

**Mount Joy Borough
Council Meeting Agenda
7:00 PM, Monday, August 2, 2021**

1. Call to Order
2. Roll Call—Councilors, Castaldi, Deering, Eichler, Fahndrich, Ginder, Reese, Ruschke, Youngerman, President Hall and Mayor Bradley
3. Invocation
4. Pledge of Allegiance
5. Announcement of Executive Sessions
6. Consider a motion to approve the August 2, 2021, Borough Council Meeting Agenda.
7. Public Input Period - Comments of Any Borough Resident or Property Owner. Time limit of three minutes per individual.
8. Reports
 - a. Mayor
 - b. Police Chief
 - c. Fire Department Mount Joy
 - d. SVEMS
 - e. EMA
 - f. Main Street Mount Joy
 - g. Library
 - h. Code Officer
 - i. Stormwater Officer
 - j. Public Works Department
 - k. Borough Authority Manager
 - l. Borough Manager
9. Approval of Minutes of the Regular Borough Council Meeting held on July 12, 2021.
10. Administration and Finance Committee
 - a. Consider a motion to approve the purchase and installation of video conferencing equipment as quoted by EdgeUp in the amount of \$10,238 with an additional cost of installing an electrical outlet and network line not to exceed \$500.00 with a total cost not to exceed \$10,738. Said funds being drawn from Capital Expenses related to Cares Act Funding.
 - b. Consider a motion to approve the Milanof-Schonck Library Auction Sponsorship request with the recommendation of a sponsorship.
 - c. Consider a motion to approve the future issuance of Letters of No Trespass as determine by the Chief of Police and Borough Manager with just cause and to authorize the Borough Manager to sign said letters on Council's behalf.

If you are a person requiring accommodations to participate, please contact
Borough staff to discuss how we may best accommodate your needs.

21 East Main Street, Mount Joy, PA 17552 • (717) 653-2300
Fax (717) 653-6680 • Borough@mountjoypa.org • www.mountjoyborough.com

- d. Consider a motion to adopt Ordinance 8-21 to amend Chapter 270, Zoning to regulate personal expression signs and clarify regulations concerning special exceptions.
- e. Lancaster County Vo-Tech School Authority, 1730 Hans Herr Drive, Willow Street, PA 17584 is requesting a Subdivision and Land Development Plan Deferral of Chapter 240, to Mount Joy Township to subdivide and construct 2 single-family dwellings located at the existing LCCTC- Mount Joy Campus in the Township and Borough and requesting approval of a Stormwater Management Plan to construct an infiltration basin south of proposed Lot 14 as shown on the LCCTC Subdivision and Land Development Plan.
 - i. Consider a motion to approve a Subdivision and Land Development Plan Deferral of Chapter 240 to Mount Joy Township to subdivide and construct 2 single-family dwellings,
 - ii. Consider a motion to approve a Stormwater Management Plan to construct an infiltration basin south of proposed Lot 14 as shown on the LCCTC Subdivision and Land Development Plan- Mount Joy Campus, on property owned by LCCTC (Rotary Park) next to the sub-leased area to the Borough to manage stormwater from 2 single-family lots, conditioned upon the Borough Solicitor and Borough Engineer comments being addressed, and a Stormwater Management Agreement being recorded.
- f. Discussion on Electrical Supply Contract which is set to expire on 11/30/2021.
- g. Discussion of use of funds related to the American Rescue Plan Act Grant.

11. Public Safety Committee

- a. Consider a motion to authorize the Borough Solicitor to draft an Ordinance amending Chapter 255, Vehicles and Traffic of the Boroughs Code of ordinances with the following revisions:
 - i. No parking on the west side of Springville Road from Main Street to Cedar Street.
 - ii. Deleting the 30-minute parking restriction on East Main Street, south side, at a point 54 feet east of High Street and a point 107 feet east thereof.
 - iii. Making Williams Alley a One-Way Street, traveling north from 190 feet north of Henry Street to West Main Street.
- b. Consider a motion to approve closing of Main Street from New Haven Street to the intersection with Marietta Ave and Delta Street from Henry Alley to Main Street on Friday, October 22, 2021, from 4:30 pm to 8:30 pm for Main Street Mount Joy event "Downtown Trick or Treat".
- c. Consider a motion to approve the closing of Main Street from Market Street to Barbara Street, Delta Street from Henry Alley to Main Street and Marietta Avenue from Main Street to Sassafras Alley on Saturday, December 4, 2021, from 1:00 pm to 9:00 pm for Main Street Mount Joy event "Winterfest."

- d. Consider a motion to direct the Borough Manager to negotiate the Ground Ambulance Service Provider agreement directly with Penn State Health Life Lion LLC based upon the concerns as presented by Council.

12. Public Works Committee

- a. Consider a motion to authorize the Borough Solicitor to draft an Ordinance amending Chapter 182, Parks and Recreation Areas of the Borough Code of Ordinances revising the park rules as presented.
- b. Consider a motion to pass Resolution 9-21 authorizing Council President to sign the 902 Recycling Grant Fund Application on its behalf.
- c. Consider a motion to pass Resolution 10-21 authorizing the sale of various equipment using the Municibid online municipal Auction Service.

13. Public Input Period - Comments of Any Borough Resident or Property Owner. Time limit of three minutes per individual.

14. Any other matter proper to come before Council.

15. Authorization to pay bills.

16. Meetings and dates of importance, see the blue calendar.

17. Executive Session – to discuss personnel matter.

18. Adjourn

The next regular Borough Council meeting is scheduled for 7:00 PM, on Monday, September 13, 2021

Detective Summary of Cases

CASE DESCRIPTION	Previous Month 2021	NEW CASES June 2021	Monthly CLOSED CASES	TOTAL
Accident, Hit & Run	0			0
Arson	2			2
Assault	2			2
Assist Other Agency	0			0
Burglaries	36		(5)	36
Criminal Mischief / Vandalism	5			5
Child & Family Offense (Abuse)	1	2		3
Death Investigation	3	1		4
Drug Offense	0			0
Harassment by Communication	1			1
Fraud (Forgery, Id Theft, etc.)	14		1	13
Receiving Stolen Property	1			1
Robbery	8			8
Suspicious Activity	0			0
Theft	40	1	(6)	41
Trespass	0			0
Miscellaneous	3			3
Threat to Official	1			1
Sex Offense				
Adult	0			0
Juvenile	0	1		1
TOTAL OPEN CASES	117	5	1	121
New Cases Assigned	5	MTH		
Closed Cases*	26	YTD		
Warrants Served	1	MTH		
Surveillance Hours Conducted**	0	MTH		

*cold cases are marked in ()



MOUNT JOY POLICE DEPARTMENT

Calls for Service

June 2021

Code	Call for Service	Totals
0510	BURGLARY	1
0614	THEFT FROM VEHICLE (INSIDE)	1
0619	THEFT ALL OTHERS	4
1130	FRAUD ALL OTHERS	6
1440	CRIMINAL MISCHIEF ALL	3
1510	WEAPONS	1
1711	SEX OFFENSE ALL OTHERS	1
1720	INDECENT EXPOSURE	1
1810	DRUG POSSESSION OFFENSE	1
1845	DRUG PARAPHERNALIA	1
1850	OVERDOSE	1
2020	FAMILY OFF-CHILD ABUSE	4
2040	FAMILY OFFENSES - DOMESTIC	12
2111	DUI-ALCOHOL/UNDER INFL	5
2310	PUBLIC INTOXICATION / DRUNKENESS	5
2410	FIGHT	1
2450	NOISE COMPLAINT	7
2485	ALARM ALL OTHERS	1
2619	PFA/ICC VIOLATION	1
2640	MUN ORD VIOLATIONS	2
2654	DISTURBANCE	9



MOUNT JOY POLICE DEPARTMENT

Calls for Service

June 2021

Code	Call for Service	Totals
2656	THREATS	2
2657	HARASSMENT	6
2660	TRESPASSING	1
2665	FIREWORKS	3
4014	OPEN DOORS/WINDOWS GENERAL POLICE	1
4018	STREET LIGHTS-OUT/REPAIRS	7
4021	SUSPICIOUS ACTIVITY	17
4023	SHOTS FIRED - REPORTS	1
4026	DOWN-WIRES / POLES /TREES / LIMBS	1
4028	OTHER NON-CRIMINAL INV GENERAL POLICE	5
4052	ALARM BURGLARY OR HOLDUP NON RESIDENCE	16
4101	FIRES (ALL WORKING FIRES)	1
4504	ATTEMPTED SUICIDES	1
4510	UNATTENDED DEATHS	1
5004	FOUND ARTICLES	7
5008	LOST ARTICLES	4
5504	ANIMAL BITES	1
5510	ANIMAL COMPLAINTS ALL	8
6008	REPORTABLE MV CRASH NO INJURIES	7
6015	REPORTABLE MV CRASH HIT & RUN	5
6016	NON REPORTABLE MV CRASH	6
6303	TRAFFIC OFFENSE ALL OTHER	10



MOUNT JOY POLICE DEPARTMENT

Calls for Service

June 2021

Code	Call for Service	Totals
6305	SELECTIVE ENFORCEMENT TRAFFIC	5
6308	TRAFFIC MV COMPLAINT	3
6310	TRAFFIC ENFORCE / STOP	64
6335	TRAFFIC HAZARD	6
6336	DISABLED MV	1
6511	PARKING VIOLATION COMPLAINT	17
6602	ABANDONED IMPOUND/TOWAWAY	3
6615	TRAFFIC COUNTER DEPLOYMENT / RADAR SIGN	1
7002	BUILDING CHECK	42
7008	MEDICAL ASSISTANCE	62
7010	NOTIFICATIONS	1
7014	OTH PUB SERV/WELFARE CHK	17
7015	ASSIST CITIZEN	20
7025	EMOTIONALLY DISTURBED PERSON (EDP)	7
7502	ASSISTING-FIRE DEPT	5
7504	ASSISTING-OTHER POLICE DP	21
7505	ASSIST OTHER PD ALCO-TEST	1
7506	ASSISTING-OTHER AGENCIES	6
7522	ASSISTING OTHER OFFICER	1
8010	WARRANTS-LOCAL	7
8110	WARRANTS-OTHER AGENCIES	1
9002	ADMINISTRATIVE DUTIES	3



MOUNT JOY POLICE DEPARTMENT

Calls for Service

June 2021

Code	Call for Service	Totals
9003	COMMUNITY POLICING	1
9008	COURT	31
9016	LOCAL ADMIN USE	4
9020	POLICE INFORMATION	43
9021	TRAINING	3
9025	FIELD CONTACT INFORMATION	9
9028	FINGERPRINT	3
9029	CIVIL MATTER	1
9030	SPECIAL DETAIL ASSIGNMENT	2
9034	REPOSSESSION	1
9068	COMMUNITY RELATIONS ACTIVITY	2
911	911 HANG UP / CHK WELFARE	1
9112	FOOT PATROL	16
9115	FOLLOW UP	129
9137	EVIDENCE DUTIES	3
9192	VEHICLE MAINTENANCE	8
9988	RETURN TO STATION	1
9989	CALL BY PHONE	7
Grand Total		738

MOUNT JOY POLICE DEPARTMENT

21 E MAIN ST, MOUNT JOY,
PA 17552

Phone: 717-653-1650

Fax: 717-653-0062

Citation Output By Charge

Starting Issue Date 6/1/2021

to Ending Issue Date 6/30/2021

Charge	Total
1301 - 1301 A - Dr Unregist Veh	1
1372 - 1372 3 - Display Plate Card In Impropr Veh	1
1543 - 1543 A - Driv While Oper Priv Susp Or Revoked	3
1543 - 1543 B1i - Drg Lic Sus/Rev Purs to Sec 3802/1547B1	1
1786 - 1786 F - Oper Veh W/O Req'd Financ Resp	1
3111 - 3111 A - Obedience to Traffic-Control Devices	3
3323 - 3323 B - Duties At Stop Sign	2
3334 - 3334 A - Turning Movements And Required Signals	1
3354 - 3354 A - Park Impropr Two Way Highways	1
3361 - 3361 - Driving at Safe Speed	1
3362 - -	4
3714 - 3714 A - Careless Driving	1
3745 - 3745 A - Acci Dam To Unattended Veh Or Propert	1
4703 - 4703 A - Operat Veh W/O Valid Inspect	2
4703 - 4703 H1 - Op. Vehicle W/O Cert. of Inspection	1
4706 - 4706 C5 - Evidence Of Emission Inspection	1
4903 - 4903 A - Dr W/Unsecured Load	1
Total:	26

MOUNT JOY POLICE DEPARTMENT

21 E MAIN ST, MOUNT JOY,
PA 17552

Phone: 717-653-1650

Fax: 717-653-0062

Criminal Charges by Charge Type

Starting Issue Date 6/1/2021

to Ending Issue Date 6/30/2021

Charge Type: ARREST

Charge	Total
1501 A - DRIVING W/O A LICENSE	1
1501 A - PA TITLE 75, SECTION VC-1501 (A): DRIVERS REQUIRED TO BE LICENSED. 2ND OFFENSE.	1
2701 A1 - PA TITLE 18, SECTION CS-2701 (A)(1): SIMPLE ASSAULT.	1
2702 A2 - AGGRAVATED ASSAULT	1
2709.1 A1 - PA TITLE 18, SECTION CS-2709.1 (A)(1): STALKING.	1
2718 A - PA TITLE 18, SECTION CS-2718 (A)(1): STRANGULATION.	1
3127 A - INDECENT EXPOSURE	1
3304 A5* - CRIMINAL MISCHIEF - DAMAGE PROPERTY - COURT CASE	1
3361 - DRIVING @ (UN)SAF SPEED	1
3718 A - MINOR PROHIBITED/OPERATING W/ALCOHOL	1
3743 A - ACCIDENT INVOLV DAMAGE ATTENDED VEHICLE/PROP	2
3744 A - FAIL STOP AND GIVE INFOR RENDER AID	1
3802 A1 - DRIVING UNDER THE INFLUENCE -GENERAL IMPAIRMENT	4
3802 A1 - PA TITLE 75, SECTION VC-3802 (A)(1): DRIVING UNDER THE INFLUENCE OF ALCOHOL OR CONTROLLED SUBSTANCE. GENERAL IMPAIRMENT.	1
3802 C - DRIVING UNDER THE INFLUENCE-ALC - .16% OR HIGHER	2
3802 C - PA TITLE 75, SECTION VC-3802 (C): DRIVING UNDER THE INFLUENCE OF ALCOHOL OR CONTROLLED SUBSTANCE. HIGHEST RATE OF ALCOHOL.	1
3809 A - PA TITLE 75, SECTION VC-3809 (A): RESTRICTION ON ALCOHOLIC BEVERAGES.	1
6501 A1 - SCATTER RUBBISH UPON LAND/STREAM ETC	1
780-113 A16 - INTENTIONAL POSSESSION OF CONTROLLED SUBSTANCE BY	1
780-113 A32 - USE / POSSESSION OF DRUG PARAPHERNALIA	2
Total:	26

Charge Type: COMPLAINT

Charge	Total
3929 A1 - RETAIL THEFT	1
5505 - PUBLIC DRUNKENNESS AND SIMILAR MISCONDUCT	4
6308 A - PURCH ETC ALCOH BEV BY A MINOR	1
Total:	6

**MOUNT JOY BOROUGH POLICE DEPARTMENT
MONIES COLLECTED JUNE 2021**

	331.120	Borough Tickets (Other)	\$80.00
	321.310	Bicycle Registration	\$0.00
	380.010	Alarm Fees	\$500.00
	321.600	Mercantile Licenses	\$0.00
	362.100	Police Reports	\$120.00
331.11	331.120	Clerk of Court Disbursement	\$1,720.99
331.11	331.120	Magisterial Court Disbursement	\$1,502.31
	331.300	SERT Reimbursement	\$156.35
	331.300	AD Roving	\$267.60
	330.300	Wire Transfer (PSP fines)	\$1,233.91

TOTAL May 2021	\$5,581.16
<i>Total May 2020</i>	<i>\$5,581.16</i>

Submitted by: _____ D. Ellis

Approved by: _____ 

New Detective Cases

	2013	2014	2015	2016	2017	2018	2019	2020	2021
January	11	0	6	6	7	5	3	4	2
February	4	8	12	6	9	5	3	7	2
March	5	6	11	6	8	7	7	6	2
April	8	4	5	8	6	6	4	6	3
May	7	1	13	2	3	14	5	7	2
June	8	3	10	2	7	3	10	5	5
July	10	5	8	3	20	12	4	9	
August	8	4	10	12	7	3	3	6	
September	10	1	6	4	6	4	3	7	
October	9	11	6	13	7	6	6	9	
November	9	7	4	10	7	4	10	1	
December	4	12	6	10	9	4	3	5	

Police Activity Statistics

2021

	Citation Charges	Criminal Charges	Deposits	Incidents	Total Inc YTD	Total Inc Prev YTD
Jan	60	26	\$2,716.89	589	589	574
Feb	86	34	\$3,959.23	1118	1,118	1133
Mar	55	7	\$6,065.89	674	1,792	1619
Apr	85	24	\$5,491.40	763	2,555	1976
May	38	22	\$4,179.51	741	3,296	2529
June	26	32	\$5,581.16	738	4034	3229
July						3897
Aug						4615
Sept						5282
Oct						5806
Nov						6303
Dec						6802
TOTAL						6802

FDMJ Monthly Incident Report Summary

June 2021

Responded to 51 alarms for the month of June 2021 – 266 total alarms for year as of 6/30/21

Time in service for month: 43 hours and 21 minutes

Average manpower per incident: 9 members per call for month - (6a-4p 20 calls/5 members per call)

Total Man-hours: 295 hours & 40 minutes

Calls by Municipality First Due: 35 first due alarms – 16 mutual aid alarms

- Mount Joy Borough - 17
- Rapho Township - 13
- Mount Joy Township - 1
- East Donegal Township – 4

Apparatus used

- Engine 75-1 -27
- Engine 75-2 - 12
- Truck 75 - 11
- Squad 75-1 - 5
- Traffic 75 - 4
- Duty Chief Vehicle - 23
- Duty Officer Vehicle – 9

Property pre-incident value: \$ 0.00

Property fire loss: \$0.00

Property post incident saved: \$0.00

2021 FDMJ responds to a call every 16 hours & 22 min

Total Training hours of 30 members trained for 158 hours & 30 min

Fire Prevention Details – no fire prevention details for the month

Community Service Details for the month – 2 fire police events, 2 public service events and 1 prearranged standby.

Notable First Due Calls:

- none

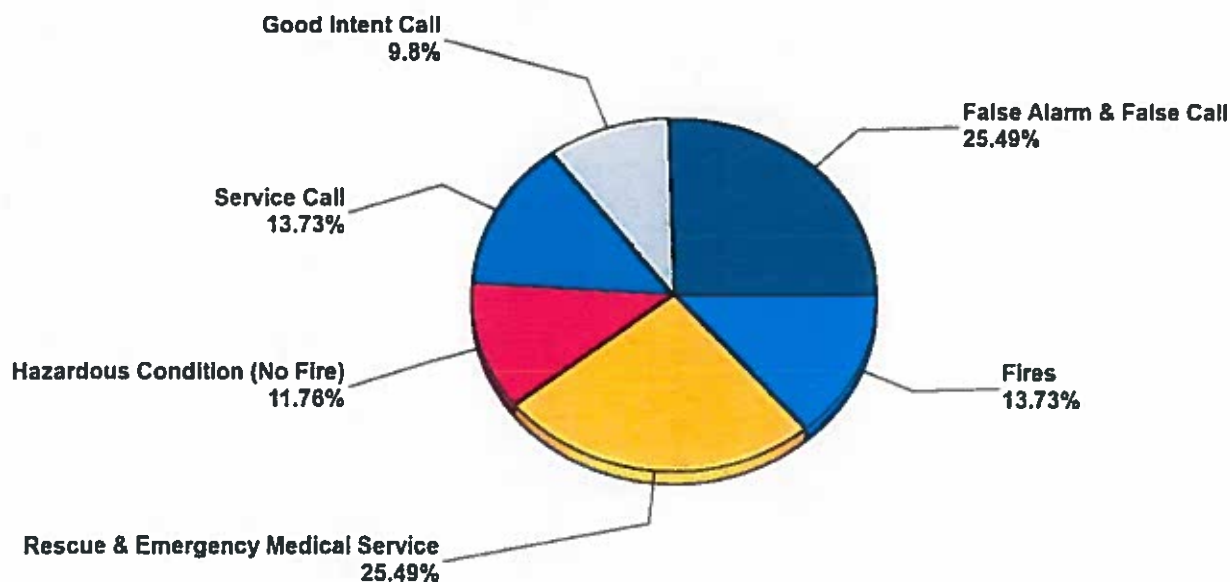
Fire Department Mount Joy

Mount Joy, PA

This report was generated on 7/3/2021 11:35:33 AM

Breakdown by Major Incident Types for Date Range

Zone(s): All Zones | Start Date: 06/01/2021 | End Date: 06/30/2021



MAJOR INCIDENT TYPE	# INCIDENTS	% of TOTAL
Fires	7	13.73%
Rescue & Emergency Medical Service	13	25.49%
Hazardous Condition (No Fire)	6	11.76%
Service Call	7	13.73%
Good Intent Call	5	9.8%
False Alarm & False Call	13	25.49%
TOTAL	51	100%

Only REVIEWED and/or LOCKED IMPORTED incidents are included. Summary results for a major incident type are not displayed if the count is zero.

Detailed Breakdown by Incident Type

INCIDENT TYPE	# INCIDENTS	% of TOTAL
111 - Building fire	6	11.76%
160 - Special outside fire, other	1	1.96%
311 - Medical assist, assist EMS crew	3	5.88%
322 - Motor vehicle accident with injuries	7	13.73%
324 - Motor vehicle accident with no injuries.	2	3.92%
352 - Extrication of victim(s) from vehicle	1	1.96%
400 - Hazardous condition, other	1	1.96%
440 - Electrical wiring/equipment problem, other	1	1.96%
442 - Overheated motor	1	1.96%
444 - Power line down	1	1.96%
445 - Arcing, shorted electrical equipment	1	1.96%
461 - Building or structure weakened or collapsed	1	1.96%
521 - Water evacuation	1	1.96%
550 - Public service assistance, other	1	1.96%
551 - Assist police or other governmental agency	2	3.92%
555 - Defective elevator, no occupants	1	1.96%
571 - Cover assignment, standby, moveup	2	3.92%
622 - No incident found on arrival at dispatch address	1	1.96%
631 - Authorized controlled burning	1	1.96%
651 - Smoke scare, odor of smoke	3	5.88%
733 - Smoke detector activation due to malfunction	2	3.92%
743 - Smoke detector activation, no fire - unintentional	5	9.8%
744 - Detector activation, no fire - unintentional	1	1.96%
745 - Alarm system activation, no fire - unintentional	5	9.8%
TOTAL INCIDENTS:	51	100%

Only REVIEWED and/or LOCKED IMPORTED incidents are included. Summary results for a major incident type are not displayed if the count is zero.



Fire Department Mount Joy



Mount Joy, PA

This report was generated on 7/3/2021 11:34:46 AM

Incident Statistics

Zone(s): All Zones | Start Date: 06/01/2021 | End Date: 06/30/2021

INCIDENT COUNT			
INCIDENT TYPE		# INCIDENTS	
EMS		13	
FIRE		38	
TOTAL		51	
TOTAL TRANSPORTS (N2 and N3)			
APPARATUS	# of APPARATUS TRANSPORTS	# of PATIENT TRANSPORTS	TOTAL # of PATIENT CONTACTS
TOTAL			
PRE-INCIDENT VALUE		LOSSES	
\$0.00		\$0.00	
CO CHECKS			
TOTAL			
MUTUAL AID			
Aid Type		Total	
Aid Given		16	
Aid Received		6	
OVERLAPPING CALLS			
# OVERLAPPING		% OVERLAPPING	
11		21.57	
LIGHTS AND SIREN - AVERAGE RESPONSE TIME (Dispatch to Arrival)			
Station	EMS	FIRE	
Station 75	0:07:19	0:11:17	
AVERAGE FOR ALL CALLS		0:10:09	
LIGHTS AND SIREN - AVERAGE TURNOUT TIME (Dispatch to Enroute)			
Station	EMS	FIRE	
Station 75	0:03:39	0:04:06	
AVERAGE FOR ALL CALLS		0:03:53	
AGENCY		AVERAGE TIME ON SCENE (MM:SS)	
Fire Department Mount Joy		51:00	

Only Reviewed Incidents included. EMS for Incident counts includes only 300 to 399 Incident Types. All other incident types are counted as FIRE. CO Checks only includes Incident Types: 424, 736 and 734. # Apparatus Transports = # of incidents where apparatus transported. # Patient Transports = All patients transported by EMS. # Patient Contacts = # of PCR contacted by apparatus. This report now returns both NEMSIS 2 & 3 data as appropriate. For overlapping calls that span over multiple days, total per month will not equal Total count for year.



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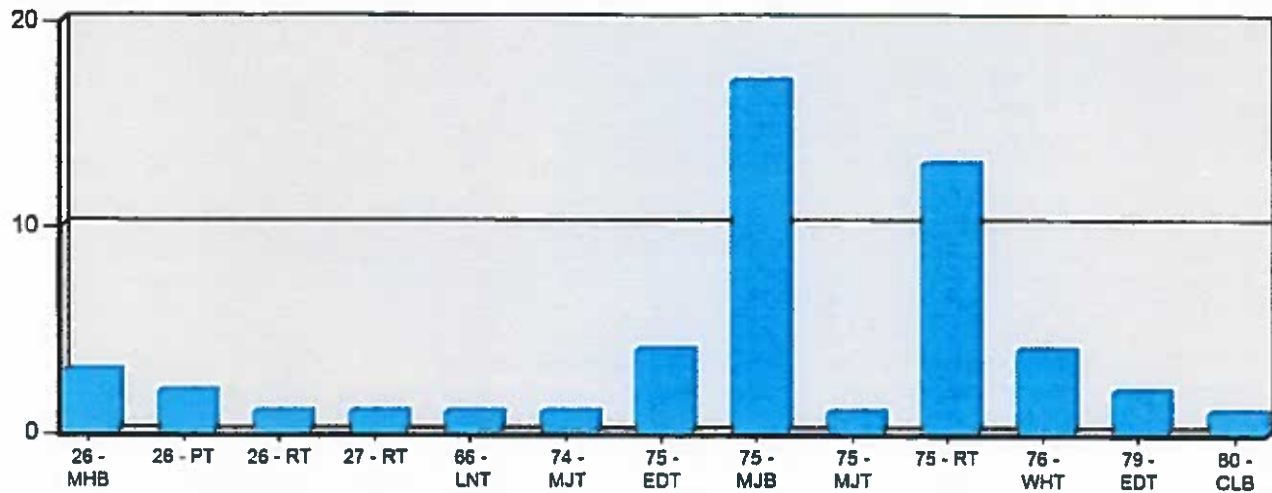
Fire Department Mount Joy

Mount Joy, PA

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Incident Count per Zone for Date Range

Start Date: 06/01/2021 | End Date: 06/30/2021



ZONE	# INCIDENTS
26 - MHB - 26 Manheim Borough	3
26 - PT - 26 Penn Township	2
26 - RT - 26 Rapho Township	1
27 - RT - 27 Rapho Township	1
66 - LNT - 66 Lancaster Township	1
74 - MJT - 74 Mount Joy Township	1
75 - EDT - 75 East Donegal Township	4
75 - MJB - 75 Mount Joy Borough	17
75 - MJT - 75 Mount Joy Township	1
75 - RT - 75 Rapho Township	13
76 - WHT - 76 West Hempfield Township	4
79 - EDT - 79 East Donegal Township	2
80 - CLB - 80 Columbia Borough	1

TOTAL: 51

Zone information is defined on the Basic Info 3 screen of an incident. Only REVIEWED incidents included. Archived Zones cannot be unarchived.



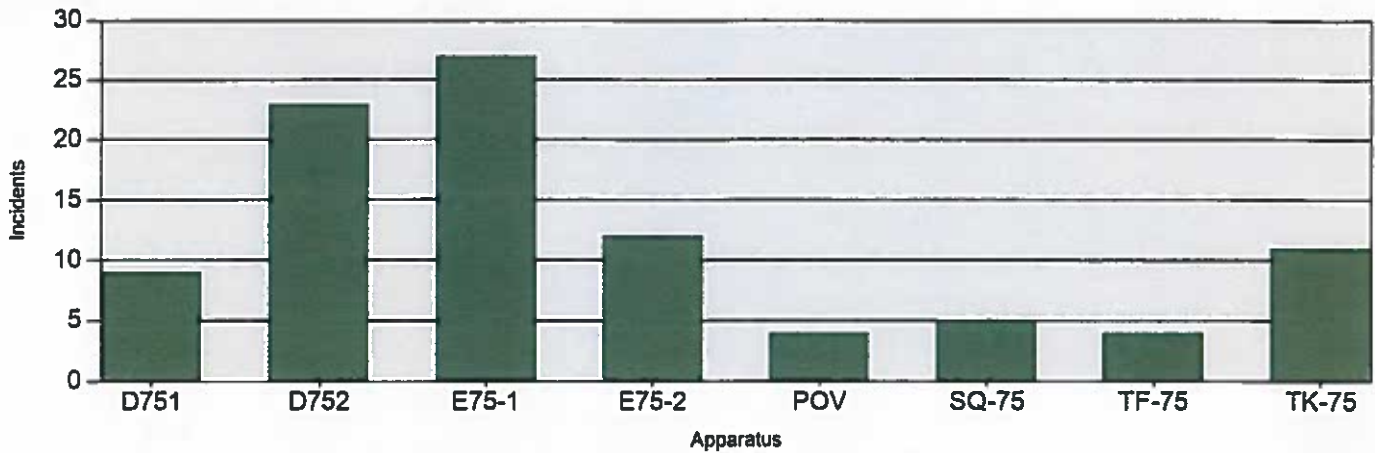
Fire Department Mount Joy

Mount Joy, PA

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Incident Count per Apparatus for Date Range

Start Date: 06/01/2021 | End Date: 06/30/2021



APPARATUS	# of INCIDENTS
D751	9
D752	23
E75-1	27
E75-2	12
POV	4
SQ-75	5
TF-75	4
TK-75	11

Canceled apparatus (per the THIS APPARATUS WAS CANCELLED checkbox on Basic Info 4) not included.
Only REVIEWED incidents included.



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Doc Id: 658

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Fire Department Mount Joy

Mount Joy, PA

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Incident Count with Man-Hours per Zone for Date Range

Incident Type(s): All Incident Types | Start Date: 06/01/2021 | End Date: 06/30/2021

ZONE	INCIDENT COUNT	MAN-HOURS
26 - MHB - 26 Manheim Borough	3	47:34
26 - PT - 26 Penn Township	2	7:48
26 - RT - 26 Rapho Township	1	0:28
27 - RT - 27 Rapho Township	1	1:44
66 - LNT - 66 Lancaster Township	1	17:02
74 - MJT - 74 Mount Joy Township	1	54:09
75 - EDT - 75 East Donegal Township	4	8:47
75 - MJB - 75 Mount Joy Borough	17	48:15
75 - MJT - 75 Mount Joy Township	1	1:33
75 - RT - 75 Rapho Township	13	65:01
76 - WHT - 76 West Hempfield Township	4	6:38
79 - EDT - 79 East Donegal Township	2	35:19
80 - CLB - 80 Columbia Borough	1	1:24
TOTAL	51	295:40

NOTE that this report takes into consideration ONLY those Personnel that are associated with an Apparatus, and that only Reviewed incidents are included in the counts.



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Fire Department Mount Joy

Mount Joy, PA

This report was generated on 7/3/2021 11:39:00 AM

X

Losses for Date Range

Start Date: 06/01/2021 | End Date: 06/30/2021

TOTAL INCIDENTS	TOTAL PROPERTY LOSS	TOTAL CONTENT LOSS	TOTAL LOSSES	AVERAGE LOSS
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INCIDENT NUMBER	DATE	Incident Type	PROPERTY LOSS	CONTENT LOSS	TOTAL	% of Total
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Only REVIEWED incidents included



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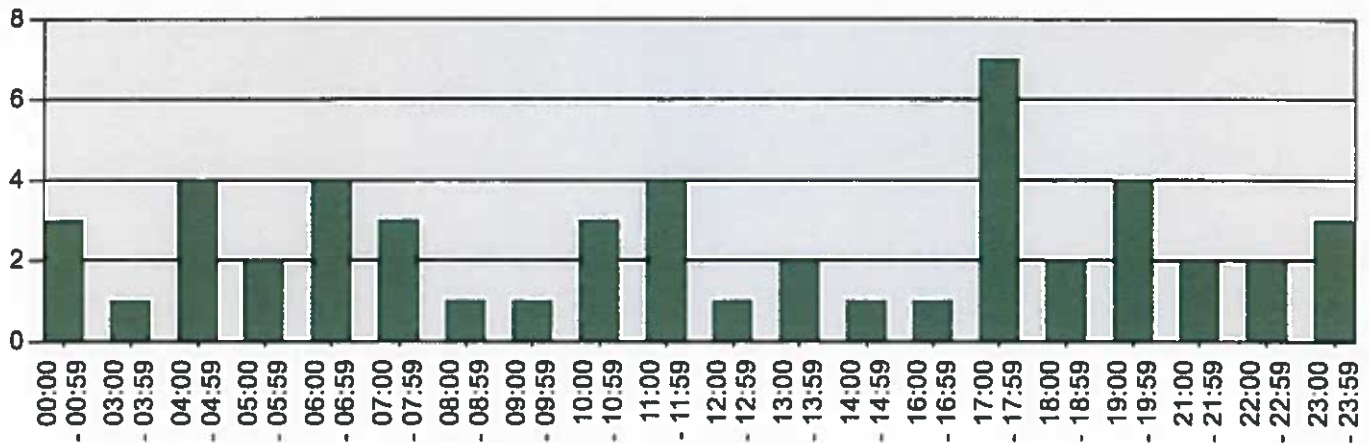
Fire Department Mount Joy

Mount Joy, PA

This report was generated on 7/3/2021 11:39:22 AM

Incidents by Hour for Date Range

Start Date: 06/01/2021 | End Date: 06/30/2021



Hour	# of CALLS
00:00 - 00:59	3
03:00 - 03:59	1
04:00 - 04:59	4
05:00 - 05:59	2
06:00 - 06:59	4
07:00 - 07:59	3
08:00 - 08:59	1
09:00 - 09:59	1
10:00 - 10:59	3
11:00 - 11:59	4
12:00 - 12:59	1
13:00 - 13:59	2
14:00 - 14:59	1
16:00 - 16:59	1
17:00 - 17:59	7
18:00 - 18:59	2
19:00 - 19:59	4
21:00 - 21:59	2
22:00 - 22:59	2
23:00 - 23:59	3

Only REVIEWED incidents included



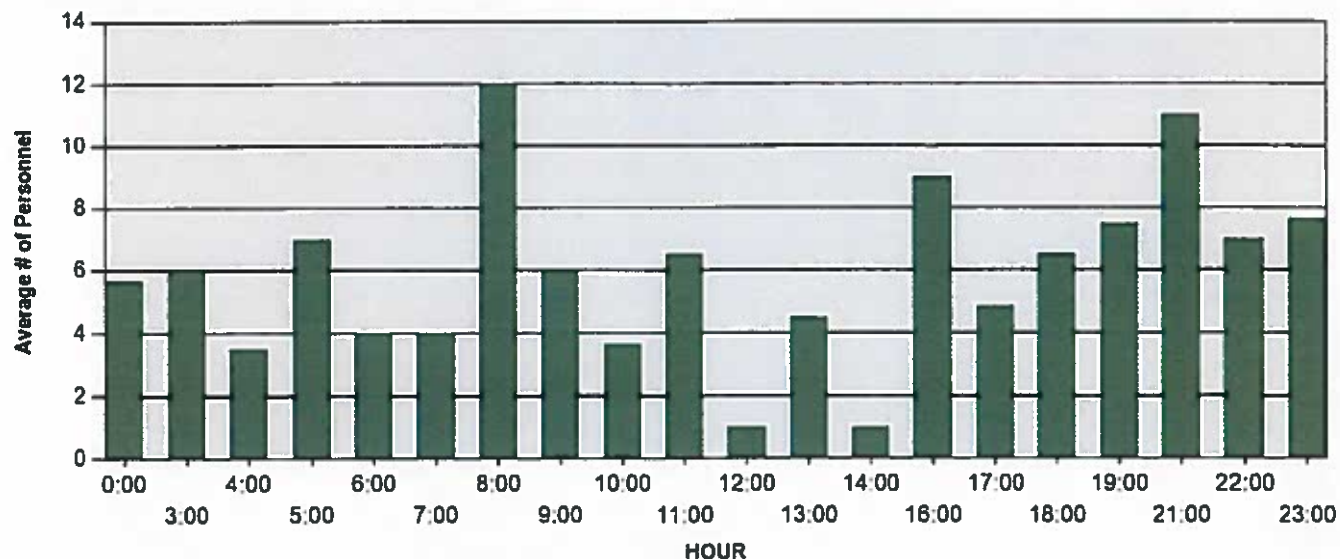
Fire Department Mount Joy

Mount Joy, PA

This report was generated on 7/3/2021 11:39:51 AM

Average Number of Responding Personnel per Hour for Date Range

Start Date: 06/01/2021 | End Date: 06/30/2021



HOUR	AVG. # PERSONNEL
00:00 - 00:59	5.67
03:00 - 03:59	6.00
04:00 - 04:59	3.50
05:00 - 05:59	7.00
06:00 - 06:59	4.00
07:00 - 07:59	4.00
08:00 - 08:59	12.00
09:00 - 09:59	6.00
10:00 - 10:59	3.67
11:00 - 11:59	6.50
12:00 - 12:59	1.00
13:00 - 13:59	4.50
14:00 - 14:59	1.00
16:00 - 16:59	9.00
17:00 - 17:59	4.86
18:00 - 18:59	6.50
19:00 - 19:59	7.50
21:00 - 21:59	11.00
22:00 - 22:59	7.00
23:00 - 23:59	7.67

AVE. # PERSONNEL calculated from total number of personnel responding to incidents begun at the HOUR divided by total number of REVIEWED incidents for that HOUR. Includes personnel that responded both on or off apparatus.





55 East Main Street : Mount Joy, PA 17552 : 717.653.4227
 mainstreetmountjoy.com : info@mainstreetmountjoy.com

MOUNT JOY BOROUGH COUNCIL REPORT FOR JULY 2021 ACTIVITIES

- Held Car Show on July 24. Had 162 cars at the show and more than 3000 people (estimated head count via photos).
- Worked with downtown church to analyze, plan and create an RFP for consulted IT services. Helped interview potential companies to help them make a decision. (estimated \$2000 value)
- Working with downtown business on developing a consistent branded message through email marketing, social media posting and website presence. (estimated \$3000 value)
- Working with downtown business on developing a new brand. Developing short video based messages and developing social media presence. Worked on schedule, copywriting, video recording and editing. Planned to be a year-long campaign starting end-August. (estimated \$8000 value)
- Developing new MSMJ program: "MSMJ Downtown Delivery Service" to help downtown businesses get goods to residents in retirement communities who cannot travel downtown. MSMJ will create a paper order form and collect/deliver orders to downtown businesses. MSMJ would deliver goods to resident communities, who would then deliver goods to residents.
- Finalizing fundraiser program for new flower planters downtown. The new flower planters will be a weather-friendly material and be self-watering, holding up to 40 gallons of water to reduce the amount of water needed for sustainability. Flower planters will be moved to intersections to allow for better street parking & consistent appearance downtown.

Some of these things require large amounts of time and resources. Our downtown businesses get this support for free from MSMJ.

Web development may total 30 – 60 hours over a span of a few weeks to gather the content, write the copy, take photos and develop e-commerce tools. In the market, web development costs anywhere from \$5,000 - \$15,000 per website.

Strategic Plan development can total up to 80 hours of work and several long meetings (2+ hours each meeting) to talk about long range goals, gathering data, reviewing data and working out details of the steps on each plan. In the market, Strategic Plan development costs range from \$5,000 - \$20,000.



55 East Main Street : Mount Joy, PA 17552 : 717.653.4227
mainstreetmountjoy.com : info@mainstreetmountjoy.com

2021 Sponsorship Update

Festival of the Arts (postponed until April)

- Major Sponsor : T-Mobile

Chocolate Walk

- Major Sponsor : T-Mobile

Craft Show

- Major Sponsor : T-Mobile
- Major Sponsor : Sheetz Funeral Home

Car Show

- Major Sponsor : T-Mobile
- Major Sponsor : Members 1st Federal Credit Union
- Major Sponsor : Lanco Federal Credit Union
- Major Sponsor : Marietta Notary
- Sponsor: Knowlton Dental Associates
- Sponsor: Whitmoyer Auto Group

Winterfest

- Major Sponsor : T-Mobile

- T-Mobile is a Diamond Sponsor of MSMJ for 2021.



MILANOF-SCHOCK LIBRARY

1184 Anderson Ferry Road, Mount Joy, PA 17552

Tel: 717.653.1510 Fax: 717.653.4030

www.mslibrary.org

Milanof-Schock Library is a community resource that enriches lives through, education, information, exploration, and socialization.

Serving East Donegal Township, Marietta Boro, Mount Joy Boro, Mount Joy Township & Rapho Township

June 2021- Compiled by Joseph McIlhenney, Executive Director
Contributors: Susan Craine, Kim Beach, Jan Betty & Kirstin Rhoades

June 2021 Statistics	2021	2021 YTD	2020	2020 YTD	2019	2018
TOTAL CIRCULATION	17,364	88,526	3,963	44,374	19,251	19,615
OVERDRIVE & E format	1,395	8,365	1,472	8,115	986	1,179
NEW PATRONS	82	290	x	171	95	146
PATRON COUNT	5,955	23,751	1,440	16,757	7,243	8,825
Computer Log-ins	340	1,812	39	1,108	497	301
Wireless Access	314	1,668	122	1,545	558	661
PASSPORTS	67	466	x	768	112	86
Website Users	4,917					
Facebook	2,058					
Instagram	664					

DONATIONS FOR USED BOOKS IN LOBBY	\$1,027.55
ADDED DONATIONS	\$602.95
DONATIONS as PRIZES	\$350.00
TOTAL INCOME/SAVINGS FROM USED BOOKS	\$1,979.95

Executive Summary

Summer is here and the library is alive with programs for everyone. Everything from snakes to brains, from American flags to reading books with green covers -- MSL is jumping into the Post-COVID world with both feet.

- MSL had 353 people show up for the **Summer Reading Program Kickoff on June 5**. Readers braved the heat to play games on the lawn, sign-up for programs and stand in long lines for the Dutchmade Pretzel truck. The Pretzel truck did a brisk business and barely made it to the end of the event before running out!
- **Maker Fest on June 12** brought almost 100 visitors during the 2-hour event.
- A good bit of time in June was spent on the COVID-mask issue, **keeping state holders informed and seeking input**. Seeking answers = What are other libraries doing? What does the State Library recommend? **On Monday, June 28, Governor Wolf announced**, by Tweet, that Pennsylvania would lift the mandate to wear masks. Later that day MSL, like other libraries in Lancaster County and the surrounding area, became a masks-optional public place. As I write this on July 12, use of masks by patrons and staff are mixed.

ALL PROGRAMMING / CLUBS / PROCTORS NUMBERS

ADULT DATA	Programs	Participants	Prog. Total YTD	Participants YTD
In-Library Programs	7	84	42	263
Proctoring	0	0	0	0
Totals	7	84	42	263

YOUTH DATA	Programs	Participants	Prog. Total YTD	Participants YTD
In-Library Programs	18	791	105	2017
Virtual Videos	2	1583	27	265
Virtual Programs	0	0	2	672
Totals	20	2374	134	2954

Volunteer Hours	Hours	Total YTD
	108.75	653

Joseph

- Attended Lions. Was invited to speak on June 1.
- Was on-hand for Summer Reading Kick-off on June 5.
- Attended Rotary twice in June. Was invited to speak on June 8 but wires got crossed and another speaker was brought in. I was re-scheduled for June 22.
- Core4 Meeting June 8 – Youth Programming.
- Visited municipalities: East Donegal on June 3, and Mount Joy Borough Council Meeting on June 7 [Zoom].
- Represented MSL at the District Negotiated Agreement meeting [Zoom], June 9.
- Was on vacation June 14 to June 19.
- Trouble with Choice Security Alarm [ground fault] began on June 27. This has turned into an on-going issue. On June 28 Choice responded, in part, "A ground fault is often times very difficult to find and impossible in this case since the trouble has now restored. If it continues to be an issue we will have to schedule a tech out."

Community/Service Point (Susan)

- Open Fridays starting June 4 = total of 85 patrons on 1st day
- Summer Reading kick-off June 5 brought 272 patrons in the door
- Assembled the first 100 prizes for SRP
- Auction meeting 6/7, 6/30
- Sent all materials to auction solicitation committee
- Logged received responses in Master Auction file
- Spent hours on the phone soliciting auction items
- Hooked up 3 children's computers
- Brought chairs and tables back out into the library
- Organized staff schedule around vacations and personal leave

Youth Services (Jan)

- Had an astounding number show up for the Summer Reading Program Kickoff (353). I was grateful that Joseph had my back as it was just the 2 of us and there were waves of

folks. The Dutchmade Pretzel truck was on hand and barely made it to the end of the event before running out!

- *The crazy, end-of-the-year-I-can't-be-live-at-your-school* video was shown on D-TV at both Donegal Primary and Donegal Intermediate Schools. It was viewed by over 1500 students and teachers at the schools and some virtual learners at home, so I don't have an accurate count for this.
- Had a beautiful day for **Makerfest** and it was the first event since COVID for many of the artisans
- **Lego Challenge** and the first **Summer Storytime** were cancelled due to the sudden death of my father. I am grateful for all the support I've received.
- There have been 2 sessions of a **county-wide teen virtual offering**, "**Teen 'Zine**" The teens zoom with an author and write a piece, which is then put in an online magazine. I have not heard whether any teens from our library have participated!

Public Relations/Promotions (Kirstin)

- **CONSTANT CONTACT:**
 - June 2021 Enews: sent to 2,912 contacts, added 32 new contacts; 6661 opens (23.7%), 61 clicks (9.2%), 2 unsubscribes.
- **SOCIAL MEDIA:**
 - Facebook – Total Page Followers 2,058; **14 New Follows; 8,782 people reached; 4,482 post engagements**
 - Instagram – **664 followers = 18 NEW** followers
 - Kept patrons updated with new books on the shelves – Adults thru Children
 - Helped Friends promote Book Sale
 - Also publish to Friends FB page
 - Post - Dutch Country Hand-Rolled Soft Pretzels being here reached 5K people!
- **2 Press Releases** - Distributed via news media, municipalities, and Chamber of Commerce.
- **WEBSITE**
 - 4,917 website entrances; **11,817 page views**; 1,998 page views of calendar; 318 views of Family Story Time; 234 views of Passport page
 - Created 2 new banner for the home page
 - Updated "**Library News**" page, Adult SRP, Friends' Page
 - Updated programs for July
- **MISC**
 - Photographed Maker Fest and other programs
 - Organized a small "**Tails & Tales**" supplies drive for the Columbia Animal Shelter
 - Added more photos to our Google page; updated summer hours
 - Images in Google profile received 17,412 views in June
 - Continued the emptying of the book donation shed and gathering books for sale in lobby
 - Listed sign changes for the street marquee
 - Helped the Library earn over \$1,027 in donations from books in Lobby
 - Updated July print calendar

Volunteers/Programming/Fundraising (Kim)

- **Marietta Lions Club & Planter Project**
 - Planters look beautiful! They have been thoroughly cleaned, planted and are flourishing. Especially nice for our outdoor programs.
 - Next step: clear sealant to protect them.

- **Grounds Crew:** They have continued to keep the grounds weeded and watered. Getting lots of nice comments from patrons.
- **Mini Maker Fest**
 - Coordinated the event with Jan.
 - Liaison for the artisans, who were fantastic.
 - Created event program, signs, kid's game and other handouts.
 - Were able to set up many of the displays outside.
 - Nice crowd of almost 100 visitors during the 2-hour event. Great event!
- **Auction 2021**
 - New theme: We're Still Standing!
 - Planning continues. Currently (July 5) we have received almost \$6,000 in sponsorships, ads and auction items!
- **Adult Summer Reading Program: Reading Olympics**
 - Huge participation with this year's program.
 - Lots of patrons commenting on the fun challenges. They were a collaborative effort with a few of my fellow staff members.
- **Adult Book Bundles:**
 - By patron request, devised an Adult Book Bundle Request Form.
 - Patrons can tell us what they like to read, how many books they would like and other info and staff will pull books for them to pick up.
- Created an **Adult Library Patron Space, or ALPS!** Will use the space to display adult programs, info, etc. Check it out!
- Worked on programming for 2021.

Mount Joy Borough

Zoning & Code Department

REPORT

To: Mount Joy Borough Council; Borough Manager

From: Stacie Gibbs- Zoning, Codes and Planning Administrator

Date: July 2021

Re: July 2021 Zoning, Code and Planning Report

UPDATES

- 800-802 W. Main Street – Permit for demolition received. The property is a 2-unit residential building. On the same lot is a commercial building for the Hearing and Ear Care Center. The commercial business will remain. There are no plans for future rebuild as informed by the current owners. The applicant provided an estimate to repair and renovate the existing 2-unit building of \$228,150.00. The 45-day waiting period for demolition expires on August 22, 2021, at which time, the permit will be issued.
- No new or old business for the August 11th PC meeting.
- No new cases for the August 25th ZHB meeting.

REPORT

- Drafted July PC agenda and distributed packets for meeting.
- Prepared formal plan approval letter for Mount Joy Senior Housing.
- Drafted and sent Borough Solicitor email to begin drafting all agreements and documents associated with Mount Joy Senior Housing as requested by applicant.
- Drafted and email Borough Solicitor current Ordinance 2-17 which contain regulations on certain communication towers, and requested review as it relates to House Bill 1621, Act 50.
- Conference call with Florin Church of the Brethren regarding their upcoming special event on July 24th.
- Discussed in-ground pool requirements and setbacks with owner of 624 School Lane.
- Conference call with Ebersole Brothers regarding MJ Gift & Thrift.

MEETINGS

- 7/7/21- Met with owners of 202 Fairview Street and staff to discuss Garber Storage steps moving forward.
- 7/8/21 -Met with Borough Manager and staff to discuss Train Station as it relates to Stormwater basin and other items.
- 7/12/21 – Attended Borough Council meeting
- 7/14/21 – Attended Borough Planning Commission meeting.
- 7/14/21 – Attended staff meeting.
- 7/16/21- Met with SW Officer and owner of Rholan Paving to discuss SW.
- 7/22/21- Attended Administration and Finance Committee meeting.

TRAINING

MOUNT JOY BOROUGH-Violations: " 7/1/2021 - 7/31/2021

JULY 2021 VIOLATION REPORT

Fire

Closed

Total number of Closed Fire Violations: 1

Property

Closed

Total number of Closed Property Violations: 20

Open

Total number of Open Property Violations: 32

53

MOUNT JOY BOROUGH Inspections by STACIE GIBBS: 7/1/2021 - 7/31/2021

JULY 2021 RENTAL INSPECTIONS

Type / No / TaxNo / Subtype / Task / Notes	Pass/Fail/Comp	Fee	Inspector	Date
Tenant - Property				
201 E MAIN ST 1ST FL - Tenant - Property			4509181100000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/20/2021
201 E MAIN ST 2ND FL - Tenant - Property			4509181100000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/20/2021
202 S BARBARA ST - Tenant - Property			4503134400000	
Tenant Space	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> SG	7/16/2021
10-year lithium smokes in all bedrooms (wrong kind were there); Look to upgrade electric or add circuits as only 1 A/C and 1 fan can run at a time in whole house. When using kitchen, circuits blow; All windows need to be openable and easily openable; Repair ceiling in 1st floor bathroom and ceiling in dining room from previous leak in upstairs bathroom; repair tile floor in bathroom at the tub; screen door needs in rear needs to be removed or replaced; tree along New Street is hanging over sidewalk and needs to be trimmed up over sidewalk. 2A fire extinguisher required.				
841 COLONY LN - Tenant - Property			4508134800000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/14/2021
2A fire, 10-years smokes need each floor each bedroom				
242 N MARKET AVE - Tenant - Property			4501195600000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/12/2021
Smokes in bdrm 1,3,4,5 and 6 and fire ext needed.				
307 E MAIN ST - Tenant - Property			4504481800000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/12/2021
Smoke in basement and handrail on basement stairs				
213 MOUNT JOY ST - Tenant - Property			4500935300000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/12/2021
move smoke to basement, 2 smokes in bdrms 1 and 2				
211 MOUNT JOY ST - Tenant - Property			4500725400000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/12/2021
Install rail on basement stairs				
832 WOOD ST - Tenant - Property			4502133300000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/16/2021
Tenant turned off all 10-year lithium smokes on back. Install all smokes in bedrooms and living room.				
822 BRUCE AVE - Tenant - Property			4506194900000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/14/2021
10-YEAR SMOKES NEEDED 2A fire extinguisher				
415 FLORIN AVE - Tenant - Property			4502108100000	
Tenant Space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> SG	7/14/2021
2A fire ext needed				

Type / No / TaxNo / Subtype / Task / Notes	Pass/Fail/Comp Fee	Inspector	Date
Tenant - Property			
401 W MAIN ST - Tenant - Property	4502123400000		
Tenant Space	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SG		7/16/2021
1071 WOOD ST - Tenant - Property	4505666900000		
Tenant Space	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> SG		7/7/2021
Observed black stain on bathroom floor by shower. Tenant advised it has grown since she has been there over 2 years. Pulled up piece of tile on floor and it was wet underneath and my fingers had black stuff on them, pulled back piece of tile on wall and same thing. Evidence of mold growth due to moisture. Remove all area where wetness and mold is present. Code officer requested to observe once everything is open. Also observed several large holes in gutters on front of house. Replace gutters.			
327 MARTIN AVE 10 - Tenant - Property	4501440500000		
Tenant Space	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SG		7/14/2021
2A fire			
143 S MARKET AVE - Tenant - Property	4505653300000		
Tenant Space	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SG		7/21/2021
2A -10BC fire extinguisher needed; weeds; abandoned small pond in rear holding water to be removed; peeling paint on porch rails.			
505 DONEGAL SPRINGS RD - Tenant - Property	4503306900000		
Tenant Space	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SG		7/21/2021
203 E MAIN ST 1ST FL - Tenant - Property	4509181100000		
Tenant Space	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> SG		7/20/2021
Repair bedroom ceiling from previous second floor leak; 10 year lithium smokes required; 2A fire extinguisher needed; repair concrete stoop and stair outside door on right side. Remove all weeds around building in areas shown; clean up all rubbish under wooden rear stairs as shown.			
Total Inspections: 17			

MOUNT JOY BOROUGH-MultiSelect Permits App Date: 7/1/2021 - 7/31/2021

JULY 2021 CONSTRUCTION AND ZONING PERMIT REPORT

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
Building						
Above ground pool						
Active						
210737	7/16/2021	7/22/2021	MCDONALD SHAYLE M MCDONALD JOSH	724 BRUCE AVE	above ground pool	\$40.00
Total Above ground pool 1						\$40.00
Com-Renovations						
Pending						
210744	7/26/2021		H&R TRANSLOAD LLC	900 SQUARE ST	Truck Scale	\$515.00
Total Com-Renovations 1						\$515.00
roof over patio						
Pending						
210745	7/26/2021		COLE SHANNON E COLE DAVID A	210 PEACH ALY	Porch roof over patio	\$65.00
Total roof over patio 1						\$65.00
Total Building 3						\$620.00
Demo						
demolition						
Pending						
210742	7/23/2021		SQUARE DEAL 950 LLC	922 W MAIN ST	Demo Residential principal structure	\$117.00
210733	7/8/2021		MELHORN MIKE AND WENDY	800 W MAIN ST	Demolish single family 2-unit home	\$179.00
Total demolition 2						\$296.00
Total Demo 2						\$296.00
Sign						
sign						
Active						
210734	7/14/2021	7/22/2021	DEALBROOK LLC PARAMOUNT PORTFOLI	749 E MAIN ST	Install internal illuminated wall sign	\$115.00
Total sign 1						\$115.00
wall sign						
Active						
210728	7/2/2021	7/14/2021	WEIS MARKETS INC	441 W MAIN ST	Internal illuminated wall sign	\$115.00
Total wall sign 1						\$115.00
Total Sign 2						\$230.00
Use						
Use						
Active						
210738	7/20/2021	7/22/2021	COOPER JOHN & JENNIE	1 S MARKET ST	New Business - A. Lane Living	\$60.00
Total Use 1						\$60.00
Total Use 1						\$60.00
Zoning						
Patio						
Active						
210730	7/6/2021	7/6/2021	CASSEL CHRISTOPHER AND CORI RIFE	134 E MAIN ST	Patio	\$40.00
Total Patio 1						\$40.00
Patio and Shed						
Active						

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
Zoning						
Patio and Shed						
Active						
210735	7/15/2021	7/15/2021	FREY WILLIAM S FREY LUANN	47 DETWILER AVE	Patio and shed	\$40.00
Total Patio and Shed 1						\$40.00
Shed						
Active						
210739	7/21/2021	7/21/2021	INTERNATIONAL GIFT & THRIFT C/O MO	413 W MAIN ST	Install shed	\$50.00
Total Shed 1						\$50.00
Special Event						
Active						
210727	7/2/2021	7/23/2021	FLORIN CHURCH OF THE BRETHRE	815 BRUCE AVE	Special Event- Kids Connect Community	\$60.00
Total Special Event 1						\$60.00
Use Review						
Complete						
210741	7/22/2021	7/22/2021	150 NEW STREET PARTNERS	28 S JACOB STREET	Use Review	\$60.00
Total Use Review 1						\$60.00
Total Zoning 5						\$250.00
Total Permits: 13						\$1,456.00

BUILDING PERMITS ANALYSIS OF FEES RECEIVED

MONTH	2018	2019	2020	2021
JANUARY	\$ 496.00	\$ 645.00	\$ 4,874.00	\$ 800.00
FEBRUARY	\$ 837.00	\$ 375.00	\$ 525.00	\$ 375.00
MARCH	\$ 3,729.00	\$ 1,293.00	\$ 4,212.00	\$ 4,275.00
APRIL	\$ 2,980.80	\$ 3,160.00	\$ 631.00	\$ 5,207.00
MAY	\$ 7,371.00	\$ 1,910.00	\$ 967.00	\$ 1,806.00
JUNE	\$ 1,295.00	\$ 3,058.00	\$ 4,025.00	\$ 4,270.00
JULY	\$ 10,276.00	\$ 1,905.00	\$ 987.00	\$ 1,456.00
AUGUST	\$ 4,237.00	\$ 5,645.00	\$ 2,324.00	
SEPTEMBER	\$ 2,273.00	\$ 3,752.00	\$ 2,457.00	
OCTOBER	\$ 6,431.10	\$ 1,714.00	\$ 22,351.00	
NOVEMBER	\$ 2,027.00	\$ 1,994.00	\$ 1,687.00	
DECEMBER	\$ 593.68	\$ 859.00	\$ 4,161.00	
TOTALS	(\$42,546.58 Budgeted \$35,000)	(\$26,310.00 Budgeted \$35,000)	(\$49,201.00 Budgeted- \$25,000)	(\$18,189.00 Budgeted \$25,000)

MOUNT JOY BOROUGH-StormWater Permits App Date: 7/1/2021 - 7/31/2021

JULY 2021 STORMWATER PERMIT REPORT

PermitNo	App Date	Issue Date	Owner	Project Addr	Descript	Fee
StormWater						
Exemption						
Active						
210740	7/22/2021	7/22/2021	MCDONALD SHAYLE M MCDONALD JOSH	724 BRUCE AVE	Deck	\$50.00
210736	7/15/2021	7/15/2021	FREY WILLIAM S FREY LUANN	47 DETWILER AVE	Patio and shed	\$50.00
Total Exemption 2						\$100.00
Major						
Pending						
210729	7/6/2021		LCCTC	201 FAIRVIEW STREET	SW Basin	
Total Major 1						\$0.00
Total StormWater 3						\$100.00
Total Permits: 3						\$100.00

STORMWATER PERMITS COMPARISON SPREADSHEET

MONTH	2018	2019	2020	2021
JANUARY	X	\$ 100.00	\$ 50.00	X
FEBRUARY	\$ 100.00	\$ 200.00	\$ 225.00	\$ 50.00
MARCH	\$ 325.00	\$ 325.00	\$ 600.00	\$ 300.00
APRIL	\$ 200.00	\$ 500.00	\$ 100.00	\$ 625.00
MAY	\$ 350.00	\$ 450.00	\$ 300.00	\$ 350.00
JUNE	\$ 250.00	\$ 525.00	\$ 675.00	\$ 325.00
JULY	\$ 375.00	\$ 400.00	\$ 300.00	\$ 100.00
AUGUST	\$ 150.00	\$ 425.00	\$ 300.00	
SEPTEMBER	\$ 50.00	\$ 250.00	\$ 475.00	
OCTOBER	\$ 200.00	\$ 50.00	\$ 575.00	
NOVEMBER	\$ 50.00	X	\$ 250.00	
DECEMBER	\$ 50.00	\$ 100.00	\$ 50.00	
TOTALS	(\$2,100.00 Budgeted \$2,500.00)	(\$3,325.00 Budgeted \$2,000.00)	(\$ 3,900.00 Budgeted- \$2,000)	(\$1,750.00 Budgeted \$2,500.00)

STREET OPENING PERMITS COMPARISON SPREADSHEET

MONTH	2018	2019	2020	2021
JANUARY	\$ 375.00	\$ 300.00	\$ 75.00	\$ 300.00
FEBRUARY	\$ 75.00	\$ 150.00	X	\$ 525.00
MARCH	\$ 130.00	X	\$ 150.00	\$ 300.00
APRIL	X	\$ 75.00	X	\$ 225.00
MAY	\$ 225.00	\$ 220.00	X	\$ 290.00
JUNE	\$ 75.00	\$ 75.00	X	\$ 150.00
JULY	\$ 150.00	\$ 75.00	X	X
AUGUST	\$ 300.00	\$ 75.00	\$ 75.00	
SEPTEMBER	\$ 150.00	\$ 75.00	X	
OCTOBER	\$ 75.00	\$ 450.00	X	
NOVEMBER	\$ 300.00	\$ 450.00	\$ 75.00	
DECEMBER	\$ 225.00	\$ 300.00	X	
TOTALS	(\$2,080.00 Budgeted	(\$2,245.00 Budgeted	(\$375.00 Budgeted - \$1,500	(\$1,790.00 Budgeted \$1,000)
	\$1,000)	\$1,300)		



**BOROUGH OF MOUNT JOY
STORMWATER MANAGEMENT REPORT**

TO: Mount Joy Borough Council

FROM: Dave Salley, Assistant Public Works Director

DATE: July 28, 2021

RE: Stormwater Management Report for July

Stormwater/Public Works:

- Locust Lane basin discussion with staff and Penn State Environmental and Ag
- Meeting with Rholan Paving owners to discuss stormwater issue
- Park funding meeting to discuss potential improvements to Kunkle Field and Rotary Park
- Storage facility at S Plum St pre-construction meeting
- Edited and contributed to the Multimodal Transportation Fund grant
- Loader demo at Compost Site for 902 Grant
- Garber Storage preconstruction meeting
- Staff train station meeting
- Meeting with staff about Guardian Barrier property
- PW Minutes
- Meeting with PP&L about sinkhole under pole at Mount Joy St & N. High St
- Code/zoning complaint responses
- NFWF reimbursements for Little Chiques Creek streambank restoration planning project
- Survey work complete for streambank restoration project, next is restoration designs
- Meeting with LTAP instructor about bidding process
- Road prep and paving at Springville and Cedar
- Attended Staff meetings
- Attended PW staff meeting
- Attended Public Works Committee meeting
- Attended Council meeting



**BOROUGH OF MOUNT JOY
PUBLIC WORKS DEPARTMENT
MEMORANDUM**

TO: Mark Pugliese, Borough Manager

FROM: Dennis Nissley, Public Works Director

DATE: July 28, 2021

RE: Public Works Department Activities for July 2021

Following is a list of activities for the Public Works Department for July 2021:

- Parks – Mowing
- Parks – Clean up after wind events
- Parks – Clean up and backfill after tree removal
- Parks – General Parks maintenance,
- PW – Weed spraying along curbs
- PW – Weed wacking and swale maintenance
- PW – Pave Cedar Lane and Springville Road with assistance from Mount Joy Twp.
- PW – Restore street at sink hole repair at 45 E. Main St.
- Stormwater – Clean and monitor facilities after significant rainfall events.
- Signs – Repair and replacement as needed
- Compost Site – Grind raw material
- Compost Site – Screen topsoil
- Compost Site – Manage and organize the processing of mulch and compost
- Attend Public Works Committee meeting
- Attend Borough Council meeting
- Continue to pursue additional ROW easements for 5 properties for the ARLE grant
- Work on gathering and compiling information for 2021 DEP 902 grant application
- Attend staff meetings
- Attend demonstration of RRFB signals and do walk through for planning for Multimodal Transportation Fund Grant
- Oversee application of seal coat in Arbor Rose streets.
- Conduct interviews for hiring to fill Public Works Maintenance Technician position
- Meet with property owners on Wood Street concerning sidewalk installation and repair.
- Meet with new owners of 202 Fairview Street to discuss plans moving forward

To: Mount Joy Borough Councilors, Borough Manager Pugliese & Mayor Bradley

From: Joseph Ardini

July 2021 Authority Administrator Report

1. Clarifier/Thickener Project:
 - Clarifier #3 was pulled offline.
 - Contractor began work on disassembly for refurbishment.
2. EPA and PA DEP conducted a compliance audit at the Carmany Road water plant along with parts of the water distribution system.
3. 2020-2021 audit was completed, staff filed the audit with PA DCED.
4. Pine Street: Staff repaired a section of sanitary sewer main at 11 & 13 Pine Street.
5. Staff has been reviewing project submissions which include:
 - Gerberic Payne Building
 - Messick's
 - LCCTC homes at Fairview Road



MOUNT JOY BOROUGH MEMORANDUM

TO: Borough Council & Mayor

FROM: Mark G. Pugliese I, Borough Manager

DATE: July 28, 2021

RE: Manager's Report

- File Reviews continue to be on-going.
- I have initiated Staff Meetings with all department heads to be held twice a month. I feel this is a good way to share information among departments as well as work through issues that one department may be experiencing. We have held two (2) meetings to date, and I am receiving a good amount of positive feedback.
- Assistant Manager and I have had a meeting on July 14th to review 020 Audit Report and recommendations.
- The Assistant Borough Manager and I have filed the Bonding application as approved by Borough Council at the July 12th, 2021, Borough Council Meeting. Bonding has been completed.
- I attended Public Works Committee Meeting on July 19th, 2021. In preparation of this meeting, I reviewed the agenda items and drafted two (2) resolutions to be approved by the Committee to be moved to Council regarding the sale of excess equipment and the DEP 902 Grant Application.
- I attended the Public Safety Committee Meeting on July 19, 2021.
- I have instituted new Workers Compensation Protocol and approved a Physician Panel to be posted at all departments. The procedures are to assist employees in the filing of any potential claim as well as ensure that all injuries are documented and reported in a timely manner. As stated previously, these changes should result in an approved "Report Card" and may decrease our premiums or at least lower our yearly increase.
- On July 22, 2021, the Assistant Borough Manager & I met with Susquehanna Municipal trust to discuss our Workers Compensation Coverage. Based upon the large claim that was settled this year, we can expect a significant increase in our yearly premiums for the next 3 years. In order to attempt to help lower the amount of increase, I instated the physician panel and protocol as mentioned above. I will also be looking at forming a "Safety Committee" and getting SMT to certify the committee. This would provide an additional credit on our yearly audits.
- As mentioned previously, we have received the first half of our grant under the American Rescue Plan Act (ARPA) of 2021 in the amount of \$433,225.87. This money must be used for one of the following expenditures.
 - Support Public Health Expenditures
 - Address Negative Economic Impact Caused by the Pandemic
 - Replace Lost Public Sector Revenue
 - Provide premium Pay for Essential Workers
 - Invest in Water, Sewer, Broadband Infrastructure. (This would include storm water projects.)

Last month I provided some literature for your review that may help explain some ways that we can utilize the funds. After some discussions with Public Works, they provided me with an estimate of storm water infrastructure work that will need repairs in 2021 & 2022 totaling \$746,478.00 that would constitute ARPA authorized expenditures. While I'm not suggesting that this entire expense be taken from ARPA grant monies as there are a multitude of other authorized expenditures, I would note that the storm water work on Manheim Street was an unbudgeted expense estimate at \$146,600.00 to \$160,000.00.

- The Borough's electrical supplier contract expires in November. It has been placed on the agenda for discussion purposes and consideration of how Council wants to proceed. At issue if those figures change daily. You may have to consider authorizing the Borough Manager (myself) to sign an agreement on behalf of Borough Council which would provide the best option for the Borough considering cost and duration of the contract.
- Month-to-date I have processed five (5) Right-To-Know Requests in July.

- I had previously advised Council of a situation occurring on the privately owned retention basin on Locust Lane. Due to property owners being deceased or otherwise failing to pay taxes, the Lancaster County Tax Collection Bureau (LCTCB) technically owns 2 of the three lots. There are several sink holes developing on the property that may need to be addressed. In March of 2019, our solicitor provided some guidance on actions that we can take. I requested that she review the letter to see if any of our options have changed and asked if she could draft a letter to the LCTCB advising them of the issues and potential danger. I received a response from our Borough Solicitor advising that the options for the Borough are the same as outlined in 2019. She has provided me with a letter to send to LCTCB which I have already distributed. Chances are they will not take any action but, in this case, we won't know unless we ask. In the meantime, the Public Works Director, Assistant Public Works Director and I met with Penn State Extension to get some ideas on solutions as well as possible grant monies that may be obtained to resolve this issue. More to come on this issue.
- Met with Department Heads at Kunkle Field to discuss park improvements to all parks reference to the possibility of a grant funding opportunity. Ideas included updating and/or adding bleachers, press box, stormwater managements, bike and hiking trails connecting all parks, just to name a few.
- I have addressed and hopefully resolved two billing/payment issues revolving around payment of monies due to Capital Blue, our health insurance provider and to payments made to PA Department of Labor and Industry. In both cases, payment had been made by the Borough but had not been documented correctly on their ends. I need to continue to monitor both to ensure that the Borough and the employees do not lose any coverage.
- Staff and I have started working on the budget. This year will probably be a little different for the department heads, but they have been willing to work with me on this. This will encompass a four-step process.
 - First, each department will need to develop a 5-year capital expense plan. This will primarily address any capital expense of \$1,000.00 or more. The purpose of this is for all of management and elected officials to have an idea of upcoming expenses for the next 5 years. This will be updated annually. This is due by August 15th.
 - Second, once August receipts and revenues are in and expenditures paid, each department head will be given their line-item budget with year-to-date figures. From there, they will need to provide me with an estimate of expenses and revenues for the remainder of the year. The purpose of this is to give management and elected officials a broader picture of our financial situation come the end of the year. This will also assist the department heads in creating their 2022 budget estimates. This will be due by September 15th.
 - Third, each department head will need to submit their 2022 expenses and revenue budgets. Submission date yet to be determined. I will meet with each department head to review their expenses and revenues, making recommendations where possible to create the best estimates for them to provide to the respective committees.
 - At this point, we will follow past practices with committee and Council reviews, etc. through budget adoption.
- I wish to advise you of a minor incident that occurred within the public works department where the bucket of one of our pieces of equipment being operated by a member of the PW Department scuffed the back bumper of a vehicle. The owner was notified, and we are in the process of working with our insurance carrier to repair any damages.
- If you recall at the last Council meeting, Council was made aware of a new law now known as Act 50 of 2021, Small Wireless Facilities Deployment Act that was passed. Following the meeting, staff and I contacted the Borough Solicitor. She is currently looking at our ordinance and the new law to see what needs to be addressed to bring the ordinance in compliance with the new law.
- The DCED Multimodal Fund Grant application was submitted on July 28, 2021. I need to thank Dennis Nissley, Dave Salley and Darrel Becker (ARRO) for their assistance in putting this together in a short time frame. Based on ARRO Cost Opinion, the total cost of the project would be \$758,095. The grant authorization that Council passed was for \$607,195 leaving the Borough match at \$150,900. Fortunately, one quote received for the installation of new poles and the Rectangular Rapid Flashing Beacons is actually approximately \$300,000 under ARRO's cost estimate. This would eliminate or drastically reduce the Borough's match requirement. I would note that we received letters of support from Senator Aument, Representative Hichernell, Main Street Mount Joy, Mount Joy Chamber of Commerce, Mount Joy Planning Commission, Lancaster County Planning Commission and Trinity Lutheran Church.
- I will be meeting and assisting the Borough's Police Contract Negotiating Committee and the Borough's Labor Attorney.

- Lastly, the Borough/Borough Authority Picnic is tentatively scheduled for Friday, September 17th starting at 11:30 am. Parks Superintendent Brian Brubaker will be recognized during the picnics. This will be his last day with the Borough as he steps into retirement.

As always, I welcome any questions and comments.

NOTE: in accordance with Act 65 of 2021, please review the agenda carefully. Any additions to the agenda need to be submitted to Lisa Peffley by 12:00 pm (noon) on July 30, 2021.

ADDITIONAL NOTE: As there is a possibility that there will not be a quorum Council to move any agenda items, I would ask that you please keep you August Council Packets so that staff will only be adding agenda items for the September Council Meeting. You will then be able to combine your 2 packets for the Council meeting.

Borough of Mount Joy

**21 East Main St
Mount Joy, PA 17552**



EdgeUP Technology

**605 Richmond Drive, Suite 105
Lancaster, PA 17601
(717) 392-9292
06/30/2021**





CLIENT INFORMATION

Borough of Mount Joy
managen@mountjoypa.org
(717) 653-2300
21 East Main St
Mount Joy, PA 17552



COMPANY INFORMATION

EdgeUP Technology
(717) 392-9292
605 Richmond Drive, Suite 105
Lancaster, PA 17601
Dean Baugus
dean@edgeuptech.com
Mobile : (717) 723-0448

NAME/INFO	DESCRIPTION	UNIT PRICE	QTY	PRICE
CONFERENCE ROOM 1	NETWORKS			
PoE Injector	<u>Provides Power over Ethernet to Compatible Devices</u> <u>Comment : Power for Camera</u>	\$96.00	1	\$96.00
	DISPLAYS			
	Simple TV Mounting with basic HD Cable/Sat TV box and remote control setup. Wires hidden and Cable/Sat box mounted behind TV Includes: - Professional TV Installation - Remote Control Programming - Complementary flat mount if necessary - Premium HDMI Cable (up to 1 meter) <u>Comment : TV will connect to Zoom operator laptop in the back of the room via HDMI. Power for TV will come down from the ceiling</u>	\$595.00	1	\$595.00
Simple TV Mount				
	SONY 75" 4K HDR LED TV XBR75X900H - Pricing reflects budget place-holder and is subject to model, availability and market conditions	\$2,000.00	1	\$2,000.00
75 Inch TV				
	VIDEO DISTRIBUTION			
	AudioQuest HDMI Cable, Cinnamon Series 1.25% Silver HDMI 2.0 8K-10K, 48Gbps. 0.75m / 2'6"	\$120.00	-1	(\$120.00)
HDMI .75M				
	AudioQuest HDMI Cable, Cherry Cola Optical Series Quartz Glass, .5% Silver HDMI 2.0 4K-8K, 18Gbps. 10m / 33'0" <u>Comment : From display to Zoom operator laptop</u>	\$800.00	1	\$800.00
HDMI 10M				
	COMMERCIAL AV			



Video Teleconference for Medium Size Conference Room package with DSP Echo-Cancelling.
Includes: PTZ Camera, Processor, Up to 2 Ceiling Mics, Speaker, Installation and Setup.
*Requires PC Source / Dialer, and Display

\$5,625.00 1 \$5,625.00

VTC Medium



Supports USB 3.0, USB 3.1 Gen-1 and USB 3.1 Gen-2. 20 m.65.6 feet.
Includes installation

\$1,067.00 1 \$1,067.00

USB 3.0 Active Optical Cable



TECHNICIAN

Travel and first half hour of service. Per vehicle, within 5-25 miles of the EdgeUP home office.

\$175.00 1 \$175.00

Travel 525

SUBTOTAL

\$10,238.00

TOTAL

\$10,238.00

TERMS AND AGREEMENT/CONTRACT

A. The general project description is contained in the attached document and related documents from herein referred to as "Proposal. Spycom Technology Solutions, LLC; DBA: EdgeUP Technology from herein referred to as EdgeUP.

B. The scope of work to be performed by EdgeUP is the installation of the specified system as outlined in the Proposal.

C. The total amount to be paid (subject to additions and deductions by written change order) shall not exceed the total specified in the Proposal. This may be superseded as specified below in item G.

D. Progress payments will be made according to the payment schedule below. Electronic equipment will not be ordered until the sum of deposits meet or exceed 95 of the project total. These times are subject to the timing of the construction and the lead times required for the ordered equipment to be delivered.

E. Payment is due immediately at invoicing. Unpaid balance beyond 10 days after invoicing of completed tasks as outlined in item D shall bear interest payable to EdgeUP at a rate of 1.75 per month simple interest, minimum 5 per month. Any discounts will be forfeited and become due.

F. Proposal expires after 30 days without approval following the date stated on the top of the Proposal. No work will be scheduled without an initial deposit plus a signed copy of this agreement. Release of all system design specifications are contingent on agreement and retainer.

G. If project is of a retrofit/remodel nature on an existing structure, and/or scope of work exceeds time and material costs estimated to complete because of unforeseen circumstances, client agrees that he/she will be billed at the current EdgeUP installation rate for all extra labor and necessary parts involved in completing the project.

H. EdgeUP reserves the right to replace proposed models in the case of obsolescence, discontinuation, or unavailability with a comparable model of equal or greater value. EdgeUP will not be held responsible or liable in any way for any said product's obsolescence, discontinuation, or unavailability.

I. At times, EdgeUP will request personal WiFi information, door code passwords, alarm codes, usernames, passwords, and IP addresses. This information is used to program and maintain specific types of components. EdgeUP reserves the right to access your components remotely, for the sole purpose of updating and modifying system programming. EdgeUP will not be held responsible if logins, passwords, codes, or system programming are changed by client after completion. We do not transfer your personal identifiable information to outside parties. The security, integrity and confidentiality of your information is extremely important to us. We have implemented technical, administrative, and physical security measures that are designed to protect your information from unauthorized access, disclosure, use, and unnecessary modification.

J. Due to the complexity of the custom system programming provided by EdgeUP, the need for user preference changes and modifications are to be expected after system completion. Within a 30day period of completion, the client should provide EdgeUP, in writing, any system programmable preference changes requests. These requests will then be scheduled for fulfillment within the limitations of the provided system. This onetime visit, or remote system login, is to be considered part of the original proposed scope of work. Customer must be aware manufacturer firmware and software changes/updates may affect functionality of the system. This may require a service visit to resolve, and the resolution may result in a change of how to use the system. Rare cases and old equipment may require components to be updated or replaced. EdgeUP warranty does not cover costs associated with manufacturer changes.

K. EdgeUP may use photos and details specific to the system installation within social media posts and/or other forms of advertising. Sensitive customer information, names, address, contact info, and photos will not be shared. Client agrees to notify EdgeUP in writing of any potential issues and allow 30 days to resolve the issue prior to posting an online review. Positive online reviews are appreciated and encouraged anytime.

1. Contract Documents and Details

The contract documents consist of this agreement, including all general provisions, special provisions, specifications, drawings, addenda, change orders, written interpretations, and written orders for minor changes in work. Work not covered by contract documents will not be required unless it is required by reasonable inference as being necessary to produce the intended result. The costs associated with any related work or materials, including, but not limited to electrical, drywall, painting, cabinets are not included unless specifically documented in the Proposal. EdgeUP is not responsible for any underground trenching or laying or supplying of conduit for outside wiring.

2. Time

With respect to schedule completion of the tasks in section D, time is of the essence. If Contractor is delayed at any time in the progress of the work by customer change orders, fire, labor disputes, acts of God or other causes beyond EdgeUP's control, the completion schedule for the work or affected parts of the work shall be extended by the same amount of the time caused by the delay. Customer will be responsible should the job site not be ready for EdgeUP to fulfill the scheduled work. The appointment must be cancelled or changed 3 business days before scheduled work to avoid additional charges for wasted time.

3. Payments and Completion

The below Payment Schedule is a guideline and approximation. Since EdgeUP will, if possible, open, test and burnin equipment before delivery, all components must be paid for before delivery to job site. Payments may not be withheld under any circumstances. Final payment shall be due immediately following completion of the project invoicing. Punch list items shall not delay invoice payment. EdgeUP will hold owner harmless with respect to claims of subcontractors and suppliers. Customer agrees to be responsible for all costs of collection on unpaid balances including, but not limited to 1.75 interest per month, collection fees (up to 50), court costs, reasonable attorney fees, and time spent by EdgeUP personnel to address the matter billed at our standard service rate.

4. Insurance

EdgeUP shall purchase and maintain such insurance necessary to protect from claims under workers compensation and from any damage to the customer property resulting from the conduct of this contract. Proof of insurance can be provided upon written request.

5. Changes in the Contract

The customer may order changes, additions, or modifications without invalidating the contract. Such changes must be in writing and approved. EdgeUP shall provide the owner in writing the amount of additional costs or cost reductions resulting from changes ordered within 15 working days unless this requirement is waived in writing by the customer. Change Orders shall be paid in full upon acceptance and shall not alter the above payment schedule.

6. Service Warranty

EdgeUP warrants the workmanship and installation of equipment for 30 days from the installation date. During this period, EdgeUP Technology Solutions will repair and/or replace defective parts without an additional charge to you.

The above Service Warranty is subject to the following conditions:

1. This warranty extends only to products distributed and/or sold by EdgeUP.

2. This warranty covers only normal use of the equipment. EdgeUP shall not be liable under this warranty if any damage or defect results from (i) misuse or neglect; (ii) disasters such as fire, flood, lightning or improper electrical current; or (iii) service or alteration by anyone other than an authorized EdgeUP representative.

For post warranty repair following the 30day period, the client is responsible for payment, at current hourly rates plus trip charge, for any service or repair outside the scope of this limited warranty. EdgeUP will aid the client in servicing their manufacturerwarranted equipment throughout the life of said warranty, at these same applicable rates.

PAYMENT SCHEDULE

DUE UPON ACCEPTANCE	95.0%	\$9,726.10
FINISH	5.0%	\$511.90

Total Amount

\$10,238.00

Deposit Amount

\$9,726.10

Client Signature

Date Time



MILANOF-SCHOCK LIBRARY

1184 Anderson Ferry Road, Mount Joy, PA 17552

(717)653-1510

www.mslibrary.org

Serving East Donegal Township, Marietta Borough,
Mount Joy Borough, Mount Joy Township and Rapho Township

June 2021

Dear Library Friend,

Milanof-Schock Library has served the Donegal community for more than 20 years, but none have been as challenging as 2020. No one could have imagined a world where masks would become so common and hugs so rare. It has not been easy, but our community is strong and still standing.

Library services proved especially vital to people this past year. From virtual story hours to porch pickup service to ebooks to reopening the library, our patrons were eager to partake of it all! To provide the quality services so many of our neighbors depend on, we need support from the community.

This year's auction will be held outside on the library grounds. Join us for a festive auction filled with beautiful auction items, food, entertainment, and family fun. We will celebrate our community, our continuing recovery and, with a little luck, beautiful weather.

You can support the auction in multiple ways:

- **Become an event sponsor or advertise in the auction program or on the event grounds.**
- **Donate a new item or service to be auctioned. Want to donate, but are stumped for an idea? Call Kim Beach at the library to brainstorm.**
- **Join us at the auction!**

The auction will be a smaller event than in the past, and we truly appreciate any level of participation that works for you. The attached flyer provides the details. Make your selection(s) to let us know how you plan to participate this year. You may mail the form, or email it to kbeach@mountjoy.lib.pa.us. We appreciate having your information as soon as possible. The final deadline for inclusion in the program is Thursday, August 12. If you have questions, please contact Kim Beach at the Library.

Sincerely,

Jean Witmer
Auction Co-Chair

Kim Beach
Auction Co-Chair



MILANOF-SCHOCK LIBRARY

1184 Anderson Ferry Road, Mount Joy, PA 17552

Tel: 717.653.1510 www.mslibrary.org

Serving East Donegal Township, Marietta Borough, Mount Joy Borough,
Mount Joy Township and Rapho Township

Please fill out this form and email it to info@mountjoy.lib.pa.us or mail to the Library no later than August 12, 2021. If you have any questions, please call Susan Craine or Kim Beach at the Library.

Donor/business name as it will
appear in the event program: _____

I would like to donate the
following new item(s), service,
experience, or gift basket: _____

Approximate value of item(s) or
service: _____

Please include a business card with your donation. If your item is a gift basket, include an itemized list of the basket's contents. Both will be placed with your donation. Thanks for your help!

I would like to be an event sponsor or advertiser at the following level:

X Sponsorship Opportunities			X Program Ad Opportunities	
	\$500	Gold Sponsor: full-page program ad; listing in all promotional materials; banner at auction		\$500 - Full Page, Back Cover
	\$250	Silver Sponsor: half-page ad in the program; listing in all promotional materials		\$400 - Full Page, Inside Front Cover
	\$200	Silent Auction Table - Your business name on one bidding table. Max: 4		\$400 - Full Page, Inside Back Cover
	\$150	Children's Game Sponsor - Your business name on one children's game. Max: 2		\$300 - Full Page
				\$200 - Half Page - Horizontal
				\$125 - Quarter Page - Vertical
				\$50 - Eighth Page - Horizontal
				\$100 - Hang your banner at event.
				\$50 - Hang 11x17 logo sign at event. We will design the sign.

*Ad Sizes: (W x H): Full Page - 6.5x8"; Half page: 6.5x4"; Quarter page: 3"x4"; Eighth page: 3"x2." Ads are printed in 4-color process. Please provide camera-ready artwork or logo in pdf or jpg files. Email files to: krhoads@mountjoy.lib.pa.us. We can create your ad for an additional \$25 fee.

My check to Milanof-Schock Library is enclosed.			
Contact Name			
Email:		Phone #:	

Thank you for considering this opportunity!
Contact us if you would like to be our MAJOR EVENT SPONSOR!



10c

BOROUGH OF MOUNT JOY
21 EAST MAIN STREET
MOUNT JOY, PENNSYLVANIA 17552



From the Office of:
Mark G. Pugliese I
Borough Manager/Secretary

INCORPORATED 1851

TELEPHONE (717) 653-2300
FAX (717) 653-6680
E-MAIL: manager@mountjoy.org

LETTER OF NO TRESPASS

TO:
FROM:
DATE:
RE: LETTER OF NO TRESPASS

(Recipient's Name),

Please be advised that you have no right, either expressed or implied, to be **IN** or **ON** the property located at (property address) at any time whatsoever and for whatever purpose.

Should you not adhere to these wishes in this matter, the undersigned, who is the designated representative for the Borough of Mount Joy, who is owner of record for (property address) will have no choice but to pursue all those remedies that are available by law, including criminal prosecution for defiant trespass.

You are specifically advised, pursuant to Title 18 (PA Crimes Code), Section 3503(b) [Criminal Trespass-Defiant Trespasser], that you are not licensed or privileged to enter or remain at the address located at (property address). In the event that you attempt to enter (property address) premises located at (property address), you will give the undersigned, who is the designated representative for the Borough of Mount Joy, no alternative but to exercise their rights under the law.

You have been warned; being so advised, govern yourself accordingly.

Regards,

Mark G. Pugliese I
Borough Manager

BOROUGH OF MOUNT JOY

Lancaster County, Pennsylvania

ORDINANCE NO. 8-21

AN ORDINANCE TO AMEND THE MOUNT JOY BOROUGH CODE OF ORDINANCES, CHAPTER 270, ZONING, TO REVISE SIGN REGULATIONS AND CLARIFY REGULATIONS CONCERNING SPECIAL EXCEPTIONS.

BE AND IT IS HEREBY ORDAINED AND ENACTED by Borough Council of the Borough of Mount Joy, Lancaster County, Pennsylvania, as follows:

Section 1. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article I, Administration and Enforcement, §270-16, Special Exceptions, shall be amended by adding a new Subsection E which shall provide as follows:

- E. Expansion of preexisting uses authorized by special exception. When a use which was established prior to the enactment of this chapter or any amendment thereto is located in a zoning district where such use is permitted by special exception, such preexisting use shall be permitted to continue as of right. Any expansion or alteration of such preexisting use shall require the granting of a special exception by the Zoning Hearing Board, and the applicant for such special exception shall demonstrate compliance with all of the standards set forth in this chapter for the granting of a special exception for such use, if any, and with all of the general standards set forth in this chapter for all special exceptions.

Section 2. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, §270-91, Purpose; permit requirements; changes on signs, Subsection B, Paragraph (1), Subparagraph (a) shall be amended to provide as follows:

- (a) Signs meeting the requirements of §270-93 and §270-103.

Section 3. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, §270-93, Miscellaneous Signs Not Requiring Permits, Subsection A, 270 Attachment 6 table entitled Miscellaneous Signs Not Requiring Permits, shall be amended as follows:

ZONING

270 Attachment 6

Borough of Mount Joy

Miscellaneous Signs Not Requiring Permits

Type and Definition of Signs Not Requiring Permits	Maximum Number of Signs Per Lot	Maximum Sign Area Per Sign on Residential Lots (square feet)	Maximum Sign Area Per Sign on Nonresidential Lots (square feet)	Other Requirements

Flag A banner or pennant made of fabric or materials with a similar appearance that is hung in such a way to flow in the wind and that includes some type of message	2	See §270-103	50	Government flags and flags without messages are not regulated by this chapter

Section 4. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, §270-93, Miscellaneous Signs Not Requiring Permits, Subsection A, 270 Attachment 6 table entitled Miscellaneous Signs Not Requiring Permits, shall be amended to delete the entry for "Political Sign" in its entirety.

Section 5. The Mount Joy Borough Code of Ordinances, Chapter 270, Zoning, Article VII, Signs, shall be amended by adding a new §270-103, Personal Expression Signs, which shall provide as follows:

§270-103. Personal Expression Signs.

A. As used in this section, the following term shall have the meaning indicated:

SIGN, PERSONAL EXPRESSION — A sign expressing or communicating a noncommercial message, opinion, feeling, interest, or point of view, including, but not limited to, ideological, religious, political, or social messages. A personal expression sign may convey such message through text, symbols and/or logos (such as for a sporting team or club). A flag governed by the American, Commonwealth, and Military Flag Act, Act of July 7, 2006, P.L. 609, No. 93, 44 P.S. §50.1 et seq., or Section 1202(3) of the Borough Code shall not be considered a personal expression sign and shall not be subject to limitations concerning personal expression signs. Holiday or seasonal decorations shall not be considered personal expression signs.

B. Within all zoning districts the occupant of any lot containing a dwelling unit shall be permitted to erect personal expression signs in accordance with the following requirements:

- (1) All personal expression signs shall comply with §270-100 and §270-101.
- (2) The total square footage of personal expression signs on the lot shall not exceed 36 square feet.

- (3) No personal expression sign other than a personal expression sign made of fabric (i.e. flag) displayed on a flag pole may exceed 5 feet in height.
- (4) No single personal expression sign may exceed 12 square feet.
- (5) No personal expression sign may be located within a required side yard or rear yard setback.
- (6) No permanent structure may be installed to serve as a base or mount for a personal expression sign other than a flagpole meeting all setback requirements.
- (7) All personal expression signs shall be set back at least 5 feet from the public street right-of-way.
- (8) No personal expression sign may be located within the clear sight triangle for any driveway serving an adjoining lot.

Section 6. All other sections, parts and provisions of the Mount Joy Borough Code of Ordinances shall remain in full force and effect as previously enacted and amended.

Section 7. In the event any provision, section, sentence, clause or part of this Ordinance shall be held to be invalid, illegal or unconstitutional by a court of competent jurisdiction, such invalidity, illegality or unconstitutionality shall not affect or impair the remaining provisions, sections, sentences, clauses or parts of this Ordinance, it being the intent of Borough Council that the remainder of the Ordinance shall be and shall remain in full force and effect.

Section 8. This Ordinance shall take effect and be in force from and after its enactment as provided by law.

DULY ORDAINED AND ENACTED this _____ day of _____, 2021, by Borough Council of the Borough of Mount Joy, Lancaster County, Pennsylvania, in lawful session duly assembled.

BOROUGH OF MOUNT JOY
Lancaster County, Pennsylvania

Attest: _____
(Assistant) Secretary

By: _____
(Vice) President
Borough Council

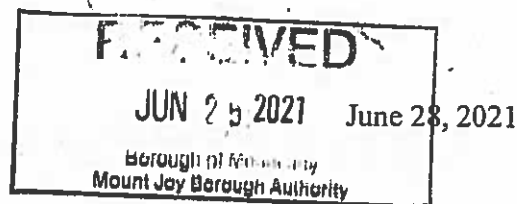
[BOROUGH SEAL]

Examined and approved as an Ordinance this _____ day of _____, 2021.

By: _____
Mayor



Surveyors - Engineers - Landscape Architects



Stacie Gibbs, BCO
Planning, Zoning & Code Administrator
Mount Joy Borough
21 E. Main Street
Mount Joy, PA 17552

SUBJECT: Lancaster County Career & Technology Center – Mount Joy Campus
Final Minor Subdivision Plan Submission
DCG Project Number 4343-21

Dear Ms. Gibbs:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are submitting the Final Minor Subdivision Plan for the proposed improvements. The proposed improvements are located at the existing Lancaster County Career & Technology Center – Mount Joy Campus in Mount Joy Township and Mount Joy Borough. The site is located within the R-1 Low Density Residential zoning district. The total area of the subject property is 70.15 acres.

LCCTC, Mount Joy Borough staff, Mount Joy Township staff, MJBA, and DC Gohn held a pre application meeting on June 8, 2021 to review the proposed two lot subdivision, stormwater, and plan processing. A plan deferral request was previously submitted to Mount Joy Borough which requested the deferral of the subdivision and land development and zoning review to Mount Joy Township. The Borough will review the stormwater design since there is a proposed stormwater facility associated with this project in the Borough.

LCCTC has developed a master plan for the Mount Joy Campus. The master plan will be developed over a period of 30+ years and will consist of approximately 27 single family lots. All of the single family lots are located on the existing subject tract located in Mount Joy Township and are located in the R-1 Low Density Residential zoning district. The site improvements and unit construction for each lot will be completed in approximately 18 to 24 months. The majority of the improvements are completed by LCCTC students as part of the curriculum. After completion, the lots are sold to perspective buyers.

LCCTC is proposing 2 single family residential lots located along Fairview Street. The proposed lots will have a shared driveway which will connect to Fairview Street. There is a future right of way between Lots 1 and 14 which will provide a future street consistent with the overall master plan.

Stormwater will be managed by an infiltration basin. The infiltration basin will infiltrate the net increase in the two year volume and manage the stormwater rate for all of the design storms.

The stormwater facilities are designed to meet the Township and Borough stormwater management requirements and the NPDES permit requirements.

There is an existing sanitary sewer and water main in Fairview Street which will be extended to service the two proposed lots. The existing sewer lateral which services the school will be relocated. A request is being made to the Mount Joy Township Board of Supervisors for the transfer of two (2) EDU's from the Mount Joy Township allotment to LCCTC. As part of the review and approval process, plans will be submitted to MJBA for review.

We submit the following for your review:

1. 3 copies of the Final Minor Subdivision Plan
2. 6 copies 11 x 17 of the Final Minor Subdivision Plan
3. 2 copies of the PCSM Report with drainage maps
4. 2 copies of the Borough stormwater application
5. 2 copies of the Borough rate application
6. 2 copies of the Borough waiver request letter
7. 2 copies of the Township waiver request letter
8. 2 copies of the Township application
9. 2 copies of the zoning hearing board decision
10. 2 copies of the water and sewer feasibility study
11. 2 copies of the water and sewer capacity letter to the Board of Supervisors
12. 2 copies of the sinkhole repair report prepared by ECS
13. 2 copies of the wetland study prepared by Vortex Environmental
14. 2 copies of the Karst Evaluation for Stormwater Management prepared by Lancaster Geology
15. Borough review fees

Sincerely,

D. C. Gohn Associates, Inc.

Brian R. Cooley

Brian R. Cooley
Staff Landscape Architect

Cc: Lancaster County Vo-Tech School Authority, Owner
Lancaster County Planning Commission
Josele Cleary, Esquire, Township/Borough Solicitor
Ben Craddock, PE, Lancaster Civil, Township Engineer
Darrell Becker, PE, ARRO, Borough Engineer
Justin Evans, Mount Joy Township
File

MOUNT JOY BOROUGH

Lancaster County, Pennsylvania



APPLICATION FOR CONSIDERATION OF A SUBDIVISION AND/OR LAND DEVELOPMENT PLAN

The undersigned hereby applies for approval under Chapter 240, Subdivision and Land Development, of the Code of the Borough of Mount Joy for the Plan submitted herewith and described below:

For Mount Joy Borough Use Only

Mount Joy Borough File No: 210004 Date of Receipt/Filing: 5/26/21

Plan & Project Information

Plan Name: FINAL MINOR SUBDIVISION PLAN FOR LANCASTER COUNTY CAREER & TECHNOLOGY	
Plan No: CG-2920	Plan Date: MAY 26 th , 2021
Location: 432 OLD MARKET ST MOUNT JOY PA 17552	
Property Owner: LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY	
Owner Address: 1730 HANS HERR DRIVE WILLOW STREET PA 17584	
Telephone Number: 717-653-3001	
Email: mdelpriore@lanasterctc.edu	
Deed Reference: L-570345	Tax Parcel No: 461-96483-0-0000
Applicant (if not landowner): DR. MICHAEL DELPRIORE	
Applicant Address: 1730 HANS HERR DRIVE WILLOW STREET PA 17584	
Telephone Number: 717-464-7060	
Email: mdelpriore@lanasterctc.edu	
Firm Which Prepared Plan: DC GOHN ASSOCIATES, INC.	
Firm Address: 32 MOUNT JOY ST PO BOX 128 MOUNT JOY PA 17552	
Telephone Number: 717-653-5308	
Person Responsible For Plan: DONOVAN HOLLWAY	
Email: dhollway@dcgohn.com	
Plan Type: <input type="checkbox"/> Sketch Plan <input type="checkbox"/> Change(s) to Recorded Plan	
<input type="checkbox"/> Preliminary Plan & Subdivision <input type="checkbox"/> Land Development <input type="checkbox"/> Lot-Line Change Plan	
<input type="checkbox"/> Final & Preliminary/Final Plan <input type="checkbox"/> Lot-Line Change Plan (expedited)	
<input type="checkbox"/> Improvement Construction Plan <input checked="" type="checkbox"/> Plan Deferral	
Description: 2 LOT SUBDIVISION	
Total Acreage: 65.62 AC	
Zoning District: CONSERVATION	
Is/was a zoning variance, special exception or conditional use approval necessary? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	
If yes, please attach Zoning Hearing Board Decision.	

		Proposed Lots and Units			
	# of Lots	# of Units		# of Lots	# of Units
Total #			Mixed Use		
Commercial			Single Family Detached	2	2
Industrial			Multifamily		
Institutional	1	1	Other		
Total Square Feet of Ground Floor Area (building footprint):			111,800 SF		
Total Square Feet of Existing Structures (all floors):			111,800 SF		
Total Square Feet of Proposed Structures (all floors):			4,288 SF (Lot 1) + 4288 SF (Lot 14)		
Total Square Feet (or Acres) of Proposed Parkland/Other Public Use:					
Linear feet of new street:					
Identify all street(s) not proposed for dedication:					

NOTES:

1. All units of occupancy shall be provided with a complete water supply system which shall be connected to the Borough's water supply system in accordance with the requirements of Council, the Authority and DEP.
2. All units of occupancy shall be provided with a complete sanitary sewer system, which shall be connected to the Borough's sanitary sewer system in accordance with the requirements of Council, the Authority and DEP.
3. The final plan application shall include a statement from the Authority indicating the approval of plans for design, installation, and possible financial guarantees.
4. Applicants shall comply with all plan processing procedures of the County Planning Commission. It is the responsibility of the applicant to determine the requirements of the County Planning Commission, including, but not limited to, the number of copies which must be submitted and the filing fee.
5. The final plan or preliminary/final plan shall be recorded in the office of the Recorder of Deeds in and for Lancaster County.

Submission Requirements

Planning Commission Meeting: 2nd Wednesday of the month, 7:00 PM

Deadline: 2nd Wednesday of the month prior to meeting

Preliminary and Preliminary/Final Plans:

- Three (3) copies of preliminary plan, 24" x 36"
- Six (6) copies of the preliminary plan, 11" x 17"
- Two (2) copies of all reports, notifications, and certifications that are provided on the Plan, including Storm Water Management Plans and calculations.
- One (1) copy of the application form completely and correctly executed, with all information legible, and bearing all required signatures.
- The required filing fee as established from time to time by resolution by the Council.
- An electronic copy of the plan and all supporting documents in PDF format.
- All other items listed under Article VII, Plan Requirements.

Sketch Plans: (Expedited processing of certain plans) The Applicant will have the right to proceed to a preliminary/final plan and forego the preliminary plan phase/processing requirements. Developers are strongly urged, but not required to submit this plan for a proposed land development. This plan will be considered an informal submission, for discussion purposes by Borough staff, the Borough Solicitor, the Borough Engineer and Planning Commission.

- Plan sheets 24" x 36"
- Eight (8) paper copies of the plan.
- Two (2) copies of any supporting documents.
- One (1) electronic copy of the plans and supporting documents.
- Supplemental documents
- One (1) copy of the application form completely and correctly executed, with all information legible, and bearing all required signatures.
- The required filing and review fees as established from time to time by resolution by the Council.

Improvement Construction Plans: An applicant whose improvement construction plan is approved, is permitted to install all or part of the improvement required prior to final plan submission.

- After an applicant has received official notification that the preliminary plan has been approved and the required changes, if any have been made, an application may be processed.
- May be submitted in sections, each section covering a reasonable portion of the entire proposed subdivision, as shown on the approved preliminary plan.
- Applications should be made and processed in accordance with the Preliminary/Final Plan submission requirements above.

Lot Line Change Plan: A plan to shift lot lines or to merge lots.

- A lot-line change plan may be waived from the review by Lancaster County Planning Commission (LCPC) (if the Borough and LCPC agree), if the applicants provide a Lancaster County Appendix 24 form.
- Approval of this plan shall be permitted to file a single application for preliminary/final plan approval.

Changes to Recorded Plans: Any redevelopment or resubdivision, including changes to a recorded plan, shall be considered as a new application and shall comply with all requirements of this chapter, except that changes may be made to a recorded plan, provided that, in making such changes:

- (1) The original application shall have been made for residential purposes, and the residential character and use of the land shall be maintained.
- (2) No lot or tract of land shall be created that does not meet the minimum design standards required by this chapter and other applicable Borough ordinances.
- (3) No structure shall be relocated which does not meet the minimum design standards required by this chapter and other applicable Borough ordinances.
- (4) No increase shall be made in overall density of the development.
- (5) No easements, access drives, rights-of-way or stormwater management facilities shall be changed.
- (6) No street locations, block sizes, or point of access onto an existing Borough or state street shall be changed.

B. In every case where a plan alteration conforms to the above, the applicant shall:

- (1) Submit to the Borough Secretary two paper copies of the revised final plan, one electronic copy, and one application form. Upon review of the revision, the Borough Secretary shall notify the applicant, in writing, whether or not the revision complies with the above requirements.
- (2) If the revision complies, the applicant shall prepare two plans, which shall specifically identify the alterations to the previously recorded plan.
- (3) The applicant shall submit the plan to the Council for certification as specified in Article III of this chapter and to the Borough for signature as specified in § 240-29 of this chapter.
- (4) The plan shall be recorded as specified in § 240-29 of this chapter.

The undersigned hereby represents that, to the best of his/her knowledge and belief, all information listed in this application and on any attached plans or forms is true, correct and complete. The undersigned also authorizes Mount Joy Borough to enter the property in question for a general site inspection. The undersigned agrees to accept and abide by the applicable Ordinances, Resolutions, Rules and Regulations including application fees and reimbursement of Borough review expenses now in effect for the Borough of Mount Joy.

Michael P. DelPriore Jr.
Signature of Applicant
Dr. Michael P. DelPriore Jr.
Printed Name

5/27/2021
Date

Signature of Landowner
(If different than above)

Printed Name

Date

MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE
FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT

PROJECT NAME: <u>FINAL</u> MINOR SUBDIVISION PLAN FOR LCCTC						
PLAN TYPE	RATE SCHEDULE		NO. OF LOTS, ACRES, OR SQ. FT.	CALCULATIONS		
	ADMINISTRATION/APPLICATION FEE	ESCROW FUND		ADMIN./APP. FEE	ESCROW FUND	SUBTOTAL
SKETCH	\$100	\$2,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (1 To 5 Lots or units of Occupancy)	\$150 + \$15/LOT/UNIT	\$2,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (6 to 20 Lots or Units of Occupancy)	\$150 + \$11/LOT/UNIT	\$5,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (21 or more Lots or Units of Occupancy)	\$150 + \$6.50/LOT/UNIT	\$10,000				
NON-RESIDENTIAL SUBDIVISION OR LAND DEVELOPMENT	\$250 + 10/ACRE or fraction thereof + \$10/1,000 SF/BLDG	\$7,500				
LOT-LINE CHANGE (LOT-ADD ON)	\$200	\$2,000				
IMPROVEMENT	\$100	\$2,000				

**MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE
FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT**

CONSTRUCTION PLAN			# of Lots	Admin/APP Fee	Escrow	Subtotal
WAIVER REQUEST TO DEFER PLAN APPROVAL TO ADJOINING MUNICIPALITY	\$100	\$1,000	3 Lots 65.62 Ac	100	1000	1100
WAIVER OF SUBDIVISION AND LAND DEVELOPMENT PLAN PROCESSING	\$150	\$1,500				
WAIVER REQUEST OF SPECIFIC ORDINANCE REQUIREMENT	\$50 EACH	\$500 EACH				
WAIVER OF SWM SITE PLAN	\$150	\$1,500				
SWM SITE PLAN	\$250.00	SAME AS SALDO ABOVE				
TOTALS				100	1000	1100

FOR MOUNT JOY BOROUGH USE ONLY:

TYPE OF PAYMENT	ADMINISTRATIVE/APPLICATION FEE	ESCROW FEE
DATE OF PAYMENT	5/26	5/26
METHOD OF PAYMENT	✓ 58897	✓ 58898
AMOUNT OF PAYMENT	\$162-	\$1600

NOTES:

1. The Administrative/Application Fee is non-refundable.

NEED 2 CHECKS WRITTEN OUT TO

MOUNT JOY BOROUGH.

RESOLUTION NO. 12-13
EFFECTIVE: September 9, 2013

→ 1. \$100 APPLICATION FEE

→ 2. \$1000 ESCROW FEE

**MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE
FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT**

2. If the Escrow Fund is at or falls below 50% of the original amount posted by the applicant, the Borough shall bill the applicant/developer an amount sufficient to restore the Escrow Fund to the original sum deposited.
3. In the event that the balance of the Escrow Fund is insufficient at any time to pay such costs, the Borough shall bill the applicant/developer for the actual or anticipated costs.
4. In the event the Escrow Fund is in excess of the Borough's costs, the Borough shall refund such excess monies, without interest, to the applicant/developer upon request in writing, and upon completion of the development of the property.

21 E MAIN STREET PO BOX 25 MOUNT JOY PA 17552

05/21/2021

Invoice #	Invoice Date PO #	Amount Account Code	Description
ESCROW FEE	05/18/2021	1000.00 10-0147-039-000-30-800-SUB-000-0000	LCCTC SUBDIVISION PLAN DEFERRA

Payment Amount:

1000.00

98-248.112

NON

ABLE

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527
WILLOW STREET, PA 17584
(717) 464-7050

GENERAL FUND

FULTON BANK
LANCASTER, PA 17602

60-142/313
0000058898

05/21/2021

*****1,000.00

PAY One Thousand and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH
21 E MAIN STREET
PO BOX 25
MOUNT JOY PA 17552

VOID AFTER 60 DAYS

Michael J. Craig
James H. Hays

⑈058898⑈ ⑆031301422⑆211819525⑈

21 E MAIN STREET PO BOX 25 MOUNT JOY PA 17552

05/21/2021

Invoice #	Invoice Date	PO #	Amount	Account Code	Description
ADMIN/APP FEE	05/18/2021		100.00	10 0147 030 000 30 000 000	LCCTC SUBDIVISION PLAN DEFERRA

Payment Amount

261.300

NON PAYSABLE

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR
P.O. BOX 527
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(717) 464-7050

GENERAL FUND

FULTON BANK
LANCASTER, PA 17602

60-142/313
0000058897
05/21/2021

*****100.00

PAY One Hundred and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH
21 E MAIN STREET
PO BOX 25
MOUNT JOY PA 17552

VOID AFTER 60 DAYS

Michael J. Craig
James H. Byrnes

⑈058897⑈ ⑆031301422⑆211819525⑈

**BOROUGH OF MOUNT JOY
DEPARTMENT OF PLANNING, ZONING & CODES COMPLIANCE**

**APPLICATION FOR
STORM WATER MANAGEMENT PLAN**



Plan and Permit Fee: \$250.00

At a minimum, the Stormwater Management Plan shall include:

- A narrative summarizing the proposed project, design methods used, and a table comparing post development peak flows with pre-development peak flows.
- A Drainage Area Map with topographical contours showing upstream contributing drainage areas and labeled to coincide with the drainage computations.
- Floodplain and/or floodway boundaries as defined on the Mount Joy Borough Flood Insurance Study, Flood Boundary and Floodway Map, if applicable.
- Inland Wetland boundaries as defined on the Mount Joy Borough Inland Wetlands and Watercourses Map or as field delineated by a soil scientist.
- An inventory and evaluation of on-site hydraulic structures and watercourses within the downstream zone of influence with information on their flow capacity and physical condition. The downstream of influence generally extends to the next two existing structures downstream of the proposed outlet. The Engineer will confirm the exact location of the limit of analysis required.
- Identification of drainage structures and watercourses that are inadequate under existing or reasonably anticipated future conditions.
- Identification of the peak rate of runoff and flow velocities at various key points in the watershed and the relative timing of the peak flow rates.
- Supporting calculations (including times of concentration and runoff coefficients) for all proposed drainage facilities, including but not limited to: piping, structures, riprap, swales, detention basins, drywells, etc.
- Ponding calculations at all low points.
- Identification of aquifers or aquifer zones of contribution within the limits of the project.

The report shall be supplemented with three (3) complete set of construction plans showing, in both plan and profile, all existing and proposed storm drainage features. Tops of frame and invert elevations of all structures are required. Construction details shall also be provided for all drainage structures. Drainage structures and pipe systems shall be labeled to coincide with the drainage calculations.

Electronic copies of drainage computations shall be submitted with the Stormwater Management Plan upon request.

APPLICATION INFORMATION

1. Project Name: Final Minor Subdivision Plan
2. Project Location: Fairview Street, across from Birchland Avenue; existing LLCTC Campus
Parcel Tax Map Number(s): 461-96483-0-0000
3. Project Description: Subdivide 2 proposed lots from parent tract: construct single family house, driveway, sidewalks, stormwater facilities, and other site improvements
Existing Land Use: Institutional No. of Lots/Units: 3 (2 proposed: 1 remaining)
Total Acreage: 65.21
4. Applicant Name(s): Lancaster County Vo-Tech School Authority
Address: 1730 Hans Herr Drive Willow Street, PA 17584
Phone Number: (717) 653-3001 Fax Number: ()
5. Property Owner Name(s): same as applicant
Address: _____
Phone Number: () Fax Number: ()
6. Firm Which Prepared Plan: DC Gohn Associates
Project/Plan Number: 4343-21 Plan Date: June 28, 2021
Name of Contact Person(s) for Plan: Brian R. Cooley
Address: 32 Mount Joy Street Mount Joy, PA 17552
Phone Number: (717) 653-5308 Fax Number: ()
7. Zoning Hearing Board / Conditional Use Approval Date: March 3, 2021 (Mount Joy Township)

AUTHORIZATION / SIGNATURES

The undersigned hereby represents that, to the best of his/her knowledge and belief, all information listed in this application and on any attached plans or forms is true, correct and complete. The undersigned also authorizes the Borough of Mount Joy to enter the property in question for a general site inspection. The undersigned agrees to accept and abide by the applicable Ordinances, Resolutions, Rules and Regulations including application fees and reimbursement of Borough review expenses now in effect for the Borough of Mount Joy.

Michael P. DelPriore Jr.
Signature of Applicant

6/21/2021
Date

Dr. Michael P. DelPriore Jr.
Printed Name

Brian R. Cooley
Signature of Applicant Engineer

6/21/2021
Date

Brian R. Cooley
Printed Name

MJB File No. 210729

(For Borough Use Only)

Date Application Received: 6/25/21 Application Accepted: Yes No*

* Reason(s) for non-acceptance of application: _____

Expiration Date: _____ Extensions/Expiration: _____

Application Fee Paid: ☒ Cash ☐ Check (# _____)

SEE RATE SCHEDULE

MEETING RECORD

Date of Planning Commission Meetings: 7/14/21

Date of Planning Commission Recommendation: 7/14/21

Date of Council Meetings: 8/2/21

Date of Council Action: _____

ADMIN - 7/22/21

LCCD Approval _____ Conditions Acceptance _____ Improvement Guarantee _____

F:\MSOFFICE\RAY\BOROAPPLFRM

**MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE
FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT**

PROJECT NAME:						
PLAN TYPE	RATE SCHEDULE		NO. OF LOTS, ACRES, OR SQ. FT.	CALCULATIONS		
	ADMINISTRATION/APPLICATION FEE	ESCROW FUND		ADMIN./APP. FEE	ESCROW FUND	SUBTOTAL
SKETCH	\$100	\$2,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (1 To 5 Lots or units of Occupancy)	\$150 + \$15/LOT/UNIT	\$2,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (6 to 20 Lots or Units of Occupancy)	\$150 + \$11/LOT/UNIT	\$5,000				
RESIDENTIAL SUBDIVISION or LAND DEVELOPMENT (21 or more Lots or Units of Occupancy)	\$150 + \$6.50/LOT/UNIT	\$10,000				
NON-RESIDENTIAL SUBDIVISION OR LAND DEVELOPMENT	\$250 + 10/ACRE or fraction thereof + \$10/1,000 SF/BLDG	\$7,500				
LOT-LINE CHANGE (LOT-ADD ON)	\$200	\$2,000				
IMPROVEMENT	\$100	\$2,000				

RESOLUTION NO. 12-13
EFFECTIVE: September 9, 2013

**MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE
FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT**

CONSTRUCTION PLAN							
WAIVER REQUEST TO DEFER PLAN APPROVAL TO ADJOINING MUNICIPALITY	\$100	\$1,000					
WAIVER OF SUBDIVISION AND LAND DEVELOPMENT PLAN PROCESSING	\$150	\$1,500					
WAIVER REQUEST OF SPECIFIC ORDINANCE REQUIREMENT	\$50 EACH	\$500 EACH	1 waiver	\$50	\$500	\$550	
WAIVER OF SWM SITE PLAN	\$150	\$1,500					
SWM SITE PLAN	\$250.00	SAME AS SALDO ABOVE		\$250	\$2,000		
TOTALS				\$300	\$2,500	\$2,800	

FOR MOUNT JOY BOROUGH USE ONLY:

TYPE OF PAYMENT	ADMINISTRATIVE/APPLICATION FEE	ESCROW FEE
DATE OF PAYMENT	6/25/21	6/25/21
METHOD OF PAYMENT	✓ 59,375	59,374
AMOUNT OF PAYMENT	\$300	\$2,500

NOTES:

1. The Administrative/Application Fee is non-refundable.

RESOLUTION NO. 12-13
EFFECTIVE: September 9, 2013

**MOUNT JOY BOROUGH ADMINISTRATIVE/APPLICATION FEE AND ESCROW FUND SCHEDULE
FOR SUBDIVISION AND LAND DEVELOPMENT AND STORMWATER MANAGEMENT**

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3. In the event that the balance of the Escrow Fund is insufficient at any time to pay such costs, the Borough shall bill the applicant/developer for the actual or anticipated costs.
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RESOLUTION NO. 12-13
EFFECTIVE: September 9, 2013

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527
WILLOW STREET, PA 17584
(717) 464-7050

GENERAL FUND

FULTON BANK
LANCASTER, PA 17602

60-142/313

0000059375

06/25/2021

*****300.00

PAY Three Hundred and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH
21 E MAIN STREET
PO BOX 25
MOUNT JOY PA 17552

VOID AFTER 60 DAYS

Michael J. Craig
James H. Hoff

⑈059375⑈ ⑆031301422⑆211819525⑈

THIS DOCUMENT HAS A VOID PANTOGRAPH - BORDER CONTAINS MICROPRINTING AND A TRUE WATERMARK - HOLD TO LIGHT TO VERIFY WATERMARK

LANCASTER COUNTY CAREER & TECH CTR

P.O. BOX 527
WILLOW STREET, PA 17584
(717) 464-7050

GENERAL FUND

FULTON BANK
LANCASTER, PA 17602

60-142/313

0000059374

06/25/2021

*****2,500.00

PAY Two Thousand Five Hundred and 00/100 Dollars

To the Order of:

MOUNT JOY BOROUGH
21 E MAIN STREET
PO BOX 25
MOUNT JOY PA 17552

VOID AFTER 60 DAYS

Michael J. Craig
James H. Hoff

⑈059374⑈ ⑆031301422⑆211819525⑈



Surveyors - Engineers - Landscape Architects

June 28, 2021

Stacie Gibbs, BCO
Planning, Zoning & Code Administrator
Mount Joy Borough
21 E. Main Street
Mount Joy, PA 17552

SUBJECT: Lancaster County Career & Technology Center – Mount Joy Campus
Final Minor Subdivision Plan Modification Request
DCG Project Number 4343-21

Ms. Stacie Gibbs:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are requesting the following modification from the Mount Joy Borough Stormwater Management Ordinance.

1. Section 226-37.C.(1).(d).[4] – Swale Side Slopes

We request relief of the requirement that the side slopes of a swale in a residential area shall be 4:1 max. The request is to reduce the slope to 3:1 for Swale 1. Swale 1 is a diversion swale which diverts upland stormwater away from the proposed lots and infiltration basin. The diversion of the upland stormwater also minimizes the loading ratio of the infiltration basin. The swale is located on the remaining lands of the school and will be maintained by the school. The 3:1 slope allows for routine mowing. The swale is stabilized with erosion control matting.

Call me directly if you have any questions or concerns. Thank you.

Sincerely,

D. C. GOHN ASSOCIATES, INC.

Brian R. Cooley

Brian R. Cooley
Staff Landscape Architect

Cc: Lancaster County Vo-Tech School Authority, Owner
Lancaster County Planning Commission
Josele Cleary, Esquire, Township/Borough Solicitor
Ben Craddock, PE, Lancaster Civil, Township Engineer
Darrell Becker, PE, ARRO, Borough Engineer
Justin Evans, Mount Joy Township
File

LAW OFFICES
MORGAN, HALLGREN, CROSSWELL & KANE, P.C.

GEORGE J. MORGAN
WILLIAM C. CROSSWELL
ANTHONY P. SCHIMANECK
JOSELE CLEARY
ROBERT E. SISKI
JASON M. HESS

P. O. BOX 4686
LANCASTER, PENNSYLVANIA 17604-4686
WWW.MHCK.COM

RETIRED
CARL R. HALLGREN
MICHAEL P. KANE
700 NORTH DUKE STREET
TELEPHONE 299-5251
AREA CODE 717
FAX (717) 299-6170
E-MAIL: attorneys@mhck.com

June 30, 2021

VIA E-MAIL

Justin S. Evans, AICP, Township Manager
Mount Joy Township
8853 Elizabethtown Road
Elizabethtown, PA 17022

Stacie M. Gibbs, Planning, Zoning and Code
Administrator
Mount Joy Borough
21 East Main Street
Mount Joy, PA 17552

Re: Final Minor Subdivision for Lancaster County Career & Technology Center
Mount Joy Campus
Our File No. 10221-1

Dear Justin and Stacie:

I have received the Final Minor Subdivision for Lancaster County Career & Technology Center Mount Joy Campus (the "2021 Plan") and the supporting information which D. C. Gohn Associates, Inc. ("D. C. Gohn") submitted to each of you, including the waiver requests. The 2021 Plan proposes subdivision of two lots on the east side of Fairview Street (SR 4035) within the Township and the installation of a storm water infiltration basin in the Borough. I have also reviewed the documentation relating to the Final Minor Subdivision for Lancaster County Career & Technology Center Mount Joy Campus recorded at Document No. 2016-0355-J (the "2016 Plan") subdividing three residential lots on the west side of Old Market Street in the Township. This letter will set forth comments on the 2021 Plan and the documentation required in connection with the 2021 Plan.

Lancaster County Career and Technology Center ("LCCTC") proposes to eventually construct a street extending from Fairview Street to Old Market Street within the Township, and the 2016 Plan created an access easement to provide driveway access to Lot 2 and Lot 3 created by the 2016 Plan at the location of the future street. The 2021 Plan proposes the location of the access easement for Lot 1 and Lot 14 to create a four-way intersection with Birchland Drive. The 2021 Plan proposes the dedication of additional right-of-way along the frontage of Lot 1, Lot 14, and the proposed street within the Township and no additional right-of-way along any other portion of Fairview Street within either the Township or the Borough. The Township and the Borough will have to confirm that this dedication of right-of-way is acceptable.

The 2021 Plan proposes a single storm water management infiltration basin and piping which apparently will serve both the proposed common driveway and the dwellings to be constructed on Lot 1 and Lot 14. Storm Drainage Note 8 on Sheet 5 of the 2021 Plan states

Justin S. Evans, AICP, Township Manager
June 30, 2021
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Stacie M. Gibbs, Planning, Zoning and
Code Administrator

that the infiltration basin has been oversized to account for the possibility of future decks/pools for Lots 1 and 14. It would be best to assign a maximum impervious surface coverage for which the storm water management facilities have been designed for Lots 1 and 14 as was done for the lots created by the 2016 Plan and the Storm Water Management Agreement relating to the 2016 Plan. This will make administration simpler when the future owners of Lots 1 and 14 seek to install additional impervious surface coverage.

Sheet 8 of the 2021 Plan indicates that the lateral to serve the school on the LCCTC property is to be removed and relocated. The note states "proposed school 6" PVC sewer line lateral to follow property boundary". There is no easement shown over Lot 1. While the lateral will not be located on Lot 1, if there is any future maintenance needed for that lateral access onto Lot 1 (and future Lot 2) will be necessary. It would be reasonable for LCCTC to create an easement for that sewer line before Lot 1 is conveyed. Doing so on the 2021 Plan will eliminate the potential for creation of the access to be overlooked when Lot 1 is conveyed.

The 2021 Plan will require a Storm Water Management Agreement and Declaration of Easement. It would be reasonable for the Storm Water Management Agreement to be a four-party agreement among Lancaster Vo-Tech School Authority, now by change of name Lancaster County Career and Technology Center Authority (the "Vo-Tech Authority"), the record owner of the land, LCCTC, the Township and the Borough. The Vo-Tech Authority still owns two of the three lots created by the 2016 Plan, so the Storm Water Management Agreement for the 2021 Plan must expressly state that it does not supersede or revoke the 2016 Storm Water Management Agreement. I have prepared and attach a Storm Water Management Agreement for your review.

LCCTC has requested a waiver of the requirements to improve the Fairview Street frontage along Lots 1 and 14. LCCTC made a similar request concerning improvements to Old Market Street in connection with the 2016 Plan, and the Township, the Vo-Tech Authority, and the Township entered into a Road Improvements Agreement also dated July 26, 2016, which was recorded at Document No. 6283002. I have prepared and attach a Road Improvements Agreement for the 2021 Plan.

The 2021 Plan must contain the note set forth in the Pennsylvania Municipalities Planning Code ("MPC") when there is a proposed intersection with a state highway. The Pennsylvania Department of Transportation ("PennDOT") must grant a highway occupancy permit for the intersection of what is now proposed as a common driveway and will eventually become a through street. PennDOT may, or may not, require the additional right-of-way shown on the 2021 Plan to it. If PennDOT will not require the Vo-Tech Authority to convey additional right-of-way to it, then the additional right-of-way may be conveyed to the Township. Please let me know if I should prepare documentation to convey the additional right-of-way to the Township.

Justin S. Evans, AICP, Township Manager
June 30, 2021
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Stacie M. Gibbs, Planning, Zoning and
Code Administrator

If you have any questions concerning any of these comments or the attached documents, please contact me. I will await the direction of the Township and/or the Borough before taking any further action concerning this matter

Very truly yours,


Josele Cleary

JC:sle
MUNI\10221-1\210628\71

Attachments

cc: Benjamin S. Craddock, P.E. (via e-mail; w/attachments)
Darrell L. Becker, P.E. (via e-mail; w/attachments)
Brian R. Cooley, Landscape Architect (via e-mail; w/attachments)

Prepared by: Morgan, Hallgren, Crosswell & Kane, P.C.
700 North Duke Street, P. O. Box 4686
Lancaster, PA 17604-4686
(717) 299-5251
Return to: Same
Parcel I.D. #: 461-59458-0-0000

STORM WATER MANAGEMENT AGREEMENT AND DECLARATION OF EASEMENT

THIS AGREEMENT AND DECLARATION OF EASEMENT made this _____ day of _____, 2021, between and among **LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY**, now by change of name **LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER AUTHORITY**, a municipality authority organized and operating under the laws of the Commonwealth of Pennsylvania with its administrative offices located at Hans Herr Drive, Willow Street, Pennsylvania 17584, hereinafter referred to as the "Authority"; **LANCASTER COUNTY CAREER and TECHNOLOGY CENTER**, an area vocational-technical school formed by School Districts of Lancaster County, with its administrative offices located at Hans Herr Drive, Willow Street, Pennsylvania 17584, hereinafter referred to as the "LCCTC"; **MOUNT JOY TOWNSHIP**, Lancaster County, Pennsylvania, a municipal corporation duly organized under the laws of the Commonwealth of Pennsylvania, with its municipal office located at 8853 Elizabethtown Road, Elizabethtown, Pennsylvania, hereinafter referred to as the "Township"; and **MOUNT JOY BOROUGH**, Lancaster County, Pennsylvania, a municipal corporation organized under the laws of the Commonwealth of Pennsylvania, with its municipal office located at 21 East Main Street, Mount Joy, Pennsylvania, hereinafter referred to as the "Borough".

BACKGROUND

The Authority is the record owner of land located on the east side of Fairview Street (SR 4035) which is a portion of a larger tract identified as Lancaster County Tax Account No. 461-59458-0-0000 (the "Premises") located principally within Mount Joy Township, Lancaster County, Pennsylvania, and partially within Mount Joy Borough, Lancaster County, Pennsylvania, by virtue of a deed recorded in Deed Book L, Volume 57, Page 345, in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania. The LCCTC is the lessee of the Premises under a Lease Agreement dated as of October 7, 1998 (the "Lease"). Pursuant to the terms of the

Lease, LCCTC has developed the Premises with educational facilities. LCCTC has submitted an application to the Mount Joy Township Planning Commission for approval to subdivide two lots from the portion of the Premises on the east side of Fairview Street north of the municipal boundary between Mount Joy Township and Mount Joy Borough shown on the Final Minor Subdivision Plan for Lancaster County Career & Technology Center Mount Joy Campus prepared by D.C. Gohn Associates, Inc., Drawing No. CG-2920, Project No. 4343-21 dated June 25, 2021, last revised _____, 2021 (the "Plan"). Hereinafter the Authority and the LCCTC shall be jointly referred to as the "Grantor". The Plan additionally proposes the installation of storm water management facilities within the Borough.

The Mount Joy Township Storm Water Management Ordinance and the Mount Joy Borough Storm Water Management Ordinance (collectively the "Ordinances" and individually as to each municipality "Ordinance") requires that Grantor's plan reflect and/or be accompanied with supporting documentation which identifies the ownership of, and the method of administering and maintaining, all permanent storm water management facilities. Drainage courses, swales, grassed waterways, storm water inlets, pipes, conduits, detention basins, retention basins, infiltration structures, and other storm water management facilities, including Best Management Practices facilities ("BMPs"), shall be included under the term "storm water management facilities" in this Agreement and Declaration of Easement.

The purpose of this Agreement and Declaration of Easement is to describe the ownership and maintenance responsibilities for the storm water facilities which will be installed on the Premises and to impose the ownership and maintenance responsibilities upon Grantor, its successors and assigns and upon successor owners of the Premises, and set forth the rights of the Township.

NOW, THEREFORE, intending to be legally bound hereby and in consideration of receiving approval of its Plan from the Township, and in consideration of receiving permits from the Township and the Borough to develop the Premises, Grantor, for Grantor and the successors and assigns of Grantor, covenant and declare as follows:

1. The storm water facilities will be owned by Grantor, its successors and assigns.
2. All drainage courses, swales, storm water inlets, pipes, conduits, detention basins BMPs, and other storm water facilities shall be installed, constructed and maintained by Grantor, its successors and assigns, in a first-class condition in conformance with the Plan, including the

storm water management plans and information, approved by the Township Planning Commission, and in a manner sufficient to meet or exceed the performance standards and specifications set forth on the Plan. These responsibilities shall include, but not be limited to, the following:

(a) Liming, fertilizing, seeding and mulching of vegetated channels and all other unstablized soils or areas according to the specifications in the "Erosion and Sediment Pollution Control Manual" published by the Pennsylvania Department of Environmental Protection, the Penn State Agronomy Guide, or such similar accepted standard.

(b) Reestablishment of vegetation by seeding and mulching or sodding of scoured areas or areas where vegetation has not been successfully established.

(c) Mowing as necessary to maintain adequate strands of grass and to control weeds. Chemical weed control may be used if federal, state and local laws and regulations are met. Selection of seed mixtures shall be subject to approval by the Township.

(d) Removal of silt from all permanent structures which trap silt or sediment in order to keep the material from building up in grass waterways, pipes, detention or retention basins, infiltration structures, BMPs, and/or other facilities and thus reducing their capacity.

(e) Removal of silt from all permanent drainage structures, in particular BMPs, in order to maintain the design storage volumes. Regular programs shall be established and maintained.

(f) Regular inspection of the areas in question to assure proper maintenance and care, including but not limited to proper implementation of BMPs. Grantor shall inspect the infiltration basin and amended soils areas at least once each April, at least once each October, and within 48 hours after each rainfall event exceeding one inch of precipitation in 24 hours for erosion problems, vegetation damage, sediment and debris accumulation, and litter.

(g) Regular maintenance to insure that all pipes, swales and detention facilities shall be kept free of any debris or other obstruction.

(h) Regular maintenance of all facilities designed to improve water quality to insure that such facility function in accordance with their design. Grantor shall remove accumulations of sediment greater than three inches in depth and immediately stabilize

disturbed area. Grantor shall remove sediment during periods when rutting will be minimal. Grantor shall also prune vegetation and weed rain gardens to insure safety, aesthetics, proper operation, and removal of invasive/noxious vegetation.

(i) Repair of any subsidence, including subsidence caused by sinkholes.

Grantor, its successors and assigns, shall be responsible for performing the foregoing maintenance.

3. Grantor, for itself, its successors and assigns, agrees that the failure to maintain all drainage courses, swales, storm water inlets, pipes, conduits, detention basins, BMPs, and other storm water management facilities in a first-class condition in conformance with this Agreement and the Plan shall constitute a nuisance and shall be abatable by the Township, or the Borough, as applicable, as such.

4. Grantor, for itself, its successors and assigns, authorize the Township or the Borough, as applicable, at any time and from time to time, by its authorized representatives, to enter upon the Premises to inspect the storm water facilities.

5. The Township or the Borough, as applicable, may require that Grantor, and assigns or any future owner or occupier of the Premises or any part thereof, take such corrective measures as the Township or the Borough, as applicable, may deem reasonably necessary to bring the Premises into compliance with this Agreement and with the Plan.

6. Upon the failure of the owner or occupier of the Premises or any part thereof to comply with the terms of this Storm Water Management Agreement or to take corrective measures following 60 days' written notice from the Township or the Borough, as applicable, the Township or the Borough, as applicable, through its authorized representatives, may take such corrective measures as it deems reasonably necessary to bring the Premises into compliance with this Agreement and with the Plan, including, but not limited to, the removal of any blockage or obstruction from drainage pipes, swales, detention basins, and BMPs, and may charge the cost thereof to Grantor, its successors and assigns, or any owner of the Premises or any part thereof and, in default of such payment, may cause a municipal lien to be imposed upon the Premises or any part thereof. Any municipal lien filed pursuant to this Agreement shall be in the amount of all costs incurred by the Township or the Borough, as applicable, plus a penalty of ten (10%) of such costs, plus the Township or the Borough's reasonable attorneys' fees.

7. Grantor hereby imposes upon the Premises for the benefit of all present and future owners of the Premises or part of the Premises, the Township and the Borough, and all other

property owners affected by installation of the storm water facilities, the perpetual right, privilege and easement for the draining of storm water in and through the drainage courses, swales, storm water inlets, pipes, conduits, detention basins, BMPs, and other storm water facilities depicted on the plan or plans submitted to the Township or the Borough or hereafter made of record and now or hereafter installed on or constructed upon the Premises and, in addition, easements of access to the storm water facilities.

8. The storm water management facilities have been designed to allow a maximum impervious surface coverage of _____ square feet on Lot 1, and _____ square feet on Lot 14 to be created from the Premises. If the owner of any lot to be created from the Premises desires to install additional impervious surface coverage, such lot owner must submit an application under the Storm Water Management Ordinance in effect at such time as the application is filed and meet all applicable storm water management regulations.

9. Grantor agrees to indemnify the Township, the Borough, and all of their elected and appointed officials, agents and employees (hereafter collectively referred to as the "Indemnitees") against and hold Indemnitees harmless from any and all liability, loss or damage, including attorneys' fees and costs of investigation and defense, as a result of claims, demands, costs or judgments against Indemnitees which arise as a result of the design, installation, construction or maintenance of the storm water facilities.

10. Grantor's personal liability under this Agreement shall cease at such time as (a) all storm water management facilities have been constructed in accordance with the specifications of the Ordinances and the approved Plan; (b) the storm water management facilities have been inspected and approved by the Township Engineer and Borough Engineer, as applicable; (c) all financial security, including any maintenance security, posted by Grantor has been released by the Township and the Borough; and (d) Grantor has transferred all lots to be created from the Premises to third parties. Notwithstanding the foregoing, Grantor's personal liability shall continue for any violations of this Agreement and Declaration of Easement which occurred during the time that Grantor owned the Premises or any lot created from the Premises or in the event the storm water management facilities were not completed, inspected or approved as set forth in (a) through (c) herein.

11. It is the intent of the parties to this Agreement that personal liability and maintenance obligations shall pass to subsequent title owners upon change in ownership of the Premises or any

lot created from the Premises, and such subsequent owners shall assume all personal liability and maintenance obligations for the time period during which they hold title. Personal liability shall remain for any violations of this Agreement and Declaration of Easement which occurred during the period in which an owner held title.

12. The Township and/or the Borough may, in addition to the remedies prescribed herein, proceed with any action at law or in equity to bring about compliance with its Ordinance and this Agreement.

13. This Agreement and Declaration of Easement shall be binding upon the Grantor, the successors and assigns of Grantor, and all present and future owners of the Premises or any part thereof and is intended to be recorded in order to give notice to future owners of the Premises of their duties and responsibilities with respect to the storm water facilities. Grantor shall include a specific reference to this Agreement in any deed of conveyance for the Premises or any part thereof.

14. This Agreement and Declaration of Easement may be amended only by written instrument signed on behalf of all owners of the Premises, the Township, and the Borough.

15. The Storm Water Management Agreement and Declaration of Easement among Lancaster County Vo-Tech School Authority, now by change of name Lancaster County Career and Technology Center Authority, Lancaster County Career and Technology Center, and the Township dated July 26, 2016, and recorded August 18, 2016, at Document No. 6283004 in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania, relating to the Final Minor Subdivision for Lancaster County Career & Technology Center Mount Joy Campus recorded at Document No. 2016-0355-J in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania, shall remain in full force and effect, unaltered by this Agreement.

16. When the sense so requires, words of any gender used in this Agreement and Declaration of Easement shall be held to include any other gender, and the words in the singular number shall be held to include the plural, and vice versa.

IN WITNESS WHEREOF, the undersigned have caused this Agreement and Declaration to be executed on the day and year first above written.

LANCASTER COUNTY VO-TECH SCHOOL
AUTHORITY, now by change of name
LANCASTER COUNTY CAREER AND
TECHNOLOGY CENTER AUTHORITY

Attest: _____

By: _____
Name: _____
Title: _____

[AUTHORITY SEAL]

LANCASTER COUNTY CAREER and
TECHNOLOGY CENTER

Attest: _____

By: _____
Name: _____
Title: _____

TOWNSHIP OF MOUNT JOY
Lancaster County, Pennsylvania

Attest: _____
(Assistant) Secretary

By: _____
(Vice) Chairman
Board of Supervisors

[TOWNSHIP SEAL]

BOROUGH OF MOUNT JOY
Lancaster County, Pennsylvania

Attest: _____
(Assistant) Secretary

By: _____
(Vice) President
Borough Council

[BOROUGH SEAL]

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF LANCASTER)

On this _____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____ who acknowledged _____ self to be _____ of Lancaster County Vo-Tech School Authority, now by change of name Lancaster County Career and Technology Center Authority, and that he/she, as such officer, being authorized to do so, executed the foregoing Storm Water Management Agreement and Declaration of Easement, for the purposes therein contained, by signing the name of such Authority by _____ self as such officer.

IN WITNESS WHEREOF, I set my hand and official seal.

Notary Public

My commission expires:

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF LANCASTER)

On this _____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____ who acknowledged _____ self to be _____ of Lancaster County Career and Technology Center's Joint Operating Committee, and that he/she, as such officer, being authorized to do so, executed the foregoing Storm Water Management Agreement and Declaration of Easement, for the purposes therein contained, by signing the name of such Association by _____ self as such officer.

IN WITNESS WHEREOF, I set my hand and official seal.

Notary Public

My commission expires:

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF LANCASTER)

On this ____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____ who acknowledged _____ self to be (Vice) Chairman of the Board of Supervisors of the Township of Mount Joy, Lancaster County, Pennsylvania, and that s/he, as such officer, being authorized to do so, executed the foregoing Storm Water Management Agreement and Declaration of Easement, for the purposes therein contained, by signing the name of such Township by _____ self as such officer.

IN WITNESS WHEREOF, I set my hand and official seal.

Notary Public

My commission expires:

COMMONWEALTH OF PENNSYLVANIA)
) SS:
COUNTY OF LANCASTER)

On this _____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____ who acknowledged _____ self to be (Vice) President of Borough Council of the Borough of Mount Joy, Lancaster County, Pennsylvania, and that s/he, as such officer, being authorized to do so, executed the foregoing Storm Water Management Agreement and Declaration of Easement, for the purposes therein contained, by signing the name of such Borough by _____ self as such officer.

IN WITNESS WHEREOF, I set my hand and official seal.

Notary Public

My commission expires:

Prepared by: Morgan, Hallgren, Crosswell & Kane, P.C.
700 North Duke Street, P. O. Box 4686
Lancaster, PA 17604-4686
(717) 299-5251
Return to: Same
Parcel I.D. #: 461-59458-0-0000

ROAD IMPROVEMENTS AGREEMENT

THIS AGREEMENT made as of the _____ day of _____, 2021, between and among **LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY**, now by change of name **LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER AUTHORITY**, a municipality authority organized and operating under the laws of the Commonwealth of Pennsylvania with its administrative offices located at Hans Herr Drive, Willow Street, Pennsylvania 17584, hereinafter referred to as the "Authority"; **LANCASTER COUNTY CAREER and TECHNOLOGY CENTER**, an area vocational-technical school formed by School Districts of Lancaster County, with its administrative offices located at Hans Herr Drive, Willow Street, Pennsylvania 17584, hereinafter referred to as the "LCCTC"; and **MOUNT JOY TOWNSHIP**, Lancaster County, Pennsylvania, a municipal corporation duly organized under the laws of the Commonwealth of Pennsylvania, with its municipal office located at 8853 Elizabethtown Road, Elizabethtown, Pennsylvania, hereinafter referred to as the "Township".

BACKGROUND:

The Authority is the record owner of land located on the east side of Fairview Street (SR 4035) which is a portion of a larger tract identified as Lancaster County Tax Account No. 461-59458-0-0000 (the "Premises") located principally within Mount Joy Township, Lancaster County, Pennsylvania, and partially within Mount Joy Borough, Lancaster County, Pennsylvania, by virtue of a deed recorded in Deed Book L, Volume 57, Page 345, in the Office of the Recorder of Deeds in and for Lancaster County, Pennsylvania. The LCCTC is the lessee of the Premises under a Lease Agreement dated as of October 7, 1998 (the "Lease"). Pursuant to the terms of the Lease, LCCTC has developed the Premises with educational facilities. LCCTC has submitted an application to the Mount Joy Township Planning Commission for approval to subdivide two lots from the portion of the Premises on the east side of Fairview Street north of the municipal boundary between Mount Joy Township and Mount Joy Borough shown on the Final Minor Subdivision Plan for Lancaster County Career & Technology Center Mount Joy Campus prepared by D.C. Gohn Associates, Inc., Drawing No. CG-2920, Project No. 4343-21 dated June 25, 2021, last revised _____, 2021 (the "Plan"). Hereinafter the Authority and the LCCTC shall be jointly referred to as the "Developer".

The Township Subdivision and Land Development Ordinance requires that persons

developing land make certain improvements to the abutting street including, but not limited to, the installation of curb and sidewalk. Developer has requested that the Township grant Developer waivers from these requirements of the Subdivision and Land Development Ordinance. The Township has granted such waivers conditioned upon Landowner making the improvements in the future when the Township requests Landowner to do so or reimbursing the Township for such costs if the Township makes the improvements. The purpose of this Agreement is to place these understandings on record.

NOW, THEREFORE, for and in consideration of the mutual promises contained herein, and intending to be legally bound hereby, the parties agree as follows:

1. The foregoing background recitals are incorporated into and made a substantive part of this Agreement.

2. Developer acknowledges that Developer is required to install all improvements required by Sections 119-53.B and 119-53.C of the Township Subdivision and Land Development Ordinance, a copy of which is attached hereto as Exhibit "A" and incorporated herein, along the Fairview Street frontage of the Premises and along the access drive on the Premises within six months after receipt of notice by the Township to install such improvements. The Township may, at the option of the Township, allow installation of a shared use path in lieu of curb and sidewalk along the frontage of Fairview Street. All improvements to the Fairview Street frontage shall meet all applicable Township regulations. If Developer does not install the improvements required under Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance within six (6) months after the date of notification from the Township to install such improvements, the Township may enter on the Premises and install the improvements. Developer shall reimburse the Township for all expenses the Township incurs in the installation of such improvements within thirty (30) days after the date of an invoice for such costs. If Developer fails to pay such invoice, the Township shall be entitled to file a municipal lien against the Premises for such costs and the Township's attorneys' fees in the preparation and filing of such municipal claim.

3. If the Township or the Pennsylvania Department of Transportation undertakes any project to improve Fairview Street before Developer has installed the improvements required by Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance, the Township may install such improvements as part of its project. The Township shall forward an invoice to Developer for the costs of improvements required by Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance which the Township installed as part of its project. If Developer does not pay such invoice in full within thirty (30) days of the date of the invoice, the Township may file a municipal lien against the Premises for such costs and all attorneys' fees incurred in the preparation and filing of the municipal lien.

4. This Agreement shall be binding upon Developer, its successors and assigns, and all

present and future owners of the Premises or any part thereof and is intended to be recorded in order to give notice to future owners of the Premises of their duties and responsibilities with respect to the installation of improvements required under Sections 119-53.B and 119-53.C of the Subdivision and Land Development Ordinance.

5. This Agreement may be amended only by written instrument signed on behalf of all owners of the Premises and the Township.

6. When the sense so requires, words of any gender used in this Agreement shall be held to include any other gender, and the words in the singular number shall be held to include the plural, and vice versa.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be executed on the day and year first above written.

LANCASTER COUNTY VO-TECH SCHOOL
AUTHORITY, now by change of name
LANCASTER COUNTY CAREER AND
TECHNOLOGY CENTER AUTHORITY

Attest: _____

By: _____
Name: _____
Title: _____

[AUTHORITY SEAL]

LANCASTER COUNTY CAREER and
TECHNOLOGY CENTER

Attest: _____

By: _____
Name: _____
Title: _____

TOWNSHIP OF MOUNT JOY
Lancaster County, Pennsylvania

Attest: _____
(Assistant) Secretary

By: _____
(Vice) Chairman
Board of Supervisors

[TOWNSHIP SEAL]

COMMONWEALTH OF PENNSYLVANIA)

SS:

)

On this ____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____ who acknowledged ____ self to be _____ of Lancaster County Vo-Tech School Authority, now by change of name Lancaster County Career and Technology Center Authority, and that he/she, as such officer, being authorized to do so, executed the foregoing instrument, for the purposes therein contained, by signing the name of such Authority by ____ self as such officer.

IN WITNESS WHEREOF, I set my hand and official seal.

Notary Public

My commission expires:

COMMONWEALTH OF PENNSYLVANIA)

) SS:

)

On this _____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____ who acknowledged _____ self to be _____ of Lancaster County Career and Technology Center's Joint Operating Committee, and that he/she, as such officer, being authorized to do so, executed the foregoing instrument, for the purposes therein contained, by signing the name of such entity by _____ self as such officer.

IN WITNESS WHEREOF, I set my hand and official seal.

Notary Public

My commission expires:

COMMONWEALTH OF PENNSYLVANIA)

COUNTY OF LANCASTER)

On this _____ day of _____, 2021, before me, the undersigned officer, a notary public in and for the aforesaid Commonwealth and County, personally appeared _____, who acknowledged _____ self to be (Vice) Chairman of the Board of Supervisors of the Township of Mount Joy, Lancaster County, Pennsylvania, and that he/she, as such officer, being authorized to do so, executed the foregoing Agreement, for the purposes therein contained, by signing the name of such Township by _____ self as such officer.

Executed before me the day and year aforesaid.

Notary Public

My commission expires:



MOUNT JOY TOWNSHIP

LANCASTER COUNTY, PENNSYLVANIA

Application for Consideration of a Subdivision and/or Land Development Plan

For Mount Joy Township Use Only:

M.J.T.P.C. File No.:	Date of Receipt/Filing:
School District: Donegal	Elizabethtown

The undersigned hereby applies for approval under Chapter 119, Subdivision and Land Development, of the Code of the Township of Mount Joy for the Plan submitted herewith and described below:

Plan & Project Information

Plan Name: Final Minor Subdivision			
Plan No.: 4343-21	Plan Date: June 28, 2021		
Location: Fairview Street, across from Birchland Avenue			
Property Owner: Lancaster County Vo-Tech School Authority			
Owner Address: 1730 Hans Herr Drive Willow Street, PA 17584			
Telephone No.: 717-653-3001			
E-mail: mdelpriore@lancasterctc.edu			
Deed Reference: L-570345		Tax Parcel No.: 461-96483-0-0000	
Plan Type:	Sketch	Preliminary	X Final
	Lot Line Change	Minor Agricultural or Land Development	
Description: Subdivide 2 proposed lots from parent tract. Construct 2 single family houses, sidewalks, driveway, stormwater facilities, and other site improvements.			
Zoning District: R-1 Low Density Residential			
Is a zoning change necessary? n/a		If yes, please specify:	
Is/was a zoning variance, special exception, or conditional use approval necessary?		X	If yes, attach ZHB decision.
Total Acreage: 65.62			
Name of applicant (if other than owner): same as owner			
Address:			
Telephone No.:			
E-mail:			
Firm which prepared plan: DC Gohn Associates			
Address: 32 Mount Joy Street Mount Joy, PA 17552			
Phone No.: 717-653-5308			
Person responsible for plan: Brian R. Cooley			
E-mail: bcooley@dcgoth.com			

♦ SUPERVISORS ♦ PARK & RECREATION BOARD ♦ PLANNING COMMISSION ♦ ZONING HEARING BOARD

8853 ELIZABETHTOWN ROAD, ELIZABETHTOWN, PA 17022
PHONE (717) 367-8917 - FAX (717) 367-9208
www.mtjoytwp.org

Proposed Lots and Units

	# of Lots	# of Units		# of Lots	# of Units
Total #	3		Mixed Use		
Agricultural			Single Family Detached	2	
Commercial			Multifamily (attached-sale)		
Industrial			Multifamily (attached-rental)		
Institutional	1		Other:		
Total Square Feet of Ground Floor Area (building footprint):				120,556	
Total Square Feet of Existing Structures (all floors):				111,980	
Total Square Feet of Proposed Structures (all floors):				17,152	
Total Square Feet (or Acres) of Proposed Parkland/Other Public Use:				0	
Linear feet of new street:				0	
Identify all street(s) not proposed for dedication:			All streets private		

Type of water supply proposed:

<input checked="" type="checkbox"/>	Public (Live)		Community
<input type="checkbox"/>	Public (Capped)		Individual

Type of sanitary sewage disposal proposed:

<input checked="" type="checkbox"/>	Public (Live)		Community
<input type="checkbox"/>	Public (Capped)		Individual

The undersigned hereby represents that, to the best of his knowledge and belief, all information listed above is true, correct and complete.

Michael P. O'Connell
Signature of Landowner of Applicant

6/21/2021
Date

WATER AND SEWER FEASIBILITY REPORT

For

LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER - MOUNT JOY CAMPUS

DCG Project No.: 4343-21

Mount Joy Township/Mount Joy Borough
Lancaster County, PA

June 28, 2021

REVISIONS



Surveyors – Engineers – Landscape Architects

32 Mount Joy Street P.O. Box 128
Mount Joy, PA 17552

OUR BENCHMARK IS QUALITY

(717) 653-5308

The purpose of this report is to provide for the water and sewer feasibility of the proposed 2 lot subdivision associated with the Final Minor Subdivision Plan for Lancaster County Career and Technology Center – Mount Joy Campus.

Sanitary Sewer:

The type of sanitary sewer disposal is public through the Mount Joy Borough Authority. The existing sewer main in Fairview Street will be extended to service the two lots.

Water System:

The type of water service is public through the Mount Joy Borough Authority. The existing water main in Fairview Street will be extended to service the two lots.

A request is being made to the Mount Joy Township Board of Supervisors for the transfer of two (2) EDU's from Mount Joy Township allotment to LCCTC for the construction of two dwellings. There is adequate capacity in the existing system to accommodate the 2 single family residential units.



Surveyors - Engineers - Landscape Architects

June 28, 2021

Mr. Justin Evans
Township Manager/Zoning Officer
Mount Joy Township
8853 Elizabethtown Road
Elizabethtown, PA 17022

SUBJECT: Lancaster County Career & Technology Center – Mount Joy Campus
Final Minor Subdivision Plan Modification Requests
DCG Project Number 4343-21

Dear Mr. Evans:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are requesting the following modifications from the Mount Joy Township Subdivision and Land Development Ordinance and Stormwater Management Ordinance.

Subdivision and Land Development Ordinance

1. Section 119-32.C.(2) – Traffic Impact Study

We request relief from the requirement to provide a traffic study for all residential subdivisions containing 20 or more units. Section 119-32.C.(2)(a) requires that the number of dwelling units shall be computed based upon all phases of a development planned and that the traffic study and report be completed and submitted with the first phase.

There are 2 proposed single family units associated with this project. It is projected that each unit and associated sitework will take 18 to 24 months to complete. LCCTC incorporates the construction of each unit and sitework into their curriculum and the students construct the units during the Fall and Spring semesters. There is no summer school. It is anticipated that the 2 units will be completed in approximately 4 years. The 2 single family units will have a nominal traffic impact.

The master plan for LCCTC is based on the development of 27 single family units. Based on the construction schedule for each unit, the total build out of the project would be approximately 38 years. The 27 units are being developed at different areas of the property. It is anticipated that traffic impacts over the entire life of the project will vary from what exists today and over the next 4 years for the development of the two proposed lots.

2. Section 119-52.J.(3)(a) – Improvement of Existing Streets

We request relief from the requirement to improve existing streets where a subdivision abuts an existing street. The street shall be improved to the ultimate width in accordance with Subsection J or as indicated on the Township Official Map, whichever is greater, and additional right of way shall be provided, concrete curb and sidewalk, and any other street improvements shall be constructed.

As an alternative to the improvement of the existing street, the applicant is requesting to enter into a deferred road improvement agreement with the Township related to the construction of curb, sidewalk, and additional cartway width. There is proposed right of way provided along the two proposed lots which will be offered for dedication to the Township. The existing cartway width of Fairview Street is approximately 10 feet wide along the frontage of the two lots which provides adequate width for traffic along the existing street. The 2 single family units will have a nominal traffic impact. There is no existing sidewalk along either side of Fairview Street along the subject property. A proposed sidewalk along Fairview Street for the two lots would create a short segment of sidewalk for which there is no connection point for pedestrians along the north and south side of Fairview Street.

3. Section 119-53.B(1) and 119-53.B(2) – Sidewalks

We request relief from the requirement that sidewalks are required on both sides of a new street and access drive subject to Section 119-52.J(3)(a) which states that where a subdivision abuts an existing street, the street shall be improved to the ultimate width, curb, sidewalk, and any other improvements required by the SALDO shall be constructed. The request is to defer sidewalk along Fairview Street.

Currently, there is no sidewalk on either side of Fairview Street along the subject property. There is no existing sidewalk along either side of Fairview Street along the subject property. A proposed sidewalk along Fairview Street for the two lots would create a short segment of sidewalk for which there is no connection point for pedestrians along the north and south side of Fairview Street.

4. Section 119-53.C – Curbs

We request relief of the requirement that concrete curb shall be provided for all subdivisions along street frontage. The request is to defer curb along Fairview Street.

There is no curbing along Fairview Street along the two proposed lots or the subject property. Stormwater from Fairview Street currently sheet flows to the existing grass and riprap apron and drains to the existing swale located in Rotary Park. There is a proposed bypass pipe which diverts upland stormwater away from the two proposed lots and Fairview Street. The existing condition does not create any ponding of stormwater. The addition of curbing would create the unnecessary need for additional inlets and storm sewer along Fairview Street which will convey stormwater to the same location as it currently drains to.

5. Section 119-61 – Park and Rec Fee

We request relief of the requirement that all residential subdivisions shall provide for suitable and adequate recreation. The requirement is 0.054 acre per lot. There are 2 proposed lots for a total of 0.108 acres of proposed park and rec areas. LCCTC provided Cove Outlook Park to Mount Joy Township which is approximately 30 acres and Rotary Park to Mount Joy borough which is approximately 12 acres. The parks provide areas for recreation, walking trails, parking areas and other park amenities. The existing parks exceed the requirements of the park and rec fee for the 2 proposed lots.

Stormwater Management Ordinance

1. Section 113-37.C.(1).(d).[4] – Swale Side Slopes

We request relief of the requirement that the side slopes of a swale in a residential area shall be 4:1 max. The request is to reduce the slope to 3:1 for Swale 1. Swale 1 is a diversion swale which diverts upland stormwater away from the proposed lots and infiltration basin. The diversion of the upland stormwater also minimizes the loading ratio of the infiltration basin. The swale is located on the remaining lands of the school and will be maintained by the school. The 3:1 slope allows for routine mowing. The swale is stabilized with erosion control matting.

2. Section 113-43.I(6) – Existing Stormwater Management Facilities

We request relief of the requirement to provide all existing stormwater management facilities on the site. Field survey was conducted in the areas of the improvements and all existing features are shown within this area. There are existing stormwater facilities which exist on site but are not within the project area. These facilities do not impact the overall stormwater design for this project.

We respectfully request your consideration of the requested modifications.

Sincerely,

D. C. Gohn Associates, Inc.



Brian R. Cooley
Staff Landscape Architect

Cc: Lancaster County Vo-Tech School Authority, Owner
Lancaster County Planning Commission
Josele Cleary, Esquire, Township/Borough Solicitor
Ben Craddock, PE, Lancaster Civil, Township Engineer
Darrell Becker, PE, ARRO, Borough Engineer
Stacie Gibbs, Mount Joy Borough
File



Surveyors - Engineers - Landscape Architects

June 28, 2021

Board of Supervisors
Mount Joy Township
8853 Elizabethtown Road
Elizabethtown, PA 17022

SUBJECT: Lancaster County Career & Technology Center – Mount Joy Campus
Final Minor Subdivision Plan Water and Sewer Capacity Request
DCG Project Number 4343-21

Dear Chairman of the Board of Supervisors:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are submitting the sewer and water capacity requests for the proposed site improvements. The project will consist of 2 proposed lots which will each contain a single family unit. The water and sewer main in Fairview Street will be extended to service the two lots. Lancaster County Career & Technology Center students will construct the units as part of the education curriculum. After completion, the unit is sold to a perspective buyer. The buildout of the LCCTC residential lots was factored into the EDU allocations that were part of the 2019 agreement with MJBA.

Per Mount Joy Borough Authority, one water EDU is represented as being 171 gallons per day and one sewer EDU is represented as being 237 gallons per day. The two single family units will each require one EDU for water and sewer. As a result, we are requesting the allocation of two EDU's for this project.

Sincerely,

D. C. Gohn Associates, Inc.

Brian R. Cooley

Brian R. Cooley
Staff Landscape Architect

Cc: Lancaster County Vo-Tech School Authority, Owner
MJBA
ARRO, MJBA Engineer
File



Vortex Environmental, Inc.

ENVIRONMENTAL CONSULTANTS

June 23, 2021

Mr. Brian R. Cooley, ASLA
D.C. Gohn & Associates, Inc.
32 Mount Joy Street
P.O. Box 128
Mount Joy, PA 17552-0128

RE: WETLAND INVESTIGATION FOR THE LANCASTER COUNTY CAREER & TECHNOLOGY CENTER - LOTS 1 & 14 PROJECT; MOUNT JOY CAMPUS, MOUNT JOY BOROUGH AND MOUNT JOY TOWNSHIP, LANCASTER COUNTY, PENNSYLVANIA

Dear Brian:

Vortex Environmental, Inc. has conducted a wetland investigation within an approximately 5.5-acre study area on the Lancaster County Career & Technology Center – Mount Joy Campus for the proposed Lots 1 & 14 Project located along Fairview Road in Mount Joy Borough and Mount Joy Township, Lancaster County, Pennsylvania. Two (2) single family buildings lots and associated infrastructure are proposed within the study area for the project. The approximately 5.5-acre study area is located east of Fairview Road at its intersection with Birchland Avenue in the west-central portion of the school campus (Figure 1). The purpose of this investigation was to determine the presence or absence of "waters of the United States and Commonwealth" within the study area for this project. Waters of the United States and Commonwealth include lakes, ponds, reservoirs, swamps, marshes, wetlands, rivers and/or streams (including intermittent streams). One (1) intermittent stream channel (Watercourse 1 – UNT to the Little Chiques Creek) was identified within the northwestern portion of the study area for the project.

The approximately 5.5-acre study area is generally situated in the west-central portion of the overall school campus property. There are no existing buildings or structures within the study area. The vegetation within the approximately 5.5-acre study area for this project consists of cultivated agricultural lands, mixed deciduous forest, and mowed lawn. An unnamed tributary to the Little Chiques Creek (Watercourse 1) was observed flowing from north to south through the northwestern portion of the study area. No wetlands were observed within or immediately adjacent to the study area for the project.

The investigation of the study area included an examination of background materials and a field investigation. The background information examined included the Columbia West, PA 7.5-minute USGS topographic quadrangle, aerial photographs, and the Online Web Soils Survey for Lancaster County, PA (<http://websoilsurvey.nrcs.usda.gov/app>). The field investigation was conducted on May 4, 2021 by Bradley J. Gochner of Vortex Environmental, Inc. The soils, hydrology, and vegetation within the study area were examined for wetland characteristics in accordance with the United States Army Corps of Engineers Wetland Delineation Manual (1987) and the Regional Supplement to the Corps

of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region –
Version 2.0 (April 2012).

Vegetation

The vegetation within the study area consisted of cultivated agricultural lands, mixed deciduous forest and mowed lawn. The cultivated agricultural lands dominated the study area and consisted of harvested soybean fields. The associated vegetation within the agricultural lands consisted of common chickweed, field garlic, purple deadnettle, Kentucky bluegrass, corn stubble and soybean stubble. The mixed deciduous forest was observed within the northwestern portion the study area. The mixed deciduous forest vegetation consisted of unidentified bluegrass, English ivy, field garlic, garlic mustard, jewelweed, Japanese honeysuckle, common barberry, unidentified blackberry, multiflora rose, poison ivy, Tartarian honeysuckle, black cherry, black walnut, box-elder and common hackberry. The mowed lawn was observed in the western portion of the study area along Fairview Road. The mowed lawn vegetation consisted of Kentucky bluegrass, unidentified fescue, smooth crabgrass, common dandelion, gill over ground, common chickweed, Indian strawberry and white clover. No areas dominated by wetland vegetation were observed within the approximately 5.5-acre study area during the field investigation.

Soils

Two soil series including three soil types; Duffield silt loam, DbA; Hagerstown silt loam, HaA and HaB; exist within the study area according to the Soil Survey for Lancaster County, PA (Figure 3). These soil series are not listed as having any major hydric characteristics according to the Hydric Soils of the United States and the "Hydric Soils of Lancaster County". The Duffield silt loam soil series is listed as having possible inclusions of hydric characteristics. No hydric soils were observed within the approximately 5.5-acre study area for the project.

Hydrology

Hydrology within the study area is generally conveyed via overland sheet flow to the west, where it drains into an existing storm water drainage swale along Fairview Road. This drainage swale conveys storm water from north to south along the roadway. The drainage swale discharges to a larger storm water drainage swale to the south of the study area. An intermittent stream channel (UNT to the Little Chiques Creek) was observed in the northwestern portion of the study area. This intermittent stream channel originates to the northwest of the study area, then drains south along Fairview Road into the northwestern portion of the study area. This is a losing stream channel, that ends at an existing sinkhole in the northwestern portion of the study area. Hydrology not captured within the sinkhole is

Mr. Brian R. Cooley, ASLA
June 23, 2021
Page 3

conveyed to the south within the existing storm water drainage swale. The existing sinkhole was recently mitigated by a geologist. No wetlands or areas of wetland hydrology were observed within the study area for the project.

Conclusion

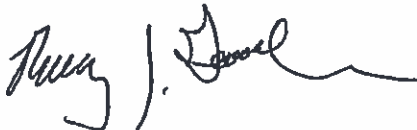
Vortex Environmental, Inc. examined background information and conducted a field investigation to determine the presence or absence of "waters of the United States and Commonwealth" within the approximately 5.5-acre study area for the LCCTC - Lots 1 & 14 Project located along Fairview Road in Mount Joy Borough and Mount Joy Township, Lancaster County, Pennsylvania. The background information for the project did indicate the possibility of "waters of the United States and Commonwealth" within the study area. Vortex Environmental, Inc. conducted a wetland investigation within the study area and identified one (1) regulated feature including; an intermittent stream channel (Watercourse 1 – UNT to the Little Chiques Creek). This losing stream channel is located in the northwestern portion of the study area.

Based on the May 4, 2021 field investigations, Vortex Environmental, Inc. concludes that one (1) "waters of the United States and Commonwealth", exists within the approximately 5.5-acre study area for the LCCTC - Lots 1 & 14 Project, consisting of the intermittent stream channel (Watercourse 1). The location of this regulated feature is shown on the attached site plan. No wetlands were observed within or immediately adjacent to the approximately 5.5-acre study area for the project.

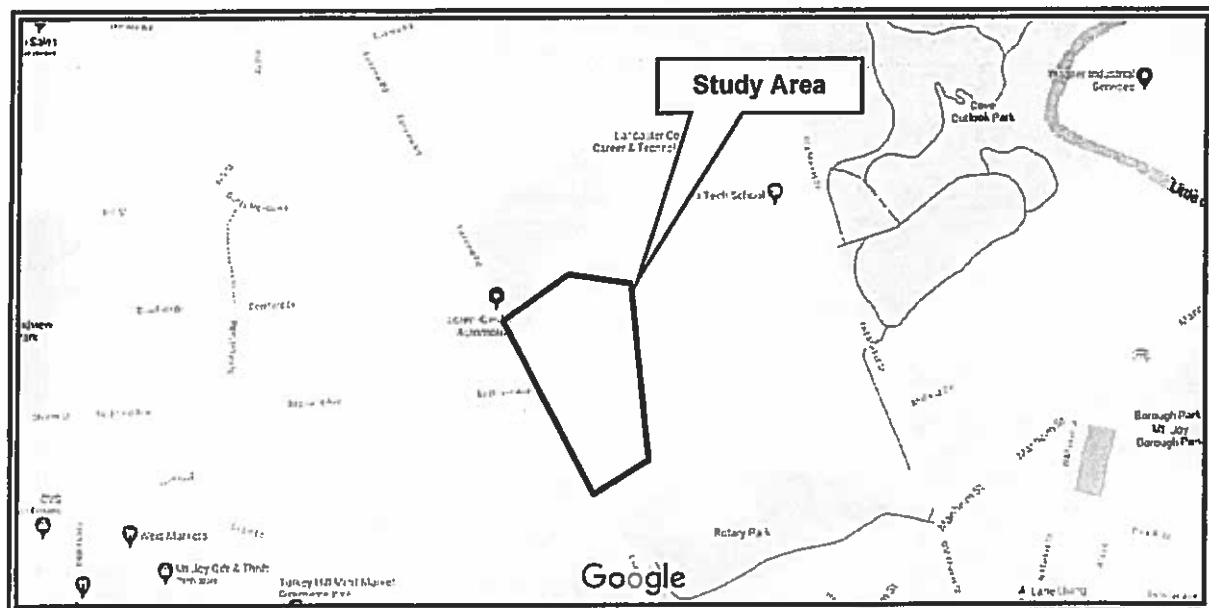
If there are any questions regarding this project, please feel free to contact me.

Sincerely,

VORTEX ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read "Brady J. Gochner", with a stylized flourish at the end.

Brady J. Gochner
President

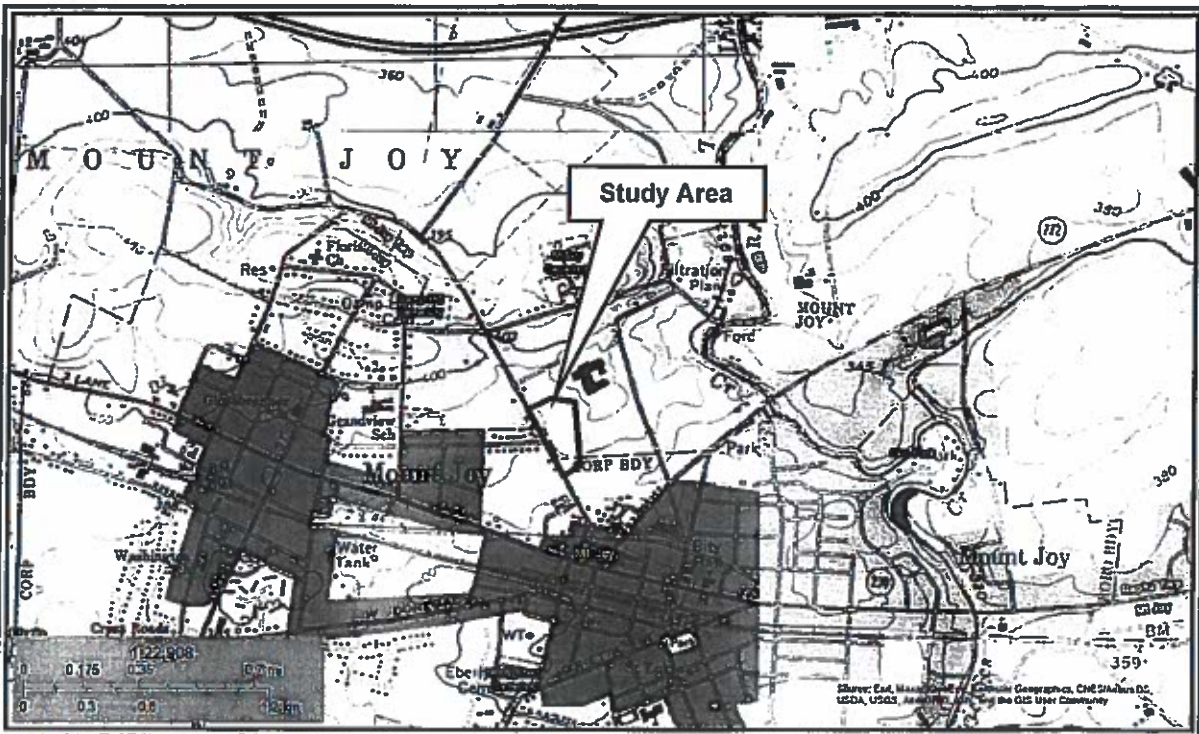


Legend:
Study Area Boundary ———

NOT TO SCALE

Figure 1: Site Map for the LCCTC - Lots 1 & 14 Project
Google Maps
Google.com
Mount Joy Borough and Mount Joy Twp., Lancaster Co., PA

VORTEX ENVIRONMENTAL, INC.

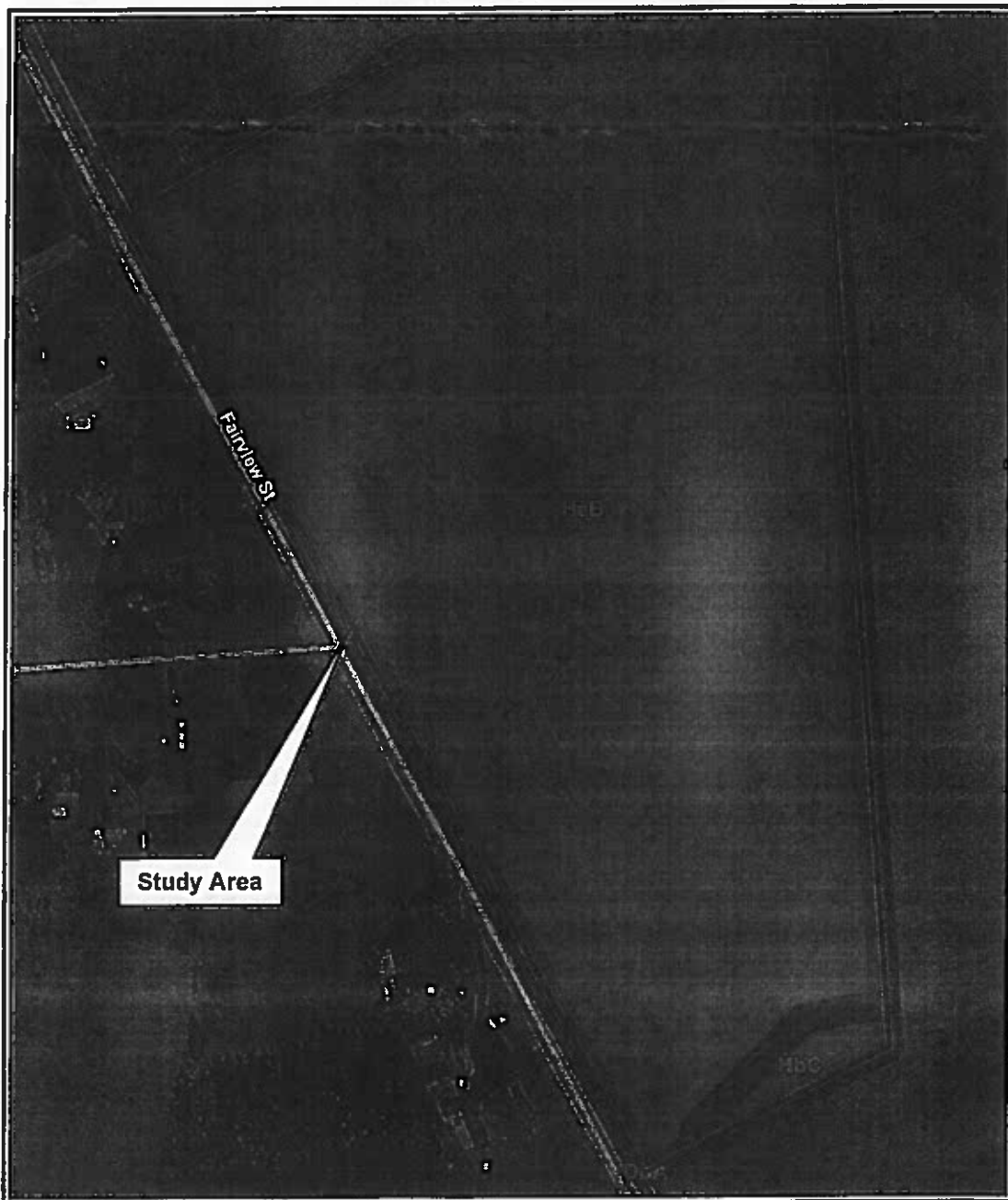


Legend:
Study Area Boundary ———

NOT TO SCALE

Figure 2: USGS Map for the LCCTC - Lots 1 & 14 Project
Columbia West, PA, 7.5-minute USGS Topographic Quadrangle
1964, Photo Revised 1990
Mount Joy Borough and Mount Joy Twp., Lancaster Co., PA

VORTEX ENVIRONMENTAL, INC.

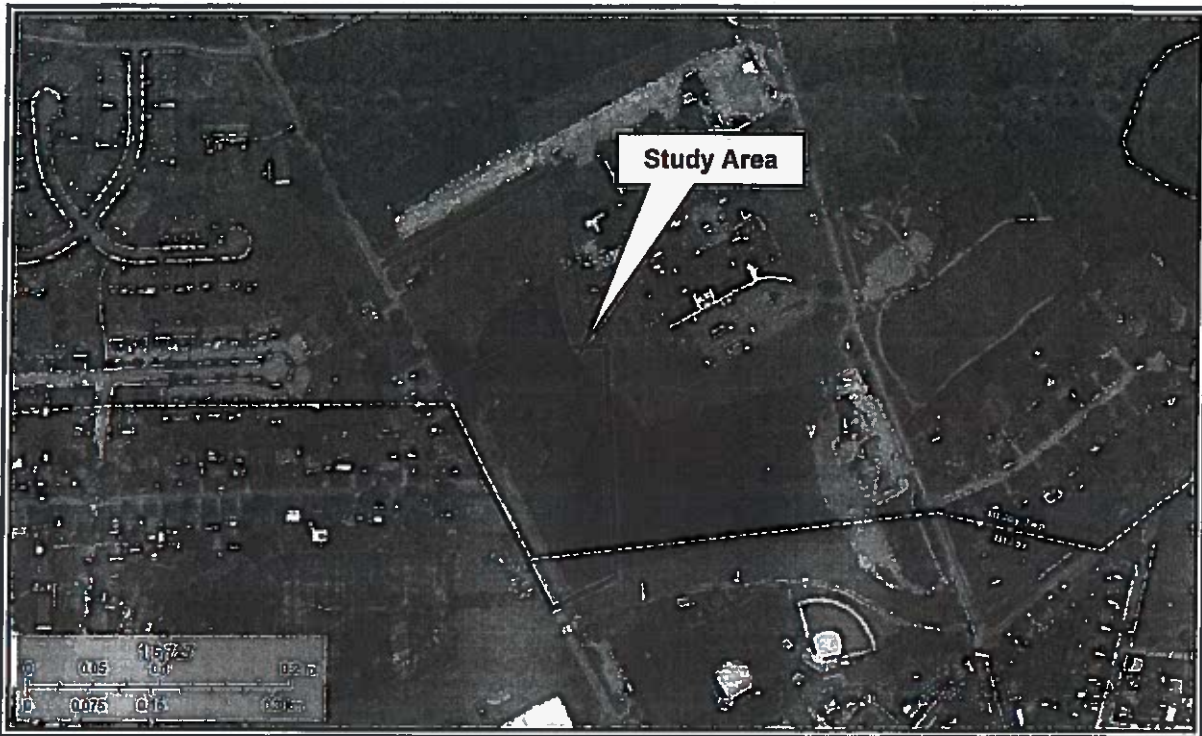


Legend:
Study Area Boundary ———

NOT TO SCALE

Figure 3: Soil Map for the LCCTC - Lots 1 & 14 Project
Online Web Soil Survey of Lancaster County, PA
<http://websoilsurvey.nrcs.usda.gov/app>
Mount Joy and Mount Joy Twp., Lancaster Co., PA

VORTEX ENVIRONMENTAL, INC.



Legend:
Study Area Boundary ———

NOT TO SCALE

Figure 4: NWI Map for the LCCTC - Lots 1 & 14 Project
U.S. Fish and Wildlife Service Wetlands Online Wetland Mapper
<http://wetlandsfws.er.usgs.gov/NWI/index.html>
Mount Joy Borough and Mount Joy Twp., Lancaster Co., PA

VORTEX ENVIRONMENTAL, INC.

DATA SHEETS
(1 – 3)

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont (DRAFT)

Project/Site: LCCTC - Lots 1 & 14 Project City/County: Lancaster Sampling Date: May 4, 2021
 Applicant/Owner: Lancaster County Career & Technology Center State: PA Sampling Point: 1
 Investigator(s): Bradly J. Gochner Section, Township, Range: Mount Joy Township
 Landform (hillside, terrace, etc.): stream bank Local relief (concave, convex, none): none
 Slope (%): 4% Lat: 40.115448 Long: 76.509379 Datum: UTM
 Soil Map Unit Name: HaB NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: Mixed deciduous forest adjacent to Watercourse 1 in the northwestern portion of the study area

VEGETATION - Use scientific names of plants.

Tree Stratum: (Plot Size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Juglans nigra (Black Walnut)</u>	<u>55</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
2. <u>Acer negundo (Box-elder)</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
3. <u>Celtis occidentalis (Common Hackberry)</u>	<u>15</u>	<input type="checkbox"/>	<u>FACU</u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>

90 = Total Cover

Sapling/Shrub Stratum: (Plot Size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Rubus sp (Blackberry sp)</u>	<u>15</u>	<input type="checkbox"/>	<u>N</u>
2. <u>Lonicera tatarica (Tatarian Honeysuckle)</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
3. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>

40 = Total Cover

Herb Stratum: (Plot Size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Poa sp. (Unidentified Bluegrass)</u>	<u>15</u>	<input type="checkbox"/>	<u>N</u>
2. <u>Allium vineale (Field Garlic)</u>	<u>5</u>	<input type="checkbox"/>	<u>FACU</u>
3. <u>Impatiens capensis (Jewelweed)</u>	<u>25</u>	<input checked="" type="checkbox"/>	<u>FACW</u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>

45 = Total Cover

Woody Vine Stratum: (Plot Size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			

Remarks:

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC 50% (A/B)

Prevalence Index worksheet:

Total % Cover of: Multiply by:

OBL species x1=

FACW species x2=

FAC species x3=

FACU species x4=

UPL species x5=

Totals: (A) (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is > 50%
- ☐ Prevalence Index is 3.0¹
- ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

SOIL

Sampling Point : 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type *	Loc**		
0-8	10YR 4/3	100					Silt Loam	
8-16	10YR 4/4	100					Silt Loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

**Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon
☐ Black Histic
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10) (LRR N)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface
☐ Sandy Mucky Mineral (S1) (LRR N, MRLA 147, 148)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)

- ☐ Dark Surface (S7)
☐ Polyvalue Below Surface (S8)(MRLA 147, 148)
☐ Thin Dark Surface (S9)(MRLA 147, 148)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Iron-Manganese Masses (F12)(LRR N, MLRA 136)
☐ Umbric Surface (F13) (MRLA 136, 122)
☐ Piedmont Floodplain Soils (F19)(MLRA 148)

Indicators for Problematic Soils: ***

- ☐ 2cm Muck (A10) (MLRA147)
☐ Piedmont Floodplain Soils(F19)(MLRA 136, 147)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

*** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed and problematic.

Restrictive Layer (if observed):

Type:

Hydric Soil Present? Yes ☐ No ☒

Depth:

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B13)
☐ Aquatic Fauna (B13)

- ☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres or Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two Required)

- ☐ Surface Soil Cracks (B6)
☐ Sparsely Vegetated Concave Surface (B8)
☐ Drainage Patterns (B10)
☐ Moss Trim Lines (B16)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ Microtopographic Relief (D4)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches): _____Water Table Present? Yes ☐ No ☒ Depth (inches): _____Saturation Present? Yes ☐ No ☒ Depth (inches): _____

(Includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Mixed deciduous forest.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont (DRAFT)

Project/Site: LCCTC - Lots 1 & 14 Project City/County: Lancaster Sampling Date: May 4, 2021
 Applicant/Owner: Lancaster County Career & Technology Center State: PA Sampling Point: 2
 Investigator(s): Bradly J. Gochner Section, Township, Range: Mount Joy Township
 Landform (hillslope, terrace, etc.): drainage swale Local relief (concave, convex, none): concave
 Slope (%): 4% Lat: 40.114733 Long: -76.509082 Datum: UTM
 Soil Map Unit Name: HaB NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Remarks: Mowed lawn within existing storm water drainage swale along Fairview Road.

VEGETATION - Use scientific names of plants.

Tree Stratum: (Plot Size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
3. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			
Sapling/Shrub Stratum: (Plot Size: 15')		Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
3. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			
Herb Stratum: (Plot Size: 5')	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Taraxacum officinale (Dandelion)</u>	<u>5</u>	<input type="checkbox"/>	<u>FACU</u>
2. <u>Festuca sp (Fescue sp)</u>	<u>15</u>	<input type="checkbox"/>	<u>NI</u>
3. <u>Poa pratensis (Kentucky Bluegrass)</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
4. <u>Trifolium repens (White Clover)</u>	<u>20</u>	<input checked="" type="checkbox"/>	<u>FACU</u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u>100</u> = Total Cover			
Woody Vine Stratum: (Plot Size: 30')	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index worksheet:

Total % Cover of: Multiply by:

OBL species x1=

FACW species x2=

FAC species x3=

FACU species x4=

UPL species x5=

Totals: (A) (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

☐ Rapid Test for Hydrophytic Vegetation

☐ Dominance Test is > 50%

☐ Prevalence Index is 3.0*

☐ Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation* (Explain)

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks:

SOIL

Sampling Point : 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type *	Loc**		
0-16	10YR 4/3	100					Silt Loam	

*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

**Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon
☐ Black Histic
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10) (LRR N)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface
☐ Sandy Mucky Mineral (S1) (LRR N, MRLA 147, 148)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)

- ☐ Dark Surface (S7)
☐ Polyvalue Below Surface (S8)(MRLA 147, 148)
☐ Thin Dark Surface (S9)(MRLA 147, 148)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Iron-Manganese Masses (F12)(LRR N, MLRA 136)
☐ Umbric Surface (F13) (MRLA 136, 122)
☐ Piedmont Floodplain Soils (F19)(MLRA 148)

Indicators for Problematic Soils: ***

- ☐ 2cm Muck (A10) (MLRA147)
☐ Piedmont Floodplain Soils(F19)(MLRA 136, 147)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

*** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed and problematic.

Restrictive Layer (if observed):

Type:

Depth:

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required, check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B13)
☐ Aquatic Fauna (B13)

- ☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres or Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two Required)

- ☐ Surface Soil Cracks (B6)
☐ Sparsely Vegetated Concave Surface (B8)
☐ Drainage Patterns (B10)
☐ Moss Trim Lines (B16)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ Microtopographic Relief (D4)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒Water Table Present? Yes ☐ No ☒Saturation Present? Yes ☐ No ☒

(Includes capillary fringe)

Depth (inches): _____

Depth (inches): _____

Depth (inches): _____

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Mowed lawn within drainage swale.

WETLAND DETERMINATION DATA FORM - Eastern Mountains and Piedmont (DRAFT)

Project/Site: CCTC - Lots 1 & 14 Project City/County: Lancaster Sampling Date: May 4, 2021
 Applicant/Owner: Lancaster County Career & Technology Center State: PA Sampling Point: 3
 Investigator(s): Brady J. Gochner Section, Township, Range: Mount Joy Township
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none
 Slope (%): 5% Lat: 40.115334 Long: -76.508569 Datum: UTM
 Soil Map Unit Name: HaB NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Wetland Hydrology Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks: Cultivated agricultural lands (harvested soybean) in the central portion of the study area			

VEGETATION - Use scientific names of plants.

Tree Stratum: (Plot Size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
3. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			
Sapling/Shrub Stratum: (Plot Size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
3. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			
Herb Stratum: (Plot Size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Stellaria media (Common Chickweed)</u>	<u>5</u>	<input type="checkbox"/>	<u>UPL</u>
2. <u>Zea mays (Corn Stubble)</u>	<u>10</u>	<input type="checkbox"/>	<u>UPL</u>
3. <u>Glycine max (Soybean Stubble)</u>	<u>25</u>	<input type="checkbox"/>	<u>FACU</u>
4. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
5. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
6. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
7. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
8. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
9. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u>40</u> = Total Cover			
Woody Vine Stratum: (Plot Size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
2. <u> </u>	<u> </u>	<input type="checkbox"/>	<u> </u>
<u> </u> = Total Cover			

Dominance Test worksheet:	
Number of Dominant Species That Are OBL, FACW, or FAC:	<u>0</u> (A)
Total Number of Dominant Species Across All Strata:	<u>1</u> (B)
Percent of Dominant Species That Are OBL, FACW, or FAC	<u>0%</u> (A/B)

Prevalence Index worksheet:	
Total % Cover of:	Multiply by:
OBL species <u> </u>	x1= <u> </u>
FACW species <u> </u>	x2= <u> </u>
FAC species <u> </u>	x3= <u> </u>
FACU species <u> </u>	x4= <u> </u>
UPL species <u> </u>	x5= <u> </u>
Totals:	(A) <u> </u> (B) <u> </u>
Prevalence Index = B/A = <u> </u>	

Hydrophytic Vegetation Indicators:	
<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
<input type="checkbox"/> Dominance Test is > 50%	
<input type="checkbox"/> Prevalence Index is 3.0 *	
<input type="checkbox"/> Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)	
<input type="checkbox"/> Problematic Hydrophytic Vegetation* (Explain)	
* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---------------------------------	---

Remarks:

SOIL

Sampling Point : 3

Profile Description: (Describes to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type *	Loc**		
0-16	10YR 4/4	100					Silt Loam	

*1Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

**Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon
☐ Black Histic
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10) (LRR N)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface
☐ Sandy Mucky Mineral (S1) (LRR N, MRLA 147, 148)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S8)

- ☐ Dark Surface (S7)
☐ Polyvalue Below Surface (S9)(MRLA 147, 148)
☐ Thin Dark Surface (S9)(MRLA 147, 148)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Iron-Manganese Masses (F12)(LRR N, MLRA 136)
☐ Umbric Surface (F13) (MRLA 136, 122)
☐ Piedmont Floodplain Soils (F19)(MLRA 148)

Indicators for Problematic Soils: ***

- ☐ 2cm Muck (A10) (MLRA147)
☐ Piedmont Floodplain Soils(F19)(MLRA 136, 147)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

*** Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed and problematic.

Restrictive Layer (if observed):

Type:

Depth:

Remarks:

Hydric Soil Present? Yes ☐ No ☒

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required: check all that apply)

- ☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Water-Stained Leaves (B13)
☐ Aquatic Fauna (B13)

- ☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres or Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two Required)

- ☐ Surface Soil Cracks (B8)
☐ Sparsely Vegetated Concave Surface (B8)
☐ Drainage Patterns (B10)
☐ Moss Trim Lines (B16)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ Microtopographic Relief (D4)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒Water Table Present? Yes ☐ No ☒Saturation Present? Yes ☐ No ☒

(Includes capillary fringe)

Depth (inches): _____

Depth (inches): _____

Depth (inches): _____

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Agricultural land - harvested soybean.

PHOTOGRAPHS
(A - L)



Photo A. Northern view of the road frontage along Fairview Road, which forms the western boundary of the study area.



Photo B. Northeastern view of the mowed lawn within the existing storm water drainage swale in the western portion of the study area.



Photo C. Southern view of the road frontage along Fairview Road.



Photo D. Northern view of the cultivated agricultural lands in the central portion of the study area.

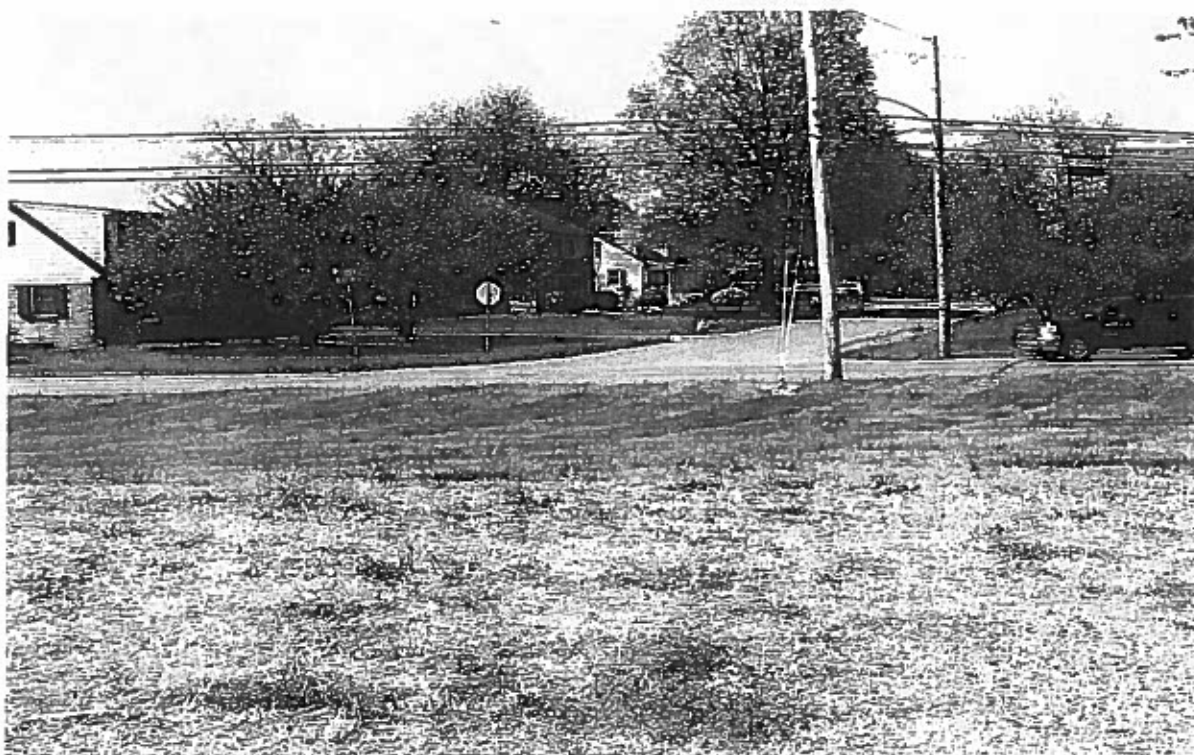


Photo E. Southwestern view of the cultivated agricultural lands and mowed lawn in the western portion of the study area.

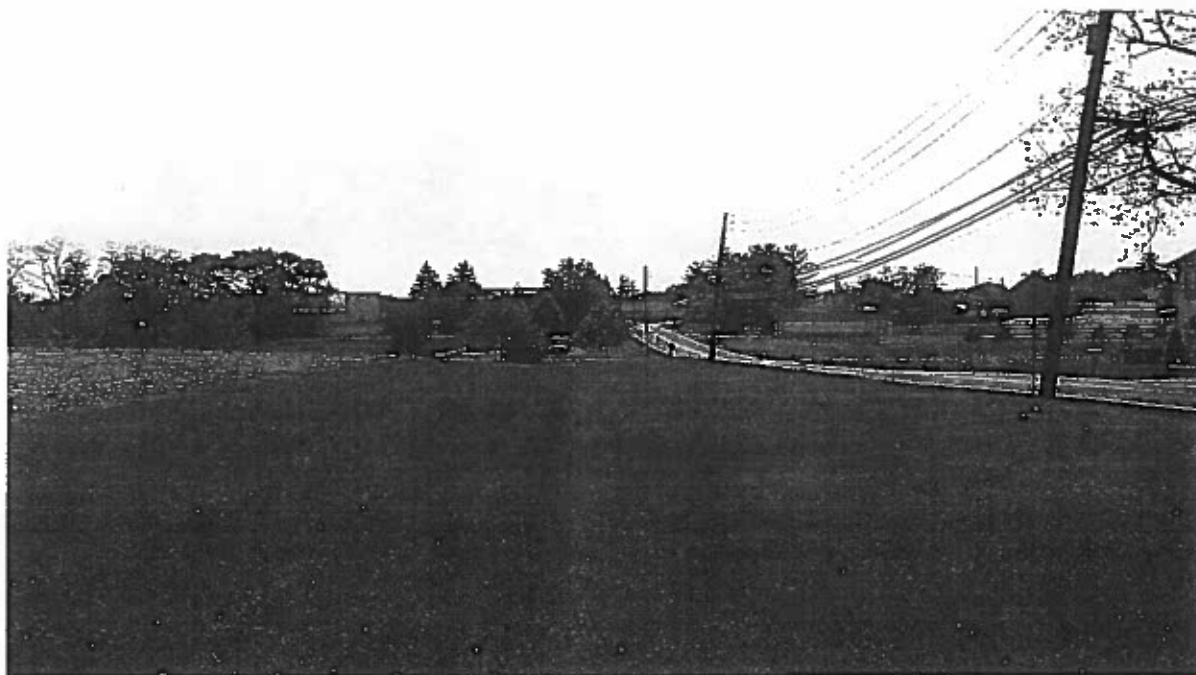


Photo F. Southern view of the mowed lawn within the existing storm water drainage swale in the western portion of the site.



Photo G. Northeastern view of the cultivated agricultural lands in the central portion of the study area.



Photo H. Southwestern view of the cultivated agricultural lands in the central portion of the study area.



Photo I. Northwestern view of the cultivated agricultural lands and mixed deciduous forest in the northern portion of the study area.



Photo J. Northern view of the intermittent stream channel (Watercourse 1) in the northwestern portion of the study area.

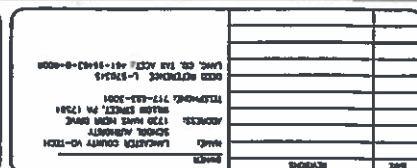


Photo K. Northern view of the intermittent stream channel (Watercourse 1) in the northwestern portion of the study area.



Photo L. Northern view of the existing sinkhole that drains the intermittent stream channel (Watercourse 1) in the northwestern portion of the study area.

SITE PLAN



RESUME

BRADLY J. GOCHNAUER

EXPERIENCE

2004-Present	Vortex Environmental, Inc. President
2003	RETTEW Associates, Inc. Senior Biologist
1997-2002	Vortex Environmental Partner
1993-1997	Landstudies, Inc. Environmental Scientist

Mr. Gochnauer has been involved in environmental research and consulting for eighteen (18) years. He has conducted environmental studies throughout Pennsylvania, Maryland, Delaware, and New Jersey.

Mr. Gochnauer has conducted wetland delineations using the Federal Manual for Identifying and Delineating Jurisdictional Wetlands and analysis of soils, vegetation, and hydrology to determine the extent of regulatory jurisdiction. He has compiled and prepared numerous state and federal permit applications for a variety of residential commercial and industrial projects.

Mr. Gochnauer has prepared many wetland mitigation and wetland restoration plans. He has designed several stream stabilization and stream corridor enhancement projects. He has also been involved in the restoration of dredge spoil areas. Mr. Gochnauer managed the biological control program for Purple Loosestrife in the State of Pennsylvania. Mr. Gochnauer has been certified by the Maryland Department of Natural Resources as a qualified professional to perform and review Forest Stand Delineations, and Forest Conservation Plans as per the requirements of COMAR 08.19.65.51.

EDUCATION

The Pennsylvania State University, State College, PA.
Bachelor of Science - Environmental Resource Management, 1992.

CONTINUING EDUCATION

PAEP, Phase I Bog Turtle Program, 2003, 2004
SAIC, Freshwater Wetland Construction, 1999
Pennsylvania State University; Construction of Treatment Wetlands; 1995
Maryland DNR; Forest Conservation and Stormwater Workshop; 1995
Rutgers State University of New Jersey; Stabilization and Restoration of
Disturbed Sites, 1995
Pennsylvania State University; Stormwater Runoff and Water Quality Management
Conference, 1994
Glen Flora Preserve; Carex, Gramineae, and Composite identifications; 1994.



MOUNT JOY TOWNSHIP

• Lancaster County, Pennsylvania •

8853 Elizabethtown Road, Elizabethtown, PA 17022
717.367.8917 • 717.367.9208 fax
www.mtjoytwp.org

March 5, 2021

Lancaster County Career & Technology Center
c/o Michael DelPriore
1730 Hans Herr Drive
Willow Street, PA 17584

Lancaster County Vo-Tech School Authority
1730 Hans Herr Drive
Willow Street, PA 17584

Re: Mount Joy Township Zoning Hearing Board – Lancaster County Career & Technology Center
432 Old Market Street, Mount Joy
Zoning Case No. 210004

Dear Mr. DelPriore –

As a result of a public hearing held on March 3, 2021, the Mount Joy Township Zoning Hearing Board (the “Board”) voted unanimously to grant the following requests on the Application for the property located at 432 Old Market Street, Mount Joy, PA 17552, Tax Parcel ID #461-96483-0-0000 (the “Property”) in accordance with the Mount Joy Township Zoning Ordinance of 2012, as amended (the “Ordinance”):

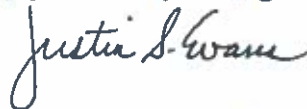
- (i) A Variance from Section 135-95.C of the Ordinance to create a lot that will not meet the minimum lot width at the building setback line; and
- (ii) A Variance from Section 135-383.C.3 of the Ordinance to permit two years from the grant of the requested variance to obtain a zoning permit, and three years to complete construction.

The Property is located within the R-1 – Low Density Residential District and consists of approximately 65.62 acres. Applicant proposes to subdivide two (2) residential lots from the parent tract, which is the site of the Lancaster County Career & Technology Center. One of the proposed lots (Lot 14) is proposed to contain a lot width of seventy (70) feet instead of the required ninety (90) feet. The alignment of the future road connecting Fairview Road to Old Market Street, through the future 14-lot subdivision, dictates the layout of Lot 14, particularly given the location of the existing wetland and buffer located on Lot 1. Further, the layout of Lot 14 is driven by the southern boundary line thereof which adjoins the portion of the Property located in Mount Joy Borough and which is zoned Conservation, thus preventing the construction of any improvements thereon. The improvements (single-family dwellings) to be erected on the proposed lots will be constructed by students of the school over a greater period of time than a typical construction contractor schedule, and several governmental approvals will be necessary in connection with the project, including PennDOT approvals.

The Variances shall be subject to the following conditions and safeguards which the Board deems necessary to implement the purpose of the Ordinance and the Pennsylvania Municipalities Planning Code.

1. The Applicant and/or the owner(s) of the Property shall comply with all other provisions contained in the Ordinance for which relief has not been requested or granted;
2. The Applicant shall file and obtain approval of a subdivision plan by the Mount Joy Township Planning Commission, and adhere to all other provisions the Mount Joy Township Subdivision and Land Development Ordinance;
3. The Applicant and any representative of the Applicant shall comply with and adhere to the testimony and any evidence presented to the Board at the hearing held on March 3, 2021, except to the extent modified by conditions imposed by the Board Hearing.

Mount Joy Township Zoning Hearing Board



For: Thomas N. Campbell, Chairman
James E. Hershey, Vice Chairman
Gregory R. Hitz, Sr., Secretary
Robert F. Newton, Jr., Alternate Member

cc: Zoning Hearing Board Members
Board of Supervisors

**ECS Mid-Atlantic, LLC**

52-6 Grumbacher Road

York, PA 17406

7177674788

7177675658

LETTER OF TRANSMITTAL

June 16, 2021

DC Gohn

32 Mount Joy Street P.O. Box 128

Mount Joy, PA 17552

ATTN: Donovan Hollway

RE: **Lancaster County Career & Technology
Sinkhole Repair**ECS Job # **18:5267-A**

Permits:

Location: **Fairview Road
Mount Joy, PA 17552**☒

Field Reports

☒

For your use

☒

As requested

CC:

ENCL: Field Report # 1 6/15/2021 Sink Hole Remediation

J. Matthew Carroll, P.E.
Office ManagerDerek G. Ridinger, P.E.
Geotechnical Department Manager**Disclaimer**

1. This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.
2. The information in this report relates only to the activities performed on the report date.
3. Where appropriate, this report includes statements as to compliance with applicable project drawings, and specifications for the activities, performed on this report date.
4. Incomplete or non-conforming work will be reported for future resolution.
5. The results of samples and/or specimens obtained or prepared for subsequent laboratory testing will be presented in separate reports/documents.



ECS Mid-Atlantic, LLC
52-6 Grumbacher Road
York, PA 17406
(717) 767-4788 [Phone]
(717) 767-5658 [Fax]

FIELD REPORT

Project **Lancaster County Career & Technology Sinkhole**
Location **Mount Joy, PA**
Client **DC Gohn**
Contractor **None Listed**

Project No. **18:5267-A**
Report No. **1**
Day & Date **Tuesday 6/15/2021**
Weather **75 °F**
On-Site Time **7.00**
Lab Time **0.75**
Travel Time* **0.50**
Total **8.25**
Re Obs Time **0.00**

Remarks **Sink Hole Remediation**

Trip Charges*	Tolls/Parking*	Mileage*	Time of Arrival	Departure
Chargeable Items			7:30A	2:30P

* Travel time and mileage will be billed in accordance with the contract.

Summary of Services Performed (field test data, locations, elevations & depths are estimates) & Individuals Contacted.

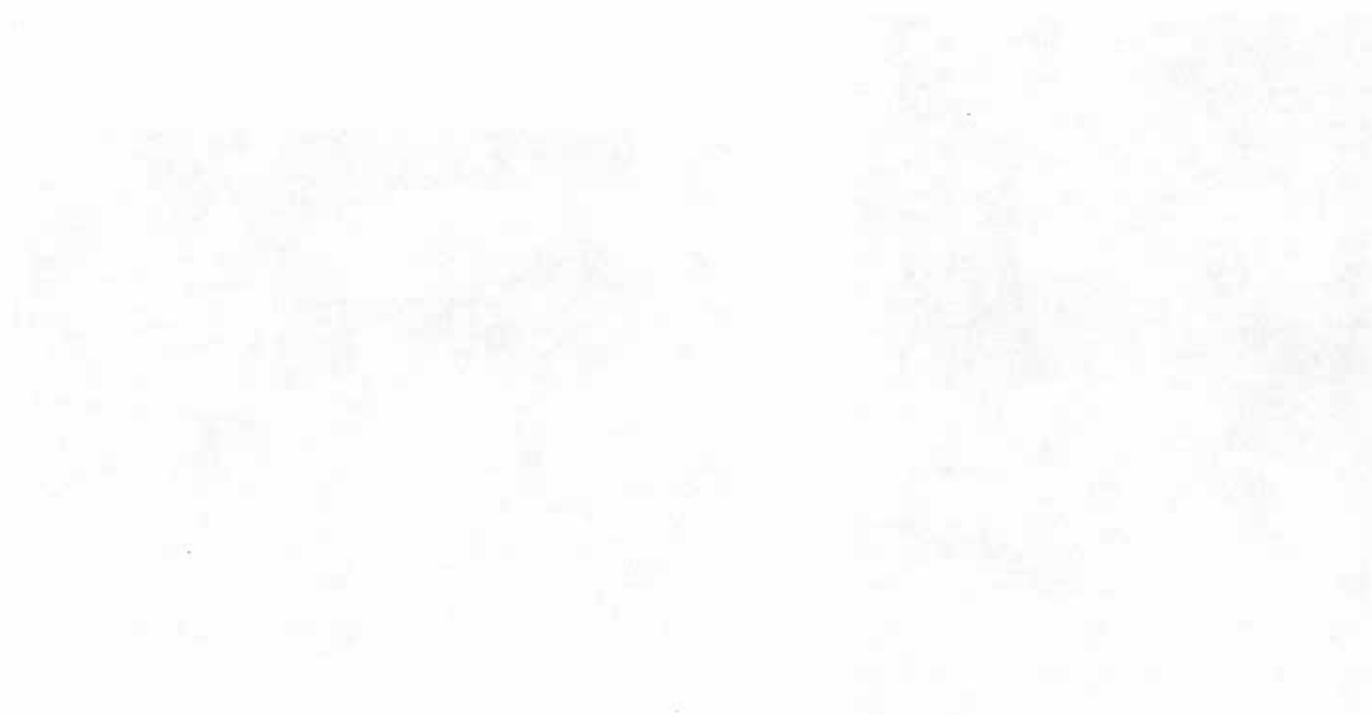
The undersigned arrived onsite, as requested, to observe the excavation and give guidance on the repair of a sinkhole that developed on the Lancaster County Career and Technology Center property in Mount Joy, PA.

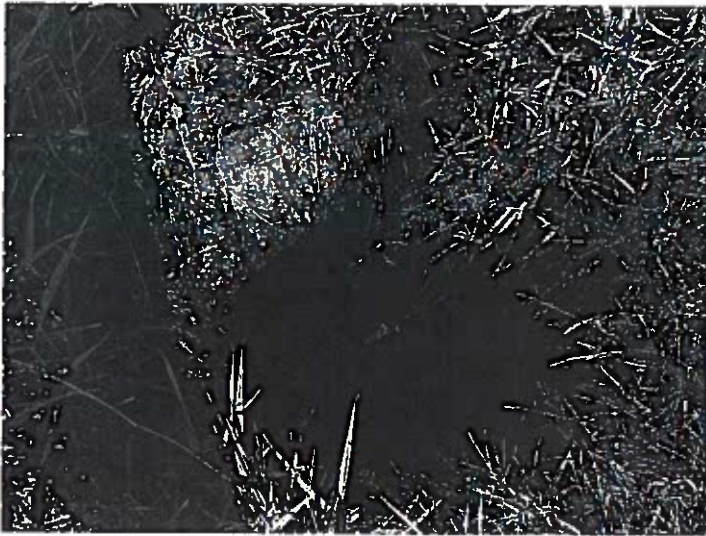
During an initial site visit performed on May 21, 2021, the potential sinkhole had an approximate diameter on the order of 5.0 feet with a max depth of 6.0 feet below existing grade. Based on our assessment of the feature, we suggested excavating out the existing hole with the objective of removing all loose, wet and compromised soil, and extending the excavation to sound materials with very limited signs of sinkhole activity in the subsurface. Once the excavation process is complete, we proposed backfilling with flowable fill to create a plug to limit future sinkhole development.

At the time of arrival on June 15, 2021, the sinkhole was measured to have a diameter of 6.0 feet with a max depth of 7.0 feet below existing grade. Once the excavator arrived, the collapsed soils were removed from the opening and the subsurface conditions were observed. We advised the on-site excavation crew to extend the excavation to 8.5 feet below existing grade. The soils exposed in the opening appeared to be stable and no signs of karst activity were observed in the opening. The final dimensions of the excavated area were on the order of 21.0 feet by 11.0 feet with a max depth of approximately 8.5 feet. The final excavated cavity contained bedrock on three of the four sides before being determined acceptable to create a concrete plug.

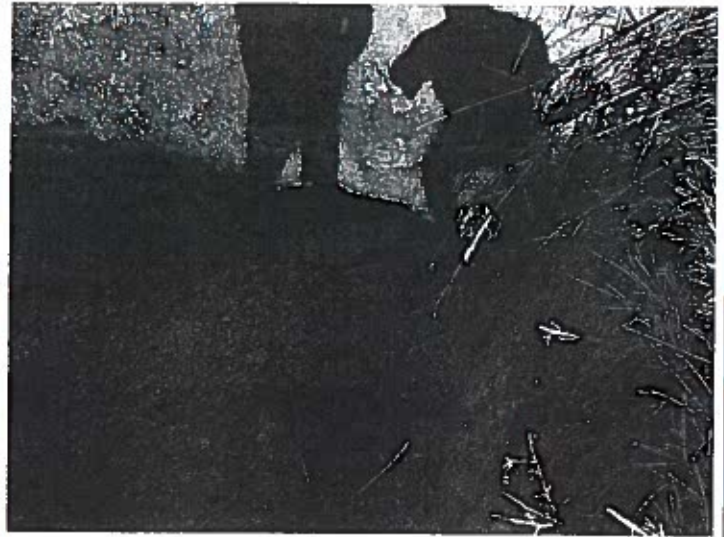
A plug was created in the subsurface using approximately 9.0 cubic yards of flowable fill. The flowable fill was inserted into the opening which extended up to approximately 5.0 feet below existing grade. To decrease the change of future sinkhole development, a drainage channel leading to the excavated sinkhole was excavated to 1 foot in depth and flowable fill was placed in the bottom 0.5 feet of the excavated area. The ground was then sloped to prevent future water flow from entering the repaired sinkhole. Onsite crews were told to let the remediated area "set up" before placing removed soils on top of the flowable fill bringing excavated area to existing grade.

Attached to this report are pictures of the remediation process.





Initial



Remove Soft Soils



Intermittent Creek Bed Exposed



Final Excavation

**LANCASTER COUNTY CAREER AND
TECHNOLOGY CENTER SINKHOLE**
ECS PROJECT NO. 18:5067-A
LANCASTER COUNTY, PENNSYLVANIA



SINKHOLE REMEDIATION

JUNE 2021



Flowable Fill



Flowable Fill



Flowable Fill



Remediation Complete

LANCASTER COUNTY CAREER AND
TECHNOLOGY CENTER SINKHOLE
ECS PROJECT NO. 18:5067-A
LANCASTER COUNTY, PENNSYLVANIA



SINKHOLE REMEDIATION

JUNE 2021



LANCASTER GEOLOGY

May 17, 2021

Donovan Hollway
D.C. Gohn Associates, Inc.
32 Mount Joy Street
Mt. Joy, PA 17552

RE: Karst Evaluation for Storm Water Management
LCCTC – Fairview Street
Mt. Joy, PA
Mt. Joy Borough & Mt. Joy Township, Lancaster County

Dear Mr. Hollway:

This letter addresses storm water management ordinances of Mt. Joy Borough and Mt. Joy Township for the submission of the proposed the storm water management facility at the above listed location. Specifically Mt. Joy Boroughs' Sections 226-31 J., 226-32 A.(2.)(c), and 226-45 and Mt. Joy Township's Section 81-301K associated with karst or carbonate geology.

Mt. Joy Borough:
Section 226-31 J. states the following:

J. *The design of all stormwater management facilities over karst areas shall include an evaluation of measures to minimize adverse effects and to certify the:*

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- (1) *No stormwater facilities shall be placed in, over or immediately adjacent to the following features:*
- (a) *Sinkholes.*
 - (b) *Closed depressions.*
 - (c) *Lineaments in carbonate areas.*
 - (d) *Fracture traces.*
 - (e) *Caverns.*
 - (f) *Intermittent lakes.*
 - (g) *Ephemeral disappearing streams.*
 - (h) *Bedrock pinnacles (surface or subsurface).*

No karst features were observed at the Site.

- (2) *Stormwater management basins shall not be located closer than 100 feet from the rim of sinkholes or closed depressions, nor within 100 feet from disappearing streams; nor shall these basins be located closer than 50 feet from lineaments or fracture traces; nor shall these basins be located closer than 25 feet from surface or identifies pinnacles.*

No karst features were observed at the Site.

- (3) *Stormwater resulting from regulated activities shall not be discharged into sinkholes.*

No stormwater is proposed to be discharged into any sinkhole(s).

- (4) *It shall be the applicant's responsibility to verify if the development is underlain by carbonate geology. The following certificate shall be included on all SWM Site Plans and shall be signed and sealed by the developer's professional geologist: "I, _____, certify that the proposed stormwater/BMP facility (circle one) is/is not underlain by carbonate geology."*

The certificate will be included on all SWM Site Plans.

- (5) *Whenever a stormwater facility will be located in an area underlain by carbonate geology, a geological evaluation of the proposed location by a registered professional geologist shall be conducted to determine susceptibility to sinkhole formation. The evaluation may include the use of impermeable liners or eliminate the separation distances listed in Subsection J.1. and J.2.*

The site is underlain by carbonate geology and the geologic evaluation is discussed in the narrative below.

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Section 226-32 A.(2.)(c) states the following:

- (c) The maximum loading ratio for volume control facilities in Karst areas shall be 3:1 impervious drainage area to infiltration area and 5:1 total drainage area to infiltration area. The maximum loading ratio for volume control facilities in non-Karst areas shall be 5:1 impervious drainage area to infiltration area and 8:1 total drainage area to infiltration area. A higher ratio may be approved by the Township if justification is provided. Hydraulic depth may be used as an alternative to an area-based loading ratio if the design hydraulic depth is shown to be less than the depth that could result from the maximum area loading ratio.*

The loading ratios for the proposed storm water management facility(ies) are calculated and discussed in the storm water management plan submitted by D.C. Gohn.

Section 226-45 C.(1.) states the following:

- A. *In areas of carbonate geology, a detailed geologic evaluation prepared by a registered Professional Geologist (PG) must be submitted as part of the SWM Site Plan. The report shall include but not limited to the following:*

- (1) The location of the following karst features:*
- (a) Sinkholes.*
 - (b) Closed depressions.*
 - (c) Lineaments in carbonate areas.*
 - (d) Fracture traces.*
 - (e) Caverns.*
 - (f) Intermittent lakes.*
 - (g) Ephemeral disappearing streams.*
 - (h) Bedrock pinnacles (surface or subsurface).*

The site is underlain by carbonate geology and the geologic evaluation is discussed in the narrative below.

- (2) A plan for remediation of any identified karst features.*

The remediation of karst features is discussed in the narrative below.

- (3) Impacts of stormwater management facilities on adjacent karst features, and impacts of karst features on adjacent stormwater management facilities.*

The geologic evaluation is discussed in the narrative below.

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Mt. Joy Township:

Section 81-301 K. states the following:

The design of all facilities over karst shall include an evaluation of measures to minimize adverse effects.

The geologic evaluation is discussed in the narrative below.

The Site is underlain by bedrock of the Epler Formation as shown on <http://www.gis.dcnr.state.pa.us/geology/index.html>, Pennsylvania Geologic Survey's Web Mapping Application. The Epler Formation, as defined in *Engineering Characteristics of the Rocks of Pennsylvania*, is composed of very finely crystalline, medium gray limestone interbedded with gray dolomite. Coarsely crystalline limestone lenses are present. Beds are moderately well bedded that are thin to flaggy. Joints have a seamy pattern that are poorly to well developed. Joints are also moderately abundant, open, and steeply dipping. The overlying mantle varies in thickness and can be extremely thick in places. Pinnacles are common and characterize the soil bedrock interface of this formation. This formation is a carbonate rock.

Infiltration testing was completed on May 12 & 13, 2021 by Lancaster Geological Solutions, LLC. The test results are as follows:

Test 1	2.55 in/hr
Test 2	3.01 in/hr
Test 3	0.20 in/hr
Test 4	1.10 in/hr
Test 5	1.94 in/hr

These infiltration rates are within the Pennsylvania Department of Environmental Protection guidance manual of 0.1 to 10 inches per hour.

Review of aerial photography and on-site observations did not identify closed depressions karst features at the proposed storm water management facility(ies). No mapped sinkholes were observed at the Site or the <http://www.gis.dcnr.state.pa.us/geology/index.html> web site.

Susceptibility to sinkhole formation for infiltration of storm water is always a risk in karst areas but may be minimized with sound engineering design and practices. The soil types, infiltration rates of the soils, depth to bedrock loading ratios, are parameters in determining the stability of the subgrade.

To minimize the susceptibility for sinkhole formation, reduce the time between removing the topsoil and the construction. The area of the proposed infiltration basin facility should not be impacted by construction vehicles so storm water infiltrates as designed.

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To minimize the susceptibility of sinkhole formation, the following tasks are recommended:

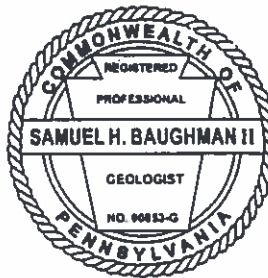
- Reduce the time between removal of topsoil and the construction.
- The area under the storm water management facility should not be impacted by construction vehicles so that storm water may infiltrate the soils as designed.
- Depth to bedrock varies in karst areas, pinnacles may be found during construction.

If during installation, throats, areas of soil piping, or other karst features are discovered, remediation of karst features can be accomplished as follows:

- Areas of soil piping should be excavated to determine the extent of piping. This entails excavation to bedrock to identify the throat. Remove all loose soil and rock.
- Use of non-woven geo-fabric to line the bottom of the excavation, between rock layers and above the upper rock layer, the sidewalls do not require covering.
- Placement of reverse stone filter to permit drainage of water but not soils.
- This process should be overseen by a professional geologist or engineer experienced in sinkhole remediation.

Specific design, measures, procedures, and materials shall be determined by the design engineer as part of the installation of the proposed SWM Facility. If any sinkholes or other karst features are discovered during construction, do not hesitate to contact me.

Sincerely,



Samuel H. Baughman II, M.S., P.G.
Principal Geologist

attachments: infiltration data sheets

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Limitations

This report and its observations, evaluations, interpretations, and conclusions are based solely upon the observations, data from the client, gathered by this author, and publicly available at the time of the study. The conclusions and interpretations are focused on the scope and purpose of this study and should not be construed as a more comprehensive investigation. If additional or contrary information to the conclusions stated herein, is obtained by any connected party, then Lancaster Geology and this author should be notified to allow critical evaluation.

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LCCTC - Fairfield Street

Date: 5/13/2021

Infiltration Test Location: Infiltration Test 1

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter	<u>8</u>	inches
Outer Ring diameter	<u>12</u>	inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)	<u>9</u>
------------------	----------

Water drop - first 30 min	<u>1.25</u>
---------------------------	-------------

Water drop - second 30 min	<u>1.5</u>
----------------------------	------------

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals

if less than 2-inches, use 30-minute measurement intervals

Start Time 10:27 Test depth - 48"

Time	Displacement (in)	Interval (min)
10:57	1.39	30
11:27	1.34	30
11:57	1.20	30
12:27	1.16	30

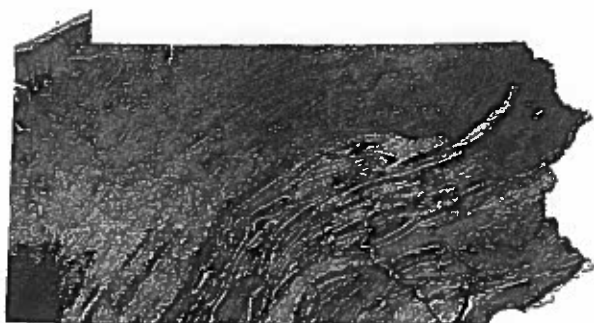
2.55 inches per hour

0-12"	Topsoil
12"-30"	brown silty clay, moist
30"-84"	yellow tan silty clay, moist
24"-30"	terra cotta pipe encountered while digging and oriented NE-SW
6.5'-7'	limestone boulder

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that occurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of 0.1 to 10 inches per hour (page 14 of 21).



LANCASTER GEOLOGICAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458

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LCCTC - Fairfield Street

Date: 5/12/2021

Infiltration Test Location: Infiltration Test 2

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter	<u>8</u>	inches
Outer Ring diameter	<u>12</u>	inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in)	<u>6</u>
------------------	----------

Water drop - first 30 min	<u>1.3</u>
---------------------------	------------

Water drop - second 30 min	<u>1.4</u>
----------------------------	------------

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals

if less than 2-inches, use 30-minute measurement intervals

Start Time 14:32 Test depth - 48"

0-10"	Topsoil
10"-27"	brown silty clay, moist
27"-84"	yellow tan silty clay, moist

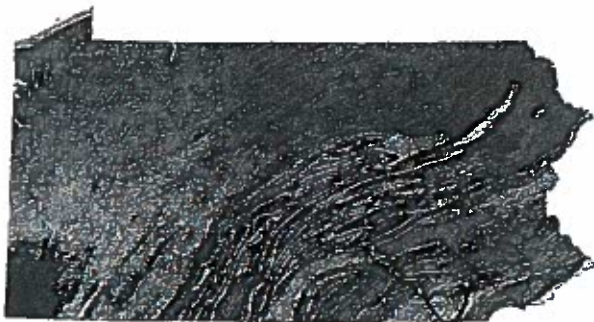
Time	Displacement (in)	Interval (min)
15:02	1.64	30
15:32	1.51	30
16:02	1.41	30
16:32	1.46	30

3.01 inches per hour

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that occurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of 0.1 to 10 inches per hour (page 14 of 21).



LANCASTER GEOLOGICAL SOLUTIONS, LLC

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LCCTC - Fairfield Street

Date: 5/12/2021

Infiltration Test Location: Infiltration Test 3

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter 8 inches
Outer Ring diameter 12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in) 9.5

Water drop - first 30 min 0.3

Water drop - second 30 min 0.1

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals

if less than 2-inches, use 30-minute measurement intervals

Start Time 13:22 60"

0-12" Topsoil
12"-36" brown silty clay, moist
36"-96" yellow tan silty clay, moist

Time	Displacement (in)	Interval (min)
13:52	0.10	30
14:22	0.11	30
14:52	0.00	30
15:52	0.19	30

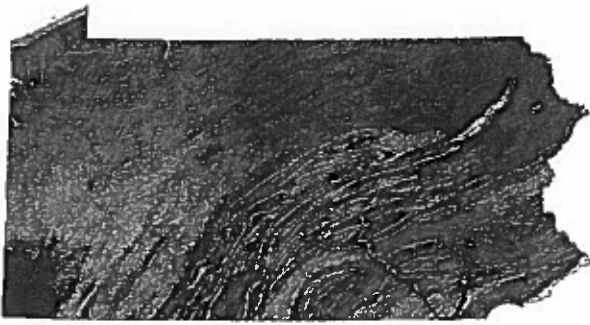
0.20 inches per hour

Basin Infiltration rate = ave of test pits
Infiltration rate = (test 3+test 4+test 5)/3
(0.2+1.1+1.94)/3 = **1.08 in/hr**

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that occurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of 0.1 to 10 inches per hour (page 14 of 21).



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LCCTC - Fairfield Street

Date: 5/12/2021

Infiltration Test Location: Infiltration Test 4

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter 8 inches
Outer Ring diameter 12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in) 6

Water drop - first 30 min 0.5

Water drop - second 30 min 0.4

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals

if less than 2-inches, use 30-minute measurement intervals

Start Time 11:04 Test depth - 24"

0-10" Topsoil
10"-20" brown silty clay, moist
20"-60" yellow tan silty clay, moist

Time	Displacement (in)	Interval (min)
11:34	0.46	30
12:04	0.48	30
12:34	0.59	30
13:04	0.66	30

1.10 inches per hour

Basin Infiltration rate = ave of test pits
Infiltration rate = (test 3+test 4+test 5)/3
(0.2+1.1+1.94)/3 = **1.08 in/hr**

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that occurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of **0.1 to 10 inches per hour** (page 14 of 21).



LANCASTER GEOLOGICAL SOLUTIONS, LLC

483 South 9th Street, Akron, PA 17501-1458

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LCCTC - Fairfield Street

Date: 5/12/2021

Infiltration Test Location: Infiltration Test 5

Infiltration location is at the depth of proposed infiltration.

Inner Ring diameter 8 inches
Outer Ring diameter 12 inches

Pre-soak - minimum 4" depth in inner ring

Water Depth (in) 7

Water drop - first 30 min 3.1

Water drop - second 30 min 2.1

Water level drop after second 30 min:

if 2-inches or more, use 10-minute measurement intervals

if less than 2-inches, use 30-minute measurement intervals

Start Time	11:24	48"
Time	Displacement (in)	Interval (min)
11:34	0.36	10
11:44	0.30	10
11:54	0.31	10
12:04	0.32	10
	1.94	

inches per hour

0-8" Topsoil
8"-24" brown silty clay, moist
24"-84" yellow tan silty clay,
moist

Basin Infiltration rate = ave of test pits
Infiltration rate = (test 3+test 4+test 5)/3
(0.2+1.1+1.94)/3 = **1.08 in/hr**

Test complete until a minimum of eight (8) readings are completed or until a stabilized rate of drop is obtained, whichever comes first. A stabilized rate of drop means a difference of 1/4-inch or less of drop between the highest and lowest of four (4) consecutive water level readings.

The infiltration rate is the drop that occurs in the center ring during the final period or the average stabilized rate, expressed in inches per hour, at this location.

PA Stormwater BMP Manual, Appendix C - Site Evaluation and Soil Testing recommended infiltration rate of 0.1 to 10 inches per hour (page 14 of 21).



ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet – BioNet® S75BN™ Erosion Control Blanket

DESCRIPTION

The short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S75BN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Material Content

Matrix	100% straw fiber	0.5 lbs/sq yd (0.27 kg/sm)
Netting	Top side only: Leno woven 100% biodegradable natural organic fiber	9.3 lbs/1000 sq ft (4.5 kg/100 sm)
Thread	Biodegradable	

Standard Roll Size

Width	6.67 ft (2.0 m)
Length	108 ft (32.92 m)
Weight ± 10%	46.4 lbs (21.05 kg)
Area	80 sq yd (66.9 sm)

Design Permissible Shear Stress

Unvegetated Shear Stress	1.60 psf (76 Pa)
Unvegetated Velocity	5.00 fps (1.52 m/s)

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.29 in. (7.37 mm)
Resiliency	ECTC Guidelines	81.4%
Water Absorbency	ASTM D1117	440%
Mass/Unit Area	ASTM D6475	9.12 oz/sy (510 g/sm)
Swell	ECTC Guidelines	15.7%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	6.92 oz-in
Light Penetration	ASTM D6567	9.1%
Tensile Strength - MD	ASTM D6818	146.4 lbs/ft (2.17 kN/m)
Elongation - MD	ASTM D6818	10.9%
Tensile Strength - TD	ASTM D6818	109.2 lbs/ft (1.62 kN/m)
Elongation - TD	ASTM D6818	14.3%
Biomass Improvement	ASTM D7322	398%

Slope Design Data: C Factors

Slope Gradients (S)			
Slope Length (L)	≤ 3:1	3:1 – 2:1	≥ 2:1
≤ 20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
≥ 50 ft (15.2 m)	0.19	N/A	N/A

Roughness Coefficients – Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 – 2.0 ft	0.055 – 0.021
≥ 2.0 ft (0.60 m)	0.021



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July 8, 2021

Stacie Gibbs, BCO
Zoning/Code Officer
Borough of Mount Joy
21 East Main Street
Mount Joy, PA 17552

RE: LCCTC Mount Joy Campus Minor Subdivision Plan
Stormwater Review
ARRO # 10863.46

Dear Stacie:

ARRO Consulting, Inc. reviewed the following information in accordance with the Mount Joy Borough Stormwater Management Ordinance.

1. Final Minor Subdivision (Plan) for Lancaster County Career & Technology Center – Mount Joy Campus, prepared by D.C. Gohn Associates, Inc., dated June 25, 2021.
2. Karst Evaluation for Stormwater Management, prepared by Lancaster Geology, dated May 17, 2021.
3. Post Construction Stormwater Management Report (with Drainage Area Maps) for Lancaster County Career and Technology Center – Mount Joy Campus, prepared by D.C. Gohn Associates, Inc., dated June 25, 2021.
4. Wetland Investigation for the Lancaster County Career & Technology Center – Lots 1 & 14 Project, prepared by Vortex Environmental, Inc., dated June 23, 2021.
5. Modification Request Letter, prepared by D.C. Gohn Associates, Inc., dated June 28, 2021.

We offer the following comments.

Stormwater

1. The applicant shall prepare and submit an E&S plan (§226-31.E.)

2. The applicant shall include the location of the repaired sinkhole on the plans (§226-31.J.).
3. A note including the comments on page 5 of the Karst Evaluation by Lancaster Geology shall be included on the plans (§226-31.J.)
4. The applicant shall add a note stating "Infiltration BMPs shall not be constructed nor receive runoff from disturbed areas until the entire contributory drainage area to the infiltration BMP has achieved final stabilization." The construction sequence shall be staged in a way to prevent sediment from entering the finished basin [§226-31.P].
5. It appears the calculations have allowed for 500 sq ft. of additional impervious surface from each lot. The plans shall state this allowable increase for lots 1 and 14.
6. The dewatering calculations shall be revised because the applicant divided the 1.25 feet of depth by an infiltration rate in inches per hour when the infiltration rate should be in feet per hour (ie. the dewatering time would be 12 times larger than calculated) [§226-32.D].
7. The time of concentration (Tc) lines are not drawn perpendicular to the contour lines. Both the pre-development and post-development Tc lines shall be revised to be accurate. In the post-development, the Tc line will flow into the proposed swale and could increase the Tc which will increase the post-development peak discharge [§226-35.I].
8. The rational coefficients shall be revised to match the slopes that are found on site. Most of the pre-development slopes are between 2-6% which would correspond with a coefficient of 0.19. The existing impervious is from a building with a flat roof which would correspond with a coefficient of 0.91 [§226-35.H.(1)].
9. The applicant shall include all downspout piping locations on the plans. All downspout outlets shall have a flared end section with appropriate energy dissipation [§226-37.C.(1)(e)].
10. The Tc line for the offsite flow utilizes a Manning's coefficient of 0.40 for the sheet flow portion. This coefficient corresponds to woods, however, the first 100 feet of sheet flow is in the cemetery which is grass. The Tc computations shall be revised [§226-35.J].
11. The rational coefficients shall be considered poor/winter conditions for the design of the 36" pipe. The pipe and rip-rap shall be redesigned (if necessary) to accommodate these changes in methodology [§226-35.G].
12. The Mount Joy Borough SWM Site Plan Approval Certificate (Appendix 6) shall be provided on the plans [§226-43.E].

Stacie Gibbs, BCO
Borough of Mount Joy
July 8, 2021
Page 2

13. The applicant shall submit an O&M agreement to the Municipality and shall include it with a future submission [§226-61.E.].
14. Financial security shall be provided to the Borough for the stormwater facilities within the Borough. The applicant shall provide an engineer's cost estimate for review [§226-60].

Modifications

1. The applicant is requesting a modification of Section 226-37.C.(1).(d).[4] – 4:1 maximum swale side slope in residential areas. The applicant is requesting to use 3:1 swale side slopes.

Because there is adequate space to construct a swale with 4:1 side slopes and there is no acceptable justification provided for utilizing a swale with 3:1 side slopes, ARRO recommends denying this waiver request.

Please call me if you have any questions.

Sincerely,



Darrell L. Becker, P.E.
Vice President
DLB:acb

c: Mark G. Pugliese, Manager – Mount Joy Borough
Josele Cleary, Esquire – Morgan Hallgren Crosswell & Kane
Justin Evans, Manager – Mount Joy Township
Ben Craddock, P.E. – Lancaster Civil Engineering

POST CONSTRUCTION STORMