



VILLAGE OF PALATINE
VILLAGE HALL - COUNCIL CHAMBERS
200 E. WOOD STREET
PALATINE, IL 60067-5339 – (847) 359-9050
<http://www.palatine.il.us>

VILLAGE COUNCIL & COMMITTEE OF THE WHOLE

AGENDA

SEPTEMBER 9, 2024

Regular Meeting

7:00 PM

I. ROLL CALL

II. PLEDGE TO THE FLAG

III. APPROVAL OF MINUTES

1. Village Council - Special Meeting - September 3, 2024
2. Village Council & Committee of the Whole - Regular Meeting - September 3, 2024

IV. MAYOR'S REPORT

1. As Submitted

V. RECESS TO THE COMMITTEE OF THE WHOLE



VI. COMMITTEE OF THE WHOLE

A. INFRASTRUCTURE & ENVIRONMENT COMMITTEE

GREG SOLBERG, CHAIRMAN

1. Consider a Motion to Authorize the Village Manager to Purchase 2025 Light-Duty Fleet Consistent with the Capital Improvement Plan
2. Consider a Motion to Accept the Release of a Utility Easement at 698 West Meryls Court (Council District: Three)
3. As Submitted

B. ADMINISTRATION, TECHNOLOGY & COMMUNITY HEALTH COMMITTEE

BRAD HELMS, CHAIRMAN

1. Consider an Ordinance Decreasing the Number of Class D Liquor Licenses by One for Tellios Coffee, Inc., 790 W. Northwest Highway (Council District: One)

2. As Submitted

C. FIRE POLICY & COMMUNITY INFORMATION COMMITTEE

KOLLIN KOZLOWSKI, CHAIRMAN

1. Consider a Resolution Recommending Halloween Trick or Treat Hours for October 31, 2024
2. As Submitted

D. COMMUNITY & ECONOMIC DEVELOPMENT COMMITTEE

TIM MILLAR, CHAIRMAN

1. As Submitted

E. BUSINESS FINANCE & BUDGET COMMITTEE

DOUG MYSLINSKI, CHAIRMAN

1. As Submitted

F. POLICE POLICY & CODE SERVICES COMMITTEE

SCOTT LAMERAND, CHAIRMAN

1. As Submitted

VII. RECONVENE THE VILLAGE COUNCIL MEETING



VIII. CONSENT AGENDA

All items are considered to be routine by the Village Council and will be enacted by one motion, with waiver of first reading. There will be no separate discussion of these items unless a Council Member so requests, in which event the item will be removed from the Consent Agenda and considered in its normal sequence on the agenda.

1. Consider a Motion to Authorize the Village Manager to Purchase 2025 Light-Duty Fleet Consistent with the Capital Improvement Plan
2. Consider a Motion to Accept the Release of a Utility Easement at 698 West Meryls Court (Council District: Three)
3. Consider an Ordinance Decreasing the Number of Class D Liquor Licenses by One for Tellios Coffee, Inc., 790 W. Northwest Highway (Council District: One)
4. Consider a Resolution Recommending Halloween Trick or Treat Hours for October 31, 2024

IX. REPORTS OF STANDING COMMITTEE

A. ADMINISTRATION, TECHNOLOGY & COMMUNITY HEALTH COMMITTEE

BRAD HELMS, CHAIRMAN

1. As Submitted

B. BUSINESS FINANCE & BUDGET COMMITTEE

DOUG MYSLINSKI, CHAIRMAN

1. As Submitted

C. COMMUNITY & ECONOMIC DEVELOPMENT COMMITTEE

TIM MILLAR, CHAIRMAN

1. As Submitted

D. FIRE POLICY & COMMUNITY INFORMATION COMMITTEE

KOLLIN KOZLOWSKI, CHAIRMAN

1. As Submitted

E. INFRASTRUCTURE & ENVIRONMENT COMMITTEE

GREG SOLBERG, CHAIRMAN

1. As Submitted

F. POLICE POLICY & CODE SERVICES COMMITTEE

SCOTT LAMERAND, CHAIRMAN

1. As Submitted

X. REPORTS OF THE VILLAGE OFFICERS

A. VILLAGE MANAGER

1. As Submitted

B. VILLAGE CLERK

1. As Submitted

C. VILLAGE ATTORNEY

1. As Submitted

XI. CLOSED SESSION AS REQUIRED

XII. RECOGNITION OF AUDIENCE

XIII.ADJOURNMENT



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VILLAGE COUNCIL & COMMITTEE OF THE WHOLE
SEPTEMBER 3, 2024

Village Hall - Council Chambers

Special Meeting

6:30 PM

I. ROLL CALL – Time: 6:30 PM

Attendee Name	Title	Status	Arrived
Jim Schwantz	Mayor	Present	
Tim Millar	District 1 Councilman	Present	
Scott Lamerand	District 2 Councilman	Present	
Doug Myslinski	District 3 Councilman	Present	
Greg Solberg	District 4 Councilman	Present	
Kollin Kozlowski	District 5 Councilman	Absent	
Brad Helms	District 6 Councilman	Present	

Also Present:

Village Clerk Marg Duer, Village Manager Reid Ottesen, Village Attorney Patrick Brankin, Director of Public Works Matt Barry, Attorneys Bob Smith and John McCabe

II. REQUEST FOR CLOSED SESSION

1. Consider a Motion Requesting a Closed Session Pursuant to 5 ILCS 120/2 (c) (1), (11) and (21) - **Approved by Roll Call**

Village Manager Reid Ottesen requested a Closed Session Meeting to discuss Pending & Potential Litigation, Personnel Matters, and Minutes.

RESULT:	APPROVED BY ROLL CALL [UNANIMOUS]
MOVER:	Brad Helms, District 6 Councilman
SECONDER:	Tim Millar, District 1 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

Minutes Acceptance: Minutes of Sep 3, 2024 6:30 PM (APPROVAL OF MINUTES)

III. ADJOURNMENT – Time: 6:56 PMAdjourn the Special Village Council Meeting - **Motion Carried by Voice Vote**

RESULT:	MOTION CARRIED BY VOICE VOTE [UNANIMOUS]
MOVER:	Brad Helms, District 6 Councilman
SECONDER:	Tim Millar, District 1 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

SUBMITTED BY:

Margaret R. Duer
Village Clerk

Minutes Acceptance: Minutes of Sep 3, 2024 6:30 PM (APPROVAL OF MINUTES)



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VILLAGE COUNCIL & COMMITTEE OF THE WHOLE

MINUTES

SEPTEMBER 3, 2024

Regular Meeting

7:00 PM

I. ROLL CALL – Time: 7:00 PM

Attendee Name	Title	Status	Arrived
Jim Schwantz	Mayor	Present	
Tim Millar	District 1 Councilman	Present	
Scott Lamerand	District 2 Councilman	Present	
Doug Myslinski	District 3 Councilman	Present	
Greg Solberg	District 4 Councilman	Present	
Kollin Kozlowski	District 5 Councilman	Absent	
Brad Helms	District 6 Councilman	Present	

Also Present:

Village Clerk Marg Duer, Village Manager Reid Ottesen, Deputy Village Manager Hadley Skeffington-Vos, Village Attorney Patrick Brankin, Director of Community Development Mike Jacobs, Director of Planning & Zoning Ben Vyverberg, Director of Public Works Matt Barry, Police Chief William Nord, Fire Chief Patrick Gratziana, IT Director Larry Schroth, Director of Finance Paul Mehning, and Director of Human Resources Monika Pandya

II. PLEDGE TO THE FLAG

Mayor Schwantz invited everyone to stand and join him in the Pledge to the Flag.

III. APPROVAL OF MINUTES

- Village Council & Committee of the Whole - Regular Meeting - August 19, 2024
- Accepted

RESULT:	ACCEPTED [UNANIMOUS]
MOVER:	Doug Myslinski, District 3 Councilman
SECONDER:	Tim Millar, District 1 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

Minutes Acceptance: Minutes of Sep 3, 2024 7:00 PM (APPROVAL OF MINUTES)

IV. MAYOR'S REPORT

1. As Submitted -

Mayor Schwantz announced upcoming events:

Friday, September 6 - Sunday, September 8:
Par-Tee in the Stacks Mini Golf Fundraiser
Palatine Public Library

Friday, September 20 - Sunday, September 22:
Rotary Club of Palatine Oktoberfest Celebration
Corner of Smith and Slade Streets

V. RECESS TO THE COMMITTEE OF THE WHOLE

Recess to Committee of the Whole - **Motion Carried by Voice Vote**

RESULT:	MOTION CARRIED BY VOICE VOTE [UNANIMOUS]
MOVER:	Brad Helms, District 6 Councilman
SECONDER:	Greg Solberg, District 4 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

VI. COMMITTEE OF THE WHOLE

A. POLICE POLICY & CODE SERVICES COMMITTEE

SCOTT LAMERAND, CHAIRMAN

1. Consider an Ordinance Granting a Special Use Transfer to Permit the Continued Operation of a Kids Play Place at 1108 W. Northwest Highway - **Motion Carried by Voice Vote** (Council District: One)

Planning & Zoning Director Ben Vyverberg recommended Larisa Kislov's request for a Special Use Transfer to permit the continued operation of an indoor recreational children's play place, White Rabbit Club LTD, at 1108 W. Northwest Highway.

RESULT:	MOTION CARRIED BY VOICE VOTE [UNANIMOUS]
MOVER:	Tim Millar, District 1 Councilman
SECONDER:	Brad Helms, District 6 Councilman
AYES:	Schwantz, Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

2. Consider a Motion Approving the Halloween Hustle 5K & Kids Dash, Including a Waiver of the Village's Sound Amplification Ordinance and Temporary Closure of a Portion of Eric Drive, on Saturday, October 26, 2024 - **Approved by Voice Vote** (Council District: Six)

Village Manager Reid Ottesen presented Aaron Del Mar's proposal for a Halloween Hustle 5K in downtown Palatine on Saturday, October 26 from 8 AM to 11 AM on two courses (5K and Kids Dash), with an estimated 1,000 participants. Adrenaline Sports Management will take full responsibility for the event to benefit the Boys' and Girls' Club of Palatine. The Petitioner requests a waiver of the Village's sound amplification ordinance to allow announcements and music played through a speaker system from 8 AM - 10:30 AM (as in past years). The Palatine Police Department will be working with event organizers to determine Police staffing on the route and to conduct traffic control. Adrenaline will be responsible for 100% of all Village services provided as part of this event. Approval is contingent upon receiving the required Hold Harmless and Certificate of Insurance.

Mike Varon, 1320 W. Hamstead Ct. of Boys' and Girls' Club of Palatine, stated he has a memorandum of understanding to receive proceeds. The Boys' and Girls' Club has tremendous shortfalls currently and he supports the waiving of fees.

RESULT:	APPROVED BY VOICE VOTE [UNANIMOUS]
MOVER:	Brad Helms, District 6 Councilman
SECONDER:	Greg Solberg, District 4 Councilman
AYES:	Schwantz, Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

3. As Submitted -

Nothing was submitted.

B. INFRASTRUCTURE & ENVIRONMENT COMMITTEE

GREG SOLBERG, CHAIRMAN

1. Consider a Motion to Adjust the Leaf Collection Program - **Approved by Voice Vote**

Village Manager Reid Ottesen introduced the topic of the popular Palatine Leaf Collection Program and invited Public Works Director Matt Barry to explain the proposed plan based on a new method, a push and load process, revising leaf pick up schedule to:

- Week 1, the last week in October, a full community sweep, requiring all residents to have their leaves out by Monday October 28th;
- Week 2, Residents in zones 1 - 4 would have their leaves out by Monday November 4th;
- Week 3, Residents in zones 5 - 8 would have their leaves out by Monday November 11th;
- Week 4, a final all zone collection would start on Monday November 18th.

Barry added that the equipment for leaf pick up is also used for snow removal, and it takes three days for equipment conversion. Public Works is striving for efficiency and flexibility based on weather. Residents may bag leaves for pick up during the first two weeks in December.

Councilman Solberg confirmed that this will be clearly stated in the Newsletter.

Councilman Millar stressed the need for landscaping contractors to be aware of these changes.

RESULT:	APPROVED BY VOICE VOTE [UNANIMOUS]
MOVER:	Jim Schwantz, Mayor
SECONDER:	Scott Lamerand, District 2 Councilman
AYES:	Schwantz, Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

2. Consider a Motion to Award a Contract for the Tulip Way, Doe Road, Leonard Road and Olive Street Roadway Rehabilitation Improvements Project - **Approved by Voice Vote**

Public Works Director Matt Barry recommended awarding a contract to the low responsible bid, A.J. Johnson Paving, in the amount of \$867,402.15 for the rehabilitation of Tulip Way, Doe Road, Leonard Road and Olive Street

Barry noted that \$361,316 are available from the CDBG Program for the work on Tulip Way. Additionally, \$75,000 (from the \$4,518,176 in Rebuild Illinois funds the Village of Palatine received from the State) are available for the work on Doe Road, Leonard Road and Olive Street. The remaining balance of \$43,0732.15 can be covered by MFT funds.

Councilman Millar added to be sure we are communicating with the Park District regarding Doe Road.

RESULT:	APPROVED BY VOICE VOTE [UNANIMOUS]
MOVER:	Jim Schwantz, Mayor
SECONDER:	Scott Lamerand, District 2 Councilman
AYES:	Schwantz, Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

3. As Submitted -

Nothing was submitted.

C. ADMINISTRATION, TECHNOLOGY & COMMUNITY HEALTH COMMITTEE

BRAD HELMS, CHAIRMAN

1. Consider a Motion to Approve a Revision to the 2024-2025 Winter Farmers' Market Hours - **Approved by Voice Vote** (Council District: Six)

Village Manager Reid Ottesen presented the Farmers' Market request to extend the previous 2-hour Winter Market hours (10AM-Noon) by one hour to 9 AM to Noon. Open on the first and third Saturday mornings each month, November through April, the Winter Market is outdoors in the Train Station Parking lot to accommodate the increasing numbers of vendors and customers.

RESULT:	APPROVED BY VOICE VOTE [UNANIMOUS]
MOVER:	Doug Myslinski, District 3 Councilman
SECONDER:	Scott Lamerand, District 2 Councilman
AYES:	Schwantz, Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

2. As Submitted -

Nothing was submitted.

