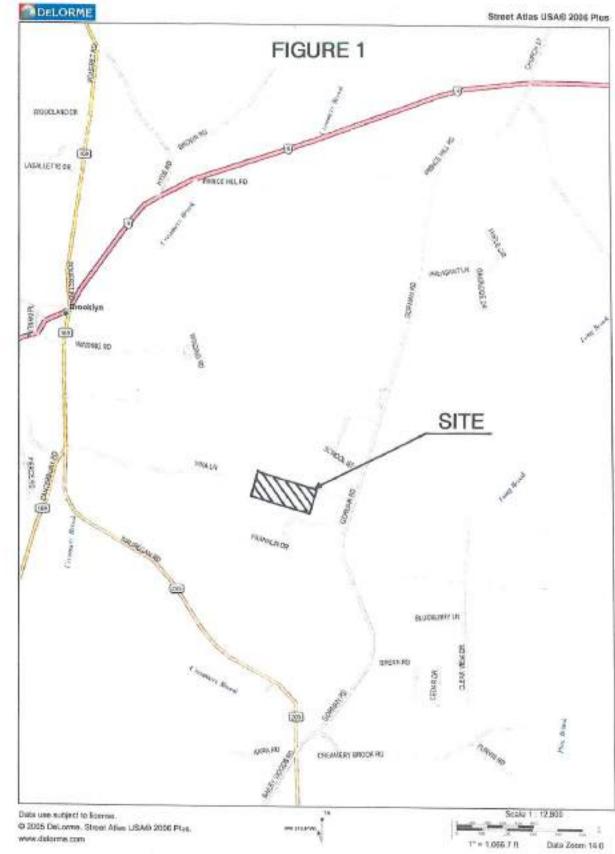
Very truly yours, F. A. Hesketh & Associates, Inc.

Scott F. Hesketh, P.E. Manager of Transportation Engineering

cc: Mr. Norm Thibault, Killingly Engineering

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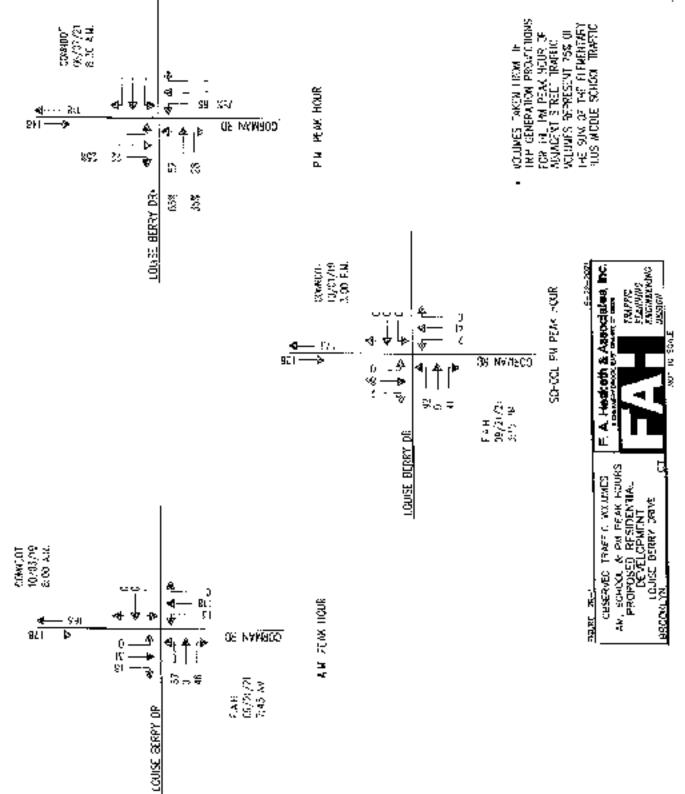
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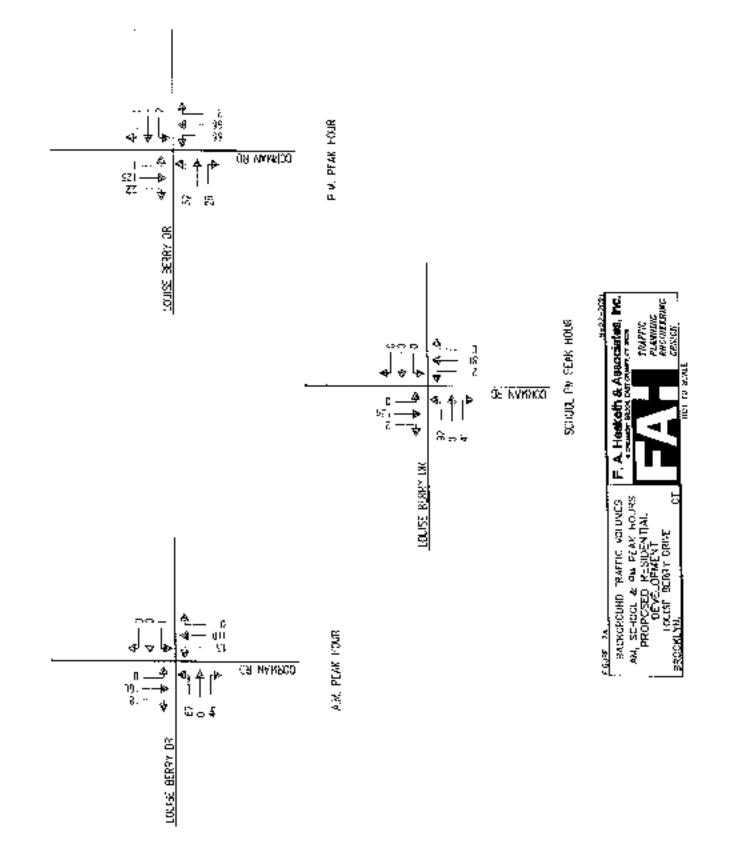
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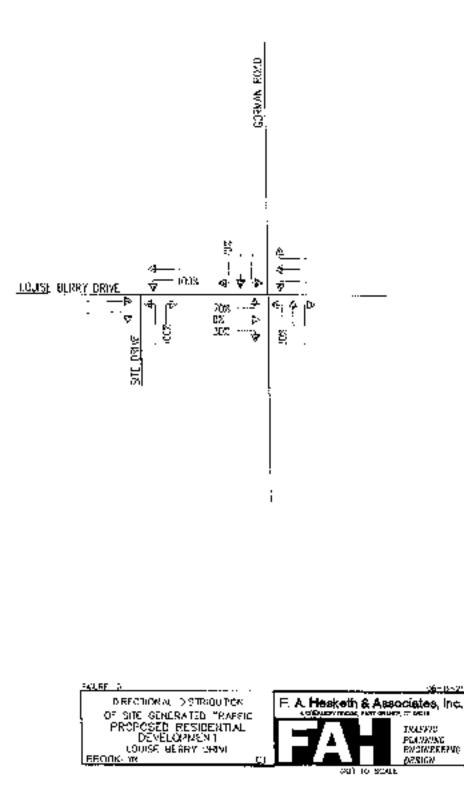
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School PM Peak hour volumes assumed to be \$0% of the PM Peak hour volume with a \$0/50 split.

.n - Observed volumes are those observed on upuis Berry Drive during the AM and PM school peak hours.



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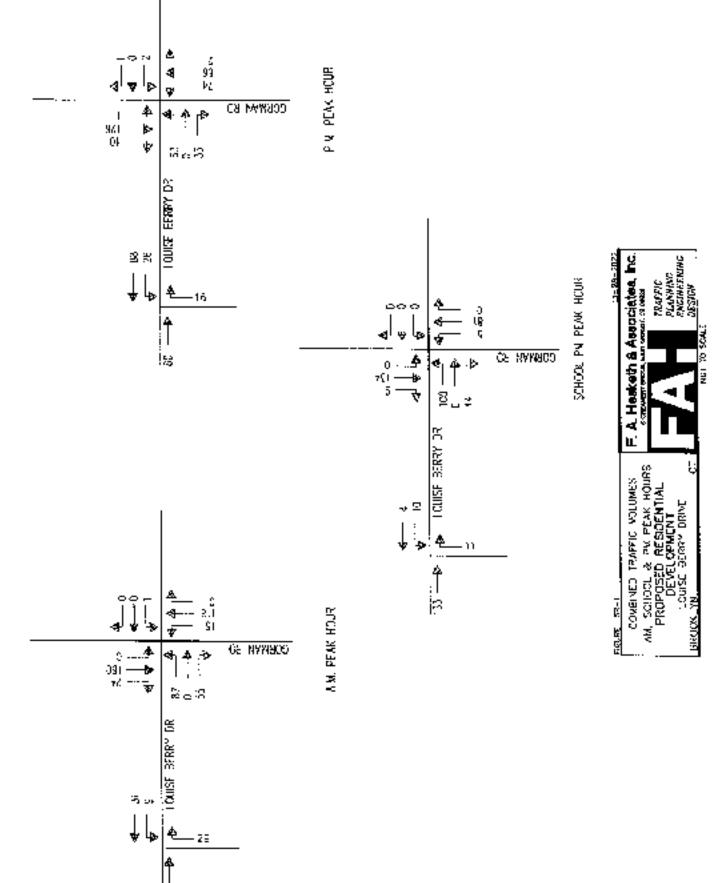
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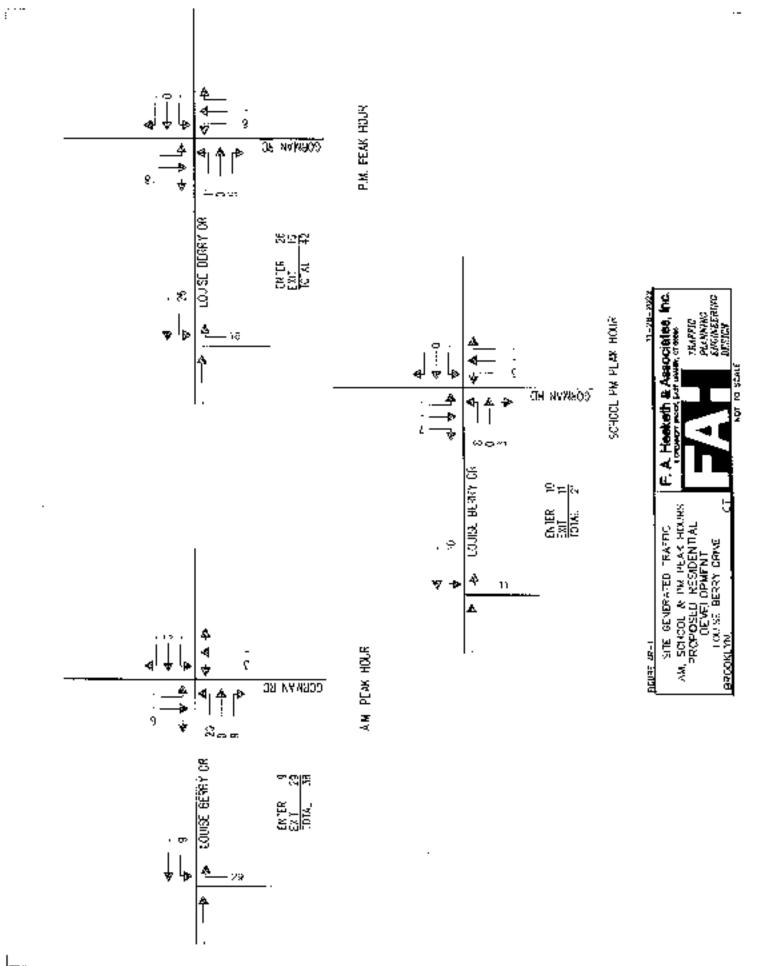
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Brooklyn School Drop Off / Pick Up

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Brooklyn Middle School Drop Off and Pick Up

	BMS Drop Off Pick Up Map Rey
Buses	Buses will drop off and pick up students at the elementary entrance loop. Middle school students will follow the sidewalk to the Maroon entrances listed on the map for their grade level. This is where they will enter the building in the morning and exit the building in the afternoon.
New Mar	Morring Drop Off
Middle School ONLY Drop Off	Cars will enter on the right hand side of the middle school entrance and follow traffic pattern (see map) When dropping off only a middle school student, you will drop off at the side of the gymnasium and exit out the main entrance to the middle school
Elementary and Middle Drop Off	Follow the same traffic flow as listed for Middle School only, go around the loop a second time to follow the driveway to the elementary school
	Afternoon Pick Up
M	 A. A. A. A. A. A. A. A. A. A. A. A. A. A
Middle School ONLY Pick Up	Following the same traffic pattern. Park in designated spots in the gymnasium parking lot and along the field.
Elementary and Middle Pick Up	Proceed to the back parking lot following the traffic pattern pull into the center parking area.



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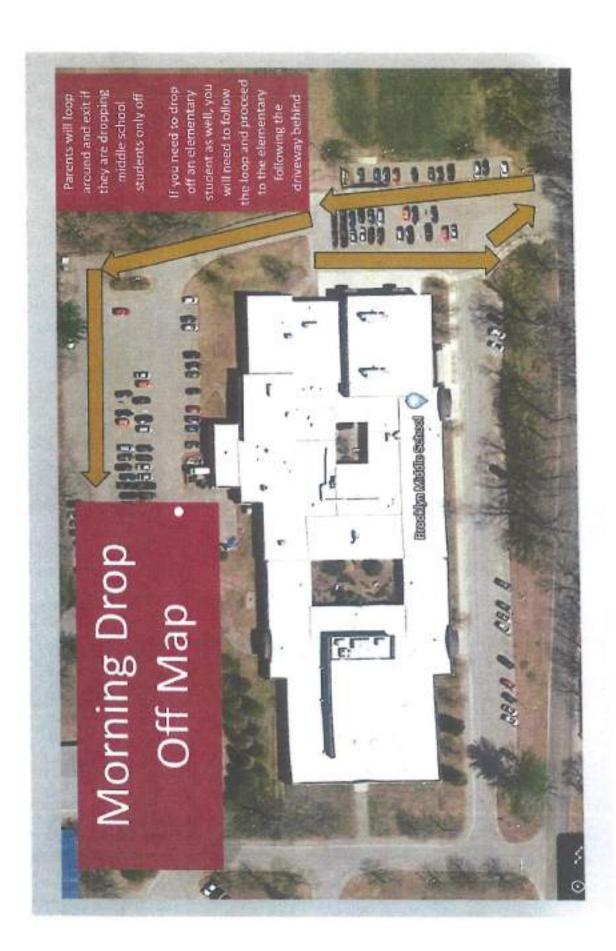
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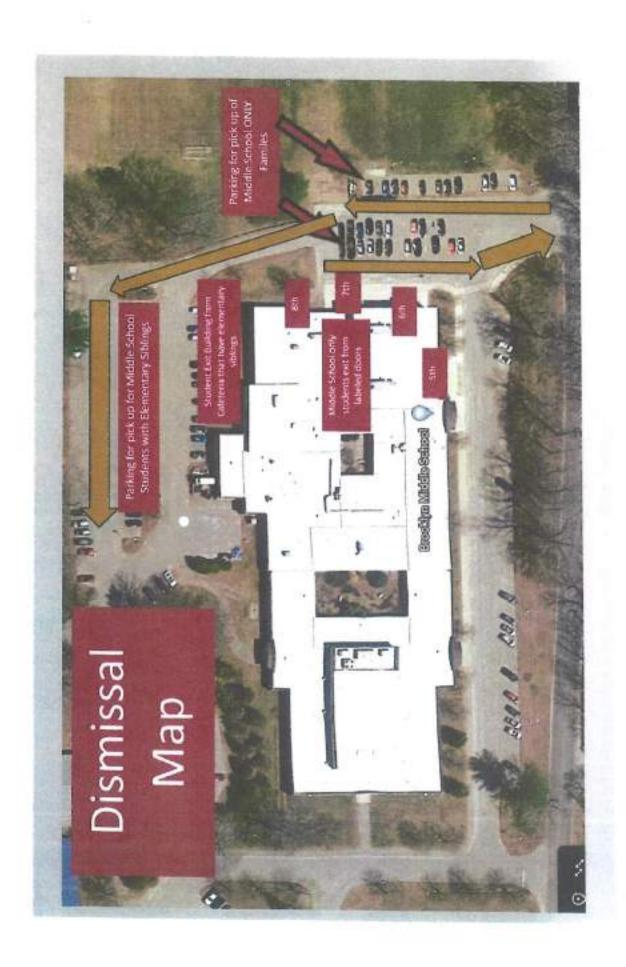
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100 1 10 1V	BES Drop Off/Pick Up Map Key
Buses	Buses will drop off and pick up students at the elementary entrance loop. Students will be escorted into and out of the building when their busses arrive. Students will have assigned seating that will be determined by the bus run. Siblings will be placed in seats together.
Contraction of the second	Moming Drop Off
Drop Off	Cars will enter on the right hand side of the middle school entrance and follow traffic pattern (see map) around to the back of the dementary school. Once around the back of the building, please stay to the left of the road.
Grade PreK, K, 1, 2 & 3	Similar to last year, continue to stay to the left of the road and follow the traffic pattern to the left of the back parking lot, alongside the building. Once you are directed, pleare have children exit the vehicle on the driver side of the vehicle. Remain in the line until the vehicle in front of you exits. This area is a no passing zone.
Grade 4 ONLY Drop off	Grade 4 students may be dropped off at the back of the elementary school where they will walk to the back entrance of the building. Please have children exit the vehicle on the driver side of the vehicle. Once a child has safely left the vehicle, grade 4 families may merge right and exit the parent drop off line.
	Afternoon Pick Up
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Pick Up	Cars will enter on the right hand side of the middle school entrance and follow traffic pattern (see map) around to the back of the elementary school. Once around the back of the building, please stay to the left of the road.
Grade PreK, K. 1, 2, & 3	Similar to last year, continue to stay to the left of the road and follow the traffic pattern to the back parking lot, alongside the building. Children will enter the vehicle on the driver side of the vehicle. Remain in the line until the vehicle in front of you exits. This area is a no passing zone.
Grade 4 ONLY Drop off	Grade 4 students may be picked up at the back of the elementary school where they will walk to the vehicles. Once a child has safely entered the vehicle, grade 4 families may merge right and exit the parent drop off-line.

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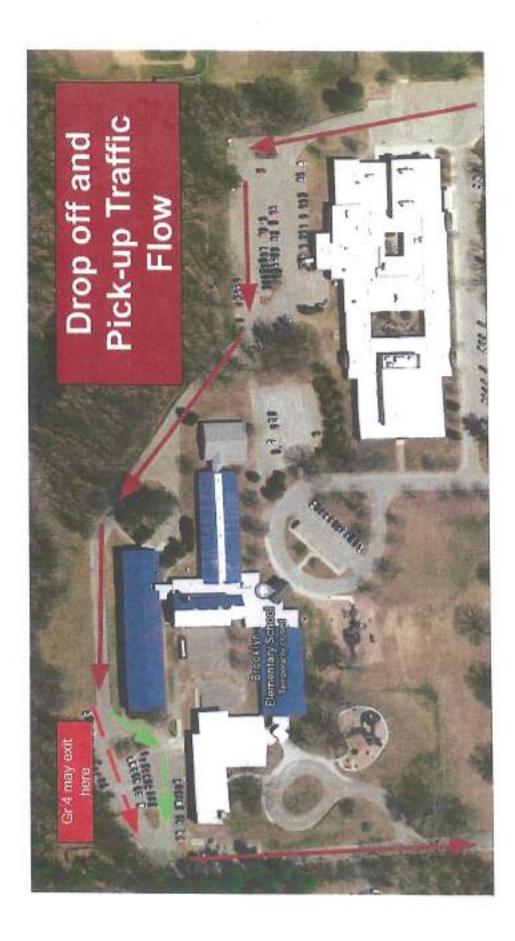
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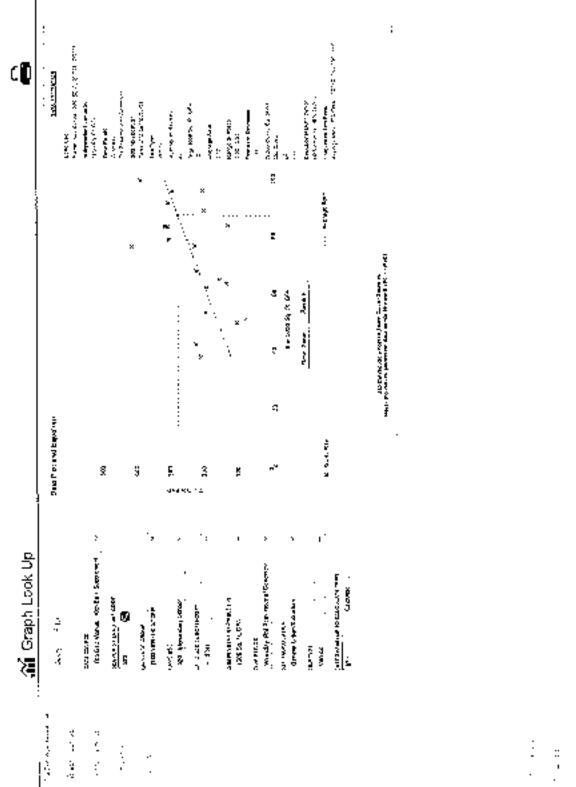
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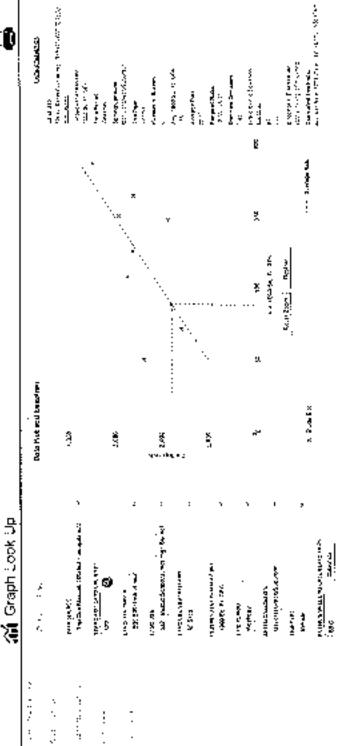
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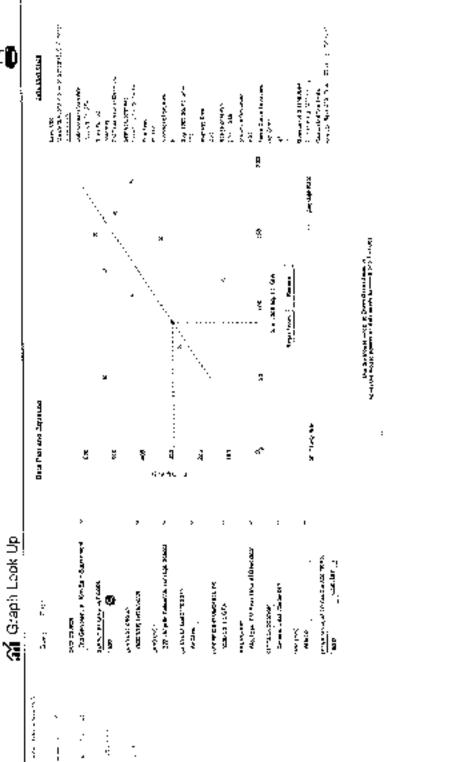
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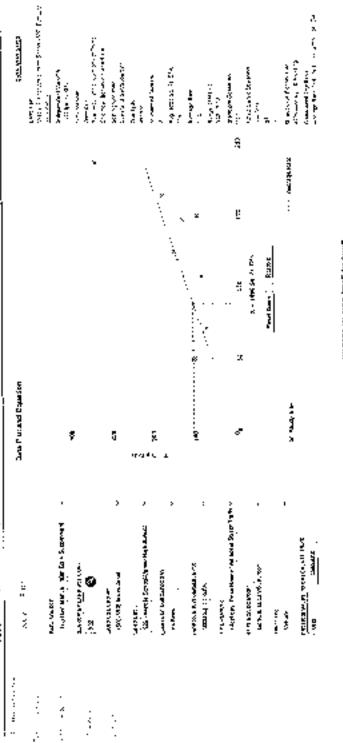
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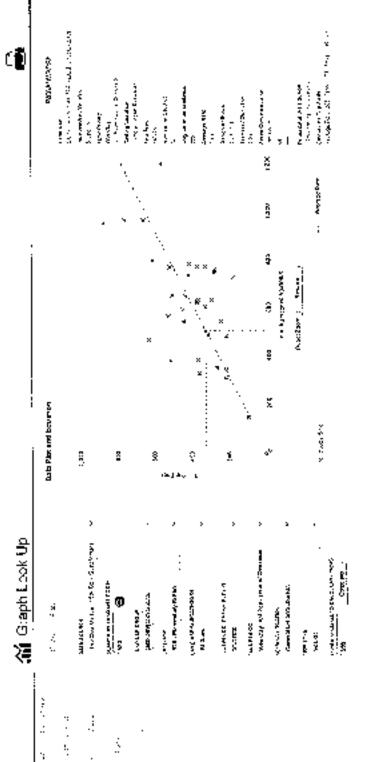
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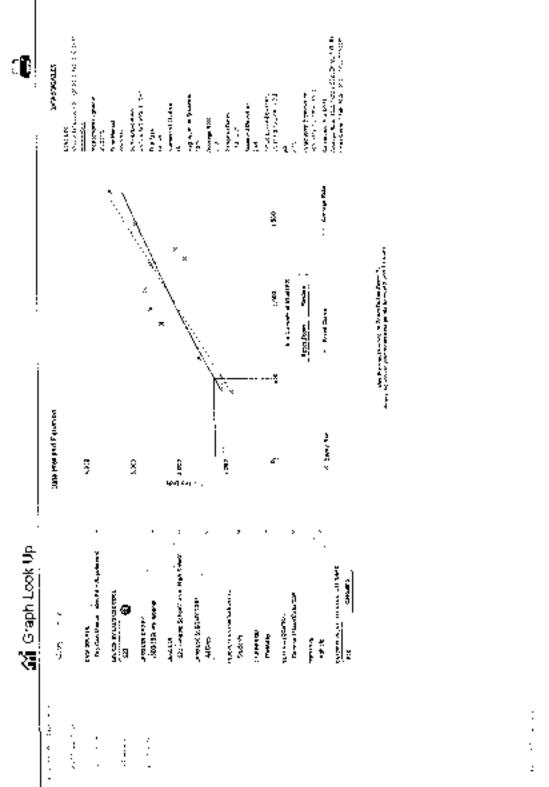
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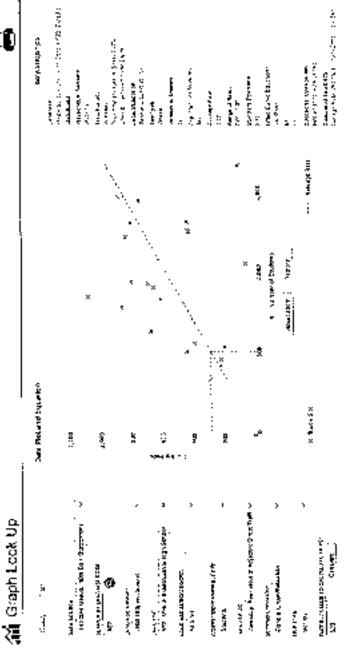
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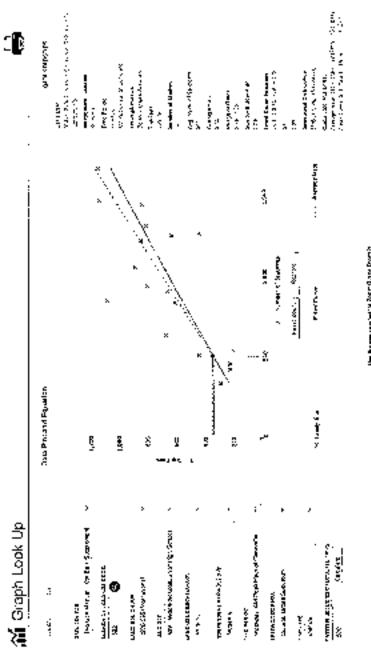
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SYNCHRO Capacity Analysis Worksheets

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HCM Unsignalized Intersection Capacity Analysis 3: Gorman Rd & Louise Berry Dr/Private Drive

Combined Traffic AM Peak Hour

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Movement	EBL	EBT	EBR	WBL	WBT	WER	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	and West	4			als.	10.4 2000		4			440	-
Traffic Volume (veh/h)	87	0	55	1	0	0	16	118	D	0	160	24
Future Volume (Veh/h)	87	0	55	1	0	0	16	118	0	0	160	24
Sign Control		Stop	0.4.6		Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.40	0.40	0.40	0.25	0.25	0.25	0.70	0.70	0.70	0.70	0.70	0.70
Hourly flow rate (vph)	218	0	138	4	0	0	23	169	0	0.10	229	34
Pedestrians			100			¥.:	44	Two:	0		440	- 04
Lane Width (ft)												
Walking Speed (tt/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			Maria	
Median storage veh)								NONE			None	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	461	461	246	500	170	4.00	000			100		
vC1, stage 1 conf vol	401	401	240	599	478	169	263			169		
vC2, stage 2 conf vol	40.0	104								10000		
vCu, unblocked vol	461	461	246	599	478	169	263			169		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	3121			4945								
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	67	100	83	99	100	100	98			100		
cM capacity (veh/h)	504	489	793	337	478	875	1301			1409		
Direction, Lene #	EB 1	WB1	NB1	SB 1		-	1.00					
Volume Total	356	4	192	263	_							
Volume Left	218	4	23	0								
Volume Right	138	0	0	34								
cSH	587	337	1301	1409								
Volume to Capacity	0.61	0.01	0.02	0.00								
Queue Length 95th (ft)	101	1	1	D.								
Control Delay (s)	20.1	15.8	1.1	0.0								
Lane LOS	C	C	A									
Approach Delay (s)	20.1	15.8	1.1	0.0								
Approach LOS	C	C	.4.4	0.0								
Intersection Summary					-							
Average Delay			9.1									-
Intersection Capacity Utilizatio	0		33.7%	K	ill evel	of Service	0		A			
Analysis Period (min)	1		15	N	and read	or order 1966			n			
and the course from the			10.									

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	->	Y	1	-	-	r
Movement.	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1			4	M	
Traffic Volume (veh/h)	113	0	9	31	0	29
Future Volume (Veh/h)	113	0	9	31	0	29
Sign Control	Free			Free	Stop	
Grade	0%			0%	0%	
Peak Hour Factor	0.40	0.40	0.40	0.40	0.75	0.75
Hourly flow rate (vph)	282	0	22	78	0	39
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type	None			None		
Median storage veh)	100000					
Upstream signal (ft)						
pX, platcon unblocked						
vC, conflicting volume			282		404	282
vC1, stage 1 conf vol						LOL
vC2, stage 2 conf vol						
vCu, unblocked vol			282		404	282
tC, single (s)			4.1		6.4	6.2
tC, 2 stage (s)			414:			0.2
IF (s)			2.2		3.5	3.3
pD queue free %			98		100	95
cM capacity (veh/h)			1280		592	757
					292	rər
Direction, Lane #	EB 1	WB 1	NB 1		-	
Volume Total	282	100	39			
Volume Left	0	22	0			
Volume Right	0	0	39			
cSH	1700	1280	767			
Volume to Capacity	0.17	0.02	0.05			
Queue Length 95th (ft)	0	1	4			
Control Delay (s)	0.0	1.8	10.0			
Lane LOS		A	В			
Approach Delay (s)	0.0	1.8	10.0			
Approach LOS			8			
Intersection Summary		-		10.00	-	
Average Delay			1.4			
Intersection Capacity Utiliza	tion		18.8%	R	CU Level	of Service
Analysis Period (min)			15		di	and the di

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	-
Traffic Volume (veh/h)	100	0	44	0	0	0	5	81	0	0	134	9
Future Volume (Veh/h)	100	0	44	0	0	0	5	81	0	0	134	9
Sign Control		Stop			Stop			Free		-	Free	-
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.40	0.40	0.40	0.25	0.25	D.25	0.65	0.65	0.65	0.65	0.65	0.65
Hourly flow rate (vph)	250	0	110	0	0	0	8	125	0	0	206	14
Pedestrians									-			114.5
Lane Width (fi)												
Walking Speed (it/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh)											ALC: NO.	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	354	354	213	464	361	125	220			125		
vC1, stage 1 conf vol			10000	0.0	100	200	Allot Ke					
vC2, stage 2 conf vol												
vCu, unblocked vol	354	354	213	464	361	125	220			125		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF(s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	58	100	87	100	100	100	99			100		
cM capacity (veh/h)	598	568	827	439	563	926	1349			1462		
Direction, Lane #	EB 1	WB 1	NB 1	SB 1		-		an out of				
Volume Total	360	0	133	220								
Volume Left	250	0	8	0								
Volume Right	110	0	0	14								
cSH	654	1700	1349	1462								
Volume to Capacity	0.55	0.00	0.01	0.00								
Queue Length 95th (ft)	84	0	0	0								
Control Delay (s)	17.1	0.0	0.5	0.0								
Lane LOS	C	A	A									
Approach Delay (s)	17.1	0.0	0.5	0.0								
Approach LOS	C	A		10. U								
Intersection Summary		Torona (a)	(Constant)		A second				1.200		-	
Average Delay			8.7									
Intersection Capacity Utilizatio	n		23.3%	K	CU Level	of Service			A			
Analysis Period (min)			15		a merel				.0			

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	->	V	*	-	1	1			
Movement	EBT	EBR	WBL	WET	NBL	NBR			
Lane Configurations	To			4	Y				
Traffic Volume (veh/h)	133	0	10	4	0	11			
Future Volume (Veh/h)	133	0	10	4	0	11			
Sign Control	Free	-		Free	Stop				
Grade	0%			0%	0%				
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92			
Hourly flow rate (vph)	145	0	11	4	0	12			
Pedestrians	1971	27				1.4			
Lane Width (ft)									
Walking Speed (ft/s)									
Percent Blockage									
Right turn flare (veh)									
Median type	None			None					
Median storage veh)	C CALLER -								
Upstream signal (ft)									
pX, platoon unblocked									
vC, conflicting volume			145		171	145			
vC1, stage 1 conf vol			110		14.1	144			
vC2, stage 2 conf vol									
vCu, unblocked vol			145		171	145			
IC, single (s)			4.1		6.4	6.2			
IC, 2 stage (s)			(20.1			(418),			
tF (s)			2.2		3.5	3.3			
p0 queue free %			99		100	99			
cM capacity (veh/h)			1437		813	902			
Direction, Lane #	EB 1	1440 4			919	-946			
the second second second second second second second second second second second second second second second se		WB 1	NB 1		1.1.1.1.1.1				
Volume Total	145	15	12						
Volume Left	0	11	0						
Volume Right	0	0	12						
cSH	1700	1437	902						
Volume to Capacity	0.09	0.01	0.01						
Queue Length 95th (II)	0	1	1						
Control Delay (s)	0.0	5.5	9.0						
Lane LOS		A.	A						
Approach Delay (s)	0.0	5.5	9.0						
Approach LOS			A						
Intersection Summary	1		10000	1 2 23	1.00	COLDES	a starting	and the second	177-0-0
Average Delay			. 1.1			- and the second		100	
Intersection Capacity Utilizati	юп		19.0%	10	CU Level	of Service		A	
Analysis Period (min)			15						

T:\PROJECT\2021\21154 - Brooklyn Housing\SYNCHRO\Town Reply\2022-11-28\School Comb.syn 11/28/2022 HCM Unsignalized Intersection Capacity Analysis 3: Gorman Rd & Louise Berry Dr/Private Drive

Combined Traffic PM Peak Hour

	1	->	¥	1	-	*	1	1	1	4	ţ	1
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBF
Lane Configurations		afa			4			40			40	anterior and the state
Traffic Volume (veh/h)	63	0	33	2	0	1	74	66	2	1	126	40
Future Volume (Veh/h)	63	0	33	2	0	1	74	66	2	1	126	40
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.25	0.25	0.25	0.92	0.92	0.92	0.75	0.75	0.75	0.75	0.75	0.75
Hourly flow rate (vph)	252	Q	132	2	0	1	99	88	3	1	168	53
Pedestrians											199	
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								None			None	
Median storage veh)								140110			Innuc	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	485	486	194	616	510	90	221			91		
vC1, stage 1 conf vol	400	400	104	010	210	au	221			31		
vC2, stage 2 conf vol												
vCu, unblocked vol	485	486	194	616	510	90	004					
	7.1	900 6.5	6.2			6.2	221			91		
tC, single (s)	1.1.	0.0	0.2	7.1	6.5	0.2	4.1			4.1		
tC, 2 stage (s)	25			25		4.4						
1F (8)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	46	100	84	99	100	100	93			100		
cM capacity (veh/h)	464	446	847	321	432	968	1348			1504		
Direction, Lane #	EB 1	WB1	NB 1	SB 1	1.016	-	-	14	1000			
Volume Total	384	3	190	222								
Volume Left	252	2	99	1								
Volume Right	132	1	3	53								
CSH	549	413	1348	1504								
Volume to Capacity	0.70	0.01	0.07	0.00								
Queue Length 95th (ft)	138	1	6	0								
Control Delay (s)	25.4	13.8	4.4	0.0								
Lane LOS	D	В	A	A								
Approach Delay (s)	25.4	13.8	4.4	0.0								
Approach LOS	D	В		100								
Intersection Summary	-							-				-
Average Delay			13.3								-	-
Intersection Capacity Utilizatio	0		33.2%	1	laug IL	of Service			A			
Analysis Period (min)			15		and the state				-0			

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	->	>	*	-	1	1			
Movement	EBT	EBR	WBL	WBT	NBL	NBR			
Lane Configurations	10			4	Y				
Traffic Volume (veh/h)	80	0	25	88	0	16			
Future Volume (Veh/h)	80	0	26	88	0	16			
Sign Control	Free			Free	Stop				
Grade	0%			056	0%				
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92			
Hourly flow rate (vph)	87	0	28	96	0	17			
Pedestrians									
Lane Width (ff)									
Walking Speed (ft/s)									
Percent Blockage									
Right turn flare (veh)									
Median type	None			None					
Median storage veh)	There .			110116					
Upstream signal (ft)									
pX, platoon unblocked									
vC, conflicting volume			87		239	87			
vC1, stage 1 conf vol			- Of		2.39	01			
vC2, stage 2 conf vol									
vCu, unblocked vol			87		239	87			
IC, single (s)			4.1		6.4	6.2			
tC, 2 stage (s)			.4.1		0.4	0.2			
(5, 2 stage (5) (F (5)			2.2			2.2			
			98		3.5	3.3			
p0 queue free %					100	98			
cM capacity (veh/h)			1509		735	971			
Direction, Lane #	EB 1	WB1	NB1	a it is a	and the second			112 3	and the second second
Volume Total	87	124	17						
Volume Left	0	28	0						
Volume Right	0	0	17						
cSH	1700	1509	971						
Volume to Capacity	0.05	0.02	0.02						
Queue Length 95(h (ft)	0	1	1						
Control Delay (s)	0.0	1.8	8.8						
Lane LOS		A	A						
Approach Delay (s)	0.0	1.8	8.8						
Approach LOS		1.00	A						
Intersection Summary	and the second								
Average Delay		1	1.6				-		
Intersection Capacity Utiliz	ation		22.7%	16	CU Level	of Service		A	
Analysis Period (min)			15		CO. COTO	0. 00 fint			
madage s anag friend			104						

UCONN Crash Data

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October 1, 2019 through Octber 1, 2022 Gorman Road Accident data Town of Brooklyn

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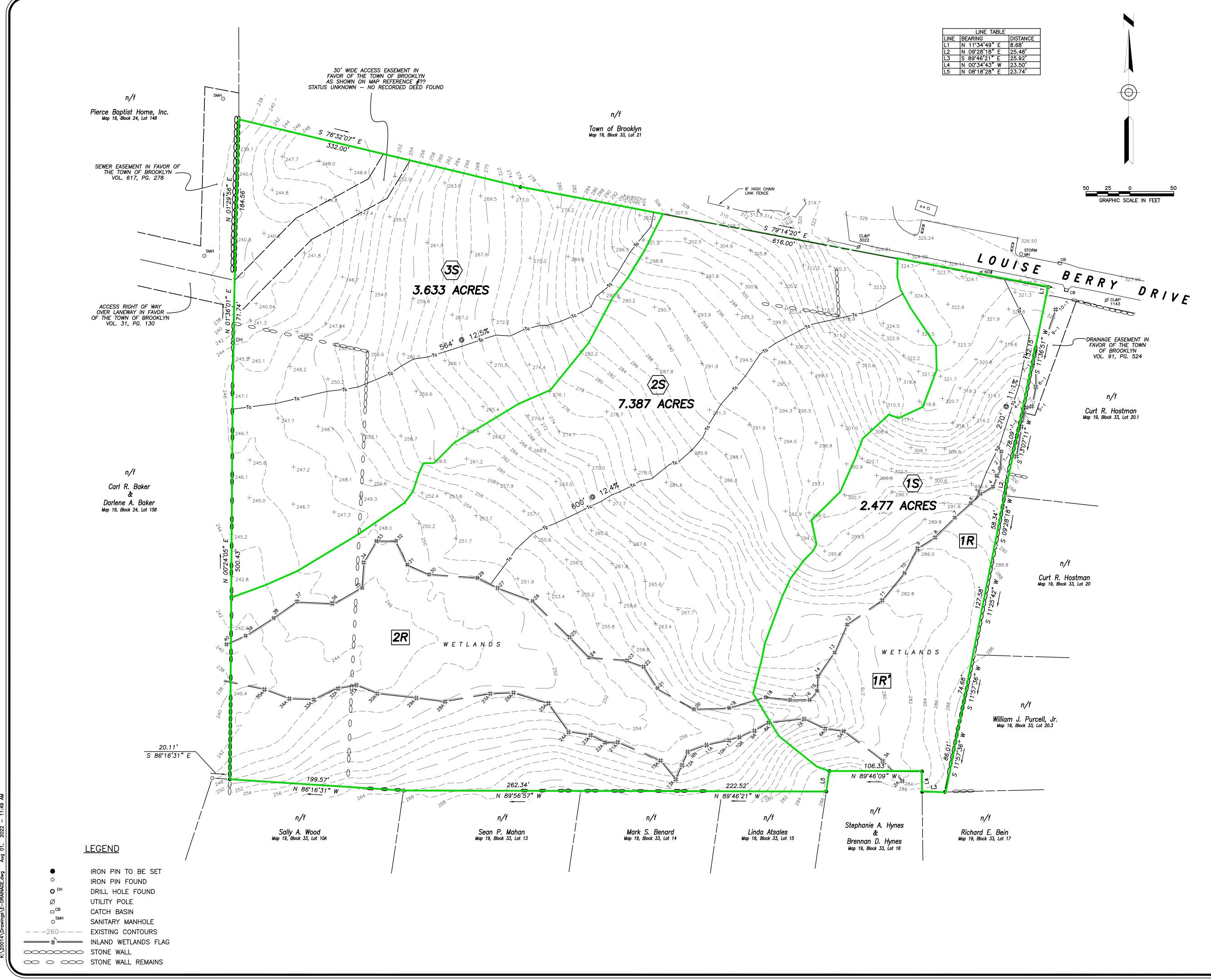
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Distance 50	511	F	Road Surface Dry	Wet Dec
Landmark Description Brooklyn Elenr Schoo	Prince Hill Rd SCHOOL ST	School St	Light Condition Dryllghr	Devlight Coulors
Milemarker R.ys	1.48 0.73	<u>50.0</u>	Weather C ond Clear	Snow
No of Veh 3	7 7	2	Monner of Crash Front to rear	Not Applicable
Crash Severity Prop Damage Only	Prop Damage On γ Prop Damage Only	Prop Damage Only	First Harmful Event Other Venicle	Grendrail Fuce
Time 8:45 AIV	S:00 PM 3:53 PM	6.27 PM	Direction N	s
Bay of Work Thurscoy	Friday Monday	rsi day	U nit Feet	⊦eet
	10/30/2020 9/5/2021		Distance 50	511
Crashid 633951	75292£ 854867	041096	Çrashld 633951	152928

Crashld	Distance	Unit	Direction	First Karmful Event	Munner of Crash	Weather Cond	Light Condition	Road Surface
633951	53	Feet	z	Other Venicle	Front to rear	Clear	Daylight	Dry
152928	5TT	heet	s	Grandrail Face	Not Applicable	Snow	26ylight	Wet
854857				Other Vehicle	Front to rear	Ciear	Onylight	0-Y
541996	ч	Tenths	Z	Other Vohicle	Hront to rear	C-ear	Dusk	Dry



08/24/2020 PER TOWN REVIEW DATE DESCRIPTION REVISIONS

EXISTING DRAINAGE AREAS

PREPARED FOR

SHANE POLLOCK

LOUISE BERRY DRIVE BROOKLYN, CONNECTICUT

Killingly Engineering Associates Civil Engineering & Surveying

> 114 Westcott Road P.O. Box 421 Killingly, Connecticut 06241 (860) 779-7299 www.killinglyengineering.com

DATE: 4/23/2020	DRAWN: NET
SCALE: 1" = 50'	DESIGN: NET
SHEET: 1 OF 2	СНК ВҮ:
DWG. No: CLIENT FILE	JOB No: 20014



(20014\Drawings\P_DRAINAGE.dwg Aug 01, 2022 - 11:48

DRAINAGE REPORT

Prepared for

PROPOSED MULTI-FAMILY DEVELOPMENT LOUISE BERRY DRIVE BROOKLYN, CT

July 2022

Prepared for

Shane Pollock

Prepared by

Killingly Engineering Associates

Normand Thibeault Jr., P.E. CT License #22834

Introduction

Shane Pollock & Erin F Mancuso have submitted a proposal to the Tow of Brooklyn to construct a 50-unit condominium development with access from Louise Berry Drive in Brooklyn. The project will require construction of a 1000-foot-long paved private roadway with a cul-de-sac turnaround and public water and sanitary sewer. The original design for the property consisted of 100 units. The current design results in the creation of impervious surfaces consisting of pavement and roof but is a significant reduction then the original design. The current stormwater management design has been prepared in response to and in conjunction with Steven Trinkaus, P.E., a drainage consultant retained by the Town of Brooklyn to review the project.

Summary

According to the USDA-NRCS Soil Survey, the area of disturbance consists of Canton and Charlton fine sandy loams and the wetlands consist of Ridgebury, Leicester and Whitman soils. A walk of the property and wetlands delineation by Joseph Theroux verify that these descriptions are accurate. These soils are associated with hydrologic soil group B & D. The site sheet flows primarily to the south to a linear wetlands system before flowing to the west and ultimately off site. To the greatest degree possible, the existing drainage patterns will be preserved.

The bulk of the drainage from developed areas will be directed to two (2) separate stormwater basins with forebays. The first basin is centrally located on the site and will collect drainage from approximately 400ø of the proposed roadway and three (3) of the building rooftops. This basin will discharge to a wet swale prior to flowing to the wetlands. The discharge from this basin ultimately flows to the on-site wetlands at approximately the midpoint of the wetlands system which addresses previous concerns of recharge to the wetlands. The second basin and forebay collects drainage from the remainder of the roadway and buildings and discharges at the terminus of the on-site wetlands.

The calculations utilized HydroCAD® Stormwater Modeling System, a computer model, to analyze pre-and post-development drainage conditions, and to aid in the design of the stormwater detention system. The model used the Soil Conservation Service TR-20 method with a Type III 24-hour rainfall to calculate the runoff. The 2 through 100-year frequency storms were analyzed to evaluate peak runoff for conditions with grassed and stone dust parking. Table 1 summarizes our findings; all peaks have been rounded to the nearest 0.1.

	i asscu i ai kii	ig vs. stone Du	st I al king I cak	Kulloll Kates
Design Storm	Depth (in)	Existing Peak	Proposed Peak	Difference
2-Year	3.37	3.7 CFS	3.6 CFS	-0.1 CFS
5-Year	4.28	8.6 CFS	8.3 CFS	-0.3 CFS
10-Year	5.04	13.5 CFS	13.2 CFS	-0.3 CFS
25-Year	6.08	20.7 CFS	19.6 CFS	-1.1 CFS
50-Year	6.85	26.5 CFS	25.7 CFS	-0.8 CFS
100-Year	7.68	33.5 CFS	33.1 CFS	-0.4 CFS

 Table 1. Grassed Parking vs. Stone Dust Parking Peak Runoff Rates

As seen by the computations, there are slight decreases in runoff rates for all design storms. It is important to note that for post-construction conditions, we have conservatively modeled the post construction soils as hydrologic soil group õCö.

In addition to addressing pre- and post-construction peak runoff rates from the property to the wetlands and adjacent property, the design considers stormwater treatment and water quality for the project. Wherever possible, overland sheet flow is encouraged, catch basins will be constructed with sediment sumps, the final catch basin prior to discharge to the terminus stormwater basin will be fitted with a hooded outlet and the stormwater basins account for water quality volume (WQV).

Per Chapter 7 of the Connecticut DEEP Stormwater Quality Manual

Section 7.4.1 Water Quality Volume

Basin 1 Water Quality Volume (WQV)

 $WQV = (1\ddot{o})(R)(A)/12$ R = 0.05 + 0.009(I) I = % Impervious = 32.67% R = 0.05 + 0.009(32.67) = 0.344 A = 1.383 acres WQV = (1 \ddot{o}) (0.344) (1.383) / 12 = 0.04 ac-ft = 1,728 c.f. 3,023 c.f. provided to elevation 285.0

Basin 2 Water Quality Volume

 $WQV = (1\ddot{o})(R)(A)/12$

R = 0.05 + 0.009(I) I = % Impervious = 43.44%

R = 0.05 + 0.009(43.44) = 0.391

A = 4.169 acres

WQV = (1 \ddot{o}) (0.91) (4.169) / 12 = 0.317 ac-ft = 13,771 c.f.

9,375 c.f. provided in forebay & 5,230 to elevation 285.5 in main basin = 14,605 c.f.

Section 7.4.2 Water Quality Flow

This section is utilized for treatment mechanisms such as grasses swales or proprietary treatment devices. Although the project calls for a wet swale from the first stormwater basin, the swale will not convey runoff directly from impervious surfaces.

Section 7.5.1 Groundwater Recharge Volume

Per review of the project drainage by Mr. Trinkaus, it was determined that groundwater recharge volume was not an appropriate application for the site. The Water Quality Volume and Channel protection volume (first 1.5ö of rain) have been accounted for based upon consultation with Mr. Trinkaus.

Section 7.5.2 Runoff Capture Volume (RCV)

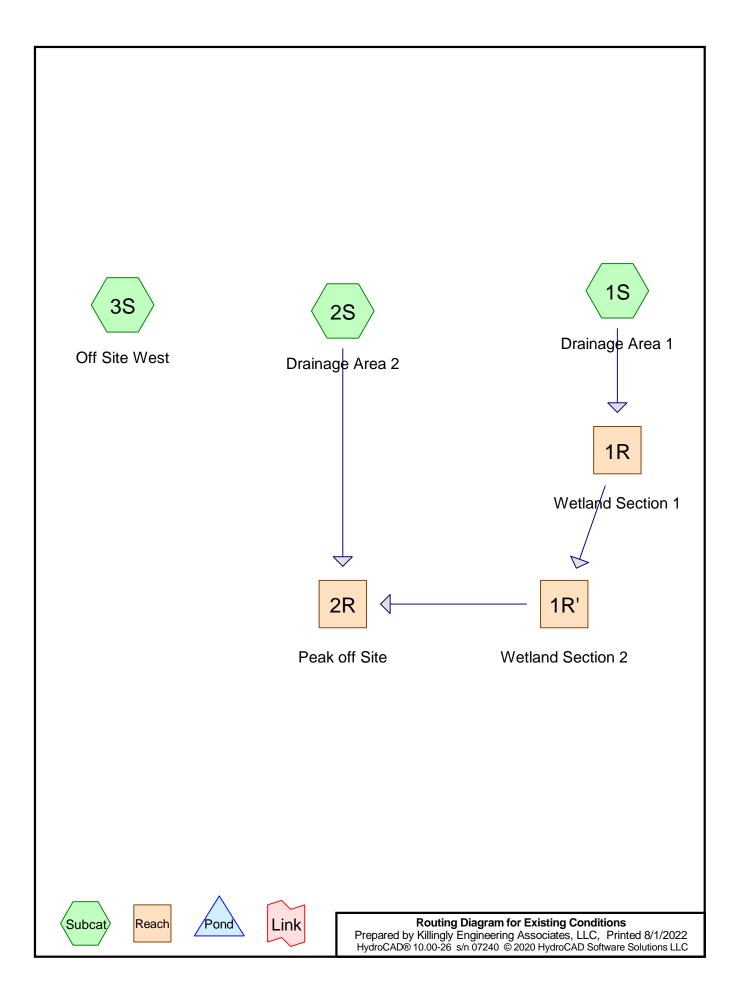
Not utilized for this application. This method is typically utilized to capture õcleanö runoff from surfaces such as rooftops and infiltrate it into the soil.

Section 7.6 Peak Flow Control

We have demonstrated that peak flows from the development will be slightly reduced for all design storms.

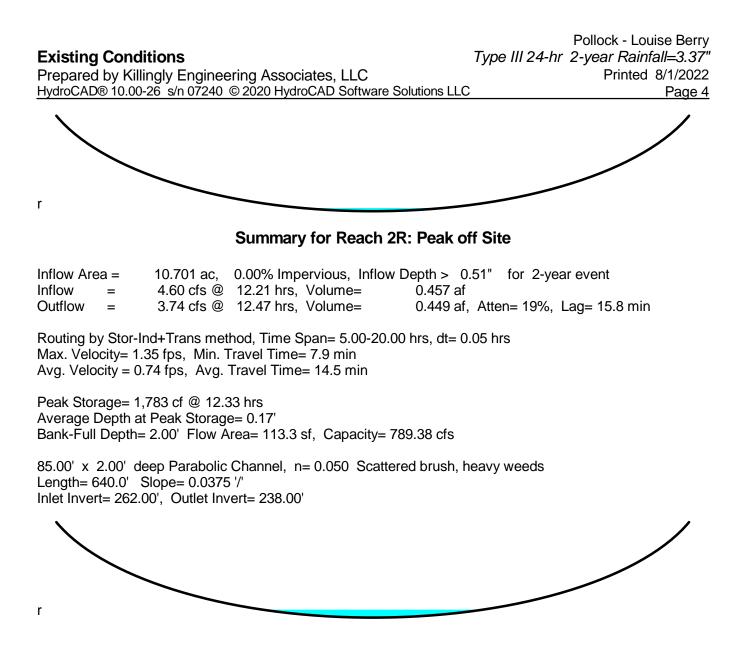
HYDROCAD CALCULATIONS

EXISTING CONDITIONS



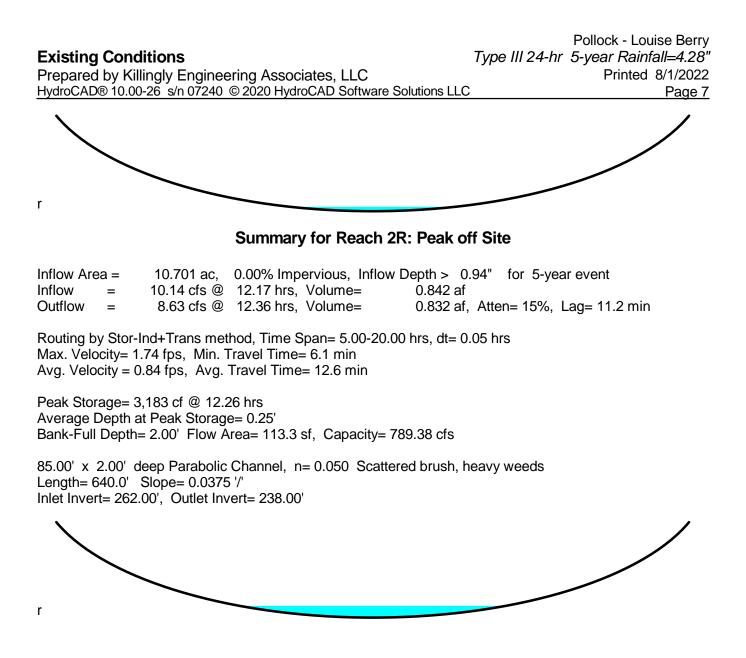
Existing ConditionsPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCType III 24-hrHydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022Prepared by Killingly Engineering Associates, LLCPrinted 8/1/2022
Summary for Subcatchment 1S: Drainage Area 1
Runoff = 1.99 cfs @ 12.10 hrs, Volume= 0.157 af, Depth> 0.57"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"
Area (ac) CN Description
0.930 73 Woods, Fair, HSG C 2.384 60 Woods, Fair, HSG B
3.31464Weighted Average3.314100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
5.2 270 0.1110 0.86 Lag/CN Method, Tc 1
Summary for Subcatchment 2S: Drainage Area 2
Runoff = 2.94 cfs @ 12.18 hrs, Volume= 0.301 af, Depth> 0.49"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"
Area (ac) CN Description
1.41873Woods, Fair, HSG C5.96960Woods, Fair, HSG B
7.387 62 Weighted Average
7.387 100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
9.9 600 0.1240 1.01 Lag/CN Method, Tc-2
Summary for Subcatchment 3S: Off Site West
Runoff = 3.36 cfs @ 12.12 hrs, Volume= 0.254 af, Depth> 0.84"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"
Area (ac) CN Description
3.633 70 Woods, Good, HSG C
3.633 100.00% Pervious Area

Existing ConditionsPollock - Louise BerryFrepared by Killingly Engineering Associates, LLCType III 24-hrHydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022Prepared by Killingly Engineering Associates, LLCPrinted 8/1/2022
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
7.6 564 0.1250 1.24 Lag/CN Method, Tc-3
Summary for Reach 1R: Wetland Section 1
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 0.57" for 2-year event Inflow = 1.99 cfs @ 12.10 hrs, Volume= 0.157 af Outflow = 1.75 cfs @ 12.21 hrs, Volume= 0.156 af, Atten= 12%, Lag= 6.5 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.15 fps, Min. Travel Time= 3.5 min Avg. Velocity = 0.58 fps, Avg. Travel Time= 6.9 min
Peak Storage= 371 cf @ 12.15 hrs Average Depth at Peak Storage= 0.09' Bank-Full Depth= 2.00' Flow Area= 173.3 sf, Capacity= 1,610.63 cfs
130.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 240.0' Slope= 0.0667 '/' Inlet Invert= 296.00', Outlet Invert= 280.00'
Summary for Reach 1R': Wetland Section 2
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 0.57" for 2-year event Inflow = 1.75 cfs @ 12.21 hrs, Volume= 0.156 af Outflow = 1.72 cfs @ 12.22 hrs, Volume= 0.156 af, Atten= 2%, Lag= 0.7 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 5.19 fps, Min. Travel Time= 0.5 min Avg. Velocity = 2.70 fps, Avg. Travel Time= 0.9 min
Peak Storage= 49 cf @ 12.21 hrs Average Depth at Peak Storage= 0.07' Bank-Full Depth= 2.00' Flow Area= 53.3 sf, Capacity= 2,590.64 cfs
40.00' x 2.00' deep Parabolic Channel, n= 0.013 Asphalt, smooth Length= 145.0' Slope= 0.1241 '/' Inlet Invert= 280.00', Outlet Invert= 262.00'



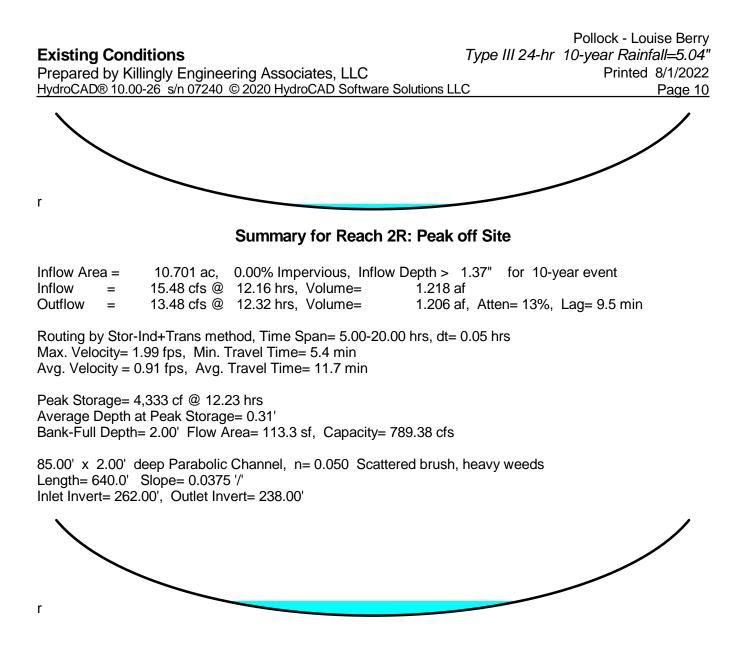
Existing ConditionsPollock - Louise BerryFrepared by Killingly Engineering Associates, LLCType III 24-hrHydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022Prepared by Killingly Engineering Associates, LLCPrinted 8/1/2022							
Summary for Subcatchment 1S: Drainage Area 1							
Runoff = 4.00 cfs @ 12.09 hrs, Volume= 0.283 af, Depth> 1.03"							
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.28"							
Area (ac) CN Description							
0.930 73 Woods, Fair, HSG C							
2.384 60 Woods, Fair, HSG B 3.314 64 Weighted Average							
3.314 100.00% Pervious Area							
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)							
5.2 270 0.1110 0.86 Lag/CN Method, Tc 1							
Summary for Subcatchment 2S: Drainage Area 2							
Runoff = 6.60 cfs @ 12.16 hrs, Volume= 0.561 af, Depth> 0.91"							
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.28"							
Area (ac) CN Description							
1.418 73 Woods, Fair, HSG C							
5.969 60 Woods, Fair, HSG B 7.387 62 Weighted Average							
7.387 100.00% Pervious Area							
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)							
9.9 600 0.1240 1.01 Lag/CN Method, Tc-2							
Summary for Subcatchment 3S: Off Site West							
Runoff = 5.82 cfs @ 12.12 hrs, Volume= 0.421 af, Depth> 1.39"							
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.28"							
Area (ac) CN Description							
3.633 70 Woods, Good, HSG C							
3.633 100.00% Pervious Area							

Existing ConditionsPollock - Louise BerryFrepared by Killingly Engineering Associates, LLCType III 24-hr5-year Rainfall=4.28"HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
7.6 564 0.1250 1.24 Lag/CN Method, Tc-3
Summary for Reach 1R: Wetland Section 1
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 1.03" for 5-year event Inflow = 4.00 cfs @ 12.09 hrs, Volume= 0.283 af Outflow = 3.64 cfs @ 12.18 hrs, Volume= 0.281 af, Atten= 9%, Lag= 4.9 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.42 fps, Min. Travel Time= 2.8 min Avg. Velocity = 0.66 fps, Avg. Travel Time= 6.0 min
Peak Storage= 616 cf @ 12.13 hrs Average Depth at Peak Storage= 0.12' Bank-Full Depth= 2.00' Flow Area= 173.3 sf, Capacity= 1,610.63 cfs
130.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 240.0' Slope= 0.0667 '/' Inlet Invert= 296.00', Outlet Invert= 280.00'
ſ
Summary for Reach 1R': Wetland Section 2
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 1.02" for 5-year event Inflow = 3.64 cfs @ 12.18 hrs, Volume= 0.281 af Outflow = 3.61 cfs @ 12.19 hrs, Volume= 0.281 af, Atten= 1%, Lag= 0.9 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 6.46 fps, Min. Travel Time= 0.4 min Avg. Velocity = 3.03 fps, Avg. Travel Time= 0.8 min
Peak Storage= 82 cf @ 12.18 hrs Average Depth at Peak Storage= 0.10' Bank-Full Depth= 2.00' Flow Area= 53.3 sf, Capacity= 2,590.64 cfs
40.00' x 2.00' deep Parabolic Channel, n= 0.013 Asphalt, smooth Length= 145.0' Slope= 0.1241 '/' Inlet Invert= 280.00' Outlet Invert= 262.00'



Existing Conditions Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software	Pollock - Louise Berry <i>Type III 24-hr 10-year Rainfall=5.04"</i> Printed 8/1/2022 Solutions LLC Page 8
Summary for Subcatchmen	nt 1S: Drainage Area 1
Runoff = 5.91 cfs @ 12.09 hrs, Volume=	0.404 af, Depth> 1.46"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, T Type III 24-hr 10-year Rainfall=5.04"	Fime Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
0.930 73 Woods, Fair, HSG C 2.384 60 Woods, Fair, HSG B	
3.314 64 Weighted Average	
3.314 100.00% Pervious Area	
Tc Length Slope Velocity Capacity Descript	ion
(min) (feet) (ft/ft) (ft/sec) (cfs) 5.2 270 0.1110 0.86 Lag/CN	Method, Tc 1
Ū	
Summary for Subcatchmen	at 2S: Drainage Area 2
Runoff = 10.12 cfs @ 12.16 hrs, Volume=	0.816 af, Depth> 1.33"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Type III 24-hr 10-year Rainfall=5.04"	Fime Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
1.418 73 Woods, Fair, HSG C 5.969 60 Woods, Fair, HSG B	
5.969 60 Woods, Fair, HSG B 7.387 62 Weighted Average	
7.387 100.00% Pervious Area	
Tc Length Slope Velocity Capacity Descript (min) (feet) (ft/ft) (ft/sec) (cfs)	ion
9.9 600 0.1240 1.01 Lag/CN	Method, Tc-2
Summary for Subcatchme	ent 3S: Off Site West
Runoff = 8.07 cfs @ 12.12 hrs, Volume=	0.576 af, Depth> 1.90"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, T Type III 24-hr 10-year Rainfall=5.04"	Γime Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
3.633 70 Woods, Good, HSG C	
3.633 100.00% Pervious Area	

Existing ConditionsPollock - Louise BerryType III 24-hr10-year Rainfall=5.04"Prepared by Killingly Engineering Associates, LLCPrinted 8/1/2022HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPage 9
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
7.6 564 0.1250 1.24 Lag/CN Method, Tc-3
Summary for Reach 1R: Wetland Section 1
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 1.46" for 10-year event Inflow = 5.91 cfs @ 12.09 hrs, Volume= 0.404 af Outflow = 5.50 cfs @ 12.16 hrs, Volume= 0.403 af, Atten= 7%, Lag= 4.4 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.62 fps, Min. Travel Time= 2.5 min Avg. Velocity = 0.72 fps, Avg. Travel Time= 5.6 min
Peak Storage= 825 cf @ 12.12 hrs Average Depth at Peak Storage= 0.15' Bank-Full Depth= 2.00' Flow Area= 173.3 sf, Capacity= 1,610.63 cfs
130.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 240.0' Slope= 0.0667 '/' Inlet Invert= 296.00', Outlet Invert= 280.00'
Γ
Summary for Reach 1R': Wetland Section 2
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 1.46" for 10-year event Inflow = 5.50 cfs @ 12.16 hrs, Volume= 0.403 af Outflow = 5.41 cfs @ 12.17 hrs, Volume= 0.402 af, Atten= 2%, Lag= 0.6 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 7.31 fps, Min. Travel Time= 0.3 min Avg. Velocity = 3.28 fps, Avg. Travel Time= 0.7 min
Peak Storage= 108 cf @ 12.17 hrs Average Depth at Peak Storage= 0.12' Bank-Full Depth= 2.00' Flow Area= 53.3 sf, Capacity= 2,590.64 cfs
40.00' x 2.00' deep Parabolic Channel, n= 0.013 Asphalt, smooth Length= 145.0' Slope= 0.1241 '/' Inlet Invert= 280.00', Outlet Invert= 262.00'

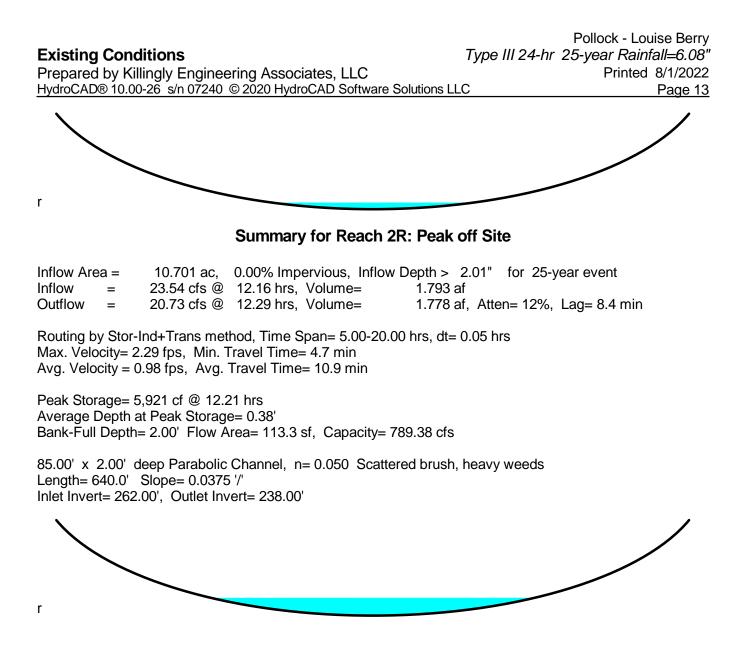


Existing Conditions Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solu	Pollock - Louise Berry <i>Type III 24-hr 25-year Rainfall=6.08"</i> Printed 8/1/2022 tions LLC Page 11
Summary for Subcatchment 1	· · · ·
Runoff = 8.79 cfs @ 12.09 hrs, Volume=	0.589 af, Depth> 2.13"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Type III 24-hr 25-year Rainfall=6.08"	e Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
0.930 73 Woods, Fair, HSG C	
2.384 60 Woods, Fair, HSG B	
3.31464Weighted Average3.314100.00% Pervious Area	
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)	
5.2 270 0.1110 0.86 Lag/CN Met	nod, Tc 1
Summary for Subcatchment 2	S: Drainago Aroa 2
Summary for Subcatchment 2	5. Drainage Area 2
Runoff = 15.46 cfs @ 12.15 hrs, Volume=	1.207 af, Depth> 1.96"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Type III 24-hr 25-year Rainfall=6.08"	e Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
1.418 73 Woods, Fair, HSG C 5.969 60 Woods, Fair, HSG B	
7.387 62 Weighted Average	
7.387 100.00% Pervious Area	
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)	
9.9 600 0.1240 1.01 Lag/CN Metl	nod, Tc-2
Cummon (or Cubertelement)	PC. Off Cite Mast
Summary for Subcatchment	35: Off Site west
Runoff = 11.36 cfs @ 12.11 hrs, Volume= 0	0.804 af, Depth> 2.66"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Type III 24-hr 25-year Rainfall=6.08"	e Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
3.633 70 Woods, Good, HSG C	

3.633	100.00% Pervious Area
0.000	

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Existing			incoring /	Nananjatan		Тур	e III 24-hr 2	25-year Rain	1/2022 8/1
				Associates 0 HydroCAD) Software Sol	utions LLC		Finited	Page 12
	Length (feet)		Velocity (ft/sec)						
7.6	564	0.1250	1.24		Lag/CN Me	thod, Tc-3			
			Summa	ary for Re	each 1R: W	etland Sec	tion 1		
Inflow Are Inflow Outflow	=		s@ 12.0	9 hrs, Volu		epth > 2.13 0.589 af 0.586 af, At	-		
Max. Velo	city= 1.8	34 fps, M	in. Travel	Time Span= Time= 2.2 I Time= 5.2	min	hrs, dt= 0.05	hrs		
Peak Stor Average [Bank-Full	Depth at	Peak Sto	orage= 0.1	8'	apacity= 1,6	10.63 cfs			
130.00' x Length= 2 Inlet Inver	240.0' S	Slope= 0.0)667 '/'		.050 Scatter	ed brush, hea	avy weeds		
$\overline{\ }$									
r								-	
			Summe	my for Do	oob 1 D'i M	lationd Soc	tion 2		
			Summe			etland Sec			
Inflow Are Inflow Outflow	a = = =		a @ 12.1	% Impervio 5 hrs, Volu 6 hrs, Volu	ime=	epth > 2.12 0.586 af 0.586 af, At	2		
Max. Velo	city= 8.2	28 fps, M	in. Travel	īme Span= Time= 0.3 I Time= 0.7	min	hrs, dt= 0.05	hrs		
Peak Stor Average [Bank-Full	Depth at	Peak Sto	orage= 0.1		ipacity= 2,59	0.64 cfs			
40.00' x 2 Length= 1	45.0' S	Slope= 0.1	241 '/'		13 Asphalt,	smooth			

Pollock - Louise Berry

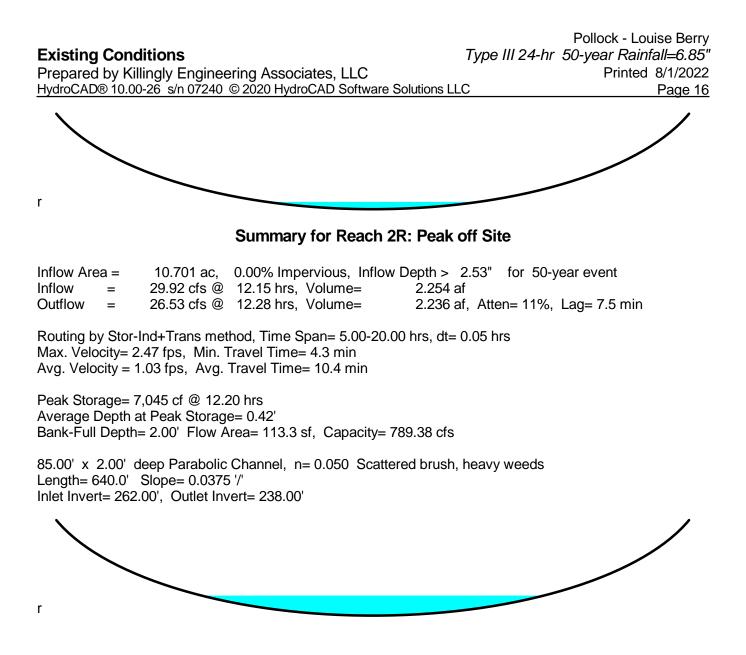


Existing Conditions Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Softw	
	ment 1S: Drainage Area 1
Runoff = 11.06 cfs @ 12.09 hrs, Volume=	0.736 af, Depth> 2.66"
Runoff by SCS TR-20 method, UH=SCS, Weighted-C Type III 24-hr 50-year Rainfall=6.85"	N, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
0.930 73 Woods, Fair, HSG C 2.384 60 Woods, Fair, HSG B	
3.314 64 Weighted Average	
3.314 100.00% Pervious Area	
Tc Length Slope Velocity Capacity Des (min) (feet) (ft/ft) (ft/sec) (cfs)	cription
5.2 270 0.1110 0.86 Lag	CN Method, Tc 1
Summary for Subcatch	nent 2S: Drainage Area 2
Runoff = 19.71 cfs @ 12.15 hrs, Volume=	1.521 af, Depth> 2.47"
Runoff by SCS TR-20 method, UH=SCS, Weighted-C Type III 24-hr 50-year Rainfall=6.85"	N, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
1.418 73 Woods, Fair, HSG C 5.969 60 Woods, Fair, HSG B	
7.387 62 Weighted Average	
7.387 100.00% Pervious Area	
Tc Length Slope Velocity Capacity Des (min) (feet) (ft/ft) (ft/sec) (cfs)	cription
	CN Method, Tc-2
Summary for Subcate	nment 3S: Off Site West
Runoff = 13.89 cfs @ 12.11 hrs, Volume=	0.983 af, Depth> 3.25"
	0.303 al, Depth> 3.23
Runoff by SCS TR-20 method, UH=SCS, Weighted-C Type III 24-hr 50-year Rainfall=6.85"	N, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Area (ac) CN Description	
3.633 70 Woods, Good, HSG C	

3.633

100.00% Pervious Area

Eviatio	a Canal					Τ		Pollock - Lo	
	g Cond d by Killi		ineerina /	Associates		Туре	111 24-nr	50-year Rair Printec	1 <i>ali=6.85</i> °
) Software Sol	lutions LLC			Page 15
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description)			
7.6	564	0.1250	1.24		Lag/CN Me	thod, Tc-3			
			Summa	ary for Re	each 1R: W	etland Secti	on 1		
Inflow A Inflow Outflow	=	11.06 cfs	s@ 12.0	9 hrs, Volu		epth > 2.66" 0.736 af 0.733 af, Atte	-		
Max. Ve	locity= 1.	98 fps, N	lin. Travel	Time Span= Time= 2.0 I Time= 5.0	min	hrs, dt= 0.05 h	Irs		
Average	Depth a	t Peak Sto	12.11 hrs prage= 0.2 pw Area=	:0'	apacity= 1,6	10.63 cfs			
Length=	240.0' \$	Slope= 0.0			.050 Scatter	ed brush, heav	/y weeds		
									/
r									
1									
			Summa	ary for Re	each 1R': W	letland Sect	ion 2		
Inflow A Inflow Outflow	rea = = =	10.33 cfs	s@ 12.1	% Impervio 5 hrs, Volu 6 hrs, Volu	ime=	epth > 2.65" 0.733 af 0.733 af, Atte			
Max. Ve	locity= 8.	91 fps, N	lin. Travel	īme Span= Time= 0.3 I Time= 0.7	min	hrs, dt= 0.05 h	irs		
Average	Depth a		orage= 0.1		apacity= 2,59	0.64 cfs			
Length=	145.0' \$	Slope= 0.′)13 Asphalt,	smooth			



Existing ConditionsType III 24-hrPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCPrinted 8/1/2022HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPage 17
Summary for Subcatchment 1S: Drainage Area 1
Runoff = 13.60 cfs @ 12.08 hrs, Volume= 0.902 af, Depth> 3.27"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.68"
Area (ac) CN Description
0.930 73 Woods, Fair, HSG C
2.384 60 Woods, Fair, HSG B 3.314 64 Weighted Average
3.314 100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
5.2 270 0.1110 0.86 Lag/CN Method, Tc 1
Summery for Subsetable at 25. Drainage Area 2
Summary for Subcatchment 2S: Drainage Area 2
Runoff = 24.50 cfs @ 12.15 hrs, Volume= 1.878 af, Depth> 3.05"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.68"
Area (ac) CN Description
1.418 73 Woods, Fair, HSG C
5.969 60 Woods, Fair, HSG B 7.387 62 Weighted Average
7.387 02 Weighted Average 7.387 100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
9.9 600 0.1240 1.01 Lag/CN Method, Tc-2
Summary for Subcatchment 3S: Off Site West
Runoff = 16.68 cfs @ 12.11 hrs, Volume= 1.182 af, Depth> 3.90"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.68"
Area (ac) CN Description
3.633 70 Woods, Good, HSG C

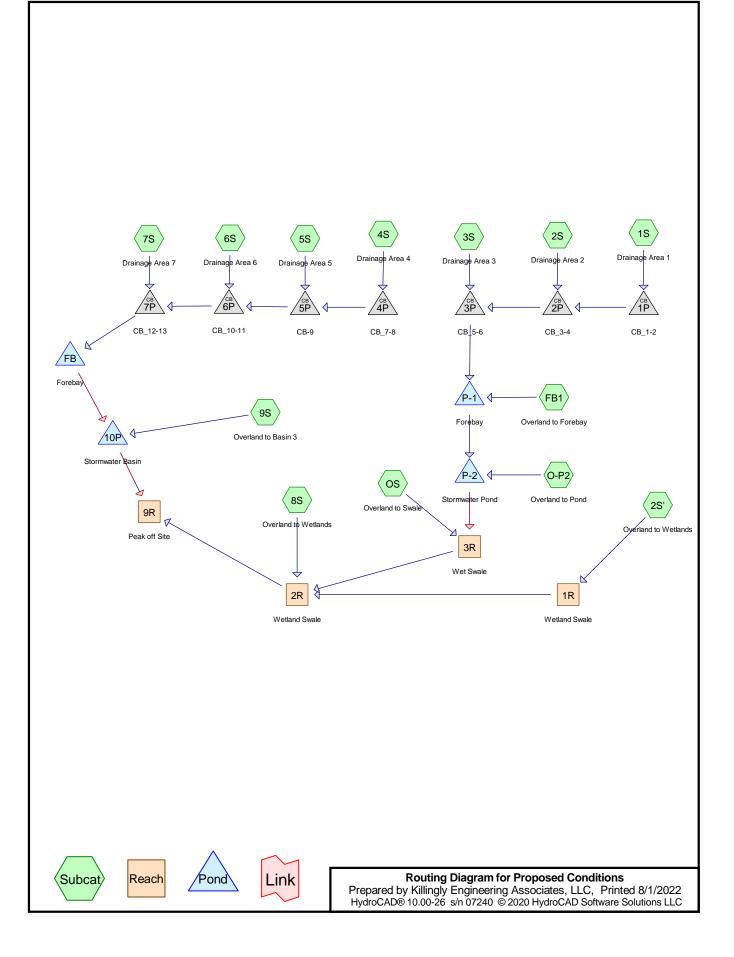
3.633 100.00% Pervious Area

Existing ConditionsPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCType III 24-hr 100-year Rainfall=7.68"
HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 18
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
7.6 564 0.1250 1.24 Lag/CN Method, Tc-3
Summary for Reach 1R: Wetland Section 1
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 3.27" for 100-year event Inflow = 13.60 cfs @ 12.08 hrs, Volume= 0.902 af Outflow = 12.70 cfs @ 12.14 hrs, Volume= 0.899 af, Atten= 7%, Lag= 3.6 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.12 fps, Min. Travel Time= 1.9 min Avg. Velocity = 0.84 fps, Avg. Travel Time= 4.8 min
Peak Storage= 1,497 cf @ 12.11 hrs Average Depth at Peak Storage= 0.22' Bank-Full Depth= 2.00' Flow Area= 173.3 sf, Capacity= 1,610.63 cfs
130.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 240.0' Slope= 0.0667 '/' Inlet Invert= 296.00', Outlet Invert= 280.00'
Summary for Reach 1R': Wetland Section 2
Inflow Area = 3.314 ac, 0.00% Impervious, Inflow Depth > 3.26" for 100-year event Inflow = 12.70 cfs @ 12.14 hrs, Volume= 0.899 af Outflow = 12.60 cfs @ 12.15 hrs, Volume= 0.899 af, Atten= 1%, Lag= 0.4 min
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 9.50 fps, Min. Travel Time= 0.3 min Avg. Velocity = 3.85 fps, Avg. Travel Time= 0.6 min
Peak Storage= 194 cf @ 12.15 hrs Average Depth at Peak Storage= 0.17' Bank-Full Depth= 2.00' Flow Area= 53.3 sf, Capacity= 2,590.64 cfs
40.00' x 2.00' deep Parabolic Channel, n= 0.013 Asphalt, smooth Length= 145.0' Slope= 0.1241 '/'

Length= 145.0' Slope= 0.1241 '/' Inlet Invert= 280.00', Outlet Invert= 262.00'

Pollock - Louise Berry **Existing Conditions** Type III 24-hr 100-year Rainfall=7.68" Printed 8/1/2022 Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 19 r Summary for Reach 2R: Peak off Site Inflow Area = 10.701 ac, 0.00% Impervious, Inflow Depth > 3.11" for 100-year event 37.10 cfs @ 12.15 hrs, Volume= Inflow 2.777 af = Outflow 33.47 cfs @ 12.27 hrs, Volume= 2.758 af, Atten= 10%, Lag= 7.0 min = Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.65 fps, Min. Travel Time= 4.0 min Avg. Velocity = 1.08 fps, Avg. Travel Time= 9.9 min Peak Storage= 8,223 cf @ 12.20 hrs Average Depth at Peak Storage= 0.47' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 789.38 cfs 85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 640.0' Slope= 0.0375 '/' Inlet Invert= 262.00', Outlet Invert= 238.00' r

PROPOSED CONDITIONS



Summary for Subcatchment 1S: Drainage Area 1

Runoff = 0.40 cfs @ 12.13 hrs, Volume= 0.030 af, Depth> 1.85"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"

_	A	rea (sf)	CN	Description						
		4,120	98	Paved park	ing, HSG B					
_		4,450	74	>75% Grass	s cover, Go	od, HSG C				
		8,570	86	Weighted A	Veighted Average					
		4,450		51.93% Per	vious Area					
		4,120		48.07% Imp	ervious Are	ea				
	Tc (min)	Length (feet)	Slop (ft/ft		Capacity (cfs)	Description				
	9.1	111	0.071	0 0.20		Sheet Flow, Tc-1				
						Grass: Dense n= 0.240	P2= 3.37"			

Summary for Subcatchment 2S: Drainage Area 2

Runoff = 0.82 cfs @ 12.02 hrs, Volume= 0.049 af, Depth> 1.94"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"

	А	rea (sf)	CN	Description				
		6,287	74	>75% Gras	s cover, Go	ood, HSG C		
*		7,033	98	Roof/paven	nent			
		13,320	87	Weighted A	Veighted Average			
		6,287		47.20% Per	vious Area	a		
		7,033		52.80% Imp	pervious Are	rea		
	_				- ·			
	Тс	Length	Slop		Capacity	Description		
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
	1.0	125	0.010	0 2.03		Shallow Concentrated Flow, Tc-2		
						Paved Kv= 20.3 fps		

Summary for Subcatchment 2S': Overland to Wetlands

Runoff = 1.31 cfs @ 12.19 hrs, Volume= 0.117 af, Depth> 0.79"

Pollock - Louise Berry Type III 24-hr 2-year Rainfall=3.37" Printed 8/1/2022

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Proposed Conditions

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_	A	rea (sf)	CN	Description				
		38,320	73	Woods, Fai	r, HSG C			
		21,500	55	Woods, Go	od, HSG B			
		2,724	98	Roofs, HSG	βB			
_		15,044	74	>75% Gras	s cover, Go	od, HSG C		
		77,588	69	Weighted A	verage			
		74,864		96.49% Per	vious Area			
		2,724		3.51% Impe	ervious Area	a		
	-			N7 1 ⁻	0			
	TC	Length	Slope		Capacity	Description		
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
	12.2	200	0.1100	0.27		Sheet Flow, Tc-2s		
						Grass: Dense n= 0.240	P2= 3.37"	

Summary for Subcatchment 3S: Drainage Area 3

Runoff = 1.10 cfs @	12.09 hrs, Volume=	0.074 af, Depth> 1.56"
---------------------	--------------------	------------------------

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"

_	A	rea (sf)	CN [Description							
*		8,529	98 F	B Paved parking/roof							
_		16,209	74 >								
	24,738 82 Weighted Average										
		16,209	6	5.52% Per	vious Area						
		8,529	3	84.48% Imp	pervious Are	ea					
	_		-		- ·						
	Tc	Length	Slope		Capacity	Description					
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)						
	5.0	105	0.1100	0.35		Sheet Flow, Tc-4a					
						Grass: Short n= 0.150 P2= 3.37"					
	0.7	160	0.0310	3.57		Shallow Concentrated Flow, Tc-4b					
_						Paved Kv= 20.3 fps					
	5.7	265	Total								

Summary for Subcatchment 4S: Drainage Area 4

Runoff = 3.76 cfs @ 12.04 hrs, Volume= 0.227 af, Depth> 1.70"

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_	A	rea (sf)	CN	Description						
*		30,200	98	Paved park	king & roof H	ISG A				
		20,000	74	>75% Gras	s cover, Go	od, HSG C				
_		19,500	73	Woods, Fa	ir, HSG C					
		69,700	84	Weighted A	Weighted Average					
		39,500		56.67% Pe	rvious Area					
		30,200		43.33% Im	pervious Are	ea				
	Тс	Length	Slop		Capacity	Description				
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)					
	1.9	130	0.010	0 1.13		Sheet Flow, Tc-3				
						Smooth surfaces n= 0).011	P2= 3.37"		

Summary for Subcatchment 5S: Drainage Area 5

Runoff = 1.62 cfs @ 12.02 hrs, Volume= 0.098 af, Depth> 1.86"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"

Veighted Average				
-				

Summary for Subcatchment 6S: Drainage Area 6

Runoff = 2.52 cfs @ 12.05 hrs, Volume= 0.154 af, Depth> 1.70"

	Area (sf)	CN	Description
*	21,025	98	Pavement/Roofs, HSG B
	22,990	74	>75% Grass cover, Good, HSG C
	3,300	60	Woods, Fair, HSG B
	47,315	84	Weighted Average
	26,290		55.56% Pervious Area
	21,025		44.44% Impervious Area

Proposed ConditionsPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCType III 24-hr2-year Rainfall=3.37"HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022								
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)								
3.2 180 0.0500 0.95 Lag/CN Method, Tc-6								
Summary for Subcatchment 7S: Drainage Area 7								
Runoff = 1.07 cfs @ 12.02 hrs, Volume= 0.071 af, Depth> 2.84"								
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"								
Area (sf) CN Description								
 * 12,295 98 Roof & Pavement * 716 74 >75% Grass cover, Good, HSG B/D 								
13,011 97 Weighted Average								
716 5.50% Pervious Area								
12,295 94.50% Impervious Area								
TcLengthSlopeVelocityCapacityDescription(min)(feet)(ft/ft)(ft/sec)(cfs)								
1.2 175 0.0580 2.42 Sheet Flow, Tc-7 Smooth surfaces n= 0.011 P2= 3.37"								
Smooth suraces n= 0.011 FZ= 5.57								
Summary for Subcatchment 8S: Overland to Wetlands								
Runoff = 2.69 cfs @ 12.22 hrs, Volume= 0.255 af, Depth> 0.74"								
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"								
Area (sf) CN Description								
24,323 74 >75% Grass cover, Good, HSG C								
61,975 77 Woods, Good, HSG D 93,653 60 Woods, Fair, HSG B								
179,951 68 Weighted Average 179,951 100.00% Pervious Area								
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)								
14.1 152 0.1240 0.18 Sheet Flow, Tc-8								
Woods: Light underbrush n= 0.400 P2= 3.37"								
Summary for Subcatchment 9S: Overland to Basin 3								
Runoff = 0.88 cfs @ 12.05 hrs, Volume= 0.054 af, Depth> 1.17"								

Pollock - Louise Berry Type III 24-hr 2-year Rainfall=3.37" Printed 8/1/2022 Page 6

Proposed Conditions

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A	rea (sf)	CN	CN Description							
	22,063	74	74 >75% Grass cover, Good, HSG C							
	1,920	98								
	23,983	76	76 Weighted Average							
	22,063		91.99% Per	vious Area						
	1,920		8.01% Impe	ervious Area	a					
Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description					
2.3	145	0.1100) 1.05		Lag/CN Method, Tc-9					
	Summary for Subcatchment FB1: Overland to Forebay									

Runoff = 0.19 cfs @ 12.05 hrs, Volume= 0.012 af, Depth> 1.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"

Α	rea (sf)	CN [Description							
	5,861	74 >	74 >75% Grass cover, Good, HSG C							
	5,861		100.00% Pervious Area							
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
2.1	98	0.0800	0.78		Lag/CN Method, Tc-FB-1					

Summary for Subcatchment O-P2: Overland to Pond

Runoff = 0.25 cfs @ 12.03 hrs, Volume= 0.016 af, Depth> 1.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 2-year Rainfall=3.37"

A	rea (sf)	CN D	escription							
	7,761	74 >75% Grass cover, Good, HSG C								
	7,761	1	100.00% Pervious Area							
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description					
1.3	1.3 30 0.0330 0.40 Lag/CN Method, Tc-P2									
Summary for Subcatchment OS: Overland to Swale										

Runoff = 0.44 cfs @ 12.05 hrs, Volume= 0.028 af, Depth> 0.95"

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Proposed Conditions

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Area (sf)	CN Description
1,650	60 Woods, Fair, HSG B
13,622	74 >75% Grass cover, Good, HSG C
15,272	72 Weighted Average
15,272	100.00% Pervious Area
Tc Length	Slope Velocity Capacity Description
(min) (feet)	(ft/ft) (ft/sec) (cfs)
2.0	Direct Entry, Tc-OS
	Summary for Reach 1R: Wetland Swale
Inflow Area =	1.781 ac, 3.51% Impervious, Inflow Depth > 0.79" for 2-year event

Inflow Area =	1.781 ac, 3.51% Impervious, Inflow	v Depth > 0.79" for 2-year event
Inflow =	1.31 cfs @ 12.19 hrs, Volume=	0.117 af
Outflow =	1.23 cfs @ 12.31 hrs, Volume=	0.116 af, Atten= 6%, Lag= 7.2 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.25 fps, Min. Travel Time= 3.9 min Avg. Velocity = 0.62 fps, Avg. Travel Time= 7.8 min

Peak Storage= 288 cf @ 12.25 hrs Average Depth at Peak Storage= 0.09' Bank-Full Depth= 2.00' Flow Area= 106.7 sf, Capacity= 1,056.58 cfs

80.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 290.0' Slope= 0.0759 '/' Inlet Invert= 294.00', Outlet Invert= 272.00'



Summary for Reach 2R: Wetland Swale

Inflow Area =	7.646 ac,	6.73% Impervious, Inflo	w Depth > 0.74"	for 2-year event
Inflow =	3.97 cfs @	12.26 hrs, Volume=	0.471 af	-
Outflow =	3.48 cfs @	12.51 hrs, Volume=	0.463 af, Atte	n= 12%, Lag= 15.3 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.43 fps, Min. Travel Time= 8.3 min Avg. Velocity = 0.77 fps, Avg. Travel Time= 15.4 min

Peak Storage= 1,738 cf @ 12.37 hrs Average Depth at Peak Storage= 0.15' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 890.78 cfs

Pollock - Louise Berry *Type III 24-hr 2-year Rainfall*=3.37" Printed 8/1/2022 utions LLC Page 8

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85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 712.0' Slope= 0.0478 '/' Inlet Invert= 272.00', Outlet Invert= 238.00'

r

Summary for Reach 3R: Wet Swale

Inflow Area =	1.734 ac, 26.06% Impervious, Inflow Depth > 0.69" for 2-year event	
Inflow =	0.44 cfs @ 12.05 hrs, Volume= 0.100 af	
Outflow =	0.40 cfs @ 12.11 hrs, Volume= 0.100 af, Atten= 9%, Lag= 3.7 min	

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.32 fps, Min. Travel Time= 2.1 min Avg. Velocity = 0.83 fps, Avg. Travel Time= 3.3 min

Peak Storage= 52 cf @ 12.07 hrs Average Depth at Peak Storage= 0.04' Bank-Full Depth= 1.00' Flow Area= 10.0 sf, Capacity= 99.84 cfs

8.00' x 1.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides Side Slope Z-value= 2.0 '/' Top Width= 12.00' Length= 165.0' Slope= 0.0970 '/' Inlet Invert= 270.00', Outlet Invert= 254.00'

r

Summary for Reach 9R: Peak off Site

Inflow Area =	11.815 ac, 19.68% Impervious, Inflo	ow Depth > 0.81"	for 2-year event
Inflow =	3.62 cfs @ 12.53 hrs, Volume=	0.800 af	-
Outflow =	3.62 cfs @ 12.53 hrs, Volume=	0.800 af, Atter	n= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 2-year Rainfall=3.37" Prepared by Killingly Engineering Associates, LLC Printed 8/1/2022 HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 9 Summary for Pond 1P: CB 1-2 0.197 ac, 48.07% Impervious, Inflow Depth > 1.85" for 2-year event Inflow Area = Inflow 0.40 cfs @ 12.13 hrs, Volume= 0.030 af = 0.40 cfs @ 12.13 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min Outflow = Primary = 0.40 cfs @ 12.13 hrs, Volume= 0.030 af Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 311.79' @ 12.13 hrs Flood Elev= 316.00'

Device Routing Invert Outlet Devices	
#1 Primary 311.50' 15.0" Round Culvert L= 128.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 311.50' / 298.95' S= 0.0975 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf	

Primary OutFlow Max=0.39 cfs @ 12.13 hrs HW=311.79' (Free Discharge) -1=Culvert (Inlet Controls 0.39 cfs @ 1.83 fps)

Summary for Pond 2P: CB_3-4

Inflow Area =	0.503 ac, 50.95% Impervious, Inflow [Depth > 1.90" for 2-year event
Inflow =	1.05 cfs @ 12.03 hrs, Volume=	0.080 af
Outflow =	1.05 cfs @ 12.03 hrs, Volume=	0.080 af, Atten= 0%, Lag= 0.0 min
Primary =	1.05 cfs @ 12.03 hrs, Volume=	0.080 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 299.34' @ 12.03 hrs Flood Elev= 303.30'

Device	Routing	Invert	Outlet Devices
	Primary		15.0" Round Culvert L= 131.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 298.85' / 286.60' S= 0.0934 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.03 cfs @ 12.03 hrs HW=299.33' (Free Discharge) ←1=Culvert (Inlet Controls 1.03 cfs @ 2.36 fps)

Summary for Pond 3P: CB_5-6

Inflow Area	=	1.070 ac, 4	2.21% Impervious	, Inflow Depth >	1.72"	for 2-year event
Inflow	=	2.06 cfs @	12.07 hrs, Volum	e= 0.153	af	-
Outflow	=	2.06 cfs @	12.07 hrs, Volum	e= 0.153	af, Atte	en= 0%, Lag= 0.0 min
Primary	=	2.06 cfs @	12.07 hrs, Volum	e= 0.153	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 287.21' @ 12.07 hrs Flood Elev= 291.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	286.50'	15.0" Round Culvert L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 286.50' / 285.70' S= 0.0099 '/' Cc= 0.900
			n= 0.012, Flow Area= 1.23 sf
Primary OutFlow Max=2.01 cfs @ 12.07 hrs HW=287.20′ (Free Discharge) ☐ 1=Culvert (Inlet Controls 2.01 cfs @ 2.85 fps)			

Summary for Pond 4P: CB_7-8

Inflow Area =	1.600 ac, 43.33% Impervious, Inflow I	Depth > 1.70" for 2-year event
Inflow =	3.76 cfs @ 12.04 hrs, Volume=	0.227 af
Outflow =	3.76 cfs @ 12.04 hrs, Volume=	0.227 af, Atten= 0%, Lag= 0.0 min
Primary =	3.76 cfs @ 12.04 hrs, Volume=	0.227 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 273.53' @ 12.04 hrs Flood Elev= 277.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	272.50'	15.0" Round Culvert L= 128.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.50' / 263.70' S= 0.0686 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=3.62 cfs @ 12.04 hrs HW=273.51' (Free Discharge) -1=Culvert (Inlet Controls 3.62 cfs @ 3.42 fps)

Summary for Pond 5P: CB-9

Inflow Area	ι =	2.234 ac, 4	44.86% Impervi	ious, Inflow E	Depth > 1.	75" for 2-y	vear event
Inflow	=	5.34 cfs @	12.03 hrs, Vo	olume=	0.325 af		
Outflow	=	5.34 cfs @	12.03 hrs, Vo	olume=	0.325 af,	Atten= 0%,	Lag= 0.0 min
Primary	=	5.34 cfs @	12.03 hrs, Vo	olume=	0.325 af		

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 265.03' @ 12.03 hrs Flood Elev= 267.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.60'	15.0" Round Culvert L= 100.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 263.60' / 253.10' S= 0.1044 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=5.13 cfs @ 12.03 hrs HW=264.98' (Free Discharge) ←1=Culvert (Inlet Controls 5.13 cfs @ 4.18 fps) **Proposed Conditions** Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Summary for Pond 6P: CB 10-11

Inflow Area = 3.320 ac, 44.72% Impervious, Inflow Depth > 1.73" for 2-year event 7.80 cfs @ 12.04 hrs, Volume= 0.479 af Inflow = 7.80 cfs @ 12.04 hrs, Volume= 0.479 af, Atten= 0%, Lag= 0.0 min Outflow = Primary = 7.80 cfs @ 12.04 hrs, Volume= 0.479 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 254.59' @ 12.04 hrs Flood Elev= 259.50'

Device	Routing	Invert	Outlet Devices
#1	Primary	253.00'	18.0" Round Culvert L= 172.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 253.00' / 245.10' S= 0.0459 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=7.57 cfs @ 12.04 hrs HW=254.54' (Free Discharge) 1=Culvert (Inlet Controls 7.57 cfs @ 4.28 fps)

Summary for Pond 7P: CB 12-13

Inflow Area =	3.619 ac, 48.83% Impervious, Inflow I	Depth > 1.82" for 2-year event
Inflow =	8.81 cfs @ 12.04 hrs, Volume=	0.550 af
Outflow =	8.81 cfs @ 12.04 hrs, Volume=	0.550 af, Atten= 0%, Lag= 0.0 min
Primary =	8.81 cfs @ 12.04 hrs, Volume=	0.550 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.82' @ 12.04 hrs Flood Elev= 249.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	245.00'	18.0" Round Culvert L= 36.0' CPP, square edge headwall, Ke= 0.500
	-		Inlet / Outlet Invert= 245.00' / 244.00' S= 0.0278 '/' Cc= 0.900
			n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=8.51 cfs @ 12.04 hrs HW=246.75' (Free Discharge) **1**=Culvert (Inlet Controls 8.51 cfs @ 4.82 fps)

Summary for Pond 10P: Stormwater Basin

Inflow Area =	4.169 ac, 43.44% Impervious, Infl	ow Depth > 1.63" for 2-year event
Inflow =	6.84 cfs @ 12.12 hrs, Volume=	0.567 af
Outflow =	0.87 cfs @ 14.66 hrs, Volume=	0.338 af, Atten= 87%, Lag= 152.4 min
Primary =	0.87 cfs @ 14.66 hrs, Volume=	0.338 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.58' @ 14.66 hrs Surf.Area= 7,085 sf Storage= 13,937 cf

Plug-Flow detention time= 211.6 min calculated for 0.336 af (59% of inflow)

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Volume	Inve	rt Avail.Sto	rage Storage	Description	
#1	240.00	D' 26,6	54 cf Custom	Stage Data (Prisn	natic) Listed below (Recalc)
Elevatio (fee		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
240.0	0	508	0	0	
242.0	0	892	1,400	1,400	
244.0	0	1,386	2,278	3,678	
245.0	0	2,520	1,953	5,631	
245.5	60	5,230	1,938	7,569	
246.0	0	5,523	2,688	10,257	
248.0	0	10,874	16,397	26,654	
Device	Routing	Invert	Outlet Devices	6	
#1	Primary	242.50'	18.0" Round	Culvert L= 32.0'	CPP, square edge headwall, Ke= 0.500
					2.00' S= 0.0156 '/' Cc= 0.900
			,	w Area= 1.77 sf	
#2	Device 1	245.50'		ice/Grate C= 0.6	
#3	Device 1	246.50'		oriz. Orifice/Grate	
	D · · · ·	0.47.00		r flow at low head	-
#4	Device 1	247.00'		oriz. Orifice/Grate	
			Limited to Wei	r flow at low head	8

Center-of-Mass det. time= 134.2 min (960.7 - 826.5)

Primary OutFlow Max=0.85 cfs @ 14.66 hrs HW=246.58' (Free Discharge)

-1=Culvert (Passes 0.85 cfs of 15.54 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.61 cfs @ 4.51 fps)

-3=Orifice/Grate (Weir Controls 0.24 cfs @ 0.95 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond FB: Forebay

Inflow Area =	3.619 ac, 48.83% Impervious, Inflow D	epth > 1.82" for 2-year event
Inflow =	8.81 cfs @ 12.04 hrs, Volume=	0.550 af
Outflow =	6.25 cfs @ 12.12 hrs, Volume=	0.514 af, Atten= 29%, Lag= 4.8 min
Primary =	1.38 cfs @ 12.12 hrs, Volume=	0.437 af
Secondary =	4.87 cfs @ 12.12 hrs, Volume=	0.076 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.17' @ 12.12 hrs Surf.Area= 2,432 sf Storage= 7,234 cf

Plug-Flow detention time= 71.0 min calculated for 0.514 af (93% of inflow) Center-of-Mass det. time= 47.3 min (828.3 - 781.1)

Volume	Invert	Avail.Storage	Storage Description
#1	242.00'	9,375 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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on S :t)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
0	1,096	0	0	
0	1,678	2,774	2,774	
00	2,365	4,043	6,817	
0	2,750	2,558	9,375	
Routing	Invert	Outlet Devices		
Primary	243.00'	6.0" Round Cu	lvert	
Seconda	ry 246.00'	Inlet / Outlet Inv n= 0.012, Flow 35.0' long x 4.0 Head (feet) 0.2 2.50 3.00 3.50 Coef. (English)	ert= 243.00' / Area= 0.20 sf) breadth Bro 0 0.40 0.60 4.00 4.50 5. 2.38 2.54 2.1	242.50' S= 0.0139 '/' Cc= 0.900 ad-Crested Rectangular Weir 0.80 1.00 1.20 1.40 1.60 1.80 2.00 .00 5.50 69 2.68 2.67 2.67 2.65 2.66 2.66 2.68
	t) 00 00 00 Routing Primary	(sq-ft) 00 1,096 00 1,678 00 2,365 00 2,750 Routing Invert Primary 243.00'	(sq-ft) (cubic-feet) 00 1,096 0 00 1,678 2,774 00 2,365 4,043 00 2,750 2,558 Routing Invert Outlet Devices Primary 243.00' 6.0" Round Cu L= 36.0' CPP, Inlet / Outlet Inv 10012, Flow Secondary 246.00' 35.0' long x 4.0 Head (feet) 0.2 2.50 3.00	(sq-ft) (cubic-feet) (cubic-feet) 00 1,096 0 0 00 1,678 2,774 2,774 00 2,365 4,043 6,817 00 2,750 2,558 9,375 Routing Invert Outlet Devices Primary 243.00' 6.0" Round Culvert L= 36.0' CPP, mitered to cor Inlet / Outlet Invert= 243.00' / n= 0.012, Flow Area= 0.20 sf Secondary 246.00' 35.0' long x 4.0' breadth Bro Head (feet) 0.20 0.40 0.60

Primary OutFlow Max=1.37 cfs @ 12.12 hrs HW=246.14' (Free Discharge) ←1=Culvert (Barrel Controls 1.37 cfs @ 7.00 fps)

Secondary OutFlow Max=4.22 cfs @ 12.12 hrs HW=246.14' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 4.22 cfs @ 0.88 fps)

Summary for Pond P-1: Forebay

Inflow Area =	1.205 ac, 37.50% Impervious, Inflow D	Pepth > 1.65" for 2-year event
Inflow =	2.25 cfs @ 12.06 hrs, Volume=	0.165 af
Outflow =	1.09 cfs @ 12.31 hrs, Volume=	0.095 af, Atten= 52%, Lag= 14.9 min
Primary =	1.09 cfs @ 12.31 hrs, Volume=	0.095 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 285.15' @ 12.31 hrs Surf.Area= 1,601 sf Storage= 3,253 cf

Plug-Flow detention time= 147.0 min calculated for 0.095 af (58% of inflow) Center-of-Mass det. time= 68.7 min (859.5 - 790.8)

Volume	Invert	Avail.Sto	rage Storag	e Description			
#1	282.00'	4,7	11 cf Custo	m Stage Data (Pri	smatic) Listed	l below (Reca	alc)
Elevation (feet)	Su	rf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
282.00		545	0	0			
284.00		1,130	1,675	1,675			
285.00		1,565	1,348	3,023			
286.00		1,812	1,689	4,711			
Device Re	outing	Invert	Outlet Devic	ces			
#1 Pr	imary	285.00'	8.0' long x	8.0' breadth Broa	d-Crested Red	ctangular We	eir
	,		Head (feet)	0.20 0.40 0.60	0.80 1.00 1.2	20 1.40 1.60	1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=1.06 cfs @ 12.31 hrs HW=285.14' (Free Discharge) ←1=Broad-Crested Rectangular Weir (Weir Controls 1.06 cfs @ 0.92 fps)

Summary for Pond P-2: Stormwater Pond

Inflow Area =	1.383 ac,	32.67% Impervious,	Inflow Depth >	0.96" for 2-year event
Inflow =	1.18 cfs @	2 12.31 hrs, Volume	≔ 0.111 a	ıf
Outflow =	0.17 cfs @	2 14.14 hrs, Volume	≔ 0.073 a	f, Atten= 85%, Lag= 110.1 min
Primary =	0.17 cfs @	2 14.14 hrs, Volume	≔ 0.073 a	f

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 272.84' @ 14.14 hrs Surf.Area= 2,761 sf Storage= 2,156 cf

Plug-Flow detention time= 172.5 min calculated for 0.073 af (65% of inflow) Center-of-Mass det. time= 93.2 min (946.0 - 852.9)

Volume	/olume Invert Avail.Storag		rage Storage	Description		
#1	272.0	0' 22,67	75 cf Custom	Stage Data (Pris	smatic) Listed below (Red	calc)
Elevatio	ND (Surf.Area	Inc.Store	Cum.Store		
(fee		(sq-ft)	(cubic-feet)	(cubic-feet)		
272.0	00	2,375	0	0		
274.0)0	3,295	5,670	5,670		
276.0	00	4,225	7,520	13,190		
278.0	00	5,260	9,485	22,675		
Device	Routing	Invert	Outlet Device	S		
#1	Primary	272.00'	18.0" Round	Culvert		
			L= 30.0' CPF	P, mitered to con	form to fill, Ke= 0.700	
			Inlet / Outlet I	nvert= 272.00' / 2	270.00' S= 0.0667 '/' Co	c= 0.900
			n= 0.012, Flo	w Area= 1.77 sf		
#2 Device 1 272.		272.50'	4.0" Vert. Orif	fice/Grate C= ().600	
#3 Device 1 275.00'		6.0" Vert. Orifice/Grate C= 0.600				
#4 Primary 276.00'		12.0" W x 6.0	12.0" W x 6.0" H Vert. Orifice/Grate C= 0.600			
#5	Primary	277.00'	18.0" Horiz. C	Drifice/Grate Ca	= 0.600 Limited to weir f	flow at low heads

Primary OutFlow Max=0.17 cfs @ 14.14 hrs HW=272.84' (Free Discharge)

-1=Culvert (Passes 0.17 cfs of 2.80 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.17 cfs @ 2.00 fps)

3=Orifice/Grate (Controls 0.00 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

-5=Orifice/Grate (Controls 0.00 cfs)

Summary for Subcatchment 1S: Drainage Area 1

Runoff = 0.56 cfs @ 12.13 hrs, Volume= 0.043 af, Depth> 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"

_	А	rea (sf)	CN	Description			
		4,120	98	Paved park	ing, HSG B		
_		4,450	74	>75% Grass	s cover, Go	od, HSG C	
		8,570	86	Weighted A	Weighted Average		
		4,450		51.93% Per	vious Area		
		4,120		48.07% Imp	ervious Are	ea	
_	Tc (min)	Length (feet)	Slop (ft/ft		Capacity (cfs)	Description	
	9.1	111	0.071	0 0.20		Sheet Flow, Tc-1	
						Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 2S: Drainage Area 2

Runoff = 1.14 cfs @ 12.02 hrs, Volume= 0.069 af, Depth> 2.72"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"

	A	rea (sf)	CN	Description				
		6,287	74	>75% Gras	75% Grass cover, Good, HSG C			
*		7,033	98	Roof/paven	Roof/pavement			
		13,320	87	Weighted A	/eighted Average			
		6,287		47.20% Per	7.20% Pervious Area			
		7,033		52.80% Imp	pervious Are	rea		
	Тс	Length	Slope		Capacity	Description		
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
	1.0	125	0.010	2.03		Shallow Concentrated Flow, Tc-2		
						Paved Kv= 20.3 fps		

Summary for Subcatchment 2S': Overland to Wetlands

Runoff = 2.31 cfs @ 12.18 hrs, Volume= 0.195 af, Depth> 1.32"

Pollock - Louise Berry Type III 24-hr 5-year Rainfall=4.27" Printed 8/1/2022

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Α	rea (sf)	CN	Description			
	38,320	73	Woods, Fai	r, HSG C		
	21,500	55	Woods, Go	od, HSG B		
	2,724	98	Roofs, HSG	βB		
	15,044	74	>75% Gras	>75% Grass cover, Good, HSG C		
	77,588	69	Weighted A	verage		
	74,864		96.49% Per	vious Area		
	2,724		3.51% Impe	ervious Area	a	
Tc (min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description	
12.2	200	0.1100) 0.27		Sheet Flow, Tc-2s Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 3S: Drainage Area 3

Runoff = 1.60 cfs @	12.09 hrs, Volume=	0.108 af, Depth> 2.27"
---------------------	--------------------	------------------------

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"

_	A	rea (sf)	CN I	Description					
*		8,529	98 I	Paved parking/roof					
_		16,209	74 :	>75% Ġras	s cover, Go	bod, HSG C			
		24,738	82 \	Veighted A	verage				
		16,209	6	65.52% Per	vious Area				
		8,529	3	34.48% Imp	pervious Ar	ea			
	Тс	Length	Slope	Velocity	Capacity	Description			
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)				
	5.0	105	0.1100	0.35		Sheet Flow, Tc-4a			
						Grass: Short n= 0.150 P2= 3.37"			
	0.7	160	0.0310	3.57		Shallow Concentrated Flow, Tc-4b			
						Paved Kv= 20.3 fps			
	5.7	265	Total						

Summary for Subcatchment 4S: Drainage Area 4

Runoff = 5.34 cfs @ 12.04 hrs, Volume= 0.326 af, Depth> 2.45"

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_	A	rea (sf)	CN	Description			
*		30,200	98	Paved park	Paved parking & roof HSG A		
		20,000	74	>75% Gras	s cover, Go	od, HSG C	
_		19,500	73	Woods, Fai	r, HSG C		
		69,700	84	Weighted A	verage		
		39,500		56.67% Pe	vious Area		
		30,200		43.33% Imp	pervious Are	a	
	Тс	Length	Slop		Capacity	Description	
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)		
	1.9	130	0.010	0 1.13		Sheet Flow, Tc-3	
						Smooth surfaces n= 0.011 P2= 3	3.37"

Summary for Subcatchment 5S: Drainage Area 5

Runoff = 2.26 cfs @ 12.02 hrs, Volume= 0.139 af, Depth> 2.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"

Weighted Average		
51.26% Pervious Area		
-		

Summary for Subcatchment 6S: Drainage Area 6

Runoff = 3.58 cfs @ 12.05 hrs, Volume= 0.221 af, Depth> 2.45"

	Area (sf)	CN	Description		
*	21,025	98	Pavement/Roofs, HSG B		
	22,990	74	>75% Grass cover, Good, HSG C		
	3,300	60	Woods, Fair, HSG B		
	47,315	84	Weighted Average		
	26,290		55.56% Pervious Area		
	21,025		44.44% Impervious Area		

Proposed ConditionsPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCType III 24-hrHydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022Prepared by Killingly Engineering Associates, LLCPrinted 8/1/2022								
	ope Velocity Capacity ft/ft) (ft/sec) (cfs)	Description						
3.2 180 0.05	500 0.95	Lag/CN Method, Tc-6						
	Summary for Subcatchment 7S: Drainage Area 7							
Runoff = 1.3	36 cfs @ 12.02 hrs, Volu	me= 0.091 af, Depth> 3.67"						
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"								
Area (sf) CN								
* 12,295 98 * 716 74		od HSG B/D						
13,011 97	Weighted Average							
716 12,295	5.50% Pervious Area 94.50% Impervious Are							
		54						
	ope Velocity Capacity ft/ft) (ft/sec) (cfs)	Description						
1.2 175 0.05	580 2.42	Sheet Flow, Tc-7 Smooth surfaces n= 0.011 P2= 3.37"						
S	Summary for Subcatcl	hment 8S: Overland to Wetlands						
Runoff = 4.8	34 cfs @ 12.21 hrs, Volu	me= 0.431 af, Depth> 1.25"						
Runoff by SCS TR-20 Type III 24-hr 5-year F		ted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs						
Area (sf) CN	Description							
24,323 74		od, HSG C						
61,975 77 93,653 60								
179,951 68 179,951	· · · · ·	a						
Tc Length Slo	ope Velocity Capacity	Description						
	ft/ft) (ft/sec) (cfs)	-						
14.1 152 0.12	240 0.18	Sheet Flow, Tc-8 Woods: Light underbrush n= 0.400 P2= 3.37"						
	Summary for Subcate	chment 9S: Overland to Basin 3						
Runoff = 1.3	37 cfs @ 12.04 hrs, Volu	me= 0.083 af, Depth> 1.80"						

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A	rea (sf)	CN	CN Description					
	22,063	74	>75% Gras	s cover, Go	ood, HSG C			
	1,920	98	Roofs, HSG	G C				
	23,983	76	Weighted A	verage				
	22,063		91.99% Per	vious Area				
	1,920		8.01% Impe	ervious Area	а			
Tc (min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description			
2.3	145	0.1100	0 1.05		Lag/CN Method, Tc-9			
	Summary for Subcatchment FB1: Overland to Forebay							

Runoff = 0.31 cfs @ 12.04 hrs, Volume= 0.019 af, Depth> 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"

A	rea (sf)	CN I	Description			
	5,861	74 >	74 >75% Grass cover, Good, HSG C			
	5,861		100.00% Pe	ervious Area	a	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
2.1	98	0.0800	0.78		Lag/CN Method, Tc-FB-1	

Summary for Subcatchment O-P2: Overland to Pond

Runoff = 0.41 cfs @ 12.03 hrs, Volume= 0.025 af, Depth> 1.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 5-year Rainfall=4.27"

_	А	rea (sf)	CN D	Description				
		7,761	761 74 >75% Grass cover, Good, HSG C					
	7,761 100.00% Pervious Area				a			
	Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
	1.3	30	0.0330	0.40		Lag/CN Method, Tc-P2		
	Summary for Subcatchment OS: Overland to Swale							

Runoff = 0.73 cfs @ 12.04 hrs, Volume= 0.044 af, Depth> 1.52"

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Area (st) CN	Description		
1,65	0 60	Woods, Fai	r, HSG B	
13,62	2 74	>75% Gras	s cover, Go	bod, HSG C
15,27	2 72	Weighted A	verage	
15,27	2	100.00% Pe	ervious Area	a
Tc Leng			Capacity	Description
(min) (fee	et) (ft/	/ft) (ft/sec)	(cfs)	
2.0				Direct Entry, Tc-OS

Summary for Reach 1R: Wetland Swale

Inflow Area =	1.781 ac,	3.51% Impervious, Inflow	Depth > 1.32"	for 5-year event
Inflow =	2.31 cfs @	12.18 hrs, Volume=	0.195 af	
Outflow =	2.20 cfs @	12.28 hrs, Volume=	0.194 af, Atte	en= 5%, Lag= 5.9 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.48 fps, Min. Travel Time= 3.3 min Avg. Velocity = 0.70 fps, Avg. Travel Time= 6.9 min

Peak Storage= 430 cf @ 12.23 hrs Average Depth at Peak Storage= 0.12' Bank-Full Depth= 2.00' Flow Area= 106.7 sf, Capacity= 1,056.58 cfs

80.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 290.0' Slope= 0.0759 '/' Inlet Invert= 294.00', Outlet Invert= 272.00'



Summary for Reach 2R: Wetland Swale

Inflow Area =	7.646 ac,	6.73% Impervious, Inflow D	epth > 1.29"	for 5-year event
Inflow =	7.26 cfs @	12.24 hrs, Volume=	0.822 af	-
Outflow =	6.57 cfs @	12.45 hrs, Volume=	0.811 af, Atte	en= 10%, Lag= 12.3 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.74 fps, Min. Travel Time= 6.8 min Avg. Velocity = 0.86 fps, Avg. Travel Time= 13.8 min

Peak Storage= 2,700 cf @ 12.33 hrs Average Depth at Peak Storage= 0.21' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 890.78 cfs

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Pollock - Louise Berry Type III 24-hr 5-year Rainfall=4.27" Printed 8/1/2022 Page 21

85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 712.0' Slope= 0.0478 '/' Inlet Invert= 272.00', Outlet Invert= 238.00'

r

Summary for Reach 3R: Wet Swale

Inflow Area	=	1.734 ac, 26.06% Impervious, Inflow Depth > 1.36" for 5-year event
Inflow	=	0.73 cfs @ 12.04 hrs, Volume= 0.197 af
Outflow	=	0.67 cfs @ 12.09 hrs, Volume= 0.196 af, Atten= 9%, Lag= 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.63 fps, Min. Travel Time= 1.7 min Avg. Velocity = 1.01 fps, Avg. Travel Time= 2.7 min

Peak Storage= 72 cf @ 12.06 hrs Average Depth at Peak Storage= 0.05' Bank-Full Depth= 1.00' Flow Area= 10.0 sf, Capacity= 99.84 cfs

8.00' x 1.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides Side Slope Z-value= 2.0 '/' Top Width= 12.00' Length= 165.0' Slope= 0.0970 '/' Inlet Invert= 270.00', Outlet Invert= 254.00'

r

Summary for Reach 9R: Peak off Site

Inflow Area =	11.815 ac, 19.68% Impervious, Inflow	Depth > 1.41" for 5-year event
Inflow =	8.20 cfs @ 12.47 hrs, Volume=	1.386 af
Outflow =	8.20 cfs @ 12.47 hrs, Volume=	1.386 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 5-year Rainfall=4.27" Printed 8/1/2022 Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 22 Summary for Pond 1P: CB 1-2 0.197 ac, 48.07% Impervious, Inflow Depth > 2.62" for 5-year event Inflow Area = Inflow 0.56 cfs @ 12.13 hrs, Volume= 0.043 af = 0.56 cfs @ 12.13 hrs, Volume= 0.043 af, Atten= 0%, Lag= 0.0 min Outflow = Primary = 0.56 cfs @ 12.13 hrs, Volume= 0.043 af Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 311.85' @ 12.13 hrs

Flood Elev= 316.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	311.50'	15.0" Round Culvert L= 128.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 311.50' / 298.95' S= 0.0975 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=0.55 cfs @ 12.13 hrs HW=311.84' (Free Discharge) -1=Culvert (Inlet Controls 0.55 cfs @ 2.00 fps)

Summary for Pond 2P: CB_3-4

Inflow Area =	= 0	.503 ac, 5	50.95% Impervious	, Inflow Depth >	2.68" for 5-y	ear event
Inflow =	1.	47 cfs @	12.03 hrs, Volum	e= 0.112	af	
Outflow =	1.	47 cfs @	12.03 hrs, Volum	e= 0.112	af, Atten= 0%,	Lag= 0.0 min
Primary =	1.4	47 cfs @	12.03 hrs, Volum	e= 0.112	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 299.43' @ 12.03 hrs Flood Elev= 303.30'

Device Routing Invert Outlet Devices	
#1 Primary 298.85' 15.0" Round Culvert L= 131.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 298.85' / 286.60' S= 0.0934 '/' Cc= 0.90 n= 0.012, Flow Area= 1.23 sf	0

Primary OutFlow Max=1.43 cfs @ 12.03 hrs HW=299.43' (Free Discharge) ←1=Culvert (Inlet Controls 1.43 cfs @ 2.59 fps)

Summary for Pond 3P: CB_5-6

Inflow Area	a =	1.070 ac, 4	2.21% Impervious,	Inflow Depth >	2.46" for	5-year event
Inflow	=	2.94 cfs @	12.07 hrs, Volume	e= 0.220	af	-
Outflow	=	2.94 cfs @	12.07 hrs, Volume	e= 0.220	af, Atten= 0	0%, Lag= 0.0 min
Primary	=	2.94 cfs @	12.07 hrs, Volume	e= 0.220	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 287.38' @ 12.07 hrs Flood Elev= 291.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	286.50'	15.0" Round Culvert L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= $286.50' / 285.70'$ S= $0.0099' / Cc= 0.900$ n= 0.012, Flow Area= 1.23 sf
Primary	OutFlow	Max=2.87 cfs @	2 12.07 hrs HW=287.37' (Free Discharge)

←1=Culvert (Inlet Controls 2.87 cfs @ 3.17 fps)

Summary for Pond 4P: CB_7-8

Inflow Area =	1.600 ac,	43.33% Impervious, Ir	nflow Depth > 2.45"	for 5-year event
Inflow =	5.34 cfs @	12.04 hrs, Volume=	0.326 af	
Outflow =	5.34 cfs @	12.04 hrs, Volume=	0.326 af, Atte	en= 0%, Lag= 0.0 min
Primary =	5.34 cfs @	12.04 hrs, Volume=	0.326 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 273.94' @ 12.04 hrs Flood Elev= 277.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	272.50'	15.0" Round Culvert L= 128.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.50' / 263.70' S= 0.0686 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=5.14 cfs @ 12.04 hrs HW=273.88' (Free Discharge) ←1=Culvert (Inlet Controls 5.14 cfs @ 4.19 fps)

Summary for Pond 5P: CB-9

Inflow Area =	2.234 ac, 44.86% Impervious, Inflow	Depth > 2.50" for 5-year event
Inflow =	7.56 cfs @ 12.03 hrs, Volume=	0.465 af
Outflow =	7.56 cfs @ 12.03 hrs, Volume=	0.465 af, Atten= 0%, Lag= 0.0 min
Primary =	7.56 cfs @ 12.03 hrs, Volume=	0.465 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 265.84' @ 12.03 hrs Flood Elev= 267.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.60'	15.0" Round Culvert L= 100.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 263.60' / 253.10' S= 0.1044 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=7.25 cfs @ 12.03 hrs HW=265.73' (Free Discharge) ←1=Culvert (Inlet Controls 7.25 cfs @ 5.91 fps)

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 5-year Rainfall=4.27" Prepared by Killingly Engineering Associates, LLC Printed 8/1/2022 HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 24 Summary for Pond 6P: CB 10-11 Inflow Area = 3.320 ac, 44.72% Impervious, Inflow Depth > 2.48" for 5-year event 11.07 cfs @ 12.04 hrs, Volume= Inflow = 0.686 af 11.07 cfs @ 12.04 hrs, Volume= 0.686 af, Atten= 0%, Lag= 0.0 min Outflow = 11.07 cfs @ 12.04 hrs, Volume= Primary = 0.686 af Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 255.43' @ 12.04 hrs Flood Elev= 259.50' Device Routing Invert Outlet Devices Primary 253.00' 18.0" Round Culvert #1 L= 172.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 253.00' / 245.10' S= 0.0459 '/' Cc= 0.900

Primary OutFlow Max=10.71 cfs @ 12.04 hrs HW=255.33' (Free Discharge) ←1=Culvert (Inlet Controls 10.71 cfs @ 6.06 fps)

Summary for Pond 7P: CB_12-13

Inflow Area =	3.619 ac, 48.83% Impervious, Inflow I	Depth > 2.58" for 5-year event
Inflow =	12.36 cfs @ 12.04 hrs, Volume=	0.778 af
Outflow =	12.36 cfs @ 12.04 hrs, Volume=	0.778 af, Atten= 0%, Lag= 0.0 min
Primary =	12.36 cfs @ 12.04 hrs, Volume=	0.778 af

n= 0.012, Flow Area= 1.77 sf

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 247.85' @ 12.04 hrs Flood Elev= 249.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	245.00'	18.0" Round Culvert L= 36.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 245.00' / 244.00' S= 0.0278 '/' Cc= 0.900
			n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=11.92 cfs @ 12.04 hrs HW=247.71' (Free Discharge) ←1=Culvert (Inlet Controls 11.92 cfs @ 6.75 fps)

Summary for Pond 10P: Stormwater Basin

Inflow Area =	=	4.169 ac, 43.44% Impervious, Inflow Depth > 2.37" for 5-year event	
Inflow =	:	15.79 cfs @ 12.06 hrs, Volume= 0.823 af	
Outflow =	:	1.79 cfs @ 12.61 hrs, Volume= 0.575 af, Atten= 89%, Lag= 32.9 min	n
Primary =	:	1.79 cfs @ 12.61 hrs, Volume= 0.575 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.75' @ 12.61 hrs Surf.Area= 7,523 sf Storage= 15,132 cf

Plug-Flow detention time= 161.9 min calculated for 0.575 af (70% of inflow)

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Volume	Inve	rt Avail.Sto	rage Storage	Description	
#1	240.00	D' 26,6	54 cf Custom	Stage Data (Pris	matic) Listed below (Recalc)
Elevatic (fee		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
240.0	00	508	0	0	
242.0	00	892	1,400	1,400	
244.0	00	1,386	2,278	3,678	
245.0	00	2,520	1,953	5,631	
245.5	50	5,230	1,938	7,569	
246.0	00	5,523	2,688	10,257	
248.0	00	10,874	16,397	26,654	
Device	Routing	Invert	Outlet Devices	S	
#1	Primary	242.50'			CPP, square edge headwall, Ke= 0.500
					242.00' S= 0.0156 '/' Cc= 0.900
			,	w Area= 1.77 sf	
#2	Device 1	245.50'		ice/Grate C= 0	
#3	Device 1	246.50'		oriz. Orifice/Gra r flow at low hea	
#4	Device 1	247.00'	6.0" x 12.0" H	oriz. Orifice/Gra r flow at low hea	te $C = 0.600$

Center-of-Mass det. time= 94.4 min (908.0 - 813.6)

Primary OutFlow Max=1.87 cfs @ 12.61 hrs HW=246.75' (Free Discharge)

-1=Culvert (Passes 1.87 cfs of 15.91 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.67 cfs @ 4.91 fps)

-3=Orifice/Grate (Orifice Controls 1.20 cfs @ 2.39 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

Summary for Pond FB: Forebay

Inflow Area =	3.619 ac, 48.83% Impervious, Inflo	w Depth > 2.58" for 5-year event
Inflow =	12.36 cfs @ 12.04 hrs, Volume=	0.778 af
Outflow =	14.44 cfs @ 12.06 hrs, Volume=	0.740 af, Atten= 0%, Lag= 1.2 min
Primary =	1.41 cfs @ 12.06 hrs, Volume=	0.547 af
Secondary =	13.03 cfs @ 12.06 hrs, Volume=	0.193 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.29' @ 12.06 hrs Surf.Area= 2,475 sf Storage= 7,510 cf

Plug-Flow detention time= 59.6 min calculated for 0.737 af (95% of inflow) Center-of-Mass det. time= 41.4 min (815.3 - 773.9)

Volume	Invert	Avail.Storage	Storage Description
#1	242.00'	9,375 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevatio (fee		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
242.0)0	1,096	0	0	
244.0	00	1,678	2,774	2,774	
246.0	00	2,365	4,043	6,817	
247.0)0	2,750	2,558	9,375	
Device	Routing	Invert	Outlet Devices		
#1	Primary	243.00'	6.0" Round Cu	lvert	
#2	Seconda	ry 246.00'	 6.0" Round Culvert L= 36.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 243.00' / 242.50' S= 0.0139 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf 35.0' long x 4.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32 		

Primary OutFlow Max=1.40 cfs @ 12.06 hrs HW=246.27' (Free Discharge) ←1=Culvert (Barrel Controls 1.40 cfs @ 7.14 fps)

Secondary OutFlow Max=11.95 cfs @ 12.06 hrs HW=246.27' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 11.95 cfs @ 1.27 fps)

Summary for Pond P-1: Forebay

Inflow Area	a =	1.205 ac, 3	7.50% Impervious	Inflow Depth >	2.37" for	5-year event
Inflow	=	3.24 cfs @	12.06 hrs, Volume	e= 0.238	af	
Outflow	=	3.01 cfs @	12.12 hrs, Volume	e= 0.168	af, Atten=7	7%, Lag= 3.7 min
Primary	=	3.01 cfs @	12.12 hrs, Volume	e= 0.168	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 285.29' @ 12.12 hrs Surf.Area= 1,636 sf Storage= 3,483 cf

Plug-Flow detention time= 112.0 min calculated for 0.168 af (71% of inflow) Center-of-Mass det. time= 46.0 min (828.6 - 782.6)

Volume	Invert A	vail.Storage	Storage D	escription			
#1	282.00'	4,711 cf	Custom S	tage Data (Pris	smatic) Listed	below (Reca	llc)
Elevation (feet)	Surf.Are (sq-		c.Store ic-feet)	Cum.Store (cubic-feet)			
282.00	54	45	0	0			
284.00	1,13	30	1,675	1,675			
285.00	1,50	65	1,348	3,023			
286.00	1,8	12	1,689	4,711			
Device Re	outing	Invert Out	let Devices				
#1 Pr	imary	285.00' 8.0'	long x 8.0'	breadth Broad	d-Crested Rec	tangular We	ir
	-	Hea	ad (feet) 0.2	0 0.40 0.60 0	0.80 1.00 1.20	0 1.40 1.60	1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=2.78 cfs @ 12.12 hrs HW=285.27' (Free Discharge) ←1=Broad-Crested Rectangular Weir (Weir Controls 2.78 cfs @ 1.28 fps)

Summary for Pond P-2: Stormwater Pond

Inflow Area =	1.383 ac, 32.67% Impervious,	Inflow Depth > 1.68" for 5-year event
Inflow =	3.24 cfs @ 12.12 hrs, Volume	= 0.193 af
Outflow =	0.35 cfs @ 13.15 hrs, Volume	= 0.152 af, Atten= 89%, Lag= 61.6 min
Primary =	0.35 cfs @ 13.15 hrs, Volume	= 0.152 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 273.37' @ 13.15 hrs Surf.Area= 3,007 sf Storage= 3,696 cf

Plug-Flow detention time= 147.4 min calculated for 0.152 af (79% of inflow) Center-of-Mass det. time= 92.3 min (917.5 - 825.2)

Volume	Inve	rt Avail.Sto	rage Storage	e Description		
#1	272.0	0' 22,67	75 cf Custom	n Stage Data (Pris	smatic) Listed below (Recalc)	
Elevatio	.	Surf.Area	Inc.Store	Cum.Store		
(fee		(sq-ft)	(cubic-feet)	(cubic-feet)		
272.0	,	2,375	0	0		
274.0	00	3,295	5,670	5,670		
276.0	00	4,225	7,520	13,190		
278.0	00	5,260	9,485	22,675		
Device	Routing	Invert	Outlet Device	es		
#1	Primary	272.00'	18.0" Round	I Culvert		
					form to fill, Ke= 0.700	
			Inlet / Outlet	Invert= 272.00' / 2	270.00' S= 0.0667 '/' Cc= 0.900	
			,	ow Area= 1.77 sf		
#2	Device 1	272.50'		ifice/Grate C= 0		
#3	Device 1	275.00'		ifice/Grate C= 0		
#4	Primary	276.00'		" H Vert. Orifice/		
#5	Primary	277.00'	18.0" Horiz. (Orifice/Grate C=	= 0.600 Limited to weir flow at low hea	lds

Primary OutFlow Max=0.35 cfs @ 13.15 hrs HW=273.37' (Free Discharge)

-1=Culvert (Passes 0.35 cfs of 5.97 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.35 cfs @ 4.05 fps)

3=Orifice/Grate (Controls 0.00 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

-5=Orifice/Grate (Controls 0.00 cfs)

Summary for Subcatchment 1S: Drainage Area 1

Runoff = 0.70 cfs @ 12.13 hrs, Volume= 0.054 af, Depth> 3.28"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

_	А	rea (sf)	CN	Description			
		4,120	98	Paved park	ing, HSG B		
_		4,450	74	>75% Grass	s cover, Go	od, HSG C	
		8,570	86	Weighted A	verage		
		4,450		51.93% Per	vious Area		
		4,120		48.07% Imp	ervious Are	ea	
	Tc (min)	Length (feet)	Slop (ft/ft		Capacity (cfs)	Description	
	9.1	111	0.071	0 0.20		Sheet Flow, Tc-1	
						Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 2S: Drainage Area 2

Runoff = 1.41 cfs @ 12.01 hrs, Volume= 0.086 af, Depth> 3.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

	А	rea (sf)	CN	Description				
		6,287	74	>75% Gras	s cover, Go	ood, HSG C		
*		7,033	98	Roof/paven	nent			
		13,320	87	37 Weighted Average				
		6,287		47.20% Pervious Area				
		7,033		52.80% Imp	pervious Are	ea		
	Тс	Length	Slop		Capacity	Description		
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
	1.0	125	0.010	2.03		Shallow Concentrated Flow, Tc-2		
						Paved Kv= 20.3 fps		

Summary for Subcatchment 2S': Overland to Wetlands

Runoff = 3.23 cfs @ 12.18 hrs, Volume= 0.268 af, Depth> 1.81"

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	A	rea (sf)	CN	Description			
		38,320	73	Woods, Fai	r, HSG C		
		21,500	55	Woods, Go	od, HSG B		
		2,724	98	Roofs, HSC	βB		
_		15,044	74	>75% Gras	s cover, Go	ood, HSG C	
		77,588	69	Weighted A	verage		
		74,864		96.49% Per	vious Area		
		2,724		3.51% Impe	ervious Area	a	
	Тс	Length	Slop		Capacity	Description	
_	<u>(min)</u>	(feet)	(ft/ft) (ft/sec)	(cfs)		
	12.2	200	0.110	0.27		Sheet Flow, Tc-2s	
						Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 3S: Drainage Area 3

Runoff =	2.03 cfs @	12.09 hrs, Volume	= 0.137 af, Depth> 2.90"
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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

_	A	rea (sf)	CN [Description		
*		8,529	98 F	Paved park	ing/roof	
		16,209	74 >	75% Ġras	s cover, Go	ood, HSG C
		24,738	82 \	Veighted A	verage	
		16,209	6	5.52% Per	vious Area	
		8,529	3	84.48% Imp	pervious Are	ea
	Тс	Length	Slope		Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	5.0	105	0.1100	0.35		Sheet Flow, Tc-4a
						Grass: Short n= 0.150 P2= 3.37"
	0.7	160	0.0310	3.57		Shallow Concentrated Flow, Tc-4b
						Paved Kv= 20.3 fps
	5.7	265	Total			

Summary for Subcatchment 4S: Drainage Area 4

Runoff = 6.69 cfs @ 12.03 hrs, Volume= 0.412 af, Depth> 3.09"

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_	А	rea (sf)	CN	Description		
*		30,200	98	Paved park	ing & roof H	HSG A
		20,000	74	>75% Gras	s cover, Go	ood, HSG C
_		19,500	73	Woods, Fai	r, HSG C	
		69,700	84	Weighted A	verage	
		39,500		56.67% Per	vious Area	3
		30,200		43.33% Imp	pervious Are	rea
	Тс	Length	Slop		Capacity	Description
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)	
	1.9	130	0.010	0 1.13		Sheet Flow, Tc-3
						Smooth surfaces n= 0.011 P2= 3.37"

Summary for Subcatchment 5S: Drainage Area 5

Runoff 2.80 cfs @ 12.02 hrs, Volume= 0.173 af, Depth> 3.28" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

_	A	rea (sf)	CN	Description				
*		13,450	98	Paved surfa	aces & roof			
_		14,147	74	>75% Gras	s cover, Go	od, HSG C		
		27,597	86	Weighted A	verage			
		14,147		51.26% Per	vious Area			
		13,450		48.74% lmp	pervious Are	ea		
_	Tc (min)	Length (feet)	Slop (ft/f		Capacity (cfs)	Description		
	1.3	180	0.050	0 2.29		Sheet Flow, Tc-5 Smooth surfaces	n= 0.011	P2= 3.37"

Summary for Subcatchment 6S: Drainage Area 6

Runoff 4.49 cfs @ 12.05 hrs, Volume= 0.280 af, Depth> 3.09" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

	Area (sf)	CN	Description
*	21,025	98	Pavement/Roofs, HSG B
	22,990	74	>75% Grass cover, Good, HSG C
	3,300	60	Woods, Fair, HSG B
	47,315	84	Weighted Average
	26,290		55.56% Pervious Area
	21,025		44.44% Impervious Area

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Proposed ConditionsType III 24-hrPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCPrinted 8/1/2022HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPage 31
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
3.2 180 0.0500 0.95 Lag/CN Method, Tc-6
Summary for Subcatchment 7S: Drainage Area 7
Runoff = 1.61 cfs @ 12.02 hrs, Volume= 0.109 af, Depth> 4.36"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"
Area (sf) CN Description
 * 12,295 98 Roof & Pavement * 716 74 >75% Grass cover, Good, HSG B/D
13,011 97 Weighted Average
7165.50% Pervious Area12,29594.50% Impervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
1.2 175 0.0580 2.42 Sheet Flow, Tc-7 Smooth surfaces n= 0.011 P2= 3.37"
Summary for Subcatchment 8S: Overland to Wetlands
Runoff = 6.84 cfs @ 12.21 hrs, Volume= 0.596 af, Depth> 1.73"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"
Area (sf) CN Description
24,323 74 >75% Grass cover, Good, HSG C
61,975 77 Woods, Good, HSG D 93,653 60 Woods, Fair, HSG B
179,951 68 Weighted Average 179,951 100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
14.1 152 0.1240 0.18 Sheet Flow, Tc-8 Woods: Light underbrush n= 0.400 P2= 3.37"
Summary for Subcatchment 9S: Overland to Basin 3
Runoff = 1.81 cfs @ 12.04 hrs, Volume= 0.109 af, Depth> 2.37"

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A	rea (sf)	CN	Description			
	22,063	74	>75% Gras	s cover, Go	bod, HSG C	
	1,920	98	Roofs, HSG	G C		
	23,983	76	Weighted A	verage		
	22,063		91.99% Per	vious Area		
	1,920 8.01% Impervious Area					
_				. .	-	
Tc	Length	Slope		Capacity	Description	
(min)	(feet)	(ft/ft) (ft/sec)	(cfs)		
2.3	145	0.1100) 1.05		Lag/CN Method, Tc-9	
	Summary for Subcatchment FB1: Overland to Forebay					

Runoff = 0.41 cfs @ 12.04 hrs, Volume= 0.025 af, Depth> 2.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

Α	rea (sf)	CN [Description		
	5,861	74 >	>75% Gras	s cover, Go	ood, HSG C
	5,861		100.00% Pe	ervious Area	a
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	98	0.0800	0.78		Lag/CN Method, Tc-FB-1

Summary for Subcatchment O-P2: Overland to Pond

Runoff = 0.54 cfs @ 12.03 hrs, Volume= 0.033 af, Depth> 2.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 10-year Rainfall=5.02"

 А	rea (sf)	CN E	Description			
7,761 74 >75% Grass cover, Good, HSG C						
7,761 100.00% Pervious Area					a	
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description	
1.3	30	0.0330	0.40		Lag/CN Method, Tc-P2	
Summary for Subcatchment OS: Overland to Swale						

Runoff = 0.99 cfs @ 12.04 hrs, Volume= 0.060 af, Depth> 2.05"

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Ar	ea (sf)	CN	Description			
	1,650	60	Woods, Fai	r, HSG B		
	13,622	74	>75% Grass	s cover, Go	ood, HSG C	
	15,272	72	Weighted A	verage		
	15,272		100.00% Pe	ervious Area	а	
Тс	Length	Slop		Capacity	Description	
(min)	(feet)	(ft/ft	t) (ft/sec)	(cfs)		
2.0					Direct Entry, Tc-OS	

Summary for Reach 1R: Wetland Swale

Inflow Area =	1.781 ac,	3.51% Impervious, Inflow D	epth > 1.81"	for 10-year event
Inflow =	3.23 cfs @	12.18 hrs, Volume=	0.268 af	
Outflow =	3.13 cfs @	12.27 hrs, Volume=	0.267 af, Atte	n= 3%, Lag= 5.3 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.65 fps, Min. Travel Time= 2.9 min Avg. Velocity = 0.74 fps, Avg. Travel Time= 6.5 min

Peak Storage= 549 cf @ 12.22 hrs Average Depth at Peak Storage= 0.14' Bank-Full Depth= 2.00' Flow Area= 106.7 sf, Capacity= 1,056.58 cfs

80.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 290.0' Slope= 0.0759 '/' Inlet Invert= 294.00', Outlet Invert= 272.00'



Summary for Reach 2R: Wetland Swale

Inflow Area =	7.646 ac,	6.73% Impervious, Inflow D	epth > 1.79" for 10-year event
Inflow =	10.48 cfs @	12.23 hrs, Volume=	1.143 af
Outflow =	9.64 cfs @	12.41 hrs, Volume=	1.129 af, Atten= 8%, Lag= 10.7 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.96 fps, Min. Travel Time= 6.1 min Avg. Velocity = 0.93 fps, Avg. Travel Time= 12.8 min

Peak Storage= 3,512 cf @ 12.31 hrs Average Depth at Peak Storage= 0.25' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 890.78 cfs

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Pollock - Louise Berry Type III 24-hr 10-year Rainfall=5.02" Printed 8/1/2022 C Page 34

85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 712.0' Slope= 0.0478 '/' Inlet Invert= 272.00', Outlet Invert= 238.00'

Summary for Reach 3R: Wet Swale

Inflow Area =	1.734 ac, 26.06% Impervious, Inflow Depth > 1.94" for 10-year	event
Inflow =	1.00 cfs @ 12.05 hrs, Volume= 0.280 af	
Outflow =	0.95 cfs @ 12.10 hrs, Volume= 0.279 af, Atten= 5%, Lag=	: 3.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.85 fps, Min. Travel Time= 1.5 min Avg. Velocity = 1.11 fps, Avg. Travel Time= 2.5 min

Peak Storage= 88 cf @ 12.07 hrs Average Depth at Peak Storage= 0.07' Bank-Full Depth= 1.00' Flow Area= 10.0 sf, Capacity= 99.84 cfs

8.00' x 1.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides Side Slope Z-value= 2.0 '/' Top Width= 12.00' Length= 165.0' Slope= 0.0970 '/' Inlet Invert= 270.00', Outlet Invert= 254.00'

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Summary for Reach 9R: Peak off Site

Inflow Area	a =	11.815 ac, 19.68% Impervious, Inflow Depth	> 1.94" for 10-year event
Inflow	=	13.19 cfs @ 12.42 hrs, Volume= 1.9	11 af
Outflow	=	13.19 cfs @ 12.42 hrs, Volume= 1.9	11 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 10-year Rainfall=5.02" Prepared by Killingly Engineering Associates, LLC Printed 8/1/2022 HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 35 Summary for Pond 1P: CB 1-2 0.197 ac, 48.07% Impervious, Inflow Depth > 3.28" for 10-year event Inflow Area = Inflow = 0.70 cfs @ 12.13 hrs, Volume= 0.054 af 0.70 cfs @ 12.13 hrs, Volume= 0.054 af, Atten= 0%, Lag= 0.0 min Outflow = Primary = 0.70 cfs @ 12.13 hrs, Volume= 0.054 af Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 311.89' @ 12.13 hrs Flood Elev= 316.00' **D** ...

Device	Routing	Invert	Outlet Devices
#1	Primary	311.50'	15.0" Round Culvert
			L= 128.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 311.50' / 298.95' S= 0.0975 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=0.68 cfs @ 12.13 hrs HW=311.89' (Free Discharge) —1=Culvert (Inlet Controls 0.68 cfs @ 2.12 fps)

Summary for Pond 2P: CB_3-4

Inflow Area =	0.503 ac, 50.95% Impervious, I	nflow Depth > 3.34" for 10-year event
Inflow =	1.81 cfs @ 12.03 hrs, Volume=	0.140 af
Outflow =	1.81 cfs @ 12.03 hrs, Volume=	0.140 af, Atten= 0%, Lag= 0.0 min
Primary =	1.81 cfs @ 12.03 hrs, Volume=	0.140 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 299.51' @ 12.03 hrs Flood Elev= 303.30'

Device	Routing	Invert	Outlet Devices	
#1	Primary	298.85'	15.0" Round Culvert	
			L= 131.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 298.85' / 286.60' S= 0.0934 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf	

Primary OutFlow Max=1.77 cfs @ 12.03 hrs HW=299.50' (Free Discharge) ←1=Culvert (Inlet Controls 1.77 cfs @ 2.75 fps)

Summary for Pond 3P: CB_5-6

Inflow Area =	1.070 ac, 42.21% Impervious, Inflov	w Depth > 3.11" for 10-year event
Inflow =	3.69 cfs @ 12.06 hrs, Volume=	0.277 af
Outflow =	3.69 cfs @ 12.06 hrs, Volume=	0.277 af, Atten= 0%, Lag= 0.0 min
Primary =	3.69 cfs @ 12.06 hrs, Volume=	0.277 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Dovico Pouting

Primary

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Peak Elev= 287.52' @ 12.06 hrs Flood Elev= 291.00'

Device	Rouing	Inven				
#1	Primary	286.50'	15.0" Round Culvert L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 286.50' / 285.70' S= 0.0099 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf			
	Primary OutFlow Max=3.60 cfs @ 12.06 hrs HW=287.50' (Free Discharge) ↓ 1=Culvert (Inlet Controls 3.60 cfs @ 3.41 fps)					
	Summary for Pond 4P: CB_7-8					
Inflow A Inflow Outflow	=	6.69 cfs @ 12	33% Impervious, Inflow Depth > 3.09" for 10-year event 2.03 hrs, Volume= 0.412 af 2.03 hrs, Volume= 0.412 af, Atten= 0%, Lag= 0.0 min			

0.412 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 274.40' @ 12.04 hrs Flood Elev= 277.00'

6.69 cfs @ 12.03 hrs, Volume=

 Device
 Routing
 Invert
 Outlet Devices

 #1
 Primary
 272.50'
 15.0" Round Culvert L= 128.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.50' / 263.70' S= 0.0686 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=6.42 cfs @ 12.03 hrs HW=274.31' (Free Discharge) ←1=Culvert (Inlet Controls 6.42 cfs @ 5.23 fps)

Summary for Pond 5P: CB-9

Inflow Area =	2.234 ac, 44.86% Impervious, In	flow Depth > 3.15" for 10-year event
Inflow =	9.44 cfs @ 12.03 hrs, Volume=	0.586 af
Outflow =	9.44 cfs @ 12.03 hrs, Volume=	0.586 af, Atten= 0%, Lag= 0.0 min
Primary =	9.44 cfs @ 12.03 hrs, Volume=	0.586 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 266.74' @ 12.03 hrs Flood Elev= 267.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.60'	15.0" Round Culvert L= 100.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 263.60' / 253.10' S= 0.1044 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=9.04 cfs @ 12.03 hrs HW=266.57' (Free Discharge) ←1=Culvert (Inlet Controls 9.04 cfs @ 7.37 fps)

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Primary OutFlow Max=13.36 cfs @ 12.04 hrs HW=256.22' (Free Discharge) ←1=Culvert (Inlet Controls 13.36 cfs @ 7.56 fps)

Summary for Pond 7P: CB_12-13

Inflow Area =	3.619 ac, 48.83% Impervious, Inflow I	Depth > 3.23" for 10-year event
Inflow =	15.35 cfs @ 12.04 hrs, Volume=	0.974 af
Outflow =	15.35 cfs @ 12.04 hrs, Volume=	0.974 af, Atten= 0%, Lag= 0.0 min
Primary =	15.35 cfs @ 12.04 hrs, Volume=	0.974 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 248.98' @ 12.04 hrs Flood Elev= 249.60'

Device	Routing	Invert	Outlet Devices	
#1	Primary	245.00'	18.0" Round Culvert L= 36.0' CPP, square edge headwall, Ke= 0.500	
			Inlet / Outlet Invert= 245.00' / 244.00' S= 0.0278 '/' Cc= 0.900	
			n= 0.012, Flow Area= 1.77 sf	

Primary OutFlow Max=14.79 cfs @ 12.04 hrs HW=248.77' (Free Discharge) ←1=Culvert (Inlet Controls 14.79 cfs @ 8.37 fps)

Summary for Pond 10P: Stormwater Basin

Inflow Area =	4.169 ac, 43.44% Impervious, Inflow	Depth > 3.00" for 10-year event
Inflow =	16.88 cfs @ 12.04 hrs, Volume=	1.044 af
Outflow =	3.60 cfs @ 12.46 hrs, Volume=	0.782 af, Atten= 79%, Lag= 24.9 min
Primary =	3.60 cfs @ 12.46 hrs, Volume=	0.782 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 247.19' @ 12.46 hrs Surf.Area= 8,701 sf Storage= 18,704 cf

Plug-Flow detention time= 137.7 min calculated for 0.782 af (75% of inflow)

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Volume	Inve		0 0	e Description	
#1	240.0	26,6	54 cf Custon	n Stage Data (Prisir	natic) Listed below (Recalc)
Elevatio		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
240.0)0	508	0	0	
242.0	00	892	1,400	1,400	
244.0	00	1,386	2,278	3,678	
245.0)0	2,520	1,953	5,631	
245.5	50	5,230	1,938	7,569	
246.0)0	5,523	2,688	10,257	
248.0	00	10,874	16,397	26,654	
Device	Routing	Invert	Outlet Devic	es	
#1	Primary	242.50'	18.0" Round	d Culvert L= 32.0'	CPP, square edge headwall, Ke= 0.500
	,				2.00' S= 0.0156 '/' Cc= 0.900
			n= 0.012, Fl	ow Area= 1.77 sf	
#2	Device 1	245.50'	5.0" Vert. Or	ifice/Grate C= 0.6	600
#3	Device 1	246.50'		Horiz. Orifice/Grate	• • • • • • • • • • • • • • • • • • • •
				eir flow at low heads	
#4	Device 1	247.00'		Horiz. Orifice/Grate	
			Limited to we	eir flow at low heads	S

Center-of-Mass det. time= 76.3 min (882.1 - 805.8)

Primary OutFlow Max=3.58 cfs @ 12.46 hrs HW=247.19' (Free Discharge)

-1=Culvert (Passes 3.58 cfs of 16.88 cfs potential flow)

1–2=Orifice/Grate (Orifice Controls 0.80 cfs @ 5.85 fps)

-3=Orifice/Grate (Orifice Controls 1.99 cfs @ 3.99 fps)

-4=Orifice/Grate (Weir Controls 0.79 cfs @ 1.41 fps)

Summary for Pond FB: Forebay

Inflow Area =	3.619 ac, 48.83% In	npervious, Inflow D	Depth > 3.23"	for 10-year event
Inflow =	15.35 cfs @ 12.04 hr	s, Volume=	0.974 af	
Outflow =	15.07 cfs @ 12.04 hr	s, Volume=	0.935 af, Atte	en= 2%, Lag= 0.4 min
Primary =	1.41 cfs @ 12.04 hr	s, Volume=	0.634 af	
Secondary =	13.66 cfs @ 12.04 hr	s, Volume=	0.301 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.29' @ 12.04 hrs Surf.Area= 2,478 sf Storage= 7,527 cf

Plug-Flow detention time= 53.9 min calculated for 0.935 af (96% of inflow) Center-of-Mass det. time= 38.3 min (807.4 - 769.1)

Volume	Invert	Avail.Storage	Storage Description
#1	242.00'	9,375 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Elevation

(feet)

242.00

244.00 246.00

247.00

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Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)					
1,096	0	0					
1,678	2,774	2,774					
2,365	4,043	6,817					
2,750	2,558	9,375					
	ort Outlot Dovice						

Device	Routing	Invert	Outlet Devices
#1	Primary	243.00'	6.0" Round Culvert
			L= 36.0' CPP, mitered to conform to fill, Ke= 0.700
			Inlet / Outlet Invert= 243.00' / 242.50' S= 0.0139 '/' Cc= 0.900
			n= 0.012, Flow Area= 0.20 sf
#2	Secondary	246.00'	35.0' long x 4.0' breadth Broad-Crested Rectangular Weir
	-		Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00
			2.50 3.00 3.50 4.00 4.50 5.00 5.50
			Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.68
			2.72 2.73 2.76 2.79 2.88 3.07 3.32

Primary OutFlow Max=1.41 cfs @ 12.04 hrs HW=246.29' (Free Discharge) ←1=Culvert (Barrel Controls 1.41 cfs @ 7.16 fps)

Secondary OutFlow Max=13.34 cfs @ 12.04 hrs HW=246.29' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 13.34 cfs @ 1.32 fps)

Summary for Pond P-1: Forebay

Inflow Area	=	1.205 ac, 3	7.50% Impervious	, Inflow Depth >	3.01" for 10-year event
Inflow :	=	4.08 cfs @	12.06 hrs, Volum	e= 0.302	af
Outflow :	=	3.93 cfs @	12.09 hrs, Volum	e= 0.232	af, Atten= 4%, Lag= 1.9 min
Primary :	=	3.93 cfs @	12.09 hrs, Volum	e= 0.232	af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 285.34' @ 12.09 hrs Surf.Area= 1,648 sf Storage= 3,564 cf

Plug-Flow detention time= 96.6 min calculated for 0.232 af (77% of inflow) Center-of-Mass det. time= 38.8 min (816.0 - 777.2)

Volume	Invert	Avail.Sto	orage Storag	ge Description				
#1	282.00'	4,7	11 cf Custo	om Stage Data (Pr	ismatic) Liste	ed below ((Recalc)	
Elevation (feet)	Su	urf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)				
282.00		545	0	0				
284.00		1,130	1,675	1,675				
285.00		1,565	1,348	3,023				
286.00		1,812	1,689	4,711				
Device R	outing	Invert	Outlet Devi	ces				
#1 P	rimary	285.00'	-	8.0' breadth Broa 0.20 0.40 0.60		•		0 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=3.88 cfs @ 12.09 hrs HW=285.33' (Free Discharge) ←1=Broad-Crested Rectangular Weir (Weir Controls 3.88 cfs @ 1.45 fps)

Summary for Pond P-2: Stormwater Pond

Inflow Area	a =	1.383 ac, 32.67% Impervious, Inflow Depth > 2.30" for 10-year event
Inflow	=	4.31 cfs @ 12.08 hrs, Volume= 0.265 af
Outflow	=	0.47 cfs @ 13.03 hrs, Volume= 0.220 af, Atten= 89%, Lag= 56.9 min
Primary	=	0.47 cfs @ 13.03 hrs, Volume= 0.220 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 273.94' @ 13.03 hrs Surf.Area= 3,266 sf Storage= 5,462 cf

Plug-Flow detention time= 154.8 min calculated for 0.219 af (83% of inflow) Center-of-Mass det. time= 108.2 min (921.7 - 813.5)

Volume	Volume Invert Avail.Storage		rage Storage	Description			
#1	272.0	0' 22,6	75 cf Custom	Stage Data (Prism	atic) Listed below (Recalc)		
Elevatio		Surf.Area	Inc.Store	Cum.Store			
fee		(sq-ft)	(cubic-feet)	(cubic-feet)			
`	1						
272.0		2,375	0	0			
274.0	-	3,295	5,670	5,670			
276.0		4,225	7,520	13,190			
278.0	00	5,260	9,485	22,675			
Device	Routing	Invert	Outlet Device	S			
#1	Primary	272.00'	18.0" Round	Culvert			
			L= 30.0' CPF	P, mitered to confor	m to fill, Ke= 0.700		
			Inlet / Outlet Ir	nvert= 272.00' / 270	0.00' S= 0.0667 '/' Cc= 0.900		
			n= 0.012, Flo	w Area= 1.77 sf			
#2	Device 1	272.50'	4.0" Vert. Orif	ice/Grate C= 0.6	00		
#3	Device 1	275.00'	6.0" Vert. Orifice/Grate C= 0.600				
#4	Primary	276.00'	12.0" W x 6.0'	" H Vert. Orifice/Gr	ate C= 0.600		
#5	Primary	277.00'	18.0" Horiz. C	18.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads			
	-						

Primary OutFlow Max=0.47 cfs @ 13.03 hrs HW=273.94' (Free Discharge)

-1=Culvert (Passes 0.47 cfs of 8.18 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.47 cfs @ 5.43 fps)

3=Orifice/Grate (Controls 0.00 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

-5=Orifice/Grate (Controls 0.00 cfs)

Summary for Subcatchment 1S: Drainage Area 1

Runoff = 0.89 cfs @ 12.13 hrs, Volume= 0.069 af, Depth> 4.20"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"

_	A	rea (sf)	CN	Description	Description						
		4,120	98	Paved park	ing, HSG B						
_		4,450	74	>75% Gras	s cover, Go	od, HSG C					
		8,570	86	Weighted A	verage						
		4,450		51.93% Per	vious Area						
		4,120		48.07% Imp	pervious Are	ea					
	_										
	Тс	Length	Slop		Capacity	Description					
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)						
	9.1	111	0.071	0 0.20		Sheet Flow, Tc-1					
						Grass: Dense n= 0.240	P2= 3.37"				

Summary for Subcatchment 2S: Drainage Area 2

Runoff = 1.77 cfs @ 12.01 hrs, Volume= 0.110 af, Depth> 4.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"

	А	rea (sf)	CN	Description		
		6,287	74	>75% Gras	s cover, Go	ood, HSG C
*		7,033	98	Roof/paven	nent	
		13,320	87	Weighted A	verage	
		6,287		47.20% Per	vious Area	
		7,033		52.80% Imp	pervious Are	ea
	Тс	Length	Slop		Capacity	Description
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)	
	1.0	125	0.010	2.03		Shallow Concentrated Flow, Tc-2
						Paved Kv= 20.3 fps

Summary for Subcatchment 2S': Overland to Wetlands

Runoff = 4.62 cfs @ 12.17 hrs, Volume= 0.377 af, Depth> 2.54"

Pollock - Louise Berry Type III 24-hr 25-year Rainfall=6.05" Printed 8/1/2022

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Proposed Conditions

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_	A	rea (sf)	CN	Description				
		38,320	73	Woods, Fai	r, HSG C			
		21,500	55	Woods, Go	od, HSG B			
		2,724	98	Roofs, HSG	βB			
_		15,044	74	>75% Gras	s cover, Go	od, HSG C		
	77,588 69 Weighted Average							
		74,864		96.49% Per	vious Area			
		2,724		3.51% Impe	ervious Area	a		
	Тс	Length	Slope		Capacity	Description		
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)			
	12.2	200	0.110	0.27		Sheet Flow, Tc-2s		
						Grass: Dense n= 0.240	P2= 3.37"	

Summary for Subcatchment 3S: Drainage Area 3

Runoff = 2.62 cfs @	12.09 hrs, Volume=	0.179 af, Depth> 3.79"
---------------------	--------------------	------------------------

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"

	A	rea (sf)	CN I	Description						
*		8,529	98 I	Paved parking/roof						
		16,209	74 >	>75% Ġras	s cover, Go	bod, HSG C				
		24,738	82 \	Neighted A	verage					
		16,209	6	65.52% Per	vious Area					
		8,529	3	34.48% Imp	pervious Are	ea				
	Тс	Length	Slope		Capacity	Description				
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)					
	5.0	105	0.1100	0.35		Sheet Flow, Tc-4a				
						Grass: Short n= 0.150 P2= 3.37"				
	0.7	160	0.0310	3.57		Shallow Concentrated Flow, Tc-4b				
_						Paved Kv= 20.3 fps				
	5.7	265	Total							

Summary for Subcatchment 4S: Drainage Area 4

Runoff = 8.55 cfs @ 12.03 hrs, Volume= 0.533 af, Depth> 4.00"

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	A	rea (sf)	CN	Description				
*		30,200	98	Paved park	Paved parking & roof HSG A			
		20,000	74	>75% Gras	s cover, Go	bod, HSG C		
		19,500	73	Woods, Fair, HSG C				
		69,700	84	Weighted A	verage			
		39,500		56.67% Per	rvious Area			
		30,200		43.33% Imp	pervious Are	ea		
	Тс	Length	Slop		Capacity	Description		
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)			
	1.9	130	0.010	0 1.13		Sheet Flow, Tc-3		
						Smooth surfaces n= 0.011 P2= 3.37"		

Summary for Subcatchment 5S: Drainage Area 5

Runoff = 3.55 cfs @ 12.02 hrs, Volume= 0.222 af, Depth> 4.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"

	A	rea (sf)	CN	Description			
*		13,450	98	Paved surfa	aces & roof		
		14,147	74	>75% Gras	s cover, Go	od, HSG C	
		27,597	86	Weighted A	verage		
		14,147		51.26% Per	vious Area		
		13,450		48.74% Imp	pervious Are	ea	
(Tc min)	Length (feet)	Slop (ft/f		Capacity (cfs)	Description	
	1.3	180	0.050	0 2.29		Sheet Flow, Tc-5 Smooth surfaces	P2= 3.37"

Summary for Subcatchment 6S: Drainage Area 6

Runoff = 5.74 cfs @ 12.05 hrs, Volume= 0.362 af, Depth> 4.00"

	Area (sf)	CN	Description
*	21,025	98	Pavement/Roofs, HSG B
	22,990	74	>75% Grass cover, Good, HSG C
	3,300	60	Woods, Fair, HSG B
	47,315	84	Weighted Average
	26,290		55.56% Pervious Area
	21,025		44.44% Impervious Area

Proposed ConditionsType III 24-hrPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCPrinted 8/1/2022HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPage 44					
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)					
3.2 180 0.0500 0.95 Lag/CN Method, Tc-6					
Summary for Subcatchment 7S: Drainage Area 7					
Runoff = 1.95 cfs @ 12.02 hrs, Volume= 0.132 af, Depth> 5.30"					
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"					
Area (sf) CN Description					
 * 12,295 98 Roof & Pavement * 716 74 >75% Grass cover, Good, HSG B/D 					
13,011 97 Weighted Average					
716 5.50% Pervious Area					
12,295 94.50% Impervious Area					
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)					
1.2 175 0.0580 2.42 Sheet Flow, Tc-7 Smooth surfaces n= 0.011 P2= 3.37"					
Summary for Subcatchment 8S: Overland to Wetlands					
Runoff = 9.79 cfs @ 12.20 hrs, Volume= 0.843 af, Depth> 2.45"					
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"					
Area (sf) CN Description					
24,323 74 >75% Grass cover, Good, HSG C					
61,975 77 Woods, Good, HSG D 93,653 60 Woods, Fair, HSG B					
179,95168Weighted Average179,951100.00% Pervious Area					
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)					
14.1 152 0.1240 0.18 Sheet Flow, Tc-8 Woods: Light underbrush n= 0.400 P2= 3.37"					
Summary for Subcatchment 9S: Overland to Basin 3					
Runoff = 2.42 cfs @ 12.04 hrs, Volume= 0.147 af, Depth> 3.20"					

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A	rea (sf)	CN	Description			
	22,063	74	>75% Gras	s cover, Go	ood, HSG C	
	1,920	98	Roofs, HSC	G C		
	23,983	76	Weighted A	verage		
	22,063		91.99% Per	vious Area		
	1,920		8.01% Impe	ervious Area	a	
Tc (min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description	
2.3	145	0.110	0 1.05		Lag/CN Method, Tc-9	
	Summary for Subcatchment FB1: Overland to Forebay					

Runoff = 0.56 cfs @ 12.04 hrs, Volume= 0.034 af, Depth> 3.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"

Ar	ea (sf)	CN I	Description				
	5,861	74 >75% Grass cover, Good, HSG C					
	5,861	100.00% Pervious Area					
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
2.1	98	0.0800	0.78		Lag/CN Method, Tc-FB-1		

Summary for Subcatchment O-P2: Overland to Pond

Runoff = 0.74 cfs @ 12.02 hrs, Volume= 0.045 af, Depth> 3.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 25-year Rainfall=6.05"

A	rea (sf)	CN D	Description					
	7,761	74 >	74 >75% Grass cover, Good, HSG C					
	7,761	100.00% Pervious Area						
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description			
1.3	30	0.0330	0.40		Lag/CN Method, Tc-P2			
	Summary for Subcatchment OS: Overland to Swale							

Runoff = 1.37 cfs @ 12.04 hrs, Volume= 0.082 af, Depth> 2.82"

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Area (sf)	CN	Description			
1,650	60	Woods, Fai	r, HSG B		
13,622	74	>75% Grass	s cover, Go	ood, HSG C	
15,272	72	Weighted A	verage		
15,272		100.00% Pe	ervious Area	а	
Tc Length	Slop		Capacity	Description	
(min) (feet)	(ft/	ft) (ft/sec)	(cfs)		
2.0				Direct Entry, Tc-OS	

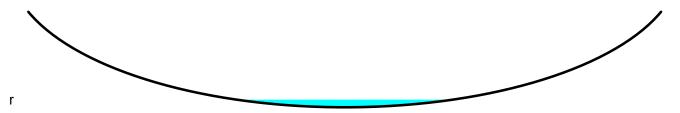
Summary for Reach 1R: Wetland Swale

Inflow Area =	1.781 ac,	3.51% Impervious, Inflow	Depth > 2.54"	for 25-year event
Inflow =	4.62 cfs @	12.17 hrs, Volume=	0.377 af	
Outflow =	4.45 cfs @	12.26 hrs, Volume=	0.375 af, Atte	en= 4%, Lag= 4.9 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.84 fps, Min. Travel Time= 2.6 min Avg. Velocity = 0.79 fps, Avg. Travel Time= 6.1 min

Peak Storage= 704 cf @ 12.21 hrs Average Depth at Peak Storage= 0.16' Bank-Full Depth= 2.00' Flow Area= 106.7 sf, Capacity= 1,056.58 cfs

80.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 290.0' Slope= 0.0759 '/' Inlet Invert= 294.00', Outlet Invert= 272.00'



Summary for Reach 2R: Wetland Swale

Inflow Area =	7.646 ac,	6.73% Impervious, Infl	ow Depth > 2.52"	for 25-year event
Inflow =	15.08 cfs @	12.22 hrs, Volume=	1.607 af	-
Outflow =	13.91 cfs @	12.38 hrs, Volume=	1.590 af, Atte	en= 8%, Lag= 9.5 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.19 fps, Min. Travel Time= 5.4 min Avg. Velocity = 0.99 fps, Avg. Travel Time= 11.9 min

Peak Storage= 4,546 cf @ 12.29 hrs Average Depth at Peak Storage= 0.29' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 890.78 cfs

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85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 712.0' Slope= 0.0478 '/' Inlet Invert= 272.00', Outlet Invert= 238.00'

Inflow Area = 11.815 ac, 19.68% Impervious, Inflow Depth > 2.71" for 25-year event 19.55 cfs @ 12.38 hrs, Volume= 2.667 af Inflow = 19.55 cfs @ 12.38 hrs, Volume= Outflow 2.667 af, Atten= 0%, Lag= 0.0 min =

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Inflow Area = Inflow = Outflow =	1.734 ac, 26.06% Impervious, Inflow Depth > 2.70" for 25-year event1.66 cfs @ 12.05 hrs, Volume=0.390 af1.54 cfs @ 12.09 hrs, Volume=0.389 af, Atten= 7%, Lag= 2.3 min					
Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.26 fps, Min. Travel Time= 1.2 min Avg. Velocity = 1.22 fps, Avg. Travel Time= 2.3 min						
Average Depth at	Peak Storage= 120 cf @ 12.06 hrs Average Depth at Peak Storage= 0.09' Bank-Full Depth= 1.00' Flow Area= 10.0 sf, Capacity= 99.84 cfs					
Side Slope Z-valu Length= 165.0'	ep channel, n= 0.040 Earth, cobble bottom, clean sides ue= 2.0 '/' Top Width= 12.00' Slope= 0.0970 '/' 00', Outlet Invert= 254.00'					

Summary for Reach 3R: Wet Swale

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Summary for Reach 9R: Peak off Site

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 25-year Rainfall=6.05" Prepared by Killingly Engineering Associates, LLC Printed 8/1/2022 HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 48 Summary for Pond 1P: CB 1-2 0.197 ac, 48.07% Impervious, Inflow Depth > 4.20" for 25-year event Inflow Area = 0.89 cfs @ 12.13 hrs, Volume= 0.069 af Inflow = 0.89 cfs @ 12.13 hrs, Volume= 0.069 af, Atten= 0%, Lag= 0.0 min Outflow = Primary = 0.89 cfs @ 12.13 hrs, Volume= 0.069 af Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 311.94' @ 12.13 hrs Flood Elev= 316.00' Doution Douting Invert Outlet Devices

Device	Routing	Invert	Outlet Devices
#1	Primary	311.50'	15.0" Round Culvert
			L= 128.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 311.50' / 298.95' S= 0.0975 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=0.87 cfs @ 12.13 hrs HW=311.94' (Free Discharge) -1=Culvert (Inlet Controls 0.87 cfs @ 2.26 fps)

Summary for Pond 2P: CB_3-4

Inflow Area =	0.503 ac, 50.95% Impervious, Inflow	Depth > 4.27" for 25-year event
Inflow =	2.29 cfs @ 12.03 hrs, Volume=	0.179 af
Outflow =	2.29 cfs @ 12.03 hrs, Volume=	0.179 af, Atten= 0%, Lag= 0.0 min
Primary =	2.29 cfs @ 12.03 hrs, Volume=	0.179 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 299.60' @ 12.03 hrs Flood Elev= 303.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	298.85'	15.0" Round Culvert L= 131.1' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 298.85' / 286.60' S= 0.0934 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.24 cfs @ 12.03 hrs HW=299.59' (Free Discharge) ←1=Culvert (Inlet Controls 2.24 cfs @ 2.94 fps)

Summary for Pond 3P: CB_5-6

Inflow Area =	1.070 ac,	42.21% Impervious,	Inflow Depth > 4.0	2" for 25-year event
Inflow =	4.72 cfs @	12.06 hrs, Volume	= 0.358 af	-
Outflow =	4.72 cfs @	12.06 hrs, Volume	= 0.358 af, /	Atten= 0%, Lag= 0.0 min
Primary =	4.72 cfs @	12.06 hrs, Volume	= 0.358 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 287.76' @ 12.06 hrs Flood Elev= 291.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	286.50'	15.0" Round Culvert L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 286.50' / 285.70' S= 0.0099 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf
Primary OutFlow Max=4.62 cfs @ 12.06 hrs HW=287.73' (Free Discharge)			

Summary for Pond 4P: CB_7-8

Inflow Area =	1.600 ac, 43.33% Impervious, Inflow	v Depth > 4.00" for 25-year event
Inflow =	8.55 cfs @ 12.03 hrs, Volume=	0.533 af
Outflow =	8.55 cfs @ 12.03 hrs, Volume=	0.533 af, Atten= 0%, Lag= 0.0 min
Primary =	8.55 cfs @ 12.03 hrs, Volume=	0.533 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 275.20' @ 12.03 hrs Flood Elev= 277.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	272.50'	15.0" Round Culvert L= 128.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.50' / 263.70' S= 0.0686 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=8.20 cfs @ 12.03 hrs HW=275.05' (Free Discharge) ←1=Culvert (Inlet Controls 8.20 cfs @ 6.68 fps)

Summary for Pond 5P: CB-9

Inflow Area	a =	2.234 ac, 44.86% Impervious, Inflow Depth > 4.06" for 25-year	r event
Inflow	=	12.02 cfs @ 12.03 hrs, Volume= 0.756 af	
Outflow	=	12.02 cfs @ 12.03 hrs, Volume= 0.756 af, Atten= 0%, Lag	= 0.0 min
Primary	=	12.02 cfs @ 12.03 hrs, Volume= 0.756 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 268.31' @ 12.03 hrs Flood Elev= 267.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.60'	15.0" Round Culvert L= 100.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 263.60' / 253.10' S= 0.1044 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=11.51 cfs @ 12.03 hrs HW=268.02' (Free Discharge) ←1=Culvert (Inlet Controls 11.51 cfs @ 9.38 fps) Proposed ConditionsTyPrepared by Killingly Engineering Associates, LLCHydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC

Summary for Pond 6P: CB_10-11

Inflow Area =	3.320 ac, 44.72% Impervious, Inflow	Depth > 4.04" for 25-year event
Inflow =	17.63 cfs @ 12.04 hrs, Volume=	1.118 af
Outflow =	17.63 cfs @ 12.04 hrs, Volume=	1.118 af, Atten= 0%, Lag= 0.0 min
Primary =	17.63 cfs @ 12.04 hrs, Volume=	1.118 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 258.02' @ 12.04 hrs Flood Elev= 259.50'

Device	Routing	Invert	Outlet Devices
	Primary		18.0" Round Culvert L= 172.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 253.00' / 245.10' S= 0.0459 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=17.02 cfs @ 12.04 hrs HW=257.75' (Free Discharge) -1=Culvert (Inlet Controls 17.02 cfs @ 9.63 fps)

Summary for Pond 7P: CB_12-13

Inflow Area =	3.619 ac, 48.83% Impervious, Inflow	Depth > 4.14" for 25-year event
Inflow =	19.48 cfs @ 12.04 hrs, Volume=	1.250 af
Outflow =	19.48 cfs @ 12.04 hrs, Volume=	1.250 af, Atten= 0%, Lag= 0.0 min
Primary =	19.48 cfs @ 12.04 hrs, Volume=	1.250 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 250.95' @ 12.04 hrs Flood Elev= 249.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	245.00'	18.0" Round Culvert L= 36.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 245.00' / 244.00' S= 0.0278 '/' Cc= 0.900
			n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=18.76 cfs @ 12.04 hrs HW=250.61' (Free Discharge) ←1=Culvert (Inlet Controls 18.76 cfs @ 10.62 fps)

Summary for Pond 10P: Stormwater Basin

Inflow Area =	4.169 ac, 43.44% Impervious, Inflow	Depth > 3.90" for 25-year event
Inflow =	21.90 cfs @ 12.04 hrs, Volume=	1.356 af
Outflow =	5.64 cfs @ 12.40 hrs, Volume=	1.077 af, Atten= 74%, Lag= 21.1 min
Primary =	5.64 cfs @ 12.40 hrs, Volume=	1.077 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 247.72' @ 12.40 hrs Surf.Area= 10,130 sf Storage= 23,735 cf

Plug-Flow detention time= 117.6 min calculated for 1.073 af (79% of inflow)

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Volume	Inve	rt Avail.Sto	rage Storage	ge Storage Description			
#1	240.00	D' 26,65	54 cf Custom	Stage Data (Prisn	natic) Listed below (Recalc)		
Elevatic (fee		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
240.0)0	508	0	0			
242.0	00	892	1,400	1,400			
244.0	00	1,386	2,278	3,678			
245.0	00	2,520	1,953	5,631			
245.5	50	5,230	1,938	7,569			
246.0	00	5,523	2,688	10,257			
248.0	00	10,874	16,397	26,654			
Device	Routing	Invert	Outlet Device	S			
#1	Primary	242.50'			CPP, square edge headwall, Ke= 0.500		
					12.00' S= 0.0156 '/' Cc= 0.900		
			n= 0.012, Flow Area= 1.77 sf				
#2	Device 1	245.50'		fice/Grate C= 0.0			
#3	Device 1	246.50'		loriz. Orifice/Grate			
#4	Device 1	247.00'	Limited to weir flow at low heads 6.0" x 12.0" Horiz. Orifice/Grate C= 0.600 Limited to weir flow at low heads				

Center-of-Mass det. time= 63.1 min (860.8 - 797.7)

Primary OutFlow Max=5.64 cfs @ 12.40 hrs HW=247.72' (Free Discharge)

-1=Culvert (Passes 5.64 cfs of 17.99 cfs potential flow)

1–2=Orifice/Grate (Orifice Controls 0.93 cfs @ 6.83 fps)

-3=Orifice/Grate (Orifice Controls 2.66 cfs @ 5.32 fps)

-4=Orifice/Grate (Orifice Controls 2.04 cfs @ 4.09 fps)

Summary for Pond FB: Forebay

Inflow Area =	3.619 ac, 4	18.83% Impervious, Infl	ow Depth > 4.14" for 25-year event
Inflow =	19.48 cfs @	12.04 hrs, Volume=	1.250 af
Outflow =	19.48 cfs @	12.05 hrs, Volume=	1.209 af, Atten= 0%, Lag= 0.6 min
Primary =	1.42 cfs @	12.05 hrs, Volume=	0.747 af
Secondary =	18.06 cfs @	12.05 hrs, Volume=	0.462 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.35' @ 12.05 hrs Surf.Area= 2,499 sf Storage= 7,667 cf

Plug-Flow detention time= 48.3 min calculated for 1.205 af (96% of inflow) Center-of-Mass det. time= 35.4 min (799.2 - 763.7)

Volume	Invert	Avail.Storage	Storage Description
#1	242.00'	9,375 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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Elevation (feet)		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
242.0	00	1,096	0	0			
244.0	00	1,678	2,774	2,774			
246.0	00	2,365	4,043	6,817			
247.00		2,750	2,558	9,375			
Device	Routing	Invert	Outlet Devices				
#1	Primary	243.00'	6.0" Round Cu	lvert			
#2	Seconda	ry 246.00'	L= 36.0' CPP, mitered to conform to fill, Ke= 0.700 Inlet / Outlet Invert= 243.00' / 242.50' S= 0.0139 '/' Cc= 0.900 n= 0.012, Flow Area= 0.20 sf 35.0' long x 4.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.38 2.54 2.69 2.68 2.67 2.67 2.65 2.66 2.66 2.68 2.72 2.73 2.76 2.79 2.88 3.07 3.32				

Primary OutFlow Max=1.42 cfs @ 12.05 hrs HW=246.35' (Free Discharge) ←1=Culvert (Barrel Controls 1.42 cfs @ 7.23 fps)

Secondary OutFlow Max=17.72 cfs @ 12.05 hrs HW=246.35' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 17.72 cfs @ 1.47 fps)

Summary for Pond P-1: Forebay

Inflow Area =	1.205 ac, 37.50% Impervious, Inflo	w Depth > 3.90" for 25-year event
Inflow =	5.26 cfs @ 12.06 hrs, Volume=	0.392 af
Outflow =	5.08 cfs @ 12.09 hrs, Volume=	0.322 af, Atten= 3%, Lag= 1.7 min
Primary =	5.08 cfs @ 12.09 hrs, Volume=	0.322 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 285.40' @ 12.09 hrs Surf.Area= 1,663 sf Storage= 3,663 cf

Plug-Flow detention time= 83.1 min calculated for 0.321 af (82% of inflow) Center-of-Mass det. time= 34.0 min (805.3 - 771.3)

Volume	Invert	Avail.Sto	orage Storag	ge Description				
#1	282.00'	4,7	11 cf Custo	om Stage Data (Pr	ismatic) Liste	ed below ((Recalc)	
Elevation (feet)	Su	urf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)				
282.00		545	0	0				
284.00		1,130	1,675	1,675				
285.00		1,565	1,348	3,023				
286.00		1,812	1,689	4,711				
Device R	outing	Invert	Outlet Devi	ces				
#1 P	rimary	285.00'	-	8.0' breadth Broa 0.20 0.40 0.60		•		0 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=4.99 cfs @ 12.09 hrs HW=285.39' (Free Discharge) ←1=Broad-Crested Rectangular Weir (Weir Controls 4.99 cfs @ 1.59 fps)

Summary for Pond P-2: Stormwater Pond

Inflow Area =	1.383 ac, 32.67% Impervious, Inflow	Depth > 3.18" for 25-year event
Inflow =	5.67 cfs @ 12.07 hrs, Volume=	0.366 af
Outflow =	0.60 cfs @ 13.01 hrs, Volume=	0.308 af, Atten= 89%, Lag= 56.3 min
Primary =	0.60 cfs @ 13.01 hrs, Volume=	0.308 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 274.72' @ 13.01 hrs Surf.Area= 3,630 sf Storage= 8,164 cf

Plug-Flow detention time= 171.8 min calculated for 0.308 af (84% of inflow) Center-of-Mass det. time= 127.0 min (930.3 - 803.3)

Volume	Inve	rt Avail.Sto	rage Storage	ge Storage Description			
#1	272.00	0' 22,67	75 cf Custom	Stage Data (Pris	matic) Listed below (Recalc)	1	
Elevatio	on S	Surf.Area	Inc.Store	Cum.Store			
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)			
272.0	00	2,375	0	0			
274.0	00	3,295	5,670	5,670			
276.0	00	4,225	7,520	13,190			
278.0	00	5,260	9,485	22,675			
Device	Routing	Invert	Outlet Device	s			
#1	Primary	272.00'	18.0" Round				
				·	form to fill, Ke= 0.700		
					270.00' S= 0.0667 '/' Cc= 0.	.900	
		,	n= 0.012, Flow Area= 1.77 sf				
#2	Device 1	272.50'		ice/Grate C= 0			
#3	Device 1	275.00'		ice/Grate C= 0			
#4 #5	Primary	276.00'			Grate $C = 0.600$	at low boods	
#5	Primary	277.00'		Grate C=	= 0.600 Limited to weir flow	at low neads	

Primary OutFlow Max=0.60 cfs @ 13.01 hrs HW=274.72' (Free Discharge)

-1=Culvert (Passes 0.60 cfs of 10.54 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.60 cfs @ 6.90 fps)

3=Orifice/Grate (Controls 0.00 cfs)

-4=Orifice/Grate (Controls 0.00 cfs)

-5=Orifice/Grate (Controls 0.00 cfs)

Summary for Subcatchment 1S: Drainage Area 1

Runoff = 1.03 cfs @ 12.13 hrs, Volume= 0.081 af, Depth> 4.93"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"

_	A	rea (sf)	CN	Description				
		4,120	98	Paved park	ing, HSG B			
		4,450	74	>75% Gras	s cover, Go	od, HSG C		
		8,570	86	Weighted A	verage			
		4,450		51.93% Per	vious Area			
		4,120		48.07% Impervious Area				
	_		~		•			
	Tc	Length	Slop		Capacity	Description		
_	(min)	(feet)	(ft/f	:) (ft/sec)	(cfs)			
	9.1	111	0.071	0 0.20		Sheet Flow, Tc-1		
						Grass: Dense n= 0.240	P2= 3.37"	

Summary for Subcatchment 2S: Drainage Area 2

Runoff = 2.05 cfs @ 12.01 hrs, Volume= 0.129 af, Depth> 5.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"

	A	rea (sf)	CN	Description					
		6,287	74	>75% Gras	s cover, Go	ood, HSG C			
*		7,033	98	Roof/paven	nent				
		13,320	87	Weighted A	Weighted Average				
		6,287		47.20% Pervious Area					
		7,033		52.80% Impervious Area					
	_				- ·				
	Тс	Length	Slop		Capacity	Description			
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)				
	1.0	125	0.010	0 2.03		Shallow Concentrated Flow, Tc-2			
						Paved Kv= 20.3 fps			

Summary for Subcatchment 2S': Overland to Wetlands

Runoff = 5.73 cfs @ 12.17 hrs, Volume= 0.466 af, Depth> 3.14"

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A	rea (sf)	CN	Description			
	38,320	73	Woods, Fai	r, HSG C		
	21,500	55	Woods, Go	od, HSG B		
	2,724	98	Roofs, HSG	βB		
	15,044	74	>75% Gras	s cover, Go	ood, HSG C	
	77,588	69	Weighted A	verage		
	74,864		96.49% Per	vious Area		
	2,724		3.51% Impervious Area			
Тс	Length	Slope	Velocity	Capacity	Description	
(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	-	
12.2	200	0.1100	0.27		Sheet Flow, Tc-2s	
					Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 3S: Drainage Area 3

Runoff	=	3.08 cfs @	12.09 hrs,	Volume=	0.213 af, Depth> 4.50"
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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"

_	A	rea (sf)	CN [Description		
*		8,529	98 F	Paved park	ing/roof	
		16,209	74 >	75% Ġras	s cover, Go	ood, HSG C
		24,738	82 \	Veighted A	verage	
		16,209	6	5.52% Per	vious Area	
		8,529	3	84.48% Imp	pervious Are	ea
	Тс	Length	Slope		Capacity	Description
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)	
	5.0	105	0.1100	0.35		Sheet Flow, Tc-4a
						Grass: Short n= 0.150 P2= 3.37"
	0.7	160	0.0310	3.57		Shallow Concentrated Flow, Tc-4b
						Paved Kv= 20.3 fps
	5.7	265	Total			

Summary for Subcatchment 4S: Drainage Area 4

Runoff = 9.99 cfs @ 12.03 hrs, Volume= 0.629 af, Depth> 4.72"

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	A	rea (sf)	CN	Description				
*		30,200	98	Paved park	ing & roof H	HSG A		
		20,000	74	>75% Gras	s cover, Go	bod, HSG C		
_		19,500	73	Woods, Fair, HSG C				
		69,700	84	Weighted Average				
		39,500		56.67% Pervious Area				
		30,200		43.33% Impervious Area				
	Тс	Length	Slop		Capacity	Description		
	<u>(min)</u>	(feet)	(ft/f	t) (ft/sec)	(cfs)			
	1.9	130	0.010	0 1.13		Sheet Flow, Tc-3		
						Smooth surfaces n= 0.011 P2= 3.37"		

Summary for Subcatchment 5S: Drainage Area 5

Runoff 4.13 cfs @ 12.02 hrs, Volume= 0.261 af, Depth> 4.94" =

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"

_	A	rea (sf)	CN	Description					
*		13,450	98	Paved surfa	aces & roof				
_		14,147	74	>75% Gras	s cover, Go	od, HSG C			
		27,597	86	Weighted Average					
		14,147							
		13,450		48.74% Impervious Area					
	Tc (min)	Length (feet)	Slop (ft/f		Capacity (cfs)	Description			
	1.3	180	0.050	0 2.29		Sheet Flow, Tc-5			
						Smooth surfaces	n= 0.011	P2= 3.37"	

Summary for Subcatchment 6S: Drainage Area 6

Runoff 6.71 cfs @ 12.05 hrs, Volume= 0.427 af, Depth> 4.72" =

	Area (sf)	CN	Description
*	21,025	98	Pavement/Roofs, HSG B
	22,990	74	>75% Grass cover, Good, HSG C
	3,300	60	Woods, Fair, HSG B
	47,315	84	Weighted Average
	26,290		55.56% Pervious Area
	21,025		44.44% Impervious Area

Proposed ConditionsType III 24-hrSo-year Rainfall=6.85"Prepared by Killingly Engineering Associates, LLCPrinted 8/1/2022HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPage 57
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
3.2 180 0.0500 0.95 Lag/CN Method, Tc-6
Summary for Subcatchment 7S: Drainage Area 7
Runoff = 2.21 cfs @ 12.02 hrs, Volume= 0.150 af, Depth> 6.03"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"
Area (sf) CN Description
 * 12,295 98 Roof & Pavement * 716 74 >75% Grass cover, Good, HSG B/D
13,011 97 Weighted Average
7165.50% Pervious Area12,29594.50% Impervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
1.2 175 0.0580 2.42 Sheet Flow, Tc-7 Smooth surfaces n= 0.011 P2= 3.37"
Summary for Subcatchment 8S: Overland to Wetlands
Runoff = 12.20 cfs @ 12.20 hrs, Volume= 1.047 af, Depth> 3.04"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"
Area (sf) CN Description
24,323 74 >75% Grass cover, Good, HSG C
61,975 77 Woods, Good, HSG D 93,653 60 Woods, Fair, HSG B
179,951 68 Weighted Average
179,951 100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
14.1 152 0.1240 0.18 Sheet Flow, Tc-8 Woods: Light underbrush n= 0.400 P2= 3.37"
Summary for Subcatchment 9S: Overland to Basin 3
Runoff = 2.91 cfs @ 12.04 hrs, Volume= 0.177 af, Depth> 3.86"
Bunoff by SCS TB 20 method UH-SCS Waighted CN. Time Span- 5.00.20.00 bro. dt- 0.05 bro

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А	rea (sf)	CN	Description					
-	22,063				ood, HSG C			
	1,920		Roofs, HSC					
	23,983	76	Weighted A	verage				
	22,063		91.99% Per	vious Area				
	1,920		8.01% Impe	ervious Area	a			
Tc (min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description			
2.3	145	0.1100) 1.05		Lag/CN Method, Tc-9			
	Summary for Subcatchment FB1: Overland to Forebay							

Runoff = 0.68 cfs @ 12.04 hrs, Volume= 0.041 af, Depth> 3.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"

/	Area (sf)	CN	Description						
	5,861	74 :	74 >75% Grass cover, Good, HSG C						
	5,861		100.00% Pervious Area						
To (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
2.1	98	0.0800	0.78		Lag/CN Method, Tc-FB-1				

Summary for Subcatchment O-P2: Overland to Pond

Runoff = 0.90 cfs @ 12.02 hrs, Volume= 0.054 af, Depth> 3.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 50-year Rainfall=6.85"

A	rea (sf)	CN E	Description						
	7,761 74 >75% Grass cover, Good, HSG C								
	7,761 100.00% Pervious Area								
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description				
1.3	30	0.0330	0.40		Lag/CN Method, Tc-P2				
	Summary for Subcatchment OS: Overland to Swale								

Runoff = 1.67 cfs @ 12.04 hrs, Volume= 0.101 af, Depth> 3.45"

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Are	a (sf)	CN	Description		
	1,650	60	Woods, Fair	r, HSG B	
1;	3,622	74	>75% Grass	s cover, Go	bod, HSG C
15	5,272	72	Weighted A	verage	
15	5,272		100.00% Pe	ervious Area	a
Tc L	_ength	Slop		Capacity	Description
(min)	(feet)	(ft/ft	t) (ft/sec)	(cfs)	
2.0					Direct Entry, Tc-OS

Summary for Reach 1R: Wetland Swale

Inflow Area =	1.781 ac,	3.51% Impervious, Inflow I	Depth > 3.14"	for 50-year event
Inflow =	5.73 cfs @	12.17 hrs, Volume=	0.466 af	
Outflow =	5.51 cfs @	12.25 hrs, Volume=	0.464 af, Atte	en= 4%, Lag= 4.7 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 1.97 fps, Min. Travel Time= 2.4 min Avg. Velocity = 0.82 fps, Avg. Travel Time= 5.9 min

Peak Storage= 818 cf @ 12.21 hrs Average Depth at Peak Storage= 0.18' Bank-Full Depth= 2.00' Flow Area= 106.7 sf, Capacity= 1,056.58 cfs

80.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 290.0' Slope= 0.0759 '/' Inlet Invert= 294.00', Outlet Invert= 272.00'



Summary for Reach 2R: Wetland Swale

Inflow Area :	=	7.646 ac,	6.73% Impervious, Int	flow Depth > 3.11"	for 50-year event
Inflow =		18.76 cfs @	12.22 hrs, Volume=	1.983 af	-
Outflow =	•	17.45 cfs @	12.36 hrs, Volume=	1.963 af, Atte	en= 7%, Lag= 8.9 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.34 fps, Min. Travel Time= 5.1 min Avg. Velocity = 1.04 fps, Avg. Travel Time= 11.4 min

Peak Storage= 5,315 cf @ 12.28 hrs Average Depth at Peak Storage= 0.33' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 890.78 cfs

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85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 712.0' Slope= 0.0478 '/' Inlet Invert= 272.00', Outlet Invert= 238.00'

Summary for Reach 9R: Peak off Site

Inflow Area = 11.815 ac, 19.68% Impervious, Inflow Depth > 3.33" for 50-year event Inflow 25.74 cfs @ 12.35 hrs, Volume= 3.275 af = Outflow 25.74 cfs @ 12.35 hrs, Volume= 3.275 af, Atten= 0%, Lag= 0.0 min =

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

r	
	Summary for Reach 3R: Wet Swale
Inflow Area =	1.734 ac, 26.06% Impervious, Inflow Depth > 3.28" for 50-year event
Inflow =	2.07 cfs @ 12.04 hrs, Volume= 0.473 af
Outflow =	1.95 cfs @ 12.07 hrs, Volume= 0.472 af, Atten= 6%, Lag= 1.8 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.47 fps, Min. Travel Time= 1.1 min Avg. Velocity = 1.27 fps, Avg. Travel Time= 2.2 min

Peak Storage= 137 cf @ 12.06 hrs Average Depth at Peak Storage= 0.10' Bank-Full Depth= 1.00' Flow Area= 10.0 sf, Capacity= 99.84 cfs

8.00' x 1.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides Side Slope Z-value= 2.0 '/' Top Width= 12.00' Length= 165.0' Slope= 0.0970 '/' Inlet Invert= 270.00', Outlet Invert= 254.00'

r

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 50-year Rainfall=6.85" Prepared by Killingly Engineering Associates, LLC Printed 8/1/2022 HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 61 Summary for Pond 1P: CB 1-2 0.197 ac, 48.07% Impervious, Inflow Depth > 4.93" for 50-year event Inflow Area = Inflow 1.03 cfs @ 12.13 hrs, Volume= 0.081 af = 1.03 cfs @ 12.13 hrs, Volume= 0.081 af, Atten= 0%, Lag= 0.0 min Outflow = Primary = 1.03 cfs @ 12.13 hrs, Volume= 0.081 af Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 311.98' @ 12.13 hrs

Flood Elev= 316.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	311.50'	15.0" Round Culvert L= 128.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 311.50' / 298.95' S= 0.0975 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.01 cfs @ 12.13 hrs HW=311.98' (Free Discharge) -1=Culvert (Inlet Controls 1.01 cfs @ 2.35 fps)

Summary for Pond 2P: CB_3-4

Inflow Area =	0.503 ac, 50.95% Impervious, Inflow	Depth > 5.00" for 50-year event
Inflow =	2.66 cfs @ 12.03 hrs, Volume=	0.209 af
Outflow =	2.66 cfs @ 12.03 hrs, Volume=	0.209 af, Atten= 0%, Lag= 0.0 min
Primary =	2.66 cfs @ 12.03 hrs, Volume=	0.209 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 299.67' @ 12.03 hrs Flood Elev= 303.30'

Device	Routing	Invert	Outlet Devices
	Primary	298.85'	15.0" Round Culvert L= 131.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 298.85' / 286.60' S= 0.0934 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=2.60 cfs @ 12.03 hrs HW=299.66' (Free Discharge) ←1=Culvert (Inlet Controls 2.60 cfs @ 3.07 fps)

Summary for Pond 3P: CB_5-6

Inflow Area	=	1.070 ac, 4	42.21% Impervious,	Inflow Depth >	4.73" for 50-yea	ar event
Inflow	=	5.52 cfs @	12.06 hrs, Volume	e= 0.422	af	
Outflow	=	5.52 cfs @	12.06 hrs, Volume	e= 0.422	af, Atten= 0%, Lag	g= 0.0 min
Primary	=	5.52 cfs @	12.06 hrs, Volume	= 0.422	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

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Peak Elev= 288.00' @ 12.06 hrs Flood Elev= 291.00'

Device	Routing	Invert	Outlet Devices	
#1	Primary	286.50'	15.0" Round Culvert L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 286.50' / 285.70' S= 0.0099 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf	
		Max=5.40 cfs @ et Controls 5.40	⊉ 12.06 hrs HW=287.96' (Free Discharge) cfs @ 4.40 fps)	
	Summary for Pond 4P: CB_7-8			
Inflow A Inflow			33% Impervious, Inflow Depth > 4.72" for 50-year event 2.03 hrs, Volume= 0.629 af	
Outflow Primary			2.03 hrs, Volume= 0.629 af, Atten= 0%, Lag= 0.0 min 2.03 hrs, Volume= 0.629 af	
Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 275.95' @ 12.03 hrs				

Flood Elev= 277.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	272.50'	15.0" Round Culvert L= 128.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.50' / 263.70' S= 0.0686 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=9.58 cfs @ 12.03 hrs HW=275.75′ (Free Discharge) ←1=Culvert (Inlet Controls 9.58 cfs @ 7.81 fps)

Summary for Pond 5P: CB-9

Inflow Area =	2.234 ac,	44.86% Impervious,	Inflow Depth > 4 .	78" for 50-year event
Inflow =	14.03 cfs @	2 12.03 hrs, Volume:	= 0.890 af	
Outflow =	14.03 cfs @	2 12.03 hrs, Volume:	= 0.890 af,	Atten= 0%, Lag= 0.0 min
Primary =	14.03 cfs @	2 12.03 hrs, Volume	= 0.890 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 269.79' @ 12.03 hrs Flood Elev= 267.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.60'	15.0" Round Culvert L= 100.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 263.60' / 253.10' S= 0.1044 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=13.43 cfs @ 12.03 hrs HW=269.39' (Free Discharge) ←1=Culvert (Inlet Controls 13.43 cfs @ 10.95 fps) **Proposed Conditions** Prepared by Killingly Engineering Associates, LLC HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC

Summary for Pond 6P: CB 10-11

Inflow Area =	3.320 ac, 44.72% Impervious, Inflow	Depth > 4.76" for 50-year event
Inflow =	20.59 cfs @ 12.04 hrs, Volume=	1.317 af
Outflow =	20.59 cfs @ 12.04 hrs, Volume=	1.317 af, Atten= 0%, Lag= 0.0 min
Primary =	20.59 cfs @ 12.04 hrs, Volume=	1.317 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 259.57' @ 12.04 hrs Flood Elev= 259.50'

Device R	Routing	Invert	Outlet Devices
	Primary	253.00'	18.0" Round Culvert L= 172.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 253.00' / 245.10' S= 0.0459 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=19.86 cfs @ 12.04 hrs HW=259.20' (Free Discharge) ←1=Culvert (Inlet Controls 19.86 cfs @ 11.24 fps)

Summary for Pond 7P: CB 12-13

Inflow Area =	3.619 ac, 48.83% Impervious, Inflov	w Depth > 4.86" for 50-year event
Inflow =	22.69 cfs @ 12.04 hrs, Volume=	1.467 af
Outflow =	22.69 cfs @ 12.04 hrs, Volume=	1.467 af, Atten= 0%, Lag= 0.0 min
Primary =	22.69 cfs @ 12.04 hrs, Volume=	1.467 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 252.80' @ 12.04 hrs Flood Elev= 249.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	245.00'	18.0" Round Culvert L= 36.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 245.00' / 244.00' S= 0.0278 '/' Cc= 0.900
			n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=21.84 cfs @ 12.04 hrs HW=252.34' (Free Discharge) **1**=**Culvert** (Inlet Controls 21.84 cfs @ 12.36 fps)

Summary for Pond 10P: Stormwater Basin

Inflow Area =	4.169 ac, 43.44% Impervious, Inflov	v Depth > 4.61" for 50-year event
Inflow =	25.65 cfs @ 12.04 hrs, Volume=	1.602 af
Outflow =	10.69 cfs @ 12.23 hrs, Volume=	1.313 af, Atten= 58%, Lag= 11.4 min
Primary =	10.69 cfs @ 12.23 hrs, Volume=	1.313 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 250.43' @ 12.24 hrs Surf.Area= 10,874 sf Storage= 26,654 cf

Plug-Flow detention time= 108.1 min calculated for 1.308 af (82% of inflow)

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Pollock - Louise Berry Type III 24-hr 50-year Rainfall=6.85" Printed 8/1/2022

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Volume Invert Avail.Storage Storage Description Custom Stage Data (Prismatic) Listed below (Recalc) 240.00' 26,654 cf #1 Elevation Surf.Area Inc.Store Cum.Store (feet) (sq-ft) (cubic-feet) (cubic-feet) 240.00 508 0 0 1,400 242.00 892 1,400 1,386 244.00 2,278 3.678 245.00 2,520 1,953 5,631 245.50 5,230 1,938 7,569 10.257 246.00 5,523 2,688 248.00 10.874 16,397 26.654 Device Routing Invert **Outlet Devices** 18.0" Round Culvert L= 32.0' CPP, square edge headwall, Ke= 0.500 #1 Primary 242.50' Inlet / Outlet Invert= 242.50' / 242.00' S= 0.0156 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf #2 Device 1 245.50' **5.0" Vert. Orifice/Grate** C= 0.600 6.0" x 12.0" Horiz. Orifice/Grate C= 0.600 #3 Device 1 246.50' Limited to weir flow at low heads 6.0" x 12.0" Horiz. Orifice/Grate C= 0.600 #4 247.00' Device 1 Limited to weir flow at low heads

Center-of-Mass det. time= 57.4 min (849.8 - 792.5)

Primary OutFlow Max=10.33 cfs @ 12.23 hrs HW=250.20' (Free Discharge)

-1=Culvert (Passes 10.33 cfs of 22.43 cfs potential flow)

-2=Orifice/Grate (Orifice Controls 1.39 cfs @ 10.21 fps)

-3=Orifice/Grate (Orifice Controls 4.63 cfs @ 9.26 fps)

-4=Orifice/Grate (Orifice Controls 4.31 cfs @ 8.62 fps)

Summary for Pond FB: Forebay

Inflow Area =	3.619 ac, 4	8.83% Impervious, Infl	low Depth > 4.86" for 50-year event
Inflow =	22.69 cfs @	12.04 hrs, Volume=	1.467 af
Outflow =	22.74 cfs @	12.04 hrs, Volume=	1.425 af, Atten= 0%, Lag= 0.6 min
Primary =	1.43 cfs @	12.04 hrs, Volume=	0.826 af
Secondary =	21.31 cfs @	12.04 hrs, Volume=	0.599 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.39' @ 12.04 hrs Surf.Area= 2,514 sf Storage= 7,760 cf

Plug-Flow detention time= 45.3 min calculated for 1.425 af (97% of inflow) Center-of-Mass det. time= 33.6 min (793.8 - 760.2)

Volume	Invert	Avail.Storage	Storage Description
#1	242.00'	9,375 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

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	Elevation Surf.Area (feet) (sq-ft)		Inc.Store (cubic-feet)	Cum.Store (cubic-feet)				
242.0	0	1,096	0	0				
244.0	00	1,678	2,774	2,774				
246.0	00	2,365	4,043	6,817				
247.0	00	2,750	2,558	9,375				
Davias	Deutine	luc						
Device	Routing	Invert	Outlet Devices					
#1	Primary	243.00'	6.0" Round Cu	lvert				
			L= 36.0' CPP,	mitered to cor	nform to fill, Ke= 0.700			
			Inlet / Outlet Inv	Inlet / Outlet Invert= 243.00' / 242.50' S= 0.0139 '/' Cc= 0.900				
			n= 0.012, Flow	Area= 0.20 sf				
#2	Seconda	ry 246.00'	35.0' long x 4.0)' breadth Bro	ad-Crested Rectangular Weir			
			Head (feet) 0.2	0 0.40 0.60	0.80 1.00 1.20 1.40 1.60 1.80 2.00			
			· · · ·	2.50 3.00 3.50 4.00 4.50 5.00 5.50				
			Coef. (English)	2.38 2.54 2.	69 2.68 2.67 2.67 2.65 2.66 2.66 2.68			
			2.72 2.73 2.76					

Primary OutFlow Max=1.43 cfs @ 12.04 hrs HW=246.38' (Free Discharge) ←1=Culvert (Barrel Controls 1.43 cfs @ 7.26 fps)

Secondary OutFlow Max=20.83 cfs @ 12.04 hrs HW=246.38' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 20.83 cfs @ 1.56 fps)

Summary for Pond P-1: Forebay

Inflow Area	a =	1.205 ac, 3	7.50% Impervious	, Inflow Depth >	4.61" for 50-	year event
Inflow	=	6.17 cfs @	12.06 hrs, Volum	e= 0.463	af	
Outflow	=	5.98 cfs @	12.09 hrs, Volum	e= 0.393	af, Atten= 3%,	Lag= 1.6 min
Primary	=	5.98 cfs @	12.09 hrs, Volum	e= 0.393	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 285.44' @ 12.09 hrs Surf.Area= 1,673 sf Storage= 3,733 cf

Plug-Flow detention time= 76.0 min calculated for 0.392 af (85% of inflow) Center-of-Mass det. time= 32.0 min (799.4 - 767.5)

Volume	Inver	t Avail.St	orage Sto	orage Des	scription							
#1	282.00	4,7	711 cf Cu	stom Sta	ige Data (Pr	rismati	c) List	ed b	elow	(Reca	alc)	
Elevation	S	urf.Area	Inc.Sto	re	Cum.Store							
(feet)		(sq-ft)	(cubic-fee	et) (cubic-feet)							
282.00		545		0	0							
284.00		1,130	1,6	75	1,675							
285.00		1,565	1,34	48	3,023							
286.00		1,812	1,6	89	4,711							
Device R	outing	Inver	t Outlet D	evices								
#1 Pi	rimary	285.00	' 8.0' long	y x 8.0'b	readth Broa	ad-Cre	sted F	Recta	ngula	ar We	ir	
	,				0.40 0.60				•			2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=5.86 cfs @ 12.09 hrs HW=285.43' (Free Discharge) ←1=Broad-Crested Rectangular Weir (Weir Controls 5.86 cfs @ 1.69 fps)

Summary for Pond P-2: Stormwater Pond

Inflow Area =	1.383 ac, 32.67% Impervious, Inflow	Depth > 3.88" for 50-year event
Inflow =	6.71 cfs @ 12.07 hrs, Volume=	0.447 af
Outflow =	0.84 cfs @ 12.83 hrs, Volume=	0.372 af, Atten= 87%, Lag= 45.5 min
Primary =	0.84 cfs @ 12.83 hrs, Volume=	0.372 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 275.25' @ 12.83 hrs Surf.Area= 3,875 sf Storage= 10,142 cf

Plug-Flow detention time= 176.6 min calculated for 0.372 af (83% of inflow) Center-of-Mass det. time= 130.8 min (928.3 - 797.6)

Volume	Inve	rt Avail.Sto	rage Storage	Description	
#1	272.0	0' 22,67	75 cf Custom	Stage Data (Pris	smatic) Listed below (Recalc)
Elevatio	n 9	Surf.Area	Inc.Store	Cum.Store	
(fee		(sq-ft)	(cubic-feet)	(cubic-feet)	
272.0	0	2,375	0	0	
274.0	00	3,295	5,670	5,670	
276.0	00	4,225	7,520	13,190	
278.0	00	5,260	9,485	22,675	
Device	Routing	Invert	Outlet Device	S	
#1	Primary	272.00'	18.0" Round	Culvert	
			L= 30.0' CPF	P, mitered to con	nform to fill, Ke= 0.700
			Inlet / Outlet I	nvert= 272.00' / 2	270.00' S= 0.0667 '/' Cc= 0.900
			n= 0.012, Flo	w Area= 1.77 sf	
#2	Device 1	272.50'	4.0" Vert. Orif	fice/Grate C= (0.600
#3 Device 1 275.00' 6.0" Vert. Ori		6.0" Vert. Orif	fice/Grate C= (0.600	
#4	Primary	276.00'	12.0" W x 6.0	" H Vert. Orifice/	/Grate C= 0.600
, ,		18.0" Horiz. C	Drifice/Grate C	= 0.600 Limited to weir flow at low heads	

Primary OutFlow Max=0.84 cfs @ 12.83 hrs HW=275.25' (Free Discharge)

-1=Culvert (Passes 0.84 cfs of 11.86 cfs potential flow)

2=Orifice/Grate (Orifice Controls 0.67 cfs @ 7.73 fps)

-3=Orifice/Grate (Orifice Controls 0.16 cfs @ 1.69 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

-5=Orifice/Grate (Controls 0.00 cfs)

Summary for Subcatchment 1S: Drainage Area 1

Runoff	=	1.17 cfs @	12.13 hrs, Volume=	0.093 af, Depth> 5.65"
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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

_	A	rea (sf)	CN	Description			
		4,120	98	Paved park	ing, HSG B		
_		4,450	74	>75% Gras	s cover, Go	od, HSG C	
		8,570	86	Weighted A	verage		
		4,450		51.93% Per	vious Area		
		4,120		48.07% Imp	pervious Are	ea	
	_				- ·		
	Тс	Length	Slop		Capacity	Description	
_	(min)	(feet)	(ft/ft	:) (ft/sec)	(cfs)		
	9.1	111	0.071	0 0.20		Sheet Flow, Tc-1	
						Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 2S: Drainage Area 2

Runoff = 2.33 cfs @ 12.01 hrs, Volume= 0.147 af, Depth> 5.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

	А	rea (sf)	CN	Description						
		6,287	74	>75% Gras	s cover, Go	ood, HSG C				
*		7,033	98	Roof/paven	nent					
		13,320	87	Weighted A	verage					
		6,287		47.20% Per	vious Area	3				
		7,033		52.80% Imp	pervious Are	rea				
	Тс	Length	Slope		Capacity	Description				
_	(min)	(feet)	(ft/ft) (ft/sec)	(cfs)					
	1.0	125	0.010	2.03		Shallow Concentrated Flow, Tc-2				
						Paved Kv= 20.3 fps				

Summary for Subcatchment 2S': Overland to Wetlands

Runoff = 6.85 cfs @ 12.17 hrs, Volume= 0.558 af, Depth>	3.76	
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Pollock - Louise Berry Type III 24-hr 100-year Rainfall=7.64" Printed 8/1/2022

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Α	rea (sf)	CN	Description			
	38,320	73	Woods, Fai	r, HSG C		
	21,500	55	Woods, Go	od, HSG B		
	2,724	98	Roofs, HSO	βB		
	15,044	74	>75% Gras	s cover, Go	ood, HSG C	
	77,588	69	Weighted A	verage		
	74,864		96.49% Per	vious Area		
	2,724		3.51% Impe	ervious Area	а	
Tc (min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description	
12.2	200	0.1100	0.27		Sheet Flow, Tc-2s Grass: Dense n= 0.240	P2= 3.37"

Summary for Subcatchment 3S: Drainage Area 3

Runoff	=	3.54 cfs @	12.09 hrs,	Volume=	0.246 af,	Depth> 5.20"
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Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

	A	rea (sf)	CN [Description				
*		8,529	98 F	98 Paved parking/roof				
		16,209	74 >	75% Gras	s cover, Go	ood, HSG C		
		24,738	82 \	82 Weighted Average				
		16,209	6	5.52% Per	vious Area			
		8,529	3	84.48% Imp	pervious Are	ea		
	Тс	Length	Slope	Velocity	Capacity	Description		
_	(min)	(feet)	(ft/ft)	(ft/sec)	(cfs)			
	5.0	105	0.1100	0.35		Sheet Flow, Tc-4a		
						Grass: Short n= 0.150 P2= 3.37"		
	0.7	160	0.0310	3.57		Shallow Concentrated Flow, Tc-4b		
						Paved Kv= 20.3 fps		
	5.7	265	Total					

Summary for Subcatchment 4S: Drainage Area 4

Runoff = 11.41 cfs @ 12.03 hrs, Volume= 0.725 af, Depth> 5.43"

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	A	rea (sf)	CN	Description					
*		30,200	98		aved parking & roof HSG A				
		20,000	74	>75% Gras	s cover, Go	ood, HSG C			
		19,500	73	Woods, Fai	r, HSG C				
		69,700	84	Weighted A	verage				
		39,500		56.67% Per	vious Area	3			
		30,200		43.33% Imp	pervious Are	rea			
	Тс	Length	Slop	e Velocity	Capacity	Description			
_	(min)	(feet)	(ft/f	t) (ft/sec)	(cfs)				
	1.9	130	0.010	0 1.13		Sheet Flow, Tc-3			
						Smooth surfaces n= 0.011 P2= 3.37"			

Summary for Subcatchment 5S: Drainage Area 5

Runoff = 4.70 cfs @ 12.02 hrs, Volume= 0.299 af, Depth> 5.66"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

_	A	rea (sf)	CN	Description				
*		13,450	98	Paved surfa	aces & roof			
_		14,147	74	>75% Gras	s cover, Go	od, HSG C		
		27,597	86	Weighted A	verage			
		14,147		51.26% Per	vious Area			
		13,450		48.74% Imp	pervious Are	ea		
	То	Longth	Slop		Conocity	Description		
	TC (min)	Length (feet)	Slop		Capacity (cfs)	Description		
_	(min)	(Teet)	(ft/f		(015)			
	1.3	180	0.050	0 2.29		Sheet Flow, Tc-5		
						Smooth surfaces	n= 0.011	P2= 3.37"

Summary for Subcatchment 6S: Drainage Area 6

Runoff = 7.67 cfs @ 12.05 hrs, Volume= 0.492 af, Depth> 5.43"

	Area (sf)	CN	Description
*	21,025	98	Pavement/Roofs, HSG B
	22,990	74	>75% Grass cover, Good, HSG C
	3,300	60	Woods, Fair, HSG B
	47,315	84	Weighted Average
	26,290		55.56% Pervious Area
	21,025		44.44% Impervious Area

Proposed ConditionsPollock - Louise BerryPrepared by Killingly Engineering Associates, LLCType III 24-hr100-year Rainfall=7.64"HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLCPrinted 8/1/2022Page 70
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
3.2 180 0.0500 0.95 Lag/CN Method, Tc-6
Summary for Subcatchment 7S: Drainage Area 7
Runoff = 2.47 cfs @ 12.02 hrs, Volume= 0.168 af, Depth> 6.75"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"
Area (sf) CN Description
 * 12,295 98 Roof & Pavement * 716 74 >75% Grass cover, Good, HSG B/D
13,011 97 Weighted Average
716 5.50% Pervious Área
12,295 94.50% Impervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
1.2 175 0.0580 2.42 Sheet Flow, Tc-7 Smooth surfaces n= 0.011 P2= 3.37"
Summary for Subcatchment 8S: Overland to Wetlands
Runoff = 14.65 cfs @ 12.20 hrs, Volume= 1.256 af, Depth> 3.65"
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"
Area (sf) CN Description
24,323 74 >75% Grass cover, Good, HSG C
61,975 77 Woods, Good, HSG D 93,653 60 Woods, Fair, HSG B
179,951 68 Weighted Average
179,951 100.00% Pervious Area
Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs)
14.1 152 0.1240 0.18 Sheet Flow, Tc-8
Woods: Light underbrush n= 0.400 P2= 3.37"
Summary for Subcatchment 9S: Overland to Basin 3
Runoff = 3.40 cfs @ 12.04 hrs, Volume= 0.208 af, Depth> 4.53"
Rupoff by SCS TR-20 method LIH-SCS Weighted-CN Time Span- 5 00-20 00 brs. dt- 0.05 brs

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A	rea (sf)	CN	Description				
	22,063	74	>75% Gras	s cover, Go	bod, HSG C		
	1,920	98	Roofs, HSC	G C			
	23,983	76	Weighted A	verage			
	22,063		91.99% Per	vious Area			
	1,920		8.01% Impe	ervious Area	a		
Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description		
2.3	145	0.1100) 1.05		Lag/CN Method, Tc-9		
	Summary for Subcatchment FB1: Overland to Forebay						

Runoff = 0.79 cfs @ 12.04 hrs, Volume= 0.048 af, Depth> 4.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

/	Area (sf)	CN	Description		
	5,861	74 :	>75% Gras	s cover, Go	ood, HSG C
	5,861		100.00% Pe	ervious Area	a
To (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
2.1	98	0.0800	0.78		Lag/CN Method, Tc-FB-1

Summary for Subcatchment O-P2: Overland to Pond

Runoff = 1.05 cfs @ 12.02 hrs, Volume= 0.064 af, Depth> 4.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

A	rea (sf)	CN E	Description				
	7,761	74 >	75% Gras	s cover, Go	ood, HSG C		
	7,761 100.00% Pervious Area						
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description		
1.3	30	0.0330	0.40		Lag/CN Method, Tc-P2		
	Summary for Subcatchment OS: Overland to Swale						

Runoff = 1.97 cfs @ 12.04 hrs, Volume= 0.120 af, Depth> 4.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type III 24-hr 100-year Rainfall=7.64"

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Area	(sf) CN	Description		
1,6	60 60	Woods, Fai	r, HSG B	
13,6	622 74	>75% Gras	s cover, Go	ood, HSG C
15,2	272 72	Weighted A	verage	
15,2	272	100.00% Pe	ervious Area	a
Tc Le	ngth Slo	pe Velocity	Capacity	Description
(min) (eet) (ft/	/ft) (ft/sec)	(cfs)	
2.0				Direct Entry, Tc-OS
				-

Summary for Reach 1R: Wetland Swale

Inflow Area =	1.781 ac,	3.51% Impervious, Inflow I	Depth > 3.76"	for 100-year event
Inflow =	6.85 cfs @	12.17 hrs, Volume=	0.558 af	
Outflow =	6.60 cfs @	12.25 hrs, Volume=	0.556 af, Atte	en= 4%, Lag= 4.4 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.09 fps, Min. Travel Time= 2.3 min Avg. Velocity = 0.85 fps, Avg. Travel Time= 5.7 min

Peak Storage= 928 cf @ 12.20 hrs Average Depth at Peak Storage= 0.19' Bank-Full Depth= 2.00' Flow Area= 106.7 sf, Capacity= 1,056.58 cfs

80.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 290.0' Slope= 0.0759 '/' Inlet Invert= 294.00', Outlet Invert= 272.00'



Summary for Reach 2R: Wetland Swale

Inflow Area =	7.646 ac,	6.73% Impervious, Inflow I	Depth > 3.72"	for 100-year event
Inflow =	22.50 cfs @	12.21 hrs, Volume=	2.373 af	-
Outflow =	21.02 cfs @	12.35 hrs, Volume=	2.351 af, Atte	en= 7%, Lag= 8.5 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.49 fps, Min. Travel Time= 4.8 min Avg. Velocity = 1.07 fps, Avg. Travel Time= 11.1 min

Peak Storage= 6,069 cf @ 12.27 hrs Average Depth at Peak Storage= 0.36' Bank-Full Depth= 2.00' Flow Area= 113.3 sf, Capacity= 890.78 cfs

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85.00' x 2.00' deep Parabolic Channel, n= 0.050 Scattered brush, heavy weeds Length= 712.0' Slope= 0.0478 '/' Inlet Invert= 272.00', Outlet Invert= 238.00'

Summary for Reach 3R: Wet Swale

Inflow Area	=	1.734 ac, 26.06% Impervious, Inflow Depth > 3.90" for 100-year event
Inflow =	=	2.45 cfs @ 12.04 hrs, Volume= 0.563 af
Outflow =	=	2.32 cfs @ 12.07 hrs, Volume= 0.561 af, Atten= 5%, Lag= 1.6 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Max. Velocity= 2.64 fps, Min. Travel Time= 1.0 min Avg. Velocity = 1.31 fps, Avg. Travel Time= 2.1 min

Peak Storage= 153 cf @ 12.05 hrs Average Depth at Peak Storage= 0.11' Bank-Full Depth= 1.00' Flow Area= 10.0 sf, Capacity= 99.84 cfs

8.00' x 1.00' deep channel, n= 0.040 Earth, cobble bottom, clean sides Side Slope Z-value= 2.0 '/' Top Width= 12.00' Length= 165.0' Slope= 0.0970 '/' Inlet Invert= 270.00', Outlet Invert= 254.00'

r

Summary for Reach 9R: Peak off Site

Inflow Area	=	11.815 ac, 19	9.68% Impervious,	Inflow Depth >	3.96"	for 100-year event
Inflow =	=	33.08 cfs @	12.11 hrs, Volume	e 3.901	af	-
Outflow =	=	33.08 cfs @	12.11 hrs, Volume	e 3.901	af, Atte	en= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Pollock - Louise Berry **Proposed Conditions** Type III 24-hr 100-year Rainfall=7.64" Prepared by Killingly Engineering Associates, LLC Printed 8/1/2022 HydroCAD® 10.00-26 s/n 07240 © 2020 HydroCAD Software Solutions LLC Page 74 Summary for Pond 1P: CB 1-2 40.070/ 1 . . . ~ 400

Inflow Area =	0.197 ac, 48.07% Impervious, Inflow	Depth > 5.65" for 100-year event
Inflow =	1.17 cfs @ 12.13 hrs, Volume=	0.093 af
Outflow =	1.17 cfs @ 12.13 hrs, Volume=	0.093 af, Atten= 0%, Lag= 0.0 min
Primary =	1.17 cfs @ 12.13 hrs, Volume=	0.093 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 312.02' @ 12.13 hrs Flood Elev= 316.00'

Device	Routing	Invert	Outlet Devices
-	Primary		15.0" Round Culvert L= 128.7' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 311.50' / 298.95' S= 0.0975 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=1.15 cfs @ 12.13 hrs HW=312.01' (Free Discharge) -1=Culvert (Inlet Controls 1.15 cfs @ 2.43 fps)

Summary for Pond 2P: CB_3-4

Inflow Area =	0.503 ac, 5	50.95% Impervious,	Inflow Depth > 5.	.72" for 100-year event
Inflow =	3.02 cfs @	12.03 hrs, Volume=	= 0.240 af	
Outflow =	3.02 cfs @	12.03 hrs, Volume=	= 0.240 af,	Atten= 0%, Lag= 0.0 min
Primary =	3.02 cfs @	12.03 hrs, Volume=	= 0.240 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 299.74' @ 12.03 hrs Flood Elev= 303.30'

Device Routing Invert Outlet Devices	
#1 Primary 298.85' 15.0" Round Culvert L= 131.1' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 298.85' / 286.60' S= 0.0934 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf	

Primary OutFlow Max=2.95 cfs @ 12.03 hrs HW=299.73' (Free Discharge) ←1=Culvert (Inlet Controls 2.95 cfs @ 3.19 fps)

Summary for Pond 3P: CB_5-6

Inflow Area	=	1.070 ac, 4	2.21% Impervious	, Inflow Depth >	5.45"	for 100-year event
Inflow :	=	6.32 cfs @	12.06 hrs, Volum	e= 0.486	af	-
Outflow :	=	6.32 cfs @	12.06 hrs, Volum	e= 0.486	af, Atte	n= 0%, Lag= 0.0 min
Primary :	=	6.32 cfs @	12.06 hrs, Volum	e= 0.486	af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

Proposed Conditions

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Peak Elev= 288.26' @ 12.06 hrs Flood Elev= 291.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	286.50'	15.0" Round Culvert L= 81.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 286.50' / 285.70' S= 0.0099 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=6.18 cfs @ 12.06 hrs HW=288.22' (Free Discharge) ←1=Culvert (Inlet Controls 6.18 cfs @ 5.04 fps)

Summary for Pond 4P: CB_7-8

Inflow Area	a =	1.600 ac, 43.33% Impervious, Inflow Depth > 5.	.43" for 100-year event
Inflow	=	11.41 cfs @ 12.03 hrs, Volume= 0.725 af	
Outflow	=	11.41 cfs @ 12.03 hrs, Volume= 0.725 af,	Atten= 0%, Lag= 0.0 min
Primary	=	11.41 cfs @ 12.03 hrs, Volume= 0.725 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 276.82' @ 12.03 hrs Flood Elev= 277.00'

Device	Routing	Invert	Outlet Devices
#1	Primary	272.50'	15.0" Round Culvert L= 128.2' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 272.50' / 263.70' S= 0.0686 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=10.94 cfs @ 12.03 hrs HW=276.55' (Free Discharge) ←1=Culvert (Inlet Controls 10.94 cfs @ 8.91 fps)

Summary for Pond 5P: CB-9

Inflow Area	a =	2.234 ac, 44.86% Impervious, Inflow Depth > 5.50" for 100-year event
Inflow	=	16.01 cfs @ 12.03 hrs, Volume= 1.024 af
Outflow	=	16.01 cfs @ 12.03 hrs, Volume= 1.024 af, Atten= 0%, Lag= 0.0 min
Primary	=	16.01 cfs @ 12.03 hrs, Volume= 1.024 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 271.47' @ 12.03 hrs Flood Elev= 267.30'

Device	Routing	Invert	Outlet Devices
#1	Primary	263.60'	15.0" Round Culvert L= 100.6' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 263.60' / 253.10' S= 0.1044 '/' Cc= 0.900 n= 0.012, Flow Area= 1.23 sf

Primary OutFlow Max=15.33 cfs @ 12.03 hrs HW=270.95' (Free Discharge) ←1=Culvert (Inlet Controls 15.33 cfs @ 12.49 fps)

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Summary for Pond 6P: CB 10-11

Inflow Area =	3.320 ac, 44.72% Impervious, Inflow	Depth > 5.48" for 100-year event
Inflow =	23.50 cfs @ 12.04 hrs, Volume=	1.515 af
Outflow =	23.50 cfs @ 12.04 hrs, Volume=	1.515 af, Atten= 0%, Lag= 0.0 min
Primary =	23.50 cfs @ 12.04 hrs, Volume=	1.515 af
-		

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 261.33' @ 12.04 hrs Flood Elev= 259.50'

Device	Routing	Invert	Outlet Devices
	Primary	253.00'	18.0" Round Culvert L= 172.0' CPP, square edge headwall, Ke= 0.500 Inlet / Outlet Invert= 253.00' / 245.10' S= 0.0459 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=22.67 cfs @ 12.04 hrs HW=260.85' (Free Discharge) ←1=Culvert (Inlet Controls 22.67 cfs @ 12.83 fps)

Summary for Pond 7P: CB 12-13

Inflow Area =	3.619 ac, 48.83% Impervious, Inflow	Depth > 5.58" for 100-year event
Inflow =	25.85 cfs @ 12.03 hrs, Volume=	1.683 af
Outflow =	25.85 cfs @ 12.03 hrs, Volume=	1.683 af, Atten= 0%, Lag= 0.0 min
Primary =	25.85 cfs @ 12.03 hrs, Volume=	1.683 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 254.90' @ 12.04 hrs Flood Elev= 249.60'

Device	Routing	Invert	Outlet Devices
#1	Primary	245.00'	18.0" Round Culvert L= 36.0' CPP, square edge headwall, Ke= 0.500
			Inlet / Outlet Invert= 245.00' / 244.00' S= 0.0278 '/' Cc= 0.900
			n= 0.012, Flow Area= 1.77 sf

Primary OutFlow Max=24.87 cfs @ 12.03 hrs HW=254.30' (Free Discharge) **1**=**Culvert** (Inlet Controls 24.87 cfs @ 14.08 fps)

Summary for Pond 10P: Stormwater Basin

Inflow Area	a =	4.169 ac, 43.44% Impervious, Inflow Depth > 5.32" for 100-year	event
Inflow	=	29.32 cfs @ 12.04 hrs, Volume= 1.848 af	
Outflow	=	24.44 cfs @ 12.11 hrs, Volume= 1.549 af, Atten= 17%, Lag=	= 3.7 min
Primary	=	24.44 cfs @ 12.11 hrs, Volume= 1.549 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 266.37' @ 12.10 hrs Surf.Area= 10,874 sf Storage= 26,654 cf

Plug-Flow detention time= 99.2 min calculated for 1.549 af (84% of inflow)

Proposed Conditions

Pollock - Louise Berry *Type III 24-hr 100-year Rainfall*=7.64" Printed 8/1/2022 ns LLC Page 77

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Volume Invert Avail.Storage Storage Description Custom Stage Data (Prismatic) Listed below (Recalc) 240.00' 26,654 cf #1 Elevation Surf.Area Inc.Store Cum.Store (feet) (sq-ft) (cubic-feet) (cubic-feet) 240.00 508 0 0 1,400 242.00 892 1,400 1.386 244.00 2,278 3.678 245.00 2,520 1,953 5,631 245.50 5,230 1,938 7,569 10.257 246.00 5,523 2,688 248.00 10.874 16,397 26.654 Device Routing Invert **Outlet Devices** 18.0" Round Culvert L= 32.0' CPP, square edge headwall, Ke= 0.500 #1 Primary 242.50' Inlet / Outlet Invert= 242.50' / 242.00' S= 0.0156 '/' Cc= 0.900 n= 0.012, Flow Area= 1.77 sf #2 Device 1 245.50' **5.0" Vert. Orifice/Grate** C= 0.600 6.0" x 12.0" Horiz. Orifice/Grate C= 0.600 #3 Device 1 246.50' Limited to weir flow at low heads 6.0" x 12.0" Horiz. Orifice/Grate C= 0.600 #4 247.00' Device 1 Limited to weir flow at low heads

Center-of-Mass det. time= 51.1 min (839.1 - 788.0)

Primary OutFlow Max=23.31 cfs @ 12.11 hrs HW=264.78' (Free Discharge)

-1=Culvert (Passes 23.31 cfs of 39.48 cfs potential flow)

1-2=Orifice/Grate (Orifice Controls 2.87 cfs @ 21.03 fps)

-3=Orifice/Grate (Orifice Controls 10.29 cfs @ 20.59 fps)

-4=Orifice/Grate (Orifice Controls 10.15 cfs @ 20.30 fps)

Summary for Pond FB: Forebay

Inflow Area =	3.619 ac, 4	8.83% Impervious,	Inflow Depth > 5.5	8" for 100-year event
Inflow =	25.85 cfs @	12.03 hrs, Volume	= 1.683 af	
Outflow =	25.92 cfs @	12.04 hrs, Volume	= 1.640 af,	Atten= 0%, Lag= 0.5 min
Primary =	1.43 cfs @	12.04 hrs, Volume	= 0.898 af	
Secondary =	24.49 cfs @	12.04 hrs, Volume	= 0.741 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 246.42' @ 12.04 hrs Surf.Area= 2,527 sf Storage= 7,847 cf

Plug-Flow detention time= 42.6 min calculated for 1.634 af (97% of inflow) Center-of-Mass det. time= 32.0 min (789.3 - 757.3)

Volume	Invert	Avail.Storage	Storage Description
#1	242.00'	9,375 cf	Custom Stage Data (Prismatic) Listed below (Recalc)

Proposed Conditions

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Elevatio (fee		Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)	
242.0	00	1,096	0	0	
244.0	00	1,678	2,774	2,774	
246.0	00	2,365	4,043	6,817	
247.0	00	2,750	2,558	9,375	
Device	Routing	Invert	Outlet Devices		
#1	Primary	243.00'	6.0" Round Cu	lvert	
#2	Seconda	ry 246.00'	Inlet / Outlet Inv n= 0.012, Flow 35.0' long x 4.0 Head (feet) 0.2 2.50 3.00 3.50	vert= 243.00' / vert= 243.00' / vert= 0.20 st vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: vert: ve	ad-Crested Rectangular Weir 0.80 1.00 1.20 1.40 1.60 1.80 2.00 .00 5.50 69 2.68 2.67 2.67 2.65 2.66 2.66 2.68

Primary OutFlow Max=1.43 cfs @ 12.04 hrs HW=246.41' (Free Discharge) ←1=Culvert (Barrel Controls 1.43 cfs @ 7.30 fps)

Secondary OutFlow Max=23.88 cfs @ 12.04 hrs HW=246.42' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 23.88 cfs @ 1.64 fps)

Summary for Pond P-1: Forebay

Inflow Area	a =	1.205 ac, 37.509	% Impervious, Inflow E	Depth > 5.32"	for 100-year event
Inflow	=	7.08 cfs @ 12.0	6 hrs, Volume=	0.534 af	
Outflow	=	6.87 cfs @ 12.0	8 hrs, Volume=	0.464 af, Atter	n= 3%, Lag= 1.4 min
Primary	=	6.87 cfs @ 12.0	8 hrs, Volume=	0.464 af	

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 285.48' @ 12.08 hrs Surf.Area= 1,683 sf Storage= 3,798 cf

Plug-Flow detention time= 71.1 min calculated for 0.464 af (87% of inflow) Center-of-Mass det. time= 30.3 min (794.6 - 764.3)

Volume	Invert	Avail.Sto	rage Storag	e Description			
#1	282.00'	4,7	11 cf Custo	m Stage Data (Pri	smatic) Listed	l below (Reca	alc)
Elevation (feet)	Su	rf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)			
282.00		545	0	0			
284.00		1,130	1,675	1,675			
285.00		1,565	1,348	3,023			
286.00		1,812	1,689	4,711			
Device Re	outing	Invert	Outlet Devic	ces			
#1 Pr	imary	285.00'	8.0' long x	8.0' breadth Broa	d-Crested Red	ctangular We	eir
	,		Head (feet)	0.20 0.40 0.60	0.80 1.00 1.2	20 1.40 1.60	1.80 2.00

2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.43 2.54 2.70 2.69 2.68 2.68 2.66 2.64 2.64 2.64 2.65 2.65 2.66 2.66 2.68 2.70 2.74

Primary OutFlow Max=6.73 cfs @ 12.08 hrs HW=285.47' (Free Discharge) ←1=Broad-Crested Rectangular Weir (Weir Controls 6.73 cfs @ 1.78 fps)

Summary for Pond P-2: Stormwater Pond

Inflow Area =	1.383 ac, 32.67% Impervious,	Inflow Depth > 4.58" for 100-year event
Inflow =	7.75 cfs @ 12.07 hrs, Volume	= 0.528 af
Outflow =	1.31 cfs @ 12.62 hrs, Volume	= 0.443 af, Atten= 83%, Lag= 32.8 min
Primary =	1.31 cfs @ 12.62 hrs, Volume	= 0.443 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Peak Elev= 275.63' @ 12.62 hrs Surf.Area= 4,054 sf Storage= 11,672 cf

Plug-Flow detention time= 163.8 min calculated for 0.443 af (84% of inflow) Center-of-Mass det. time= 119.5 min (912.4 - 792.9)

Volume	Inve	rt Avail.Sto	rage Storag	ge Description		_
#1	272.0	0' 22,67	75 cf Custo	om Stage Data (Pr	rismatic) Listed below (Recalc)	
Flovetia		Surf Area	Ing Store	Cum Store		
Elevatio		Surf.Area	Inc.Store	Cum.Store		
(fee	et)	(sq-ft)	(cubic-feet)	(cubic-feet)		
272.0	0	2,375	0	0		
274.0	00	3,295	5,670	5,670		
276.0	0	4,225	7,520	13,190		
278.0	0	5,260	9,485	22,675		
Device	Routing	Invert	Outlet Devi	ces		
#1	Primary	272.00'	18.0" Roui	nd Culvert		
	-		L= 30.0' C	PP, mitered to co	onform to fill, Ke= 0.700	
			Inlet / Outle	t Invert= 272.00' /	/ 270.00' S= 0.0667 '/' Cc= 0.900	
			n= 0.012. F	Flow Area= 1.77 s	sf	
#2	Device 1	272.50'	,	Drifice/Grate C=		
#3	Device 1	275.00	6.0" Vert. C	Drifice/Grate C=	= 0.600	
#4	Primary	276.00'			e/Grate C= 0.600	
#5	Primary	277.00			C = 0.600 Limited to weir flow at low heads	
110	ary	211.00				

Primary OutFlow Max=1.31 cfs @ 12.62 hrs HW=275.63' (Free Discharge)

-1=Culvert (Passes 1.31 cfs of 12.75 cfs potential flow)

1–2=Orifice/Grate (Orifice Controls 0.72 cfs @ 8.29 fps)

-3=Orifice/Grate (Orifice Controls 0.58 cfs @ 2.98 fps)

-4=Orifice/Grate (Controls 0.00 cfs)

-5=Orifice/Grate (Controls 0.00 cfs)

SUPPORTING DOCUMENTATION

NOAA Point Precipitation Estimates Web Soil Survey Precipitation Frequency Data Server



NOAA Atlas 14, Volume 10, Version 3 Location name: Brooklyn, Connecticut, USA* Latitude: 41.7827*, Longitude: -71.9363* Elevation: 329.49 ft** Sector: ESR Maps Sector: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sama Devica, Sandra Paslavia, Michael St. Laurent, Cail Trypa Mr. Dala Umuts, Orlan Wilhite

NOAA, National Weather Service, Stree Soring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration				Average	regurrende	interval (ye	ars)			
Duration	1	2	5	10	25	50	100	200	500	1000
5-min	0.337	0.400	0.503	0.587	0.704	0.793	0. 884	0.982	1.12	1.23
	(0.256-0.442)	(0.304-0.525)	(0.381-0.062)	(0 443-0 777)	(0.515-0.995)	(0.539-1.11)	(0⊜16-1 27)	(0.658-1.45)	(0.723-1.70)	(0 775-1 89)
10-min	0.477	0.566	0.711	0.831	0.997	1,12	1.25	1.39	1.58	1.74
	(0.353-0.626)	(0.430-0.743)	(0 538-0 937)	(0.627-1.10)	(0 730-1 37)	(0.607-1.57)	(0.876-1.80)	(0.932-2.05)	(- 02-2.40)	(* 10-2.68)
15-min	0.562	0.666	0.836	0.978	1.17	1.32	1.47	1.64	1.86	2.04
	(0 427-0 737)	(0.506-0.975)	(0.6341.10)	(0 738-1 30)	(0.859-1.61)	(0.949-1.84)	(* 03-2 12)	(1.10-2.41)	(21-2.83)	(1 29 -3 15)
30-min	0.775	0.919	1.16	1.35	1.62	1.82	2.03	2.26	2.57	2.82
	(0.590-1.52)	(0.939-1.21)	(0.875-1.52)	(* 02-1-79)	(* 19-2 22)	(131-2.54)	(142-2.92)	(1.51-3.33)	(* 56-3.90)	(17 8-4 35)
60-min	0.988	1.17	1.47	1.72	2.07	2.33	2.59	2.88	3.28	3.59
	(0.752-1.30)	(0.591-1.54)	(1.12-1.94)	1 30-2 28)	(151-2.63)	(* 67-3.25)	(* 61-3 73)	(1 93-4 24)	(2.12-4.97)	(2.28-5.55)
2-hr	1.26	1.50	1.89	2.21	2.65	2.98	3.32	3.72	4.28	4.74
	(0.936-1.95)	(15-1.96)	(1.44-2.47)	(57-2 91)	(1.95-3.02)	(2.15-4.15)	(2.35-4.79)	(2.49-5.44)	(2.764) 4 5)	(3.01-7.28)
3-hr	1.46	1.73	2.18	2.55	3.06	3.44	3.84	4.31	4.99	5.55
	(12-1 90)	(* 33-2.25)	(1-56-2-65)	(93-3.35)	(2.264 17)	(2.50-4.79)	(2.72-5.52)	(2 90-6 28)	(3.24-7.49)	(3.53-8.45)
6-hr	1.87	2.22	2.79	3.26	3.91	4.40	4.92	5.53	6.43	7.19
	(144-242)	(* 70-2.68)	(2 13-3 63)	(2.49-4.26)	(2.90-5.32)	(3.21-6.10)	(3.51-7.05)	(3-73-8-02)	(4 19-9 fiC)	(4 56-10 9)
12-hr	2.36	2.81	3.53	4.14	4.97	5.59	6.25	7.03	8.17	9.14
	(1.52-3.05)	(2.17-3.63)	(2.72-4.58)	(3.17-5.39)	(3 7046 72)	(4 09-7 71)	(4 47-0 91)	(4 76-10 1)	(5 34-12 1)	(5.85-13.8)
24-hr	2.82	3.37	4.28	5.03	6.06	6.84	7. 66	8.62	10.1	11.3
	(2.19-3.62)	(2.61-4.34)	(3-30-5-52)	(3.87-0.52)	(4 54-8 16)	(5.03-9.38)	(5.50-10.9)	(5.86-12.4)	(6 <i>59-</i> 14 <i>3</i>)	(7 22-16 9)
2-day	3.17	3.84	4.92	5.83	7.07	7.99	8.98	10.2	11.9	13.4
	(2.47-4.06)	(2.99-4.92)	(3.82-0.33)	(4 50-7 52)	(5 31-9 48)	(5 90-10 9)	(6 49-12 7)	(⊚92-14.5)	(7.83-17.4)	(6.62-19.9)
3-day	3.44	4.16	5.35	6.33	7.68	8.69	9.77	11.1	13.0	14.7
	(2.58-4.39)	(3.25-5.32)	(4 16-6 65)	(4 90-0 14)	(579-10.3)	(6.44-11.8)	(7.06-13.6)	(7 55-15 7)	(6.56-19.0)	(9.48-21.8)
4-day	3.67	4.45	5.71	6.75	8.19	9.25	10.4	11.8	13.9	15.7
	(2.58-4.68)	(3.47-5.67)	(4 45-7 30)	(5 23-8 07)	(616-109)	(6.87-12.6)	(7 56-14 7)	(8 06-16 7)	(917-202)	(101-2312)
7-day	4.34	5.21	6.63	7.81	9.43	10.6	11.9	13.5	15.9	18.0

https://hdsc.mvs.noaa.gov/hdsc/plds/plds/printpage.html?late41.76278/on=-71.99938data=depth&units=english&series=pds

Precipitation Frequency Data Server

	(3 41-5 52)	(4 09-6 62)	(5 19-8 45)	(6 08-9 99)	(7 15-12 5)	(7 92-14 4)	(8 70-16 7)	(9.26-19.0)	(10.5-23.0)	(11 6-26 4)
10-day	5.02	5.95	7.46	8.71	10.4	11.7	13.1	14.7	17 .2	1 9.3
	(3 95-6 .33)	(4 58-7 54)	(5.84-9.48)	(6 79-11 1)	(7 92-1 3 8)	(B 74-15 8)	(9 54-18 3)	(10 1-20 7)	(11 4-24 8)	(*2.5-28.3)
20-day	7.17	8.16	9.78	11.1	13.0	1 4.4	15.8	17 .4	19.6	21.3
	(5.67-9.05)	(6 45-10 3)	(7.70-12.4)	(B 71-14 1)	(9.85-17.0)	(*0.7-19.1)	(11 4-21 6)	(12 0-24 2)	(* 3.0-28.0)	(* 3.9-31 C)
30-day	8.99	10.0	11.7	13.0	14.9	16.4	17.8	19.3	21.2	22.6
	(7.12-11.3)	(7 92-12 6)	(9 20-14 7)	(*C 2-16 5)	(11-3-1⊆ 4)	(12.2-21.6)	(*2.8-24.1)	(134-26/5)	(14 2-30 2)	(14 7-32 8)
45-day	11.2	12.3	14.0	15.4	17 .3	1 8.9	20.3	21.7	23.3	24.3
	(6 93-14 1)	(9.74-15.4)	(11-1-17-6)	(*2 1-19 5)	(* 3 2-22 4)	(*4.0-24.7)	(*4 6-27 1)	(15 1-29 Đ)	(15 6-33 C)	(*5.9-35.1)
60-day	13.1	14.2	15.9	17.4	1 9.4	21.0	22.4	23.7	25.1	26.0
	(10 4-16 4)	(11 3-17 8)	(12.6-20.0)	(137-21.9)	(14 7-24 9)	(15.6-27.3)	(16 1-29 8)	(16 5-32 6)	(16 9-35 5)	(* 7 0-37 4)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

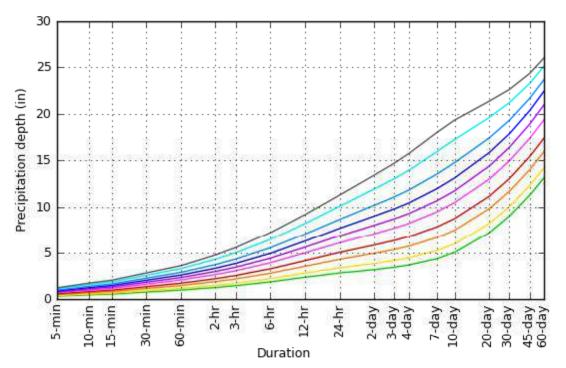
Numbers in patenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation (requency estimates (for alg van curation and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Device refer to NO 65 Allow 14 document for upper information.

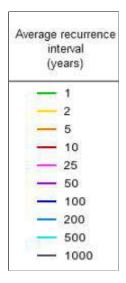
Please refer to NOAA Allas 14 document for incre-information.

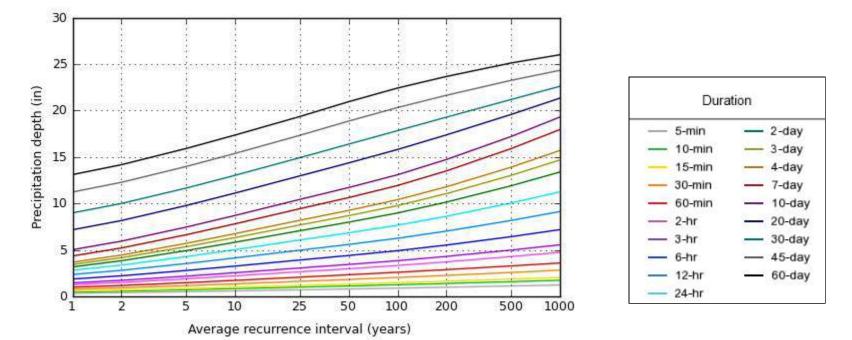
Back to Top

PF graphical

PDS-based depth-duration-frequency (DDF) curves Latitude: 41.7827°, Longitude: -71.9363°







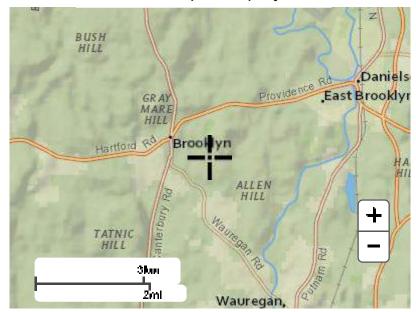
NOAA Atlas 14, Volume 10, Version 3

Created (GMT): Tue Dec 8 14:02:09 2020

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Maps & aerials

Small scale terrain

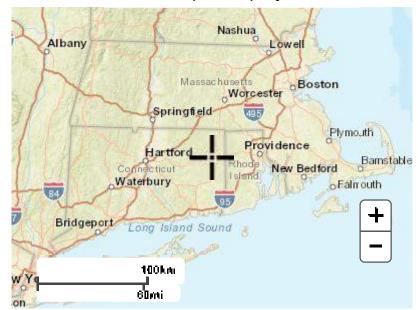


Large scale terrain



Large scale map

Precipitation Frequency Data Server



Large scale aerial



Back to Top

Precipitation Frequency Data Server

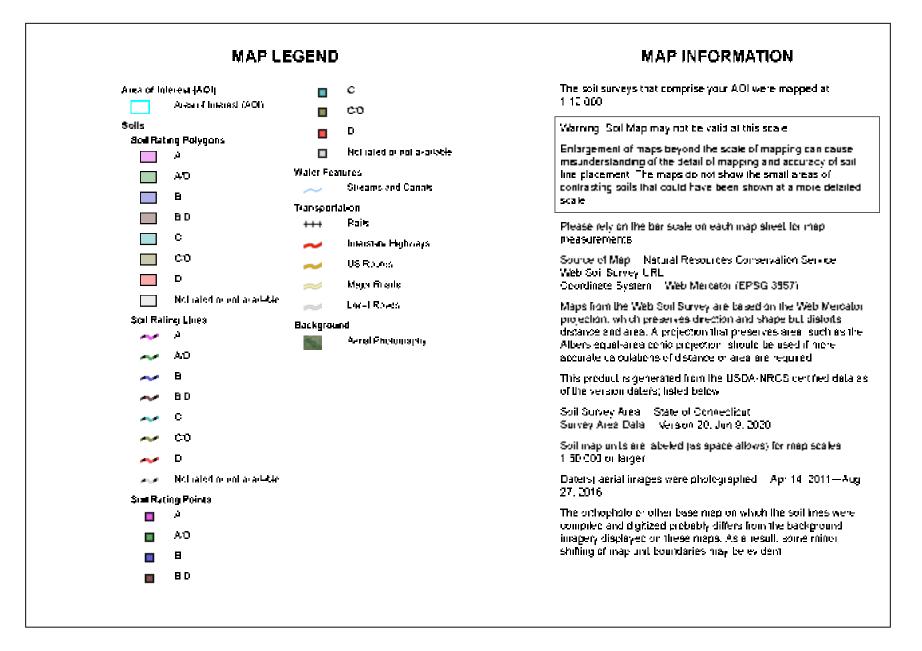
US Department of Commerce National Oceanic and Atmospheric Administration, <u>National Weather Service</u> <u>National Water Center</u> 1325 East West Highway Silver Spring MD 20910 Questions? (HDSC Questions@noaal.gov

<u>Disclaimer</u>



Natural Resources Conservation: Service

Web Soil Survey National Cooperative Soil Survey



Hydrologic Soil Group

Map unit symbol	Map unit nan w	Rating	Acres in AOI	Percent of AOI
3	Ridgebury Leicester and Whitman aola O to 8 percent élopee. extremely story	D	31	27 89.
34B	Merumac fine sandy loam 3 to 8 percent slopes	A	00	0 4%
6DB	Carrien and Charlien fine sandy loams, 3 to 8 percent skipere	6	47	42.9%
61C	Canton and Chariton fine sandy loams, 8 to 15 percent stapes ସେମ୍ବର ସେମ୍ବର	B	29	25 09,
620	Canton and Chariton fine sandy toams 15 to 35 percent eleges estremety source	В	01	0.7%
721 B	Nnigret line sendy Idam 3 to 8 percent Slopes	c	02	20%
Totals for Area of Inter	rest	1	11.0	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wel, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infitration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravely sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tic-break Rule: Higher

DRAINAGE AREA PLANS

JAN 19 2023 JAN 19 2023 Received Date	TOWN	ZONING COMMIS DF BROOKLYN NECTICUT Aj	pplication #SPR_ <u>23-00</u>
Bacharbare			
	APPLICATION	OR SITE PLAN R	eview chuilding
Mailing Addre	sont Kencyn Corporation 249 Windtom RD 5 249 Windtom RD 5 249 Windtom RD	BBA Woolstack Reb Brooklyn CTC	
Name of Engin	eer/Surveyor		
Address Contact Persor	1	Phone	Fax
Property locati	on/address249WINT	HAM RD	
		otal Acres 2,8 AC	1 N N N N N N N N N N N N N N N N N N N
Proposed Activ	ity See attack docum	unts applying	for Sec 6.A.
Utilities - Sep Wat		Existing	Proposed Proposed
8	10. N.		
The following s	nall accompany the application	when required:	
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Variances obt	ained	D	ate
Selectman, AL to enter the pr enforcement (applicant hereby grant the Bro thorized Agents of the Planning of operty to which the application of the Zoning regulations and the	and Zoning Commissions s requested for the pu Subdivision regulation	on or Board of Selectman, permis urpose of inspection and ns of the Town of Brooklyn
	charge Corrontinin PBA W	rodstack Rebuilde	
20020-0200-0200-0200	hn Serrell		Date/19/23
•Note: Any	consulting fees will be paid		
	Woodstock Rebuild	inal smalling	zha
	JRSHEX & Yahoo.	102	

Kencyn Corportation DBA Woodstock Rebuilding is one of only a handful of remaining rotating electric rebuilders left in Connecticut. There are currently fewer than 400 independent rebuilders remaining nationwide. John Serrell is the President and owner of Kencyn Corportation DBA Woodstock Rebuilding.

On a busy day we may have 4-5 customers. Some days we don't have any. So traffic is very low. Our driveway can support parking for up to 3 customers. We have an area for customers to turn around if needed at the beginning of the driveway so no one has to back out into traffic while leaving. Our hours of operation have been 9am-3pm during winter and 8am-4pm during spring and summer.

Our day to day operations do not produce excessive noises. Our process doesn't produce any fumes or scents. We don't process anything with oils, hazardous substances or materials. We take shop safety very seriously. I have included a letter from a past neighbor from Union CT, our previous location as a home based business for 12 years with no complaints or disruptions to the surrounding area.

Our customers remove the part that needs repair and bring it to us. We NEVER under any circumstances work on any vehicles/equipment of any kind on premise. If possible we exchange their part for an existing unit in our vast inventory. We then rebuild the "core" given by the customer and place it back into our inventory. This revolving system helps us to ensure our customers get their vehicles or equipment back up and running asap. If we don't have the customers part in stock they leave it with us and come back to pick it up once its completed. We also use a drop off/ pickup box that allows customers to leave parts or pickup in the event I'm not home.

We've been "green" since before it was cool. By rebuilding parts you reduce waste, encourage recycling and support local labor and business. We purchase as many American made components as possible. Many of our suppliers are based in New England. Woodstock Rebuilding was established in 1998 by Ken Braithwaite who had over 50 years of experience in this industry. We have been a home based business since the beginning starting off in Woodstock and later moving to Union CT. John Serreli, the current owner, purchased the business on November 1st 2020 after apprenticing for several years. John Is an ASE and dealer certified technician with almost 20 years of experience in the automotive industry. After Kens passing our shop downsized from a three person operation to a one person operation. We have no plans to expand beyond this scope. We have a solid reputation that has spread over 20 plus years to the Tri-state area, we pride ourselves on our commitment to quality.

Anything built with an engine in the last 100 years likely has a starter motor, alternator or generator. We service many industries from Farming, Logging, Construction, Excavation, Industrial, Municipal, including town garages and fire departments. We have been working with the town of Brooklyn for many years, as well as many of the surrounding towns. We also provide our essential services to many agencies within the state of Connecticut Including DOT and DEEP. We work with DIY individuals and classic car owners.

Many of the parts that we rebuild cannot be sourced from the local parts stores. Often times rebuilding is the only option. Many of our local farmers may only have one tractor, so when it's down the whole farm stops, the cows can't get fed etc. The supply chain shortages we've all seen over the last two years has further shown the need for our services. Rebuilding is an essential industry and many within our community rely on us.

In our work shop we have a workbench with two vises, a 1962 Logan metal lathe, drill press, alternator test bench and a variety of hand tools to perform our work.

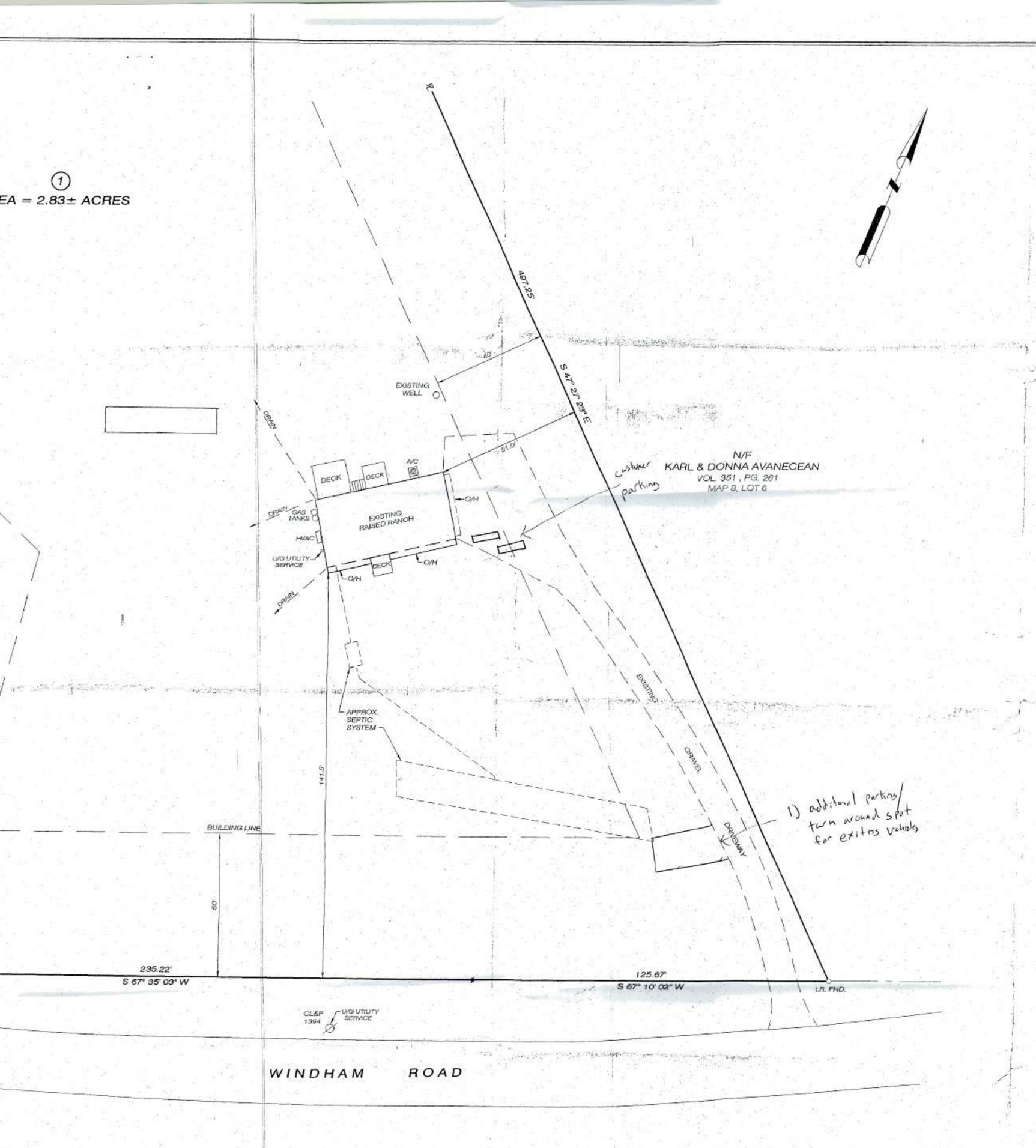
We donate our services to many local organizations and non-profits. We believe firmly In giving back to the community. We have worked with the Boys scout camp rebuilding many parts for the equipment they rely on. Previously we've donated our services to 4H programs and sponsored many local car shows that also work to support local organizations and charitable groups. Part of my proposed site plan is to include a modified steel storage structure on the property as a temporary structure for the purpose of securely storing my additional parts and inventory, as well as some of my personal possessions. This structure will not be visible from Windham road or to any passerby's. I'm open to including landscaping to also ensure the structure isn't visible to any neighboring homes. It's proposed location is shown on the site map.

My plan is to put locally sourced wood siding on the structure to give it a country appearance and fit in properly with the surroundings. The exterior will look identical to the many barns and outbuildings around our town. The reason for needing to use such a structure is due to the weight of the objects being stored. There is no other temporary structure available that can securely and properly meet my needs. Pouring a concrete slab and building a permanent structure in the same proposed location is not currently within my family or my businesses means.

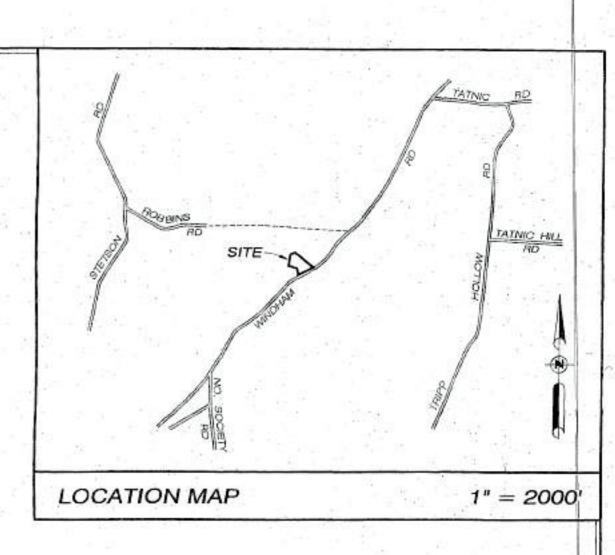
 $AREA = 2.83 \pm ACRES$ $(\mathcal{F}_{ij})_{ij} = (\mathcal{F}_{ij})_{ij} THOMAS J. & KARA L. HUTCHINSON VOL. 434, PG. 193 MAP 8, LOT 5 4 . / Sec. and a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s 235.22 S 67° 35' 03" W $= c_{\rm P} e^{i \omega t_{\rm P} c_{\rm P}} \Phi e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} f_{\rm P} e^{i \omega t_{\rm P}} f_{\rm P} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t_{\rm P}} e^{i \omega t$ المشاهد والفنوروا والهجري

PAUL A. TERWILLIGER, L.S. NO. 70155 NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE EMBOSSED SEAL OF THE LAND SURVEYOR WHOSE SIGNATURE APPEARS HEREON.

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.



54



Land Market Land St. Constants in such

NOTES:

1. THIS MAP AND SURVEY HAVE BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300b-1 THRU 20-300b-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES .*STANDARDS FOR SURVEYS AND MAPS IN . THE STATE OF CONNECTICUT' AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. IT IS A GENERAL LOCATION SURVEY BASED ON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS "C", THE PURPOSE OF THIS MAP AND SURVEY IS TO DEPICT THE LOCATION OF IMPROVEMENTS ON THE SUBJECT PROPERTY.

2. SUBJECT PARCEL IS SHOWN AS MAP 8 , LOT 6-1 OF THE BROOKLYN ASSESSOR'S RECORDS.

3. ZONE: RA

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4. REFERENCE DEED: VOL. 646 , PG. 195

5. REFERENCE MAP: "SUBDIVISION PLAN WINDHAM WOODS' PREPARED FOR KAROL & DONNA AVANECEAN - 239 WINDHAM ROAD, BROOKLYN, CONNECTICUT - DATE: 09/04 - SCALE: 1"=40 FT. - SHEET 1 OF 3 - MESSIER & ASSOCIATES, INC. - REVISED 10-11-11"

6. APPROXIMATE SEPTIC SYSTEM LOCATION IS BASED ON AS-BUILT INFORMATION ON FILE WITH THE NORTHEAST DISTRICT DEPARTMENT OF HEALTH.

GENERAL LOCATION SURVEY	SURVEYING . MAPPING . PL
AS-BUILT MAP	AN
PREPARED FOR	
JOSEPH A. TATRO	
AND	
BERNARD WATROUS, JR.	()) marked
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249 WINDHAM ROAD	email: posurvey/caret +
BROOKLYN, CONNECTICUT	KILLINGLY, CT 0 860 774 6230
DATE: MARCH 2021	SHEET NO: 1 OF
SCALE: 1" = 20'	REVISED:

03/10/2021 DATE

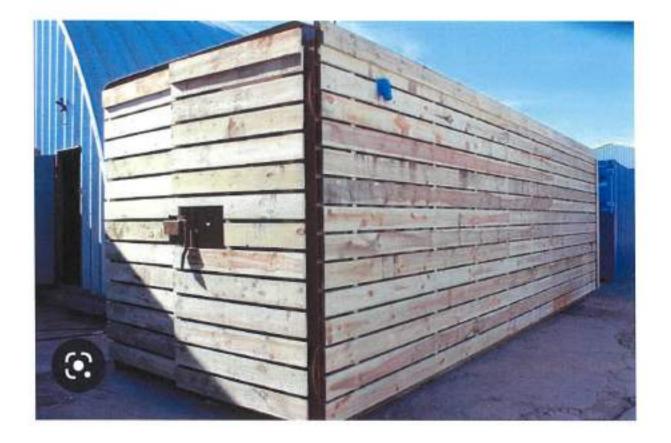
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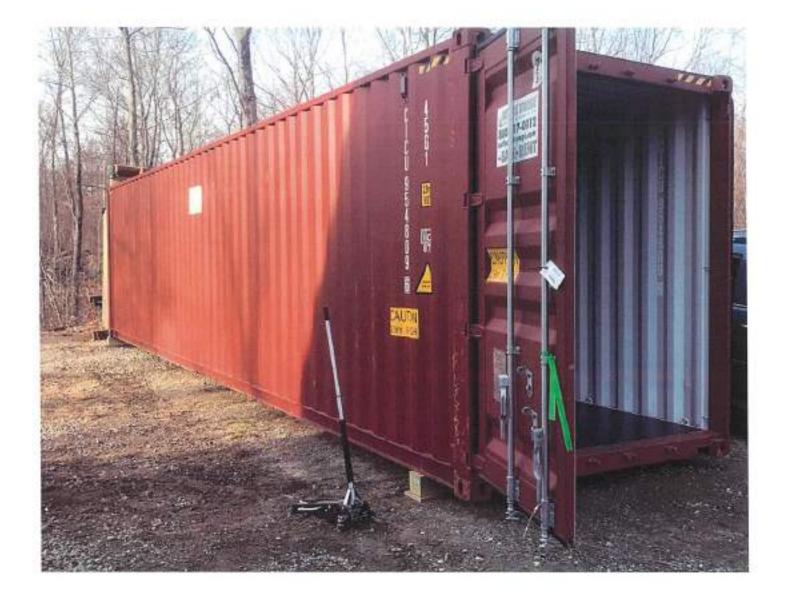


249 Windham RD site play

Mail body: Print







No plan to add windows on additud doors Added wood dedding December 20, 2022

Town of Brooklyn

Re: Woodstock Rebuilding

Dear Sir or Madam:

We are writing at the request of John Serrell, who is hoping to relocate his business, Woodstock Rebuilding, to his home in Brooklyn.

For twelve years Woodstock Rebuilding was located right next door to us in Union, Connecticut. Rindge Road is a rural, quiet street, and we have lived here for thirty-eight years. In the time the business was our neighbor we saw a minimal increase in traffic. Because John does not work on vehicles, only a few components, there was no impact on the peace, quiet and tranquiliy of the area. It had no bearing on our quality of life.

Sincerely,

Douglas Friedrich

acques- Findrich

Jacquelyn Friedrich 37 Rindge Road Union, CT 06076



TOWN OF BROOKLYN PLANNING AND ZONING COMMISSION

REQUEST FOR CHANGE IN ZONING REGULATIONS

Date 126 23 Check # Application #ZRC 2	3-001
Application Fee: \$250State Fee: \$60Publication Fee: \$600	
Public Hearing Date Commission Action Effectiv	e Date
Name of Applicant PLANNING + ZONING COMMISSION Phone	
Mailing Address	
REQUEST TO AMEND ARTICLE(S)SECTION() If more than one Article is requested please atlach separate sheet for each one	s) 2.B - DEFINITIONS 3.A.S.2. 3.B.S.2.
	3. 6. 5.21
PARAGRAPH TO CHANGEOF THE ZONING REG	4.5.4.2, 4.c.4.2,
REQUEST TO CHANGE:	4. C. A. Z)
	0.6.1

REASON FOR REQUEST:

Note: A petition may be filed at the Hearing by 20% or more of the area lots included in such a change within 500 R of the property under Section 16.5 of the Zoning Regulations

ZRC 23-001 - 1/24/2023

Changes are highlighted/Additions in CAPS AND BOLD/ Deletions struckthrough

Section 2.B – Definitions

- Explanation: The purpose of this change is to clarify existing language concerning setbacks and exceptions thereto that has been subject to differing interpretations and confusion. The definition of structure is proposed to be revised. The existing definition of building is provided for reference only.
- STRUCTURE Anything constructed or erected, including a building, which has a permanent location on the ground, or anything attached to something having a permanent location on the ground, but excluding fences, flagpoles, ornamental walls under five (5) feet, mailboxes, and patios. Satellite dishes, antenna towers, emergency generators, DECKS, swimming pools, and solar energy systems are considered to be structures and shall comply with SETBACKS AND OTHER dimensional requirements, AS EXCEPTED.
- **BUILDING** A structure, whether temporary or permanent, having a roof supported by columns or walls used or intended for the shelter, housing, or enclosure of any person, animal, process, equipment, goods, tangible personal property or other materials.

Sections 3.A.5.2, 3.B.5.2, 3.C.5.2, 4.B.4.2, 4.C.4.2

2) Explanation: The proposal is to clarify that non-building structures must be comply with the same setbacks as principal structures.

AREA AND DIMENSIONAL STANDARDS

LOI	STANDARDS	
1.	Minimum Lot area	10,000 SF
2.	Minimum Lot frontage	75 feet

SETBACK STANDARDS

		Principal Buildings AND STRUCTURES	Accessory Buildings
1.	Minimum Front Yard Setback	35 feet	35 feet
2.	Minimum Side Yard Setback	15 feet	Half the height of the accessory building or 10 feet, whichever is greater
3.	Minimum Rear Yard Setback	15 feet	Half the height of the accessory building or 10 feet, whichever is greater

BUILDING STANDARDS

1. Maximum Building Height

35 feet

POSSIBLE EXCEPTIONS

See Section 8.A for possible exceptions to these dimensional requirements.

ZRC 23-001 - 1/24/2023

Changes are highlighted/Additions in CAPS AND BOLD/ Deletions struckthrough

Section 8.A.4 – Exceptions to Setback Requirements

Explanation: The setback exception for accessory buildings is extended to include sideyards and a new exception for above-ground swimming pools is introduced.

8.A.4 EXCEPTIONS TO SETBACK REQUIREMENTS

- 1. Eaves, pilasters, columns, belt-courses, sills, cornices, or similar architectural features may project up to one foot into a required yard setback.
- 2. Steps, terraces, fences, walls, fence/wall combinations, and similar structures less than six (6) feet in height may be erected in required setbacks.
- 3. Propane tanks, generators, condensers, and similar mechanical equipment may be located within a required side yard setback provided such equipment is located closer to the principal structure on the subject property than to the principal structure on any abutting property and, if such equipment is located six (6) feet or less from a property line, then such equipment shall be visually shielded from abutting property.
- 4. Entry stairs and access ramps for the handicapped may extend into any required yard setback provided the extent of encroachment is minimized while still allowing for a reasonable accommodation to meet the needs of the resident(s).
- Sheds, garages, and similar accessory buildings may be located up to provided they are located in a rear OR SIDE yard. Otherwise, an accessory building shall comply with standard setbacks.
- 6. ABOVE-GROUND SWIMMING POOLS THAT CAN BE FULLY DISASSEMBLED MAY BE LOCATED TEN (10) FEET FROM A PROPERTY LINE PROVIDED THEY ARE LOCATED IN A REAR OR A SIDE YARD. OTHERWISE, AN ABOVE-GROUND SWIMMING POOL SHALL COMPLY WITH SETBACKS. WHEN ASSOCIATED WITH AN ABOVE-GROUND POOL THAT CAN BE FULLY DISASSEMBLED, THIS EXCEPTION SHALL EXTEND TO THE FOLLOWING ANCILLARY STRUCTURES: DECKS NOT TO EXCEED 200 SQUARE FEET, STAIRS, PREFABICATED LADDERS, POOL PUMPS, AND OTHER SWIMMING POOL EQUIPMENT. STRUCTURES NOT ASSOCIATED WITH AN ABOVE-GROUND POOL THAT CAN BE FULLY DISASSEMBLED SHALL NOT BE ELIGIBLE FOR THIS EXCEPTION.

Margaret's Report 1/31/2023

Zoning Permits issued:

88 Tatnic Hill Road – Donald Brian Kiley. New 40' x 50' detached garage on a concrete foundation with frost wall.

<u>23 Pomfret Road – Claude Soffel.</u> Restoration of the house and garage visible from the road in the Village Center Zone.

Final Certificates of Zoning Compliance issued:

490 Wolf Den Road - Kristine Erickson. New single-family dwelling with front porch and attached garage.

225 Gorman Road – Austin George. New single-family dwelling with front porch, rear and side deck, attached garage and attached carport

Home Office Permits Issued:

613 Wolf Den Road – Todd Francis. Mr. Francis conducts telephone and internet business for Duffy's Dumpsters from his home.

Sign Permits issued:

Town of Brooklyn								
Revenue Report				From Date:	7/1/2022	To Date:	1/31/2023	
Fiscal Year: 2022-2023	 Subtotal by Collapse Mask Exclude Inactive Accounts wit 		umbrance 🔲 Print a	accounts with ze	ero balance 🗹 Fi	lter Encumbrance	Detail by Date R	ange
Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balanc	e % Buc
1005.00.0000.42203	Planning & Zoning Fees Grand Total:	(\$7,000.00) (\$7,000.00)	(\$6,873.00) (\$6,873.00)	(\$6,873.00) (\$6,873.00)	(\$127.00) (\$127.00)	\$0.00 \$0.00	(\$127.00) (\$127.00)	1.81% 1.81%
	5 5				(.)			

End of Report

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Town of Brooklyn								
P&Z Budget FY23				From Date:	7/1/2022	To Date:	1/31/2023	
Fiscal Year: 2022-2023	Subtotal by Collapse Mask	Include pre enc	umbrance 🗹 Print a	accounts with ze	ero balance 🗹 Fi	Iter Encumbrance	Detail by Date F	Range
	Exclude Inactive Accounts w	ith zero balance						
Account Number	Description	GL Budget	Range To Date	YTD	Balance	Encumbrance	Budget Balan	ce % Bud
1005.41.4153.51620	Planning & Zoning-Wages PT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.51900	Planning & Zoning-Wages-Rec. S	\$4,200.00	\$2,275.00	\$2,275.00	\$1,925.00	\$1,925.00	\$0.00	0.00%
1005.41.4153.53020	Planning & Zoning-Legal Servic	\$10,000.00	\$1,108.25	\$1,108.25	\$8,891.75	\$0.00	\$8,891.75	88.92%
1005.41.4153.53200	Planning & Zoning-Professional	\$110.00	\$0.00	\$0.00	\$110.00	\$0.00	\$110.00	100.00%
1005.41.4153.53220	Planning & Zoning-In Service T	\$500.00	\$0.00	\$0.00	\$500.00	\$0.00	\$500.00	100.00%
1005.41.4153.53400	Planning & Zoning-Other Profes	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	100.00%
1005.41.4153.55400	Planning & Zoning-Advertising	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	100.00%
1005.41.4153.55500	Planning & Zoning-Printing & P	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	100.00%
1005.41.4153.55800	Planning & Zoning-Transportati	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.56900	Planning & Zoning-Other Suppli	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
1005.41.4153.56950	Planning & Zoning-State Marsha	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
Grand Total:		\$17,810.00	\$3,383.25	\$3,383.25	\$14,426.75	\$1,925.00	\$12,501.75	70.20%

End of Report

1

• Please seat alternates as necessary.

<u>SP 22-008: Special Permit Application for Multi-Family Development (50 Condominium</u> <u>units) on south side of Louise Berry Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone,</u> <u>Applicant: Shane Pollack and Erin Mancuso.</u>

- Tonight is the opening of the public hearing. You may leave the public hearing open until March 1, 2023 with no extensions.
- To hire a third-party consultant, you must take action on the estimate of costs. There is one proposal based on the modified scope of work.
- Regional Engineer has submitted a report.
- I will compile my concerns in a separate report.

Third Party Consultants Approval

In accordance with the Town Ordinance 20-1.3.b.3., the Planning and Zoning Commission (also known as the Land Use Agency) approves the following estimate of costs for supplemental

consulting services determined to be necessary on January 4, 2023 for SP 22-008: Special Permit

Application for Multi-Family Development (50 Condominium units) on south side of Louise Berry

Drive (Assessor's Map 33, Lot 19), 13.5 acres, R-30 Zone, Applicant: Shane Pollack and Erin Mancuso.

Mancuso.

Traffic Engineer - KWH Enterprises, LLC - \$155/hour, not to exceed \$6,000

SD 22-004: One lot Resubdivision including 2 acres on Allen Hill Road/Wauregan Road (Map 31, Lot 97C), Applicant: Wayne Jolley/Lori Pike. *Public Hearing 2/21/2023*

SP 22-007: Special Permit for an Events Facility at 459 Wolf Den Road, Applicants: Nicole and Greg Fisher.

Public Hearing 2/21/2023

- This proposal is for an existing facility that was originally constructed for personal use.
- A traffic study and a drainage study was submitted with the application. You may wish to consider the need for third party consultants.
- Consider if you want to do a site walk.
- The public hearing was rescheduled for 2/21/23. I have reserved the school auditorium for this.

ZRC 22-009: Multiple revisions to Section 4.F Mill Mixed Use Development Zone, Applicant: DMP Palmer Associates.

Public Hearing 3/21/2023

SPR 23-001: Site Plan Review for a Home Business (Woodstock Rebuilding) at 249 Windham Road, RA Zone, Applicant: Kencyn Corporation/John Serrell.

- This is a proposal for a Home Business in the RA Zone. The main purpose of the Home Business Zoning Regulation is to allow business as an accessory use to a residence while maintaining the residential character of the neighborhood. The applicant is proposing to use a modified shipping container for storage.

Sample Motion

Move to approve the Site Plan Review Application **SPR 23-001**: Site Plan Review for a Home Business (Woodstock Rebuilding) at 249 Windham Road, RA Zone, Applicant: Kencyn Corporation/John Serrell. in accordance with all final documents and testimony submitted with the application with the finding that the proposal complies with Sec. 9.C Site Plan Objectives and Sec. 6.A.3. Home Business Standards of the Brooklyn Zoning Regulations with the following conditions:

a.	
b.	

ZRC 23-001: Multiple revisions concerning exceptions to the setbacks including Secs. 2.B, 3.A.5.2., 3.B.5.2., 3.C.5.2., 4.B.4.2., 4.C.4.2., and 8.A.4.

Sample Motion

Move to schedule a public hearing for **ZRC 23-001: Multiple revisions concerning exceptions to the setbacks including Secs. 2.B, 3.A.5.2., 3.B.5.2., 3.C.5.2., 4.B.4.2., 4.C.4.2., and 8.A.4.,** for the regular meeting of the Planning and Zoning Commission to be held on **March 1, 2023** at 6:30 p.m. at the Clifford B. Green Memorial Building, 69 South Main Street, Brooklyn, CT and via Zoom.

SCOPE OF SERVICES – TRAFFIC ENGINEER

The Town of Brooklyn Planning and Zoning Commission ("PZC") located in Windham County, Connecticut, is seeking proposals from qualified professional engineer with advanced knowledge of traffic analysis to assist with the review of a Special Permit application for multi-family development (50 condominium units) on 13.5 acres on the south side of Louise Berry Drive, Assessor's Map 33, Lot 19 (the "subject property").

The PZC welcomes proposals demonstrating the qualifications and expertise to undertake the review in accordance with the requirements of the Town of Brooklyn Zoning Regulations, dated October 26, 2022, the Chapter 124-Zoning of the CT General Statutes, and the services outlined herein.

The selected consultant shall have extensive and specific understanding, technical knowledge, and experience with traffic generation and impacts. The interested consultants shall demonstrate extensive experience in reviewing site plans and preparing reports for municipalities for proposed multi-family developments regarding potential adverse impacts to local roads.

The proposal shall outline a brief methodology proposed for the completion of the work contemplated by the scope of services and shall clearly outline any need to access the application parcel and any requirement to perform any physical work on the subject property. Access to the property shall only be permitted with a representative of the applicant present.

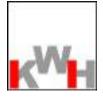
The proposal shall identify any information which the PZC is expected to provide to the consultant.

The proposal shall include a lump sum fee for the completion of the scope of services described herein and shall further include an hourly fee schedule for any additional services which may be required.

The proposal shall include a statement that the consultant has not previously provided traffic engineering services on behalf of Killingly Engineering Associates or Square One Building Associates.

SCOPE OF SERVICES TO BE PROVIDED

- 1. Review the application and supporting materials to identify potential adverse impacts to Town of Brooklyn roads and residences due to traffic created by the proposal.
- 2. One site visit to Louise Berry Drive during school pick-up and drop-off to address concerns about changes in traffic pattern since September, 2021.
- 3. If adverse impacts are identified, recommend plan revisions that would mitigate adverse impacts to Town of Brooklyn roads and residences.
- 4. Attend at least one Planning and Zoning Commission meeting (in-person or virtual).
- 5. The review and a summary report must be completed and provided to the PZC and the applicant no later than February 21, 2023.



January 15, 2023

Jana Butts Roberson, AICP Director of Community Development/Town Planner Town of Brooklyn PO Box 356 Brooklyn, CT 06234 ("CLIENT")

Reference: Traffic review of proposed multi-family condominium development on Louise Berry Drive, Brooklyn, Connecticut

Dear Ms. Roberson:

KWH Enterprise, LLC ("KWH") is pleased to submit this scope and fee proposal for the referenced site ("PROJECT") in Brooklyn, Connecticut.

KWH has not previously provided traffic engineering services on behalf of Killingly Engineering Associates or Square One Building Associates.

I. Scope of Services ("SERVICES"):

- 1. Review the application and supporting materials to identify potential adverse impacts to Town of Brooklyn roads and residences due to traffic created by the proposal.
- 2. If adverse impacts are identified, recommend plan revisions that would mitigate adverse impacts to Town of Brooklyn roads and residences.
- 3. Attend at least one Planning and Zoning Commission meeting (in-person or virtual).
- 4. The review and a summary report must be completed and provided to the PZC and the applicant no later than February 21, 2023.

II. Fees:

The fee for the above-noted traffic engineering services is as follows:

\$155 per hour and direct expenses for mileage. The not-to-exceed amount for this agreement is \$6,000.

Payments are due to KWH in 30 days from invoice date.

This agreement is subject to the attached Professional Services Terms and Conditions.



Page 2 of 2

Reference: Traffic review of proposed multi-family condominium development on Louise Berry Drive, Brooklyn, Connecticut

I appreciate this opportunity to submit the scope and fee proposal and look forward to working with you. Should you have any questions or need additional information, please feel free to contact me.

Sincerely,

KWH Enterprise, LLC

Kermit Hua

Kermit Hua, PE, PTOE Principal kermit.hua@kwhenterprise.com Cell: (203) 606-3525

ACCEPTED BY:

Signature

Name (Please print)

Agency/Company ("CLIENT") (Please print)

Title (Please print)

Date (Please print)

Attachment Professional Services Terms and Conditions



PROFESSIONAL SERVICES TERMS AND CONDITIONS

The following Terms and Conditions are attached to and form part of the Proposal for Professional Services to be performed by KWH Enterprise, LLC (hereinafter called "KWH") and together, when the CLIENT authorizes KWH to proceed with the services, constitute the AGREEMENT.

DESCRIPTION OF WORK: KWH shall render the services described in the Proposal (hereinafter called the "SERVICES") to the CLIENT.

TERMS AND CONDITIONS: No terms, conditions, understandings, or agreements purporting to modify or vary these Terms and Conditions shall be binding unless hereafter made in writing and signed by the CLIENT and KWH. In the event of any conflict between the Proposal and these Terms and Conditions, these Terms and Conditions shall take precedence. This AGREEMENT supercedes all previous agreements, arrangements or understandings between the parties whether written or oral in connection with or incidental to the PROJECT.

COMPENSATION: Payments are due to KWH in 30 days from invoice date. Failure to make any payment when due is a material breach of this AGREEMENT and will entitle KWH, at its option, to suspend or terminate this AGREEMENT and the provision of the SERVICES. Interest will accrue on accounts overdue by 30 days at the lesser of 1.5 percent per month (18 percent per annum) or the maximum legal rate of interest.

TERMINATION: Either party may terminate the AGREEMENT without cause upon thirty (30) day notice in writing. If either party breaches the AGREEMENT and fails to remedy such breach within seven (7) days of notice to do so by the non-defaulting party, the non-defaulting party may immediately terminate the Agreement. Non-payment by the CLIENT of KWH's invoices within 30 days of KWH rendering same is agreed to constitute a material breach and, upon written notice as prescribed above, the duties, obligations and responsibilities of KWH are terminated. On termination by either party, the CLIENT shall forthwith pay KWH all fees and charges for the SERVICES provided to the effective date of termination.

PROFESSIONAL RESPONSIBILITY: In performing the SERVICES, KWH will provide and exercise the standard of care, skill and diligence required by customarily accepted professional practices normally provided in the performance of the SERVICES at the time and the location in which the SERVICES were performed.

LIMITATION OF LIABILITY: The CLIENT releases KWH from any liability and agrees to defend, indemnify and hold KWH harmless from any and all claims, damages, losses, and/or expenses, direct and indirect, or consequential damages, including but not limited to attorney's fees and charges and court and arbitration costs, arising out of, or claimed to arise out of, the performance of the SERVICES, excepting liability arising from the sole negligence of KWH. It is further agreed that the total amount of all claims the CLIENT may have against KWH under these Terms and Conditions, including but not limited to claims for negligence, negligent misrepresentation and breach of contract, shall be strictly limited to the lesser of professional fees paid to KWH for the SERVICES or five hundred thousand dollars (\$500,000). No claim may be brought against KWH more than two (2) years after the cause of action arose. As the CLIENT's sole and exclusive remedy under these Terms and Conditions any claim, demand or suit shall be directed and/or asserted only against KWH and not against any of KWH's employees, officers or directors.

DOCUMENTS: All of the documents prepared by or on behalf KWH in connection with the PROJECT are instruments of service for the execution of the PROJECT. KWH retains the property and copyright in these documents, whether the PROJECT is executed or not. These documents may not be used for any other purpose without the prior written consent of KWH. In the event KWH's documents are subsequently reused or modified in any material respect without the prior consent of KWH, the CLIENT agrees to defend, hold harmless and indemnify KWH from any claims advanced on account of said reuse or modification.

DISPUTE RESOLUTION: If requested in writing by either the CLIENT or KWH, the CLIENT and KWH shall attempt to resolve any dispute between them arising out of or in connection with this AGREEMENT by entering into structured non-binding negotiations with the assistance of a mediator on a without prejudice basis. The mediator shall be appointed by agreement of the parties. If a dispute cannot be settled within a period of thirty (30) calendar days with the mediator, if mutually agreed, the dispute shall be referred to arbitration pursuant to laws of the jurisdiction in which the majority of the SERVICES are performed or elsewhere by mutual agreement.

ASSIGNMENT: The CLIENT and KWH shall not, without the prior written consent of the other party, assign the benefit or in any way transfer the obligations under these Terms and Conditions or any part hereof.

SEVERABILITY: If any term, condition or covenant of the AGREEMENT is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions of the AGREEMENT shall be binding on the CLIENT and KWH.