D. BUSINESS FINANCE & BUDGET COMMITTEE – Time: 7:22 PM

DOUG MYSLINSKI, CHAIRMAN

1. As Submitted -

Nothing was submitted.

E. COMMUNITY & ECONOMIC DEVELOPMENT COMMITTEE – Time: 7:22 PM

TIM MILLAR, CHAIRMAN

1. As Submitted -

Nothing was submitted.

F. FIRE POLICY & COMMUNITY INFORMATION COMMITTEE – Time: 7:22 PM*KOLLIN KOZLOWSKI, CHAIRMAN*

In the absence of Chairman Kozlowski, Vice-Chairman Helms opened the Fire Policy & Community Information Committee.

1. As Submitted -

Nothing was submitted.

VII. RECONVENE THE VILLAGE COUNCIL MEETING1. Reconvene the Village Council Meeting - **Motion Carried by Voice Vote**

RESULT:	MOTION CARRIED BY VOICE VOTE [UNANIMOUS]
MOVER:	Brad Helms, District 6 Councilman
SECONDER:	Scott Lamerand, District 2 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

VIII. CONSENT AGENDA

All items are considered to be routine by the Village Council and will be enacted by one motion, with waiver of first reading. There will be no separate discussion of these items unless a Council Member so requests, in which event the item will be removed from the Consent Agenda and considered in its normal sequence on the agenda.

RESULT:	ADOPTED BY ROLL CALL [UNANIMOUS]
MOVER:	Scott Lamerand, District 2 Councilman
SECONDER:	Doug Myslinski, District 3 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

1. Consider a Motion to Approve Warrant 2024 #17 - **Approved**
2. Consider an Ordinance Granting a Special Use Transfer to Permit the Continued Operation of a Kids Play Place at 1108 W. Northwest Highway - **Approved** (Council District: One)

Ordinance #O-78-24
3. Consider a Motion Approving the Halloween Hustle 5K & Kids Dash, Including a Waiver of the Village's Sound Amplification Ordinance and Temporary Closure of a Portion of Eric Drive, on Saturday, October 26, 2024 - **Approved** (Council District: Six)
4. Consider a Motion to Adjust the Leaf Collection Program - **Approved**

5. Consider a Motion to Award a Contract for the Tulip Way, Doe Road, Leonard Road and Olive Street Roadway Rehabilitation Improvements Project - **Approved**
6. Consider a Motion to Approve a Revision to the 2024-2025 Winter Farmers' Market Hours - **Approved** (Council District: Six)
7. Consider an Ordinance Amending Chapter 12 - Offenses and Miscellaneous Provisions of the Palatine Code of Ordinances - **Approved**

Ordinance #O-79-24

IX. REPORTS OF STANDING COMMITTEE

A. ADMINISTRATION, TECHNOLOGY & COMMUNITY HEALTH COMMITTEE

BRAD HELMS, CHAIRMAN

1. As Submitted -

No Report

B. BUSINESS FINANCE & BUDGET COMMITTEE

DOUG MYSLINSKI, CHAIRMAN

1. As Submitted -

No Report

C. COMMUNITY & ECONOMIC DEVELOPMENT COMMITTEE

TIM MILLAR, CHAIRMAN

1. As Submitted -

No Report

D. FIRE POLICY & COMMUNITY INFORMATION COMMITTEE

KOLLIN KOZLOWSKI, CHAIRMAN

In the absence of Chairman Kozlowski, Vice-Chairman Helms reported on the Fire Policy & Community Information Committee.

1. As Submitted -

No Report

E. INFRASTRUCTURE & ENVIRONMENT COMMITTEE*GREG SOLBERG, CHAIRMAN*

1. As Submitted -

No Report

F. POLICE POLICY & CODE SERVICES COMMITTEE*SCOTT LAMERAND, CHAIRMAN*

1. As Submitted -

No Report

X. REPORTS OF THE VILLAGE OFFICERS**A. VILLAGE MANAGER**

1. As Submitted -

No Report

B. VILLAGE CLERK

1. As Submitted -

No Report

C. VILLAGE ATTORNEY

1. As Submitted -

No Report

XI. CLOSED SESSION AS REQUIRED

No Closed Session requested.

XII. RECOGNITION OF AUDIENCE

No one came forward.

Minutes Acceptance: Minutes of Sep 3, 2024 7:00 PM (APPROVAL OF MINUTES)

XIII.ADJOURNMENT – Time: 7:23 PMAdjourn the Village Council Meeting - **Motion Carried by Voice Vote**

RESULT:	MOTION CARRIED BY VOICE VOTE [UNANIMOUS]
MOVER:	Brad Helms, District 6 Councilman
SECONDER:	Tim Millar, District 1 Councilman
AYES:	Millar, Lamerand, Myslinski, Solberg, Helms
ABSENT:	Kozlowski

SUBMITTED BY:

Margaret R. Duer
Village Clerk

Minutes Acceptance: Minutes of Sep 3, 2024 7:00 PM (APPROVAL OF MINUTES)

Consider a Motion to Authorize the Village Manager to Purchase 2025 Light-Duty Fleet Consistent with the Capital Improvement Plan

BACKGROUND:

The 2025 Capital Vehicle Replacement Budget includes \$392,000 for the replacement of Police vehicles. The purchases include 1 truck enforcement vehicle, 1 traffic enforcement vehicle, 1 command vehicle and 3 patrol vehicles.

Order bank windows through purchasing cooperatives are opening and closing in less than one month and the ability to even order units in the near term has been questionable. Pre-purchasing vehicles was authorized in 2022 and 2023 to reduce the risk of an inability to secure replacement vehicles crucial for the Police operation.

Greater flexibility on purchasing methods is suggested to address factory capacity issues, short openings of order banks, and long lead times which could result in a threat to the public health, safety or welfare of the general public. It is recommended the Village Manager be authorized to secure the replacement of the specific units referenced for the 2025 budget plan ahead of schedule.

KEY ISSUES:

- The units planned for 2025, which would be accelerated for 2024, include six police vehicles as order banks and cooperative purchase contracts are available to secure replacement units now and will close later this month.
- Cooperative contracts previously bid will be spot-checked to confirm the best available price can be achieved. If a more favorable offer can be secured than a previously competitively priced cooperative contract, this will be accepted. In any case, these units will be part of factory orders as units are not available from dealer inventory.
- The truck enforcement unit is proposing to replace the existing F250 with a F350 to better address cargo weight.
- The traffic unit is proposed to replace an existing Charger with a Dodge Durango as the Charger sedan is no longer produced.
- The command vehicle is proposed to replace the existing Expedition with an F150 with cab to realize cost efficiency while still meeting the mission of the vehicle.
- The patrol units are replacing in-kind hybrid Interceptors. A life cycle evaluation confirmed the increased initial cost of hybrids could be recuperated during the life of the unit. This is primarily due to the ability to transfer prisoner partitions in the existing units. All future replacement patrol units will be similarly evaluated prior to selecting recommended replacements.

ALTERNATIVES:

1. Authorize the Village Manager to purchase up to \$392,000 for accelerating the purchase of scheduled replacements for the Police fleet.
2. Refer back to Staff with comments.

RECOMMENDATION:

It is recommended that the Village Manager be authorized to purchase up to \$392,000

for accelerating the purchase of scheduled replacements for the Police fleet.

BUDGET IMPACT:

The \$392,000 would be from a budget adjustment advancing planned expenditures for 2025 into 2024. A corresponding reduction in the proposed 2025 budget would occur.

ACTION REQUIRED:

Motion to authorize the Village Manager to purchase up to \$392,000 for accelerating the purchase of scheduled replacements for the Police fleet.

Consider a Motion to Accept the Release of a Utility Easement at 698 West Meryls Court

BACKGROUND:

In the fall of 2020, the property owner of 698 West Meryls Court applied for a building permit to construct a fence in the rear yard of the property. As part of the inspection process, it was discovered that the property owner had also constructed a patio. The patio was encroaching into the drainage easement in the rear yard of the property and a citation was issued for the unpermitted work in the easement.

KEY ISSUES:

- The case was brought to adjudication.
- As a result, the property owner agreed to hire an engineering firm to develop a grading plan that would keep the flow and volume capacity of the drainage easement at its as-designed state.
- The property owner had a plat of easement release prepared to show that the portion of the easement that the patio currently occupies has been released, vacated, and abrogated.
- All additional utility companies have released, vacated, and abrogated the area.

ALTERNATIVES:

1. Accept the plat of easement release.
2. Do not accept the plat of easement release.

RECOMMENDATION:

Staff recommends acceptance of the plat of easement release.

ACTION REQUIRED:

Motion to accept the plat of easement release at 698 West Meryls Court.

ATTACHMENTS:

- 2023-01-06 698 West Meryls Court Easement Release
- 698 Rear Yard Drainage Analysis 08-09-2021
- 698 Rear Yard Drainage Exhibits 08-09-2021

REAR YARD DRAINAGE REPORT

Contents:

- 1 Project Overview & Project Conclusion
- 2 Exhibit A: On-Site Tributary Area Exhibit
- 3 Exhibit B: On-Site Time of Concentration (Tc)
- 4 Exhibit C: Off-Site Tributary Area Exhibit
- 5 Exhibit D: Pond Pack Schematic
- 6 Exhibit E: Bulletin 70 Pond Pack Master Network Summary
- 7 Exhibit F: Flow Master Report & Cross Sections
- 8 Exhibit G: MWRD #2000-057 Key Sheets

Project:

Lopatkina Residence
Lot 16 Dunhaven Woods South
Rear Yard Drainage Report

Location:

698 W. Meryls Court
Palatine, Illinois

Prepared For:

Ellen Lopatkina

Date:

August 9, 2021

Prepared By:

Todd A. Shaffer, P.E., CFM
Haeger Project No.: 21-050



ENGINEERING | SURVEYING | CONSTRUCTION

HAEGER ENGINEERING
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100 East State Parkway, Schaumburg, IL 60173 • tel 847.394.6600 fax 847.394.6608
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Packet Pg. 20



PROJECT OVERVIEW:

Haeger Engineering LLC (Haeger) performed a rear yard drainage analysis utilizing drainage information from MWRD Permit #2000-0547 for the Dunhaven Woods Subdivision to analyze the impact of vacating the southern 5-ft of the existing northern 25-ft easement on Lot 16 to allow for an existing patio encroachment to remain in place. Key information from MWRD #2000-0547 (See Exhibit G) included:

1. On-Site Tributary Area – See Exhibit A, Exhibit B & Exhibit G
 - Area: 0.69 Acres
 - CN: 73
 - Tc: 0.26 Hours
2. Off-Site Tributary Area #1 (Part of Sub-Area 33) – See Exhibit C & Exhibit G
 - Area: 19.6 Acres (See Note A)
 - CN: 68
 - Tc: 0.55 Hours

Note A:

A portion of the 19.6 acres enters the existing storm sewer system and also overflows to the west, but to be conservative, the Pond Pack analysis assumes that the entire area enters Lot 16 at the west property line.

3. Off-Site Tributary Area #2 (Part of Sub-Area 50) – See Exhibit C & Exhibit G
 - Area: 26.8 Acres (See Note B)
 - CN: 81
 - Tc: 0.98 Hours

Note B:

A portion of the 26.8 acres enters the swale east of Lot 16, but to be conservative, the Pond Pack analysis assumes that the entire area enters Lot 16 at the west property line.

4. Rainfall
 - MWRD #2000-0547 utilized Bulletin 70 Critical Duration Analysis

The Pond Pack Critical Duration Analysis (CDA) yielded a peak flow of **66.10 cfs** for the 100 Year, 2 Hour storm event for the discharge to the east property line of Lot 16. See Exhibit E.

Cross sections at various critical locations were completed based on a Topographic Survey with field work completed on April 2, 2021. Refer to the enclosed "Lot 16 Dunhaven Woods South Rear Yard Drainage Exhibits" for additional information. The cross-section data was entered into Flow Master for the Bulletin 70 CDA that produced a water surface elevation for each cross section. Refer to the enclosed Exhibit F for Flow Master Report for Bulletin 70. These water surface elevations were added to the cross sections included in the above referenced and enclosed "Lot 16 Dunhaven Woods South Rear Yard Drainage Exhibits". As shown, the water surface elevations for all of the cross sections analyzed on Lot 16 adjacent to the as-built patio and adjacent wall to the east of the patio (Sta. 10+13.89 to Sta. 10+67.15) for Bulletin 70 rainfalls are contained within the northern 20-ft of Lot 16.

The Owner has verified that the existing ground elevations between the north face of the patio and north face of the wall to the east of the patio have "not been altered in any way and is of the same elevation and grades today as they were prior to construction of the patio."

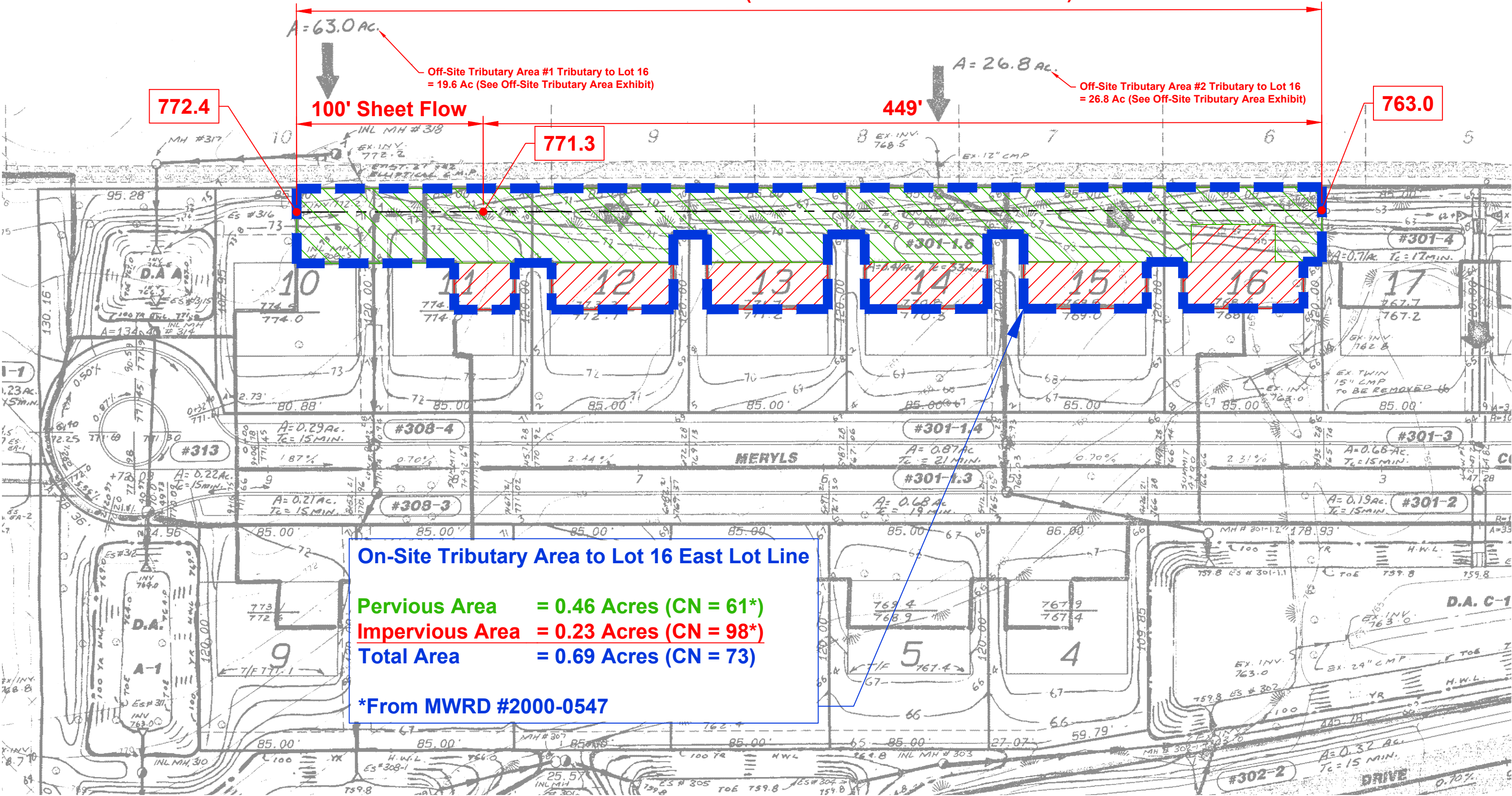


Project Conclusion:

The water surface elevations for the Bulletin 70 rainfall critical duration analysis are contained within the northern 20-ft of Lot 16 adjacent to the as-built patio and wall to the east of the patio (Sta. 10+13.89 to Sta. 10+67.15). As a result, vacating the southern 5-ft of the existing northern 25-ft drainage & utility easement on Lot 16 adjacent to the as-built patio and adjacent wall to the east of the patio (Sta. 10+13.89 to Sta. 10+67.15) and maintaining the grading that was surveyed on April 2, 2021 will allow for the conveyance of the upstream tributary area based on MWRD #2000-0547 original design and the original Bulletin 70 rainfall.

BASE MAP NOTE:
THE BASE MAP FOR THIS DRAINAGE EXHIBIT WAS OBTAINED FROM THE MWRD FOR PERMIT #2000-0547 "DRAINAGE PLANS FOR DUNHAVEN WOODS SOUTH P.U.D." (SHEET 12 OF 14 TITLED "WEST SECTION STORM SEWER DESIGN PLAN) PREPARED BY BRANECKI-VIRGILIO ASSOCIATES DATED 9/20/2000, LAST REVISED 11/16/2001. SEE EXHIBIT F.

Overland Flow Path (Tc = 15.59 Minutes = 0.26 Hours)



NRCS TIME OF CONCENTRATION (T_c) OR TRAVEL TIME (T_t)PROJECT: Lopatkina Residence
(Lot 16 Dunhaven Woods South)

PROJECT NUMBER: 21-050

LOCATION: 698 W. Meryls, Palatine, IL

DATE: 8/9/2021

CONDITION (SELECT FROM DROP-DOWN)

☐ PROPOSED CONDITION☒ EXISTING CONDITION

SHEET FLOW

1. Segment ID	1		
2. Surface description	Short Grass		
3. Manning's roughness coefficient, n	0.15		
4. Flow length, L (≤ 100 ft)	100	ft	
5. 2-year, 24-hr rainfall, P_2	3.34	in	
6. Land slope, s	0.011	ft/ft	
7. Travel time, T_t	12.18	+	

$T_t = \frac{0.007(nL)^{0.8}}{(P_2)^{0.5}S^{0.4}} (60)$

Slope = (772.4-771.3)/100

= 12.18 min

SHALLOW CONCENTRATED FLOW

8. Segment ID	2		
9. Surface description (drop-down list)	Unpaved		
10. Flow length, L	449	ft	
11. Watercourse slope, s	0.018	ft/ft	
12. Average velocity, V	2.19	fps	
13. Travel time, T_t	3.41	+	

$T_t = \frac{L}{60V}$

Slope = (771.3-763)/449

= 3.41 min

OPEN CHANNEL FLOW

14. Segment ID			
15. Cross-sectional flow area, A		ft ²	
16. Wetted Perimeter, P_w		ft	
17. Hydraulic radius, R		ft	
18. Flow Length, L		ft	
19. Channel slope, S		ft/ft	
20. Manning's roughness coefficient, n			
21. Average velocity, V		fps	
22. Travel time, T_t		+	

$V = \frac{1.486}{n} R^{\frac{2}{3}} S^{\frac{1}{2}}$

$T_t = \frac{L}{60V}$

= min

TIME-OF-CONCENTRATION (T_c) OR TRAVEL TIME (T_t)

23. Time-of-Concentration, T_c , or Travel Time, T_t

$T_c, T_t = \sum T_t$

= 15.59 min

0.26 hr

BASE MAP NOTE:

THE BASE MAP FOR THIS DRAINAGE EXHIBIT WAS OBTAINED FROM THE MWRD FOR PERMIT #2000-0547 "DRAINAGE PLANS FOR DUNHAVEN WOODS SOUTH P.U.D." (SHEET 9 OF 14 TITLED "DETENTION AREA SERVICE PLAN") PREPARED BY BRANECKI-VIRGILIC ASSOCIATES DATED 3/2/2000, LAST REVISED 11/16/2001. SEE EXHIBIT F.

OFF-SITE TRIBUTARY AREA #1:

AREA = 19.6 ACRES
CN = 68
Tc = 0.55 HOURS

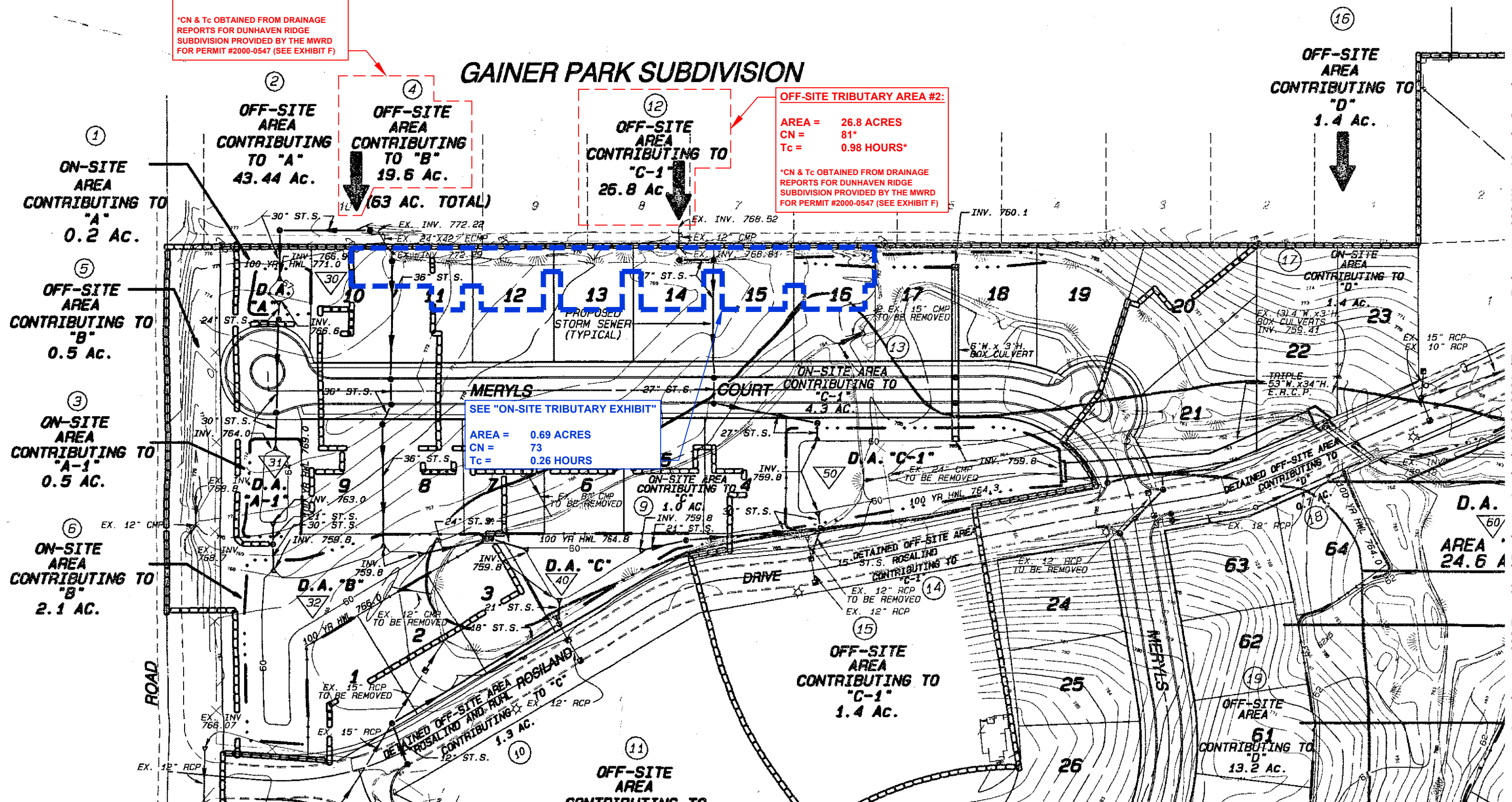
*CN & Tc OBTAINED FROM DRAINAGE REPORTS FOR DUNHAVEN RIDGE SUBDIVISION PROVIDED BY THE MWRD FOR PERMIT #2000-0547 (SEE EXHIBIT F)

GAINER PARK SUBDIVISION

OFF-SITE TRIBUTARY AREA #2:

AREA = 26.8 ACRES
CN = 81*
Tc = 0.98 HOURS*

*CN & Tc OBTAINED FROM DRAINAGE REPORTS FOR DUNHAVEN RIDGE SUBDIVISION PROVIDED BY THE MWRD FOR PERMIT #2000-0547 (SEE EXHIBIT F)



SEE "ON-SITE TRIBUTARY EXHIBIT"

AREA = 0.69 ACRES
CN = 73
Tc = 0.26 HOURS

EXHIBIT C: OFF-SITE TRIBUTARY AREA EXHIBIT

LOPATKINA RESIDENCE
(LOT 16 DUNHAVEN WOODS SOUTH)

698 W. Meryls, Palatine, IL

HAEGER ENGINEERING
consulting engineers • land surveyors

100 East State Parkway, Schaumburg, IL 60173 Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003152 www.HaegerEngineering.com

Project Manager: T /
Engineer: P /
Date: 08/09/2021
Project No. 21-050

Packet Pg. 25

EXHIBIT D
POND PACK SCHEMATIC

6.A.2.b

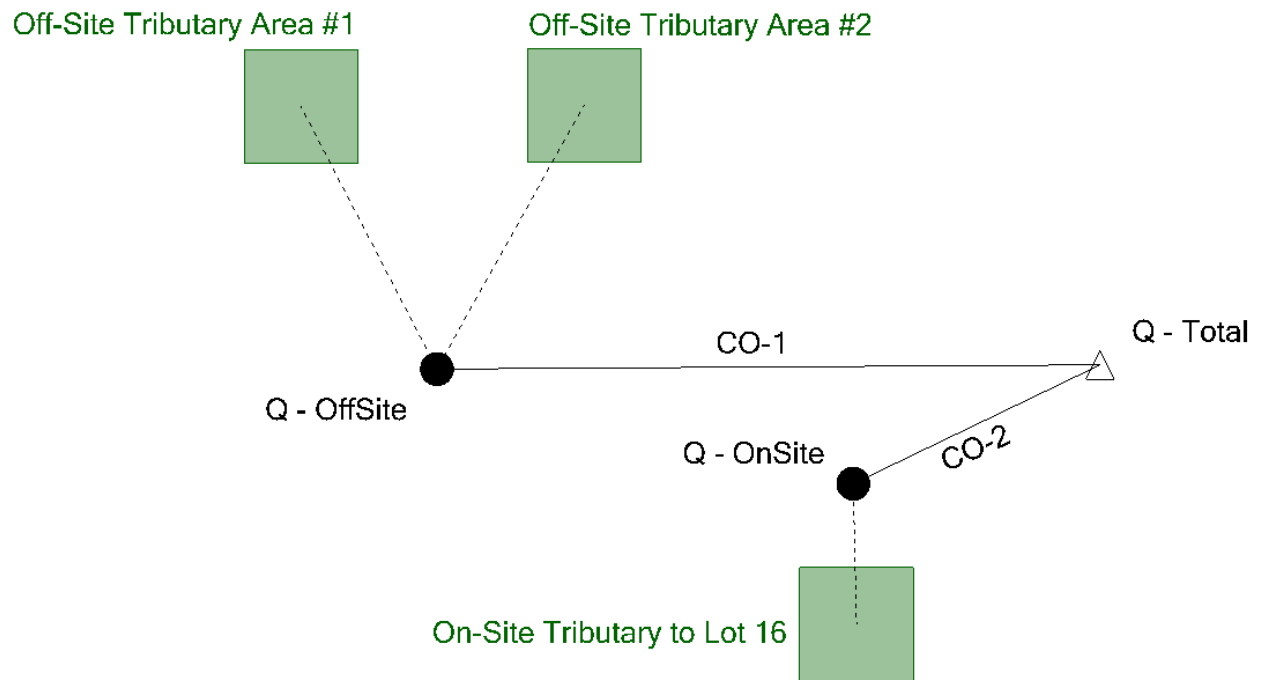


EXHIBIT E
BULLETIN 70 POND PACK MASTER NETWORK SUMMARY'
Q(PEAK) = 66.10 CFS

6.A.2.b

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Off-Site Tributary Area #2	B70 100 yr 240 hr	100.00	19.537	204.00	3.07
Off-Site Tributary Area #2	B70 100 yr 5 min	100.00	0.156	0.65	2.16
Off-Site Tributary Area #2	B70 100 yr 10 min	100.00	0.908	0.65	12.45
Off-Site Tributary Area #2	B70 100 yr 15 min	100.00	1.421	0.65	19.21
Off-Site Tributary Area #2	B70 100 yr 30 min	100.00	2.595	0.80	33.03
Off-Site Tributary Area #2	B70 100 yr 1 hr	100.00	3.925	0.95	40.90
Off-Site Tributary Area #2	B70 100 yr 2 hr	100.00	5.633	1.15	43.76
Off-Site Tributary Area #2	B70 100 yr 3 hr	100.00	6.372	1.30	39.80
Off-Site Tributary Area #2	B70 100 yr 6 hr	100.00	8.025	1.70	31.43
Off-Site Tributary Area #2	B70 100 yr 12 hr	100.00	9.883	5.60	26.03
Off-Site Tributary Area #2	B70 100 yr 18 hr	100.00	10.669	11.90	22.46
Off-Site Tributary Area #2	B70 100 yr 24 hr	100.00	11.942	15.70	19.11
Off-Site Tributary Area #2	B70 100 yr 48 hr	100.00	13.162	41.00	10.72
Off-Site Tributary Area #2	B70 100 yr 72 hr	100.00	14.475	61.00	7.81
Off-Site Tributary Area #2	B70 100 yr 120 hr	100.00	16.995	102.00	5.42
On-Site Tributary to Lot 16	B70 100 yr 240 hr	100.00	0.441	204.00	0.07
On-Site Tributary to Lot 16	B70 100 yr 5 min	100.00	0.000	0.25	0.02
On-Site Tributary to Lot 16	B70 100 yr 10 min	100.00	0.011	0.25	0.51
On-Site Tributary to Lot 16	B70 100 yr 15 min	100.00	0.020	0.30	0.81
On-Site Tributary to Lot 16	B70 100 yr 30 min	100.00	0.042	0.35	1.20
On-Site Tributary to Lot 16	B70 100 yr 1 hr	100.00	0.070	0.45	1.31
On-Site Tributary to Lot 16	B70 100 yr 2 hr	100.00	0.108	0.60	1.23
On-Site Tributary to Lot 16	B70 100 yr 3 hr	100.00	0.124	0.80	1.01
On-Site Tributary to Lot 16	B70 100 yr 6 hr	100.00	0.162	1.30	0.68

21050-Peak Flow Analysis (B70).ppc
8/9/2021

Bentley Systems, Inc. Haestad Methods Solution Center
27 Siemon Company Drive Suite 200 W
Watertown, CT 06795 USA +1-203-755-1666

PondPack CONNECT Edition
[10.02.00.01]
Page 1 of 3

Attachment: 698 Rear Yard Drainage Analysis 08-09-2021 (Easement Release at 698 West Meryls Court)

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
On-Site Tributary to Lot 16	B70 100 yr 12 hr	100.00	0.206	5.40	0.59
On-Site Tributary to Lot 16	B70 100 yr 18 hr	100.00	0.225	11.70	0.54
On-Site Tributary to Lot 16	B70 100 yr 24 hr	100.00	0.255	15.60	0.45
On-Site Tributary to Lot 16	B70 100 yr 48 hr	100.00	0.285	40.50	0.25
On-Site Tributary to Lot 16	B70 100 yr 72 hr	100.00	0.317	61.00	0.18
On-Site Tributary to Lot 16	B70 100 yr 120 hr	100.00	0.379	102.00	0.13
Off-Site Tributary Area #1	B70 100 yr 240 hr	100.00	11.398	204.00	2.00
Off-Site Tributary Area #1	B70 100 yr 5 min	100.00	0.000	0.00	0.00
Off-Site Tributary Area #1	B70 100 yr 10 min	100.00	0.160	0.45	3.80
Off-Site Tributary Area #1	B70 100 yr 15 min	100.00	0.345	0.50	7.95
Off-Site Tributary Area #1	B70 100 yr 30 min	100.00	0.859	0.60	17.06
Off-Site Tributary Area #1	B70 100 yr 1 hr	100.00	1.529	0.70	21.06
Off-Site Tributary Area #1	B70 100 yr 2 hr	100.00	2.470	0.90	22.74
Off-Site Tributary Area #1	B70 100 yr 3 hr	100.00	2.897	1.05	20.11
Off-Site Tributary Area #1	B70 100 yr 6 hr	100.00	3.884	1.60	15.55
Off-Site Tributary Area #1	B70 100 yr 12 hr	100.00	5.033	5.50	14.27
Off-Site Tributary Area #1	B70 100 yr 18 hr	100.00	5.530	11.80	13.32
Off-Site Tributary Area #1	B70 100 yr 24 hr	100.00	6.345	15.60	11.46
Off-Site Tributary Area #1	B70 100 yr 48 hr	100.00	7.134	41.00	6.54
Off-Site Tributary Area #1	B70 100 yr 72 hr	100.00	8.001	61.00	4.85
Off-Site Tributary Area #1	B70 100 yr 120 hr	100.00	9.679	102.00	3.46

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
-------	----------	----------------------	---------------------------	----------------------	--------------------------------

21050-Peak Flow Analysis (B70).ppc
8/9/2021

Bentley Systems, Inc. Haestad Methods Solution Center
27 Siemon Company Drive Suite 200 W
Watertown, CT 06795 USA +1-203-755-1666

PondPack CONNECT Edition
[10.02.00.01]
Page 2 of 3

Attachment: 698 Rear Yard Drainage Analysis 08-09-2021 (Easement Release at 698 West Meryls Court)

Subsection: Master Network Summary

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Q - OffSite	B70 100 yr 240 hr	100.00	30.935	204.00	5.07
Q - OffSite	B70 100 yr 5 min	100.00	0.156	0.65	2.16
Q - OffSite	B70 100 yr 10 min	100.00	1.068	0.60	14.75
Q - OffSite	B70 100 yr 15 min	100.00	1.767	0.65	24.94
Q - OffSite	B70 100 yr 30 min	100.00	3.454	0.70	46.66
Q - OffSite	B70 100 yr 1 hr	100.00	5.454	0.90	59.32
Q - OffSite	B70 100 yr 2 hr	100.00	8.103	1.05	65.33
Q - OffSite	B70 100 yr 3 hr	100.00	9.269	1.20	59.10
Q - OffSite	B70 100 yr 6 hr	100.00	11.909	1.70	46.90
Q - OffSite	B70 100 yr 12 hr	100.00	14.916	5.50	40.28
Q - OffSite	B70 100 yr 18 hr	100.00	16.199	11.80	35.69
Q - OffSite	B70 100 yr 24 hr	100.00	18.287	15.70	30.55
Q - OffSite	B70 100 yr 48 hr	100.00	20.295	41.00	17.26
Q - OffSite	B70 100 yr 72 hr	100.00	22.476	61.00	12.66
Q - OffSite	B70 100 yr 120 hr	100.00	26.674	102.00	8.88
Q - OnSite	B70 100 yr 240 hr	100.00	0.441	204.00	0.07
Q - OnSite	B70 100 yr 5 min	100.00	0.000	0.25	0.02
Q - OnSite	B70 100 yr 10 min	100.00	0.011	0.25	0.51
Q - OnSite	B70 100 yr 15 min	100.00	0.020	0.30	0.81
Q - OnSite	B70 100 yr 30 min	100.00	0.042	0.35	1.20
Q - OnSite	B70 100 yr 1 hr	100.00	0.070	0.45	1.31
Q - OnSite	B70 100 yr 2 hr	100.00	0.108	0.60	1.23
Q - OnSite	B70 100 yr 3 hr	100.00	0.124	0.80	1.01
Q - OnSite	B70 100 yr 6 hr	100.00	0.162	1.30	0.68
Q - OnSite	B70 100 yr 12 hr	100.00	0.206	5.40	0.59
Q - OnSite	B70 100 yr 18 hr	100.00	0.225	11.70	0.54
Q - OnSite	B70 100 yr 24 hr	100.00	0.255	15.60	0.45
Q - OnSite	B70 100 yr 48 hr	100.00	0.285	40.50	0.25
Q - OnSite	B70 100 yr 72 hr	100.00	0.317	61.00	0.18
Q - OnSite	B70 100 yr 120 hr	100.00	0.379	102.00	0.13
Q - Total	B70 100 yr 240 hr	100.00	31.376	204.00	5.15
Q - Total	B70 100 yr 5 min	100.00	0.156	0.65	2.16
Q - Total	B70 100 yr 10 min	100.00	1.078	0.60	14.78
Q - Total	B70 100 yr 15 min	100.00	1.786	0.60	25.01
Q - Total	B70 100 yr 30 min	100.00	3.496	0.65	47.05
Q - Total	B70 100 yr 1 hr	100.00	5.524	0.90	59.98
Q - Total	B70 100 yr 2 hr	100.00	8.211	1.05	66.10
Q - Total	B70 100 yr 3 hr	100.00	9.394	1.20	59.81
Q - Total	B70 100 yr 6 hr	100.00	12.071	1.65	47.53
Q - Total	B70 100 yr 12 hr	100.00	15.122	5.50	40.86
Q - Total	B70 100 yr 18 hr	100.00	16.424	11.80	36.20
Q - Total	B70 100 yr 24 hr	100.00	18.542	15.70	30.99
Q - Total	B70 100 yr 48 hr	100.00	20.580	41.00	17.50
Q - Total	B70 100 yr 72 hr	100.00	22.793	61.00	12.84
Q - Total	B70 100 yr 120 hr	100.00	27.052	102.00	9.01

EXHIBIT F

FLOW MASTER REPORT & CROSS SECTIONS

6.A.2.b

Irregular Section (21050-FlowMaster-Final (B70).fm8)

Label	Solve For	Friction Method	Roughness Coefficient	Channel Slope (ft/ft)	Water Surface Elevation (ft)
Section 9+89.69	Normal Depth	Manning Formula	0.030	0.019	765.94
Section 10+00.00	Normal Depth	Manning Formula	0.030	0.018	765.77
Section 10+10.29	Normal Depth	Manning Formula	0.030	0.011	765.72
Section 10+13.89	Normal Depth	Manning Formula	0.030	0.017	765.62
Section 10+31.89	Normal Depth	Manning Formula	0.030	0.022	765.31
Section 10+51.19	Normal Depth	Manning Formula	0.030	0.011	765.14
Section 10+67.15	Normal Depth	Manning Formula	0.030	0.025	764.63
Section 10+74.77	Normal Depth	Manning Formula	0.030	0.011	764.64
Section 10+84.98	Normal Depth	Manning Formula	0.030	0.008	764.81
Section 10+95.09	Normal Depth	Manning Formula	0.030	0.020	764.57
Elevation Range	Discharge (cfs)	Flow Area (ft²)	Wetted Perimeter (ft)	Hydraulic Radius (in)	Top Width (ft)
764.8 to 768.1 ft	66.10	12.6	18.5	8.1	18.33
764.6 to 767.5 ft	66.10	12.5	17.5	8.5	17.23
764.4 to 767.8 ft	66.10	14.0	16.3	10.4	15.85
764.4 to 768.0 ft	66.10	12.1	15.4	9.4	15.08
764.1 to 768.0 ft	66.10	10.6	13.6	9.4	13.21
763.7 to 768.0 ft	66.10	13.7	15.4	10.7	15.01
763.5 to 767.2 ft	66.10	10.4	14.1	8.8	13.80
763.3 to 766.4 ft	66.10	13.3	14.3	11.2	13.80
763.2 to 766.1 ft	66.10	16.8	20.2	10.0	19.85
763.1 to 766.3 ft	66.10	12.1	17.4	8.3	17.09
Normal Depth (in)	Critical Depth (in)	Critical Slope (ft/ft)	Velocity (ft/s)	Velocity Head (ft)	Specific Energy (ft)
13.5	14.2	0.015	5.26	0.43	1.55
13.9	14.5	0.015	5.30	0.44	1.59
15.4	14.4	0.014	4.71	0.34	1.63
14.7	15.3	0.014	5.48	0.47	1.70
14.8	16.8	0.015	6.23	0.60	1.84
17.8	16.7	0.014	4.81	0.36	1.84
13.8	15.6	0.014	6.38	0.63	1.78
16.2	15.3	0.014	4.96	0.38	1.74
19.5	17.4	0.015	3.93	0.24	1.87
17.6	18.6	0.015	5.48	0.47	1.94
Froude Number	Flow Type	Notes	Messages		
1.121	Supercritical				
1.099	Supercritical				
0.882	Subcritical				
1.081	Supercritical				
1.227	Supercritical				

21050-FlowMaster-Final (B70).fm8
8/9/2021

Bentley Systems, Inc. Haestad Methods Solution Center
27 Siemon Company Drive Suite 200 W
Watertown, CT 06795 USA +1-203-755-1666

FlowMaster
[10.03.00.03]
Page 1 of 2

Attachment: 698 Rear Yard Drainage Analysis 08-09-2021 (Easement Release at 698 West Meryls Court)

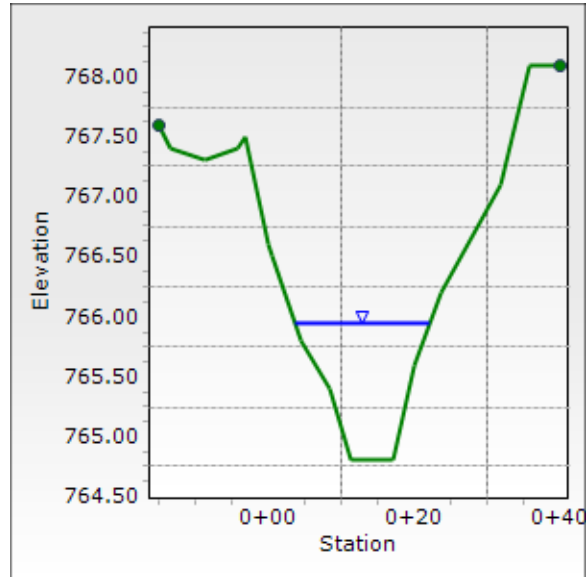
Irregular Section (21050-FlowMaster-Final (B70).fm8)

Froude Number	Flow Type	Notes	Messages
0.886	Subcritical		Flow is divided.
1.298	Supercritical		
0.890	Subcritical		
0.752	Subcritical		
1.150	Supercritical		

Attachment: 698 Rear Yard Drainage Analysis 08-09-2021 (Easement Release at 698 West Meryls Court)

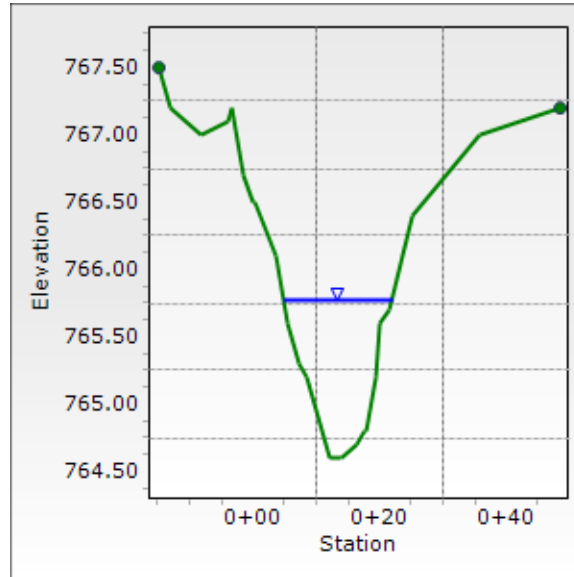
Cross Section for Section 9+89.69

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.019 ft/ft
Normal Depth	13.5 in
Discharge	66.10 cfs



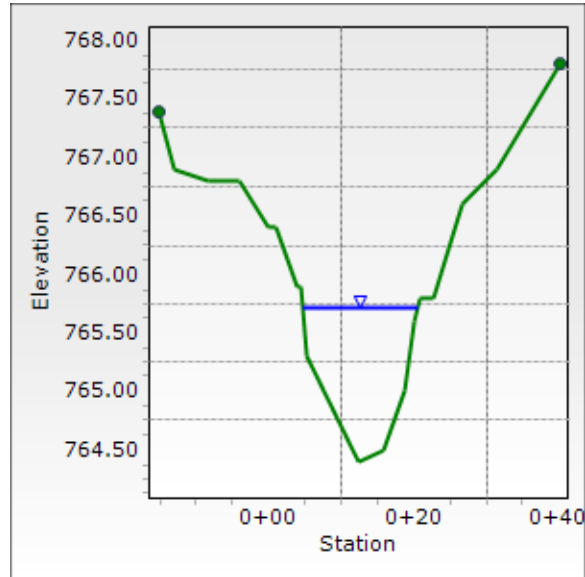
Cross Section for Section 10+00.00

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.018 ft/ft
Normal Depth	13.9 in
Discharge	66.10 cfs



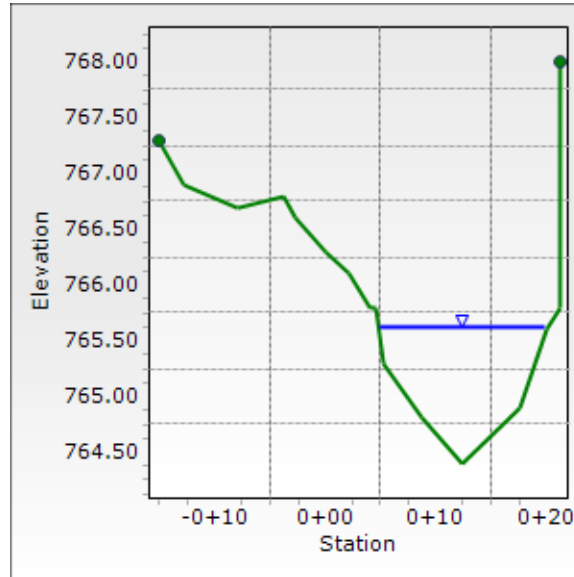
Cross Section for Section 10+10.29

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.011 ft/ft
Normal Depth	15.4 in
Discharge	66.10 cfs



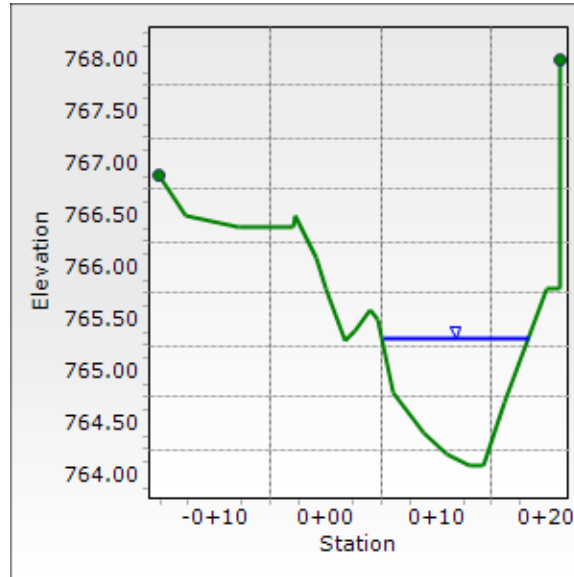
Cross Section for Section 10+13.89

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.017 ft/ft
Normal Depth	14.7 in
Discharge	66.10 cfs



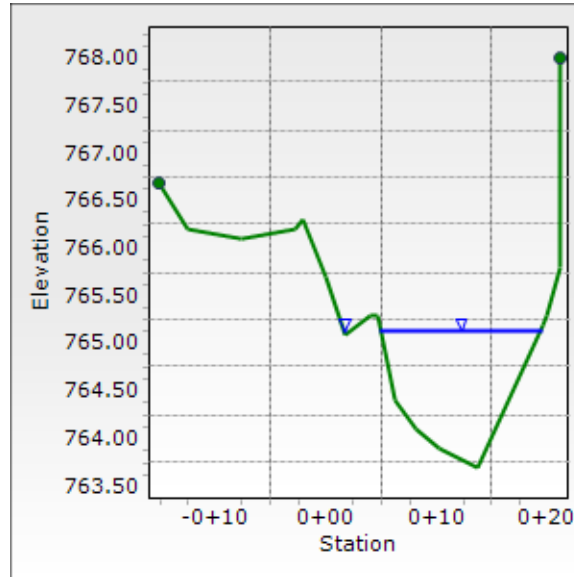
Cross Section for Section 10+31.89

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.022 ft/ft
Normal Depth	14.8 in
Discharge	66.10 cfs



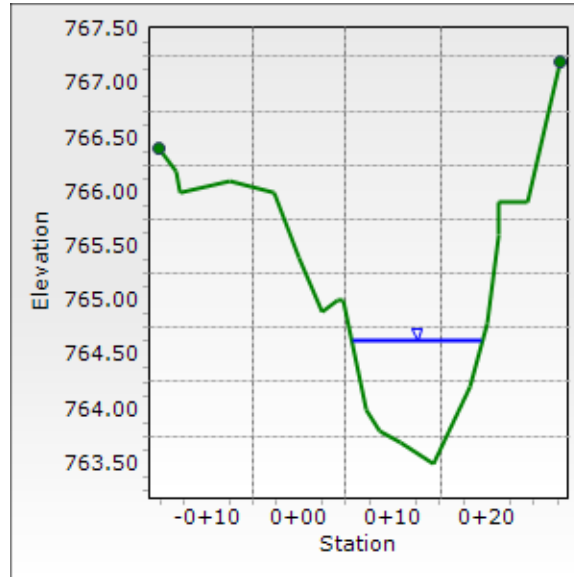
Cross Section for Section 10+51.19

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.011 ft/ft
Normal Depth	17.8 in
Discharge	66.10 cfs



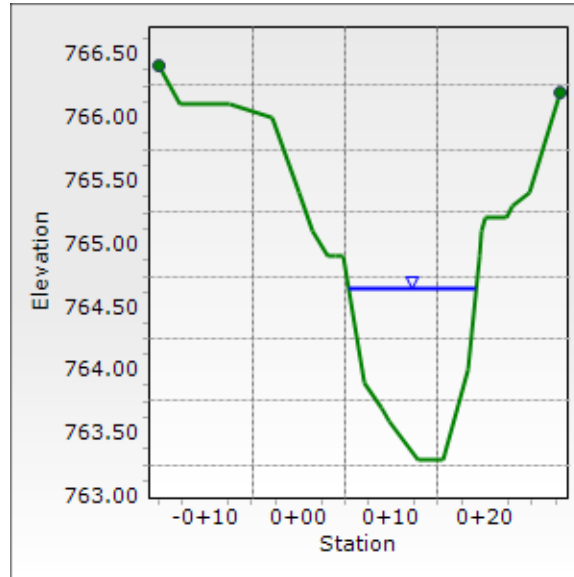
Cross Section for Section 10+67.15

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.025 ft/ft
Normal Depth	13.8 in
Discharge	66.10 cfs



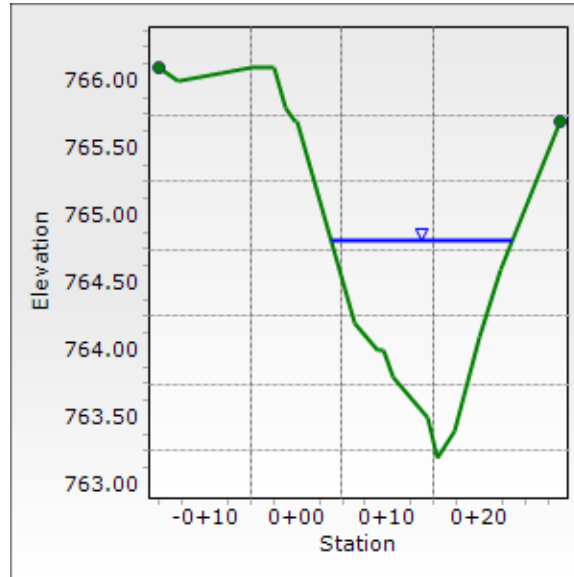
Cross Section for Section 10+74.77

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.011 ft/ft
Normal Depth	16.2 in
Discharge	66.10 cfs



Cross Section for Section 10+84.98

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.008 ft/ft
Normal Depth	19.5 in
Discharge	66.10 cfs



Cross Section for Section 10+95.09

Project Description	
Friction Method	Manning
	Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.020 ft/ft
Normal Depth	17.6 in
Discharge	66.10 cfs

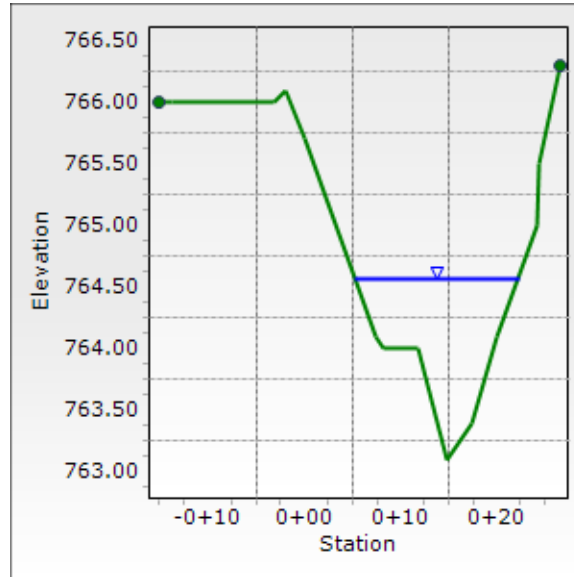


EXHIBIT G
MWRD #2000-057
KEY SHEETS

DRAINAGE PLANS

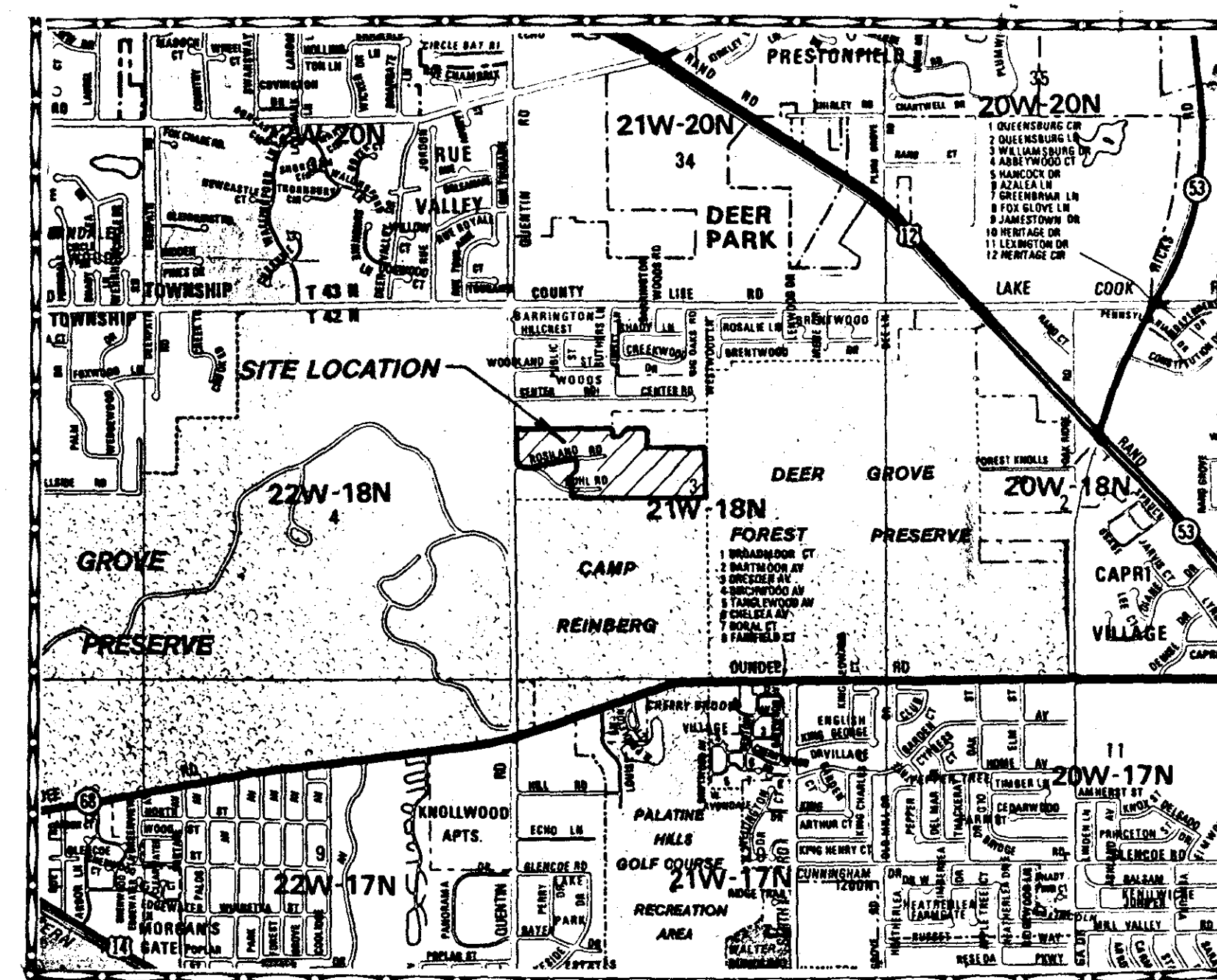
FOR

DUNHAVEN WOODS SOUTH P.U.D.

PALATINE, COOK COUNTY, ILLINOIS

INDEX TO PLAN SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS FLOOD STUDY CROSS-SECTION LOCATION PLAN
3	FLOOD SECTIONS (STA. 15+50 - 34+88)
4	FLOOD SECTIONS (STA. 35+18 - 51+90)
5	URBAN SOIL MAP
6	COMPENSATORY STORAGE CROSS-SECTION LOCATION PLAN
7	COMPENSATORY STORAGE CROSS-SECTIONS (C-1 - C-5)
8	COMPENSATORY STORAGE CROSS-SECTIONS (C-6 - C-7)
9	DETENTION AREA SERVICE PLAN
10	DETENTION AREAS "D" AND "F" CROSS-SECTIONS
11	STORM SEWER DESIGN PLAN (EAST SECTION)
12	STORM SEWER DESIGN PLAN (WEST SECTION)
13	FLOOD PROFILE
14	PROPOSED CONDITIONS FLOOD STUDY CROSS SECTION LOCATION PLAN



LOCATION MAP
 SCALE: 1"=2000'

BENCHMARK: CHISELED SQUARE ON TOP CENTER OF HEADWALL NORTH OF R.O.W. AT
 STATION 0 + 00 ROSILAND DRIVE
 ELEVATION: 765.67

NOTE: SEE STORM WATER MANAGEMENT REPORT
 FOR ADDITIONAL INFORMATION.

OFFICE COPY

DRAINAGE PLANS

True copy of plans on file with
 Metropolitan Water Reclamation
 District of Greater Chicago
 Sewerage Permit

00-547

OWNER: INVERLAND RUSSELL CO.
 1979 NORTHUMBERLAND PASS
 PALATINE, ILLINOIS 60074
 847-359-1959

ENGINEER: BRANECKI-VIRILIO & ASSOCIATES
 Consulting Civil Engineers
 79 NORTH BROADWAY
 DES PLAINES, ILLINOIS 60016
 847-298-4525

DATE: MARCH 2, 2000

REVISED: SEPT. 20, 2000

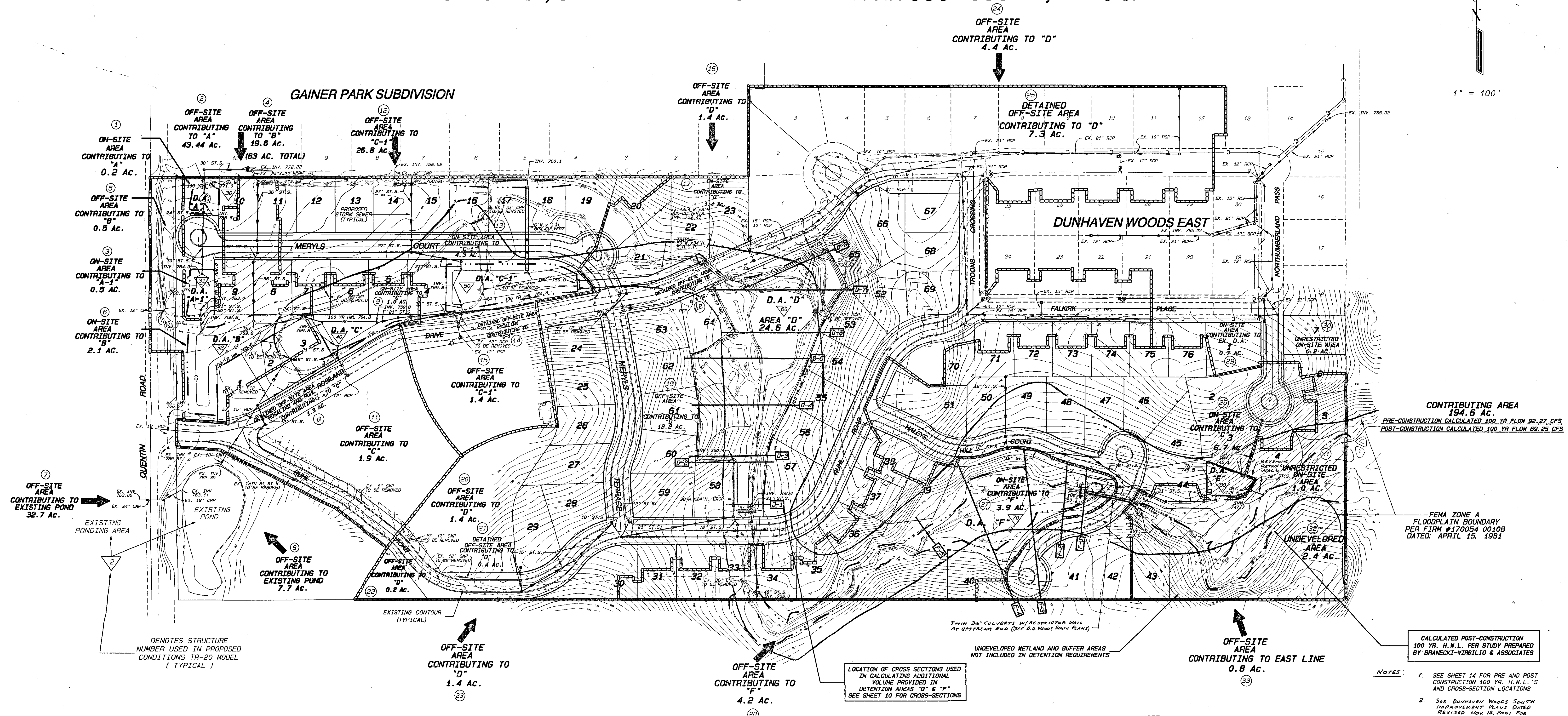
REVISED: NOVEMBER 16, 2001



DUNHAVEN WOODS SOUTH

A SUBDIVISION IN THE SOUTH HALF OF THE NORTHWEST QUARTER OF SECTION 3, TOWNSHIP 42 NORTH, RANGE 10 EAST, OF THE THIRD PRINCIPAL MERIDIAN IN COOK COUNTY, ILLINOIS.

1" = 100'



CONTRIBUTING AREA
194.6 AC.
PRE-CONSTRUCTION CALCULATED 100 YR FLOW 92.27 CFS
POST-CONSTRUCTION CALCULATED 100 YR FLOW 69.25 CFS

FEMA ZONE A
FLOODPLAIN BOUNDARY
PER FIRM #170054 0010B
DATED: APRIL 15, 1991

CALCULATED POST-CONSTRUCTION
100 YR. H.W.L. PER STUDY PREPARED
BY BRANECKI-VIRGILIO & ASSOCIATES

- NOTES:
- SEE SHEET 14 FOR PRE AND POST CONSTRUCTION 100 YR. H.W.L.'S AND CROSS-SECTION LOCATIONS
 - SEE DUNHAVEN WOODS SOUTH IMPROVEMENT PLANS DATED NOV. 18, 2001 FOR RESTRICTOR LOCATIONS AND DETAILS.

NOTE:
UNRESTRICTED AREAS 30 AND 31
TO BE TRADED WITH OFF-SITE AREAS
AND STORED IN D.A. "F"

LOCATION OF CROSS SECTIONS USED
IN CALCULATING ADDITIONAL
VOLUME PROVIDED IN
DETENTION AREAS "D" & "F"
SEE SHEET 10 FOR CROSS-SECTIONS

CONTRIBUTING AREA									
LOCATION	AREA TO BE DETAINED (AC.)	BYPASS AREA (AC.)	UNRESTRICTED AREA (AC.)	UNDEVELOPED AREA (AC.)	CUMULATIVE TOTAL CONTRIBUTING	STORABLE VOLUME (AC.-FT.)	CALCULATED POST-CONSTRUCTION 100-YR FLOW PER TR-20 MODEL		
							Q IN (CFS)	Q OUT (CFS)	
COMP. STAGE "A"	① 0.2	② 43.4			43.6 AC.	0.18	31.12	30.76	
COMP. STAGE "A-1"	③ 0.5				44.1 AC.	0.51	31.01	28.61	
COMP. STAGE "B"	⑥ 2.1	④ 19.6			66.3 AC.	2.45	42.08	32.46	
EX. OFF-SITE POND	⑦ 32.7	⑤ 7.7			40.4 AC.		29.91	5.29	
COMP. "C"	⑧ 1.0	⑩ 1.9			110.9 AC.	0.77	38.91	38.64	
COMP. "C-1"	⑬ 4.3	⑪ 26.8			143.8 AC.	2.12	65.67	65.20	
DET. "D"	⑭ 1.4	⑫ 1.4	⑯ 0.2		175.6 AC.	6.64	89.23	72.01	
DET. "E"	⑰ 6.7	⑬ 1.4	⑱ 1.4		6.7 AC.	0.66	12.80	3.70	
DET. "F"	⑲ 3.9	⑭ 4.2			183.7 AC.	1.13	74.78	74.75	
DUNHAVEN WOODS EAST	⑳ 0.7				0.9 AC.				
EAST PROPERTY LINE		⑳ 0.8	㉑ 1.0	㉒ 2.4	194.6 AC.		79.16	79.16	
TOTAL	44.1	147.8	1.2	2.4		14.46			

DETENTION AREA SUMMARY				
DETENTION AREA	TR-20 STRUCTURE NUMBER	TOTAL AREA CONTRIBUTING (AC)	VOLUME STORED (AC.-FT)	RESTRICTORS (SEE ENGINEERING PLANS FOR DETAILS)
"A"	30	43.6	0.18	17' - 24" ST. S.
"A-1"	31	44.1	0.51	23' - 21" ST. S.
"B"	32	66.3	2.45	5' - 8" ST. S. 2' - 24" ST. S.
"C"	40	110.9	0.77	50" - 21" ST. S.
"C-1"	50	143.8	2.12	16" X 36" OPENING IN OUTFALL STRUCTURE 20" X 0.6" CONCRETE METR
"D"	60	175.6	6.64	21' - 21" ST. S. AND OVERFLOW INLET
"E"	80	6.7	0.65	2 1/4" DIA. HOLE IN PLATE
"F"	70	183.7	1.13	1 1/2" WIDE X 3 1/2" HIGH NOTCH METR AND 34" WIDE OVERFLOW METR

DETENTION AREA SERVICE PLAN

BRANECKI - VIRGILIO & ASSOCIATES
Consulting Civil Engineers
79 NORTH BROADWAY
DES PLAINES, ILLINOIS 60016
847-298-4525

SCALE: 1" = 100'		REVISIONS	
DRAWN BY:	SEPT. 20, 2000		
DATE: MARCH 2, 2000	NOV. 12, 2001		
FILE NUMBER	589-D		
		SHEET	9 OF 14

$$A = 63.0 \text{ AC}$$
$$A = 26.8 A_c$$
$$A = 1.4 A_c$$

$$= 1.15 \text{ Eq. } A_c$$

EMERGENCY ACCESS
16' WIDE GRASS PAVERS

ROAD

QUENTIN

$$A = 32.7 \text{ AC}$$

STRIPING AT ENTRANCE
SHALL PROVIDE FOR
A RIGHT TURN LANE ONTO
NORTHBOUND QUENTIN ROAD IN A
MANNER ACCEPTABLE TO THE
VILLAGE OF PALATINE

$$A = 7.7 \text{ Ag}$$
$$A = 1.4 A_c$$

$$= 0.97 \text{ EO } A_c$$
$$A = 1.22 \text{ A}$$
$$T_c = 16 \text{ min.}$$

EX-INV.
777.0

$A = 0.33$
 $T_c = 15 \text{ mi.}$

10

$$A = 0.50 A_c$$

(W.O.) DENOTES POSSIBLE WALK-OUT BASEMENT

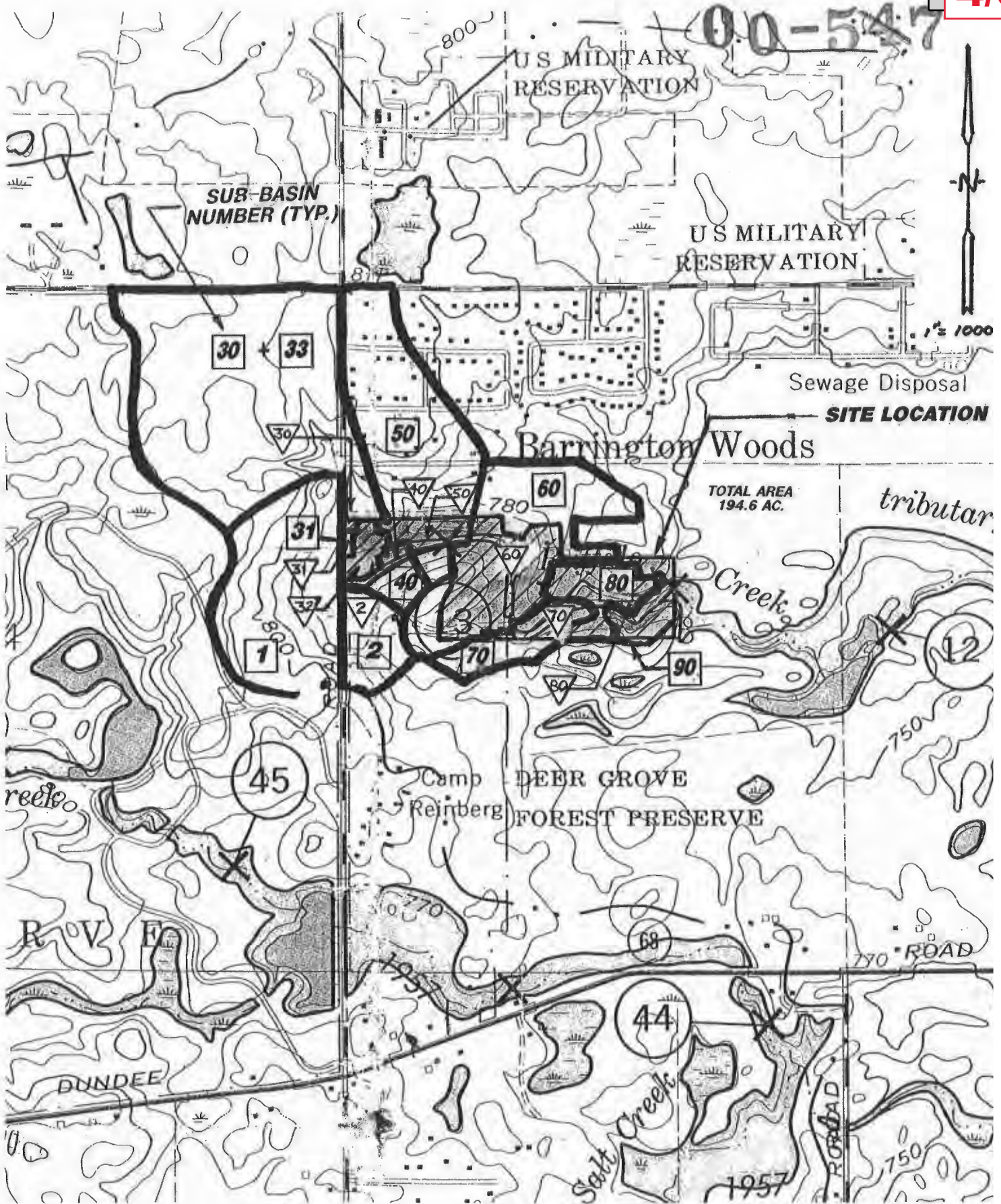
NOTE:
SEE DUNHAVEN WOODS SOUTH IMPROVEMENT
PLANS DATED REVISED NOV. 12, 2001 FOR
RESTRICTOR LOCATIONS AND DETAILS.

WEST SECTION

STORM SEWER DESIGN PLAN

BRANECKI - VIRGILIO & ASSOCIATES
Consulting Civil Engineers
79 NORTH BROADWAY
DES PLAINES, ILLINOIS 60016
947-288-4535

SCALE: 1" = 50'	REVISONS		
DRAWN BY:	NOV. 16, 2001		
DATE: SEPT. 20, 2000			
FILE NUMBER			
589-D			
	SHEET 12 OF 14		



00-547

19.6 Acre Off-Site Tributary Area #1
Part of Sub-Area 33 having a $T_c = 0.55$
Hours & CN = 68

$A = 0.0681 \text{ MI}^2$
 $T_c = 0.89 \text{ HR}$
CN = 68

COMP. STORAGE
AREA "A"

$A = 0.0008 \text{ MI}^2$
 $T_c = 0.05 \text{ HR}$
CN = 68

30

30

32

31

31

COMP. STORAGE
AREA "A-1"

33

$A = 0.0346 \text{ MI}^2$
 $T_c = 0.55 \text{ HR}$
CN = 68

34

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

32

1

$A = 0.0511 \text{ MI}^2$
 $T_c = 0.52 \text{ HR}$
CN = 65

20

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

$A = 0.0120 \text{ MI}^2$
 $T_c = 0.39 \text{ HR}$
CN = 69

EXISTING D.A.
SOUTH WEST OF SITE

$A = 0.0065 \text{ MI}^2$
 $T_c = 0.56 \text{ HR}$
CN = 76

COMP. STORAGE
AREA "C"

$A = 0.0515 \text{ MI}^2$
 $T_c = 0.98 \text{ HR}$
CN = 81

COMP. STORAGE
AREA "C-1"

$A = 0.0497 \text{ MI}^2$
 $T_c = 0.60 \text{ HR}$
CN = 81

DETENTION
AREA "D"

$A = 0.0126 \text{ MI}^2$
 $T_c = 0.50 \text{ HR}$
CN = 68

DETENTION
AREA "F"

DETENTION
AREA "E"

$A = 0.0105 \text{ MI}^2$
 $T_c = 0.42$
CN = 80

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

$A = 0.0066 \text{ MI}^2$
 $T_c = 0.45 \text{ HR}$
CN = 55

26.8 Acre Off-Site Tributary Area
#2 Part of Sub-Area 50 having a T_c
= 0.98 Hours & CN = 81

LEGEND

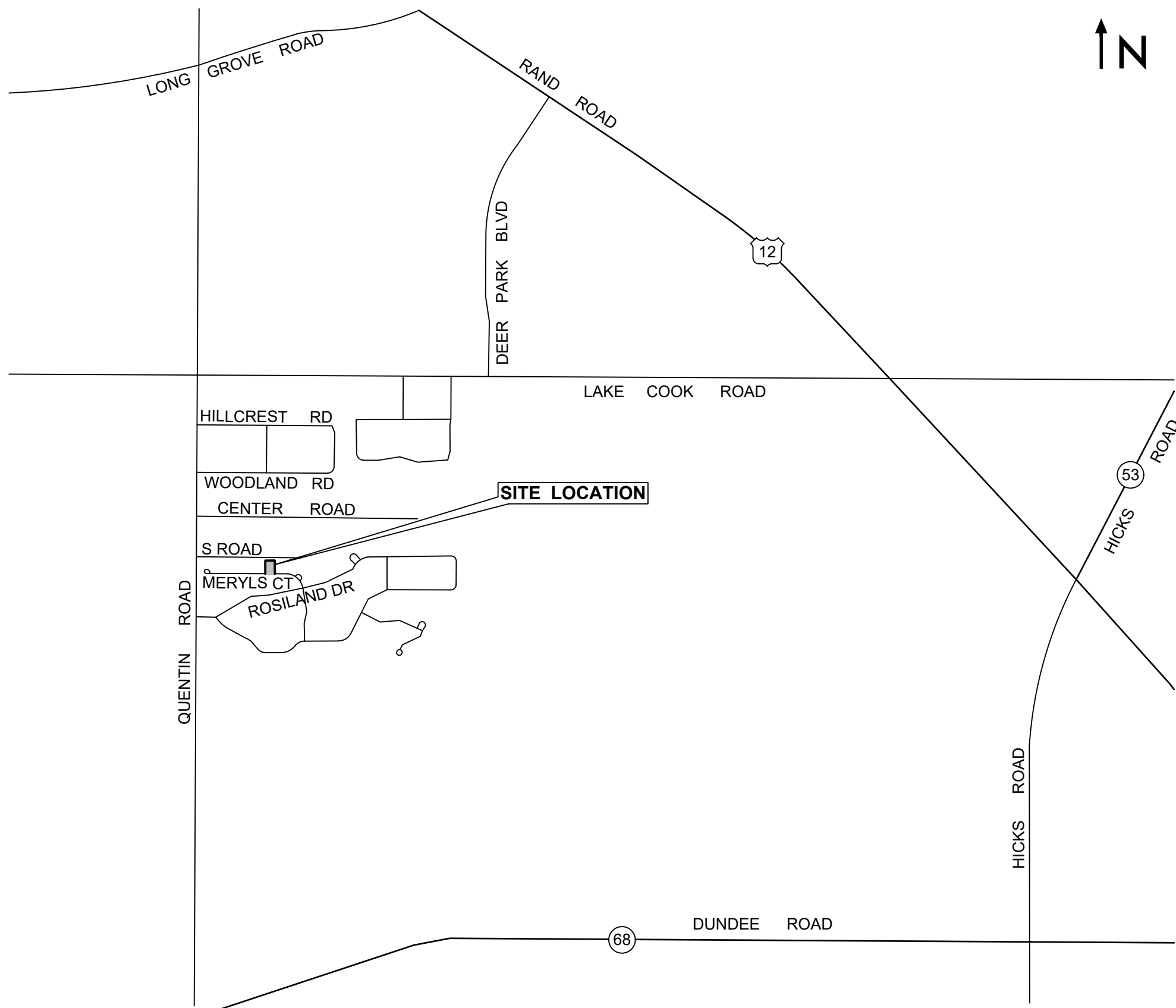
- SUB-BASIN RUNOFF
- ▽ STRUCTURE
- ADD HYDROGRAPH
- 1550' REACH LENGTH

NOTE:
ITEMS IN RED ARE COMMENTS
FROM HAEGER ENGINEERING
FOR LOT 16 REAR YARD
DRAINAGE ANALYSIS (8/9/21)

TR-20 PROPOSED CONDITIONS SCHEMATIC

LOT 16 DUNHAVEN WOODS SOUTH REAR YARD DRAINAGE EXHIBITS 698 W. MERYLS COURT

SECTION 3 TOWNSHIP 42 NORTH RANGE 10 EAST
PALATINE, ILLINOIS
COOK COUNTY

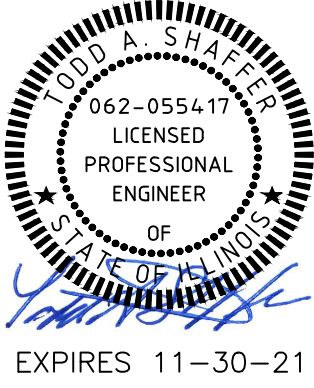


INDEX TO SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2	LOT MODIFICATION PLAN & EASEMENT VACATION AREA
3	CROSS SECTIONS



Know what's **below.**
Call before you dig.

Note:
Call 811 at least 48 hours, excluding weekends and holidays, before you dig.



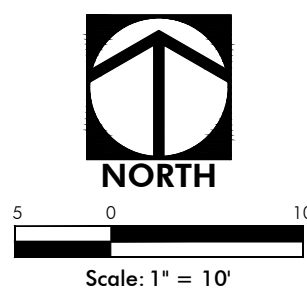
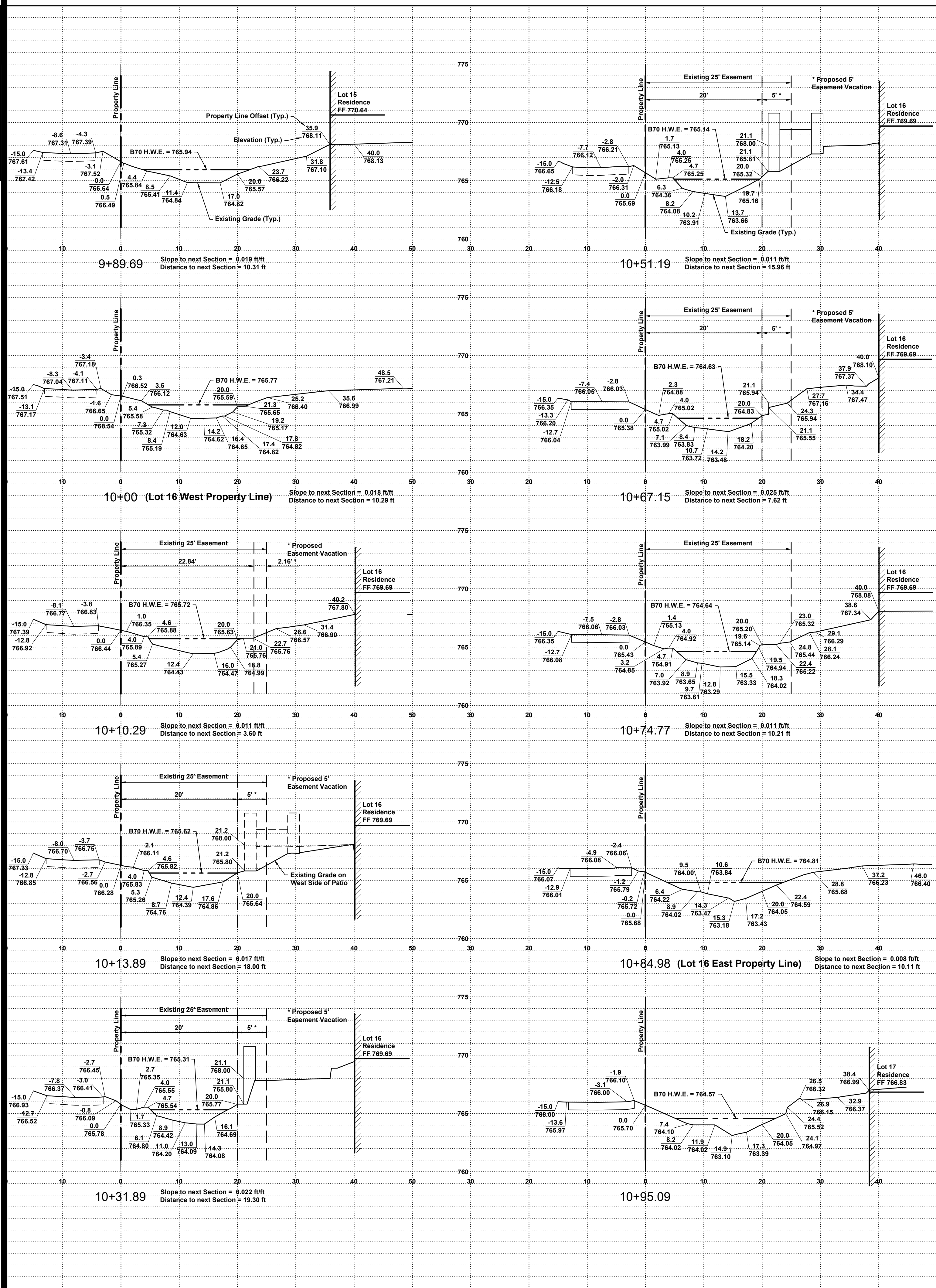
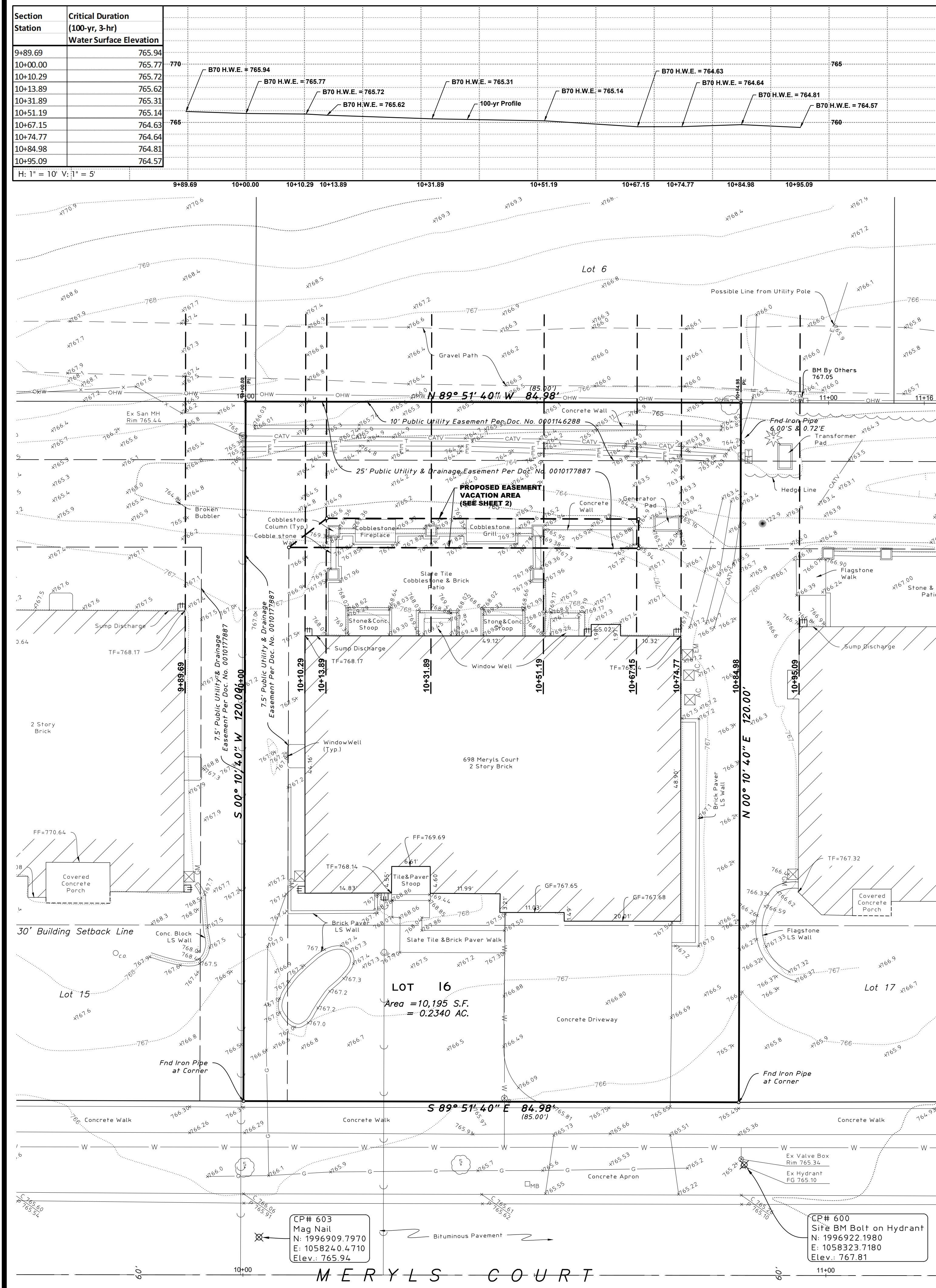
**HAEGER ENGINEERING**
consulting engineers • land surveyors
100 East State Parkway, Schaumburg, IL 60173 • Tel: 847.394.6600 Fax: 847.394.6608
Illinois Professional Design Firm License No. 184-003132
www.haegerengineering.com

TITLE SHEET
**LOT 16 IN DUNHAVEN WOODS SOUTH
REAR YARD DRAINAGE EXHIBITS**
698 W. MERYLS COURT, PALATINE, IL

Project Manager: T A S
Engineer: C J B
Date: 08/09/2021
Project No. 21-050
Sheet 1 / 3



Project Manager: _____
Engineer: _____
Date: 08/09/2018
Project No. 21
Sheet 2



Consider an Ordinance Decreasing the Number of Class D Liquor Licenses by One for Tellios Coffee, Inc., 790 W. Northwest Highway

BACKGROUND:

The special use for Tellios Coffee, Inc. is set to expire on September 11, 2024. Planning and Zoning has indicated that the owner, George Kalkounos, is no longer moving forward with the cafe. Therefore, it is appropriate to reduce the number of Class D Liquor Licenses from 37 to 36.

KEY ISSUES:

It is appropriate to remove their Class D liquor license from the Code. An ordinance has been prepared reducing the number of Class D liquor licenses by one.

ALTERNATIVES:

1. Approve the ordinance.
2. Do not approve the ordinance.

RECOMMENDATION:

Staff recommends approval of the ordinance.

ACTION REQUIRED:

Motion to approve the ordinance decreasing the number of Class D liquor licenses by one.

ATTACHMENTS:

- ORD Decrease Class D Liq Tellios Coffee

ORDINANCE NO. _____

**CONSIDER AN ORDINANCE DECREASING THE NUMBER OF
CLASS D LIQUOR LICENSES PURSUANT TO CHAPTER 3, SECTION 3-37
OF THE VILLAGE OF PALATINE CODE OF ORDINANCES FOR
TELLIOS COFFEE, INC. D/B/A TELLIOS COFFEE LOCATED AT
790 W. NORTHWEST HIGHWAY**

BE IT ORDAINED, by the Mayor and Village Council of the Village of Palatine,
Cook County, Illinois, acting in the exercise of their home rule power:

SECTION 1: That the number of Class D (Restaurant) Liquor Licenses shall
decrease by one from thirty-seven (37) to thirty-six (36), for Tellios Coffee, 790 W.
Northwest Highway, Palatine, IL

SECTION 2: That all ordinances or parts of ordinances in conflict herewith
are hereby repealed.

SECTION 3: That this ordinance shall be in full force and effect from and
after its passage and approval as provided by law.

PASSED this _____ day of _____, 2024

AYES: _____ **NAYS:** _____ **ABSENT:** _____ **PASS:** _____

APPROVED by me this _____ day of _____, 2024

Mayor of the Village of Palatine

ATTESTED and FILED in the office of the Village Clerk this

_____ day of _____, 2024

Village Clerk

Attachment: ORD Decrease Class D Liq Tellios Coffee (Decrease Class D Liquor - Tellios Coffee, Inc)

Consider a Resolution Recommending Halloween Trick or Treat Hours for October 31, 2024

BACKGROUND:

Each year, the Palatine Police Department recommends hours for Trick or Treating on Halloween, a time when ghosts and goblins traditionally go door to door for treats. This year, Halloween falls on a Thursday and the Police Department is recommending that the festivities occur between 3 PM and 7 PM. When approved, the Resolution is distributed to area schools for their students' guidelines.

KEY ISSUES:

The Trick or Treat hours of 3 PM to 7 PM appear to be appropriate. This year's proposed hours are consistent with neighboring communities' trick or treating times and with past year's hours.

The Palatine Police Department strongly suggests that parents accompany their children on their rounds and, if possible, that neighborhood parties be attended. They also remind parents to instruct their children not to eat any of their treats until parents have inspected them.

ALTERNATIVES:

1. Approve the Resolution.
2. Approve different hours.

RECOMMENDATION:

At the discretion of the Village Council.

ATTACHMENTS:

- Halloween -Trick or Treat Hours

RESOLUTION NO. _____

ESTABLISHING HALLOWEEN TRICK OR TREAT HOURS FOR OCTOBER 31, 2024

WHEREAS, certain ghosts and goblins have petitioned the Village of Palatine for numerous block parties within the Village; and

WHEREAS, certain ghosts and goblins propose door-to-door spine-tingling events; and

WHEREAS, the prolongation of such events may unduly stress the residents of the Village of Palatine.

NOW, THEREFORE, BE IT RESOLVED by the Mayor and Village Council of the Village of Palatine, that all ghosts and goblins should display compassion by limiting their eerie appearances to the hours from 3:00 P.M. to 7:00 P.M. on Halloween Day, Thursday, October 31, 2024.

DATED: September 9, 2024

Mayor of the Village of Palatine

ATTEST:

Village Clerk

Attachment: Halloween - Trick or Treat Hours (Halloween Trick or Treating Hours)

Consider a Motion to Authorize the Village Manager to Purchase 2025 Light-Duty Fleet Consistent with the Capital Improvement Plan

BACKGROUND:

The 2025 Capital Vehicle Replacement Budget includes \$392,000 for the replacement of Police vehicles. The purchases include 1 truck enforcement vehicle, 1 traffic enforcement vehicle, 1 command vehicle and 3 patrol vehicles.

Order bank windows through purchasing cooperatives are opening and closing in less than one month and the ability to even order units in the near term has been questionable. Pre-purchasing vehicles was authorized in 2022 and 2023 to reduce the risk of an inability to secure replacement vehicles crucial for the Police operation.

Greater flexibility on purchasing methods is suggested to address factory capacity issues, short openings of order banks, and long lead times which could result in a threat to the public health, safety or welfare of the general public. It is recommended the Village Manager be authorized to secure the replacement of the specific units referenced for the 2025 budget plan ahead of schedule.

KEY ISSUES:

- The units planned for 2025, which would be accelerated for 2024, include six police vehicles as order banks and cooperative purchase contracts are available to secure replacement units now and will close later this month.
- Cooperative contracts previously bid will be spot-checked to confirm the best available price can be achieved. If a more favorable offer can be secured than a previously competitively priced cooperative contract, this will be accepted. In any case, these units will be part of factory orders as units are not available from dealer inventory.
- The truck enforcement unit is proposing to replace the existing F250 with a F350 to better address cargo weight.
- The traffic unit is proposed to replace an existing Charger with a Dodge Durango as the Charger sedan is no longer produced.
- The command vehicle is proposed to replace the existing Expedition with an F150 with cab to realize cost efficiency while still meeting the mission of the vehicle.
- The patrol units are replacing in-kind hybrid Interceptors. A life cycle evaluation confirmed the increased initial cost of hybrids could be recuperated during the life of the unit. This is primarily due to the ability to transfer prisoner partitions in the existing units. All future replacement patrol units will be similarly evaluated prior to selecting recommended replacements.

ALTERNATIVES:

1. Authorize the Village Manager to purchase up to \$392,000 for accelerating the purchase of scheduled replacements for the Police fleet.
2. Refer back to Staff with comments.

RECOMMENDATION:

It is recommended that the Village Manager be authorized to purchase up to \$392,000

for accelerating the purchase of scheduled replacements for the Police fleet.

BUDGET IMPACT:

The \$392,000 would be from a budget adjustment advancing planned expenditures for 2025 into 2024. A corresponding reduction in the proposed 2025 budget would occur.

ACTION REQUIRED:

Motion to authorize the Village Manager to purchase up to \$392,000 for accelerating the purchase of scheduled replacements for the Police fleet.

Consider a Motion to Accept the Release of a Utility Easement at 698 West Meryls Court

BACKGROUND:

In the fall of 2020, the property owner of 698 West Meryls Court applied for a building permit to construct a fence in the rear yard of the property. As part of the inspection process, it was discovered that the property owner had also constructed a patio. The patio was encroaching into the drainage easement in the rear yard of the property and a citation was issued for the unpermitted work in the easement.

KEY ISSUES:

- The case was brought to adjudication.
- As a result, the property owner agreed to hire an engineering firm to develop a grading plan that would keep the flow and volume capacity of the drainage easement at its as-designed state.
- The property owner had a plat of easement release prepared to show that the portion of the easement that the patio currently occupies has been released, vacated, and abrogated.
- All additional utility companies have released, vacated, and abrogated the area.

ALTERNATIVES:

1. Accept the plat of easement release.
2. Do not accept the plat of easement release.

RECOMMENDATION:

Staff recommends acceptance of the plat of easement release.

ACTION REQUIRED:

Motion to accept the plat of easement release at 698 West Meryls Court.

Consider an Ordinance Decreasing the Number of Class D Liquor Licenses by One for Tellios Coffee, Inc., 790 W. Northwest Highway

BACKGROUND:

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KEY ISSUES:

It is appropriate to remove their Class D liquor license from the Code. An ordinance has been prepared reducing the number of Class D liquor licenses by one.

ALTERNATIVES:

1. Approve the ordinance.
2. Do not approve the ordinance.

RECOMMENDATION:

Staff recommends approval of the ordinance.

ACTION REQUIRED:

Motion to approve the ordinance decreasing the number of Class D liquor licenses by one.

Consider a Resolution Recommending Halloween Trick or Treat Hours for October 31, 2024

BACKGROUND:

Each year, the Palatine Police Department recommends hours for Trick or Treating on Halloween, a time when ghosts and goblins traditionally go door to door for treats. This year, Halloween falls on a Thursday and the Police Department is recommending that the festivities occur between 3 PM and 7 PM. When approved, the Resolution is distributed to area schools for their students' guidelines.

KEY ISSUES:

The Trick or Treat hours of 3 PM to 7 PM appear to be appropriate. This year's proposed hours are consistent with neighboring communities' trick or treating times and with past year's hours.

The Palatine Police Department strongly suggests that parents accompany their children on their rounds and, if possible, that neighborhood parties be attended. They also remind parents to instruct their children not to eat any of their treats until parents have inspected them.

ALTERNATIVES:

1. Approve the Resolution.
2. Approve different hours.

RECOMMENDATION:

At the discretion of the Village Council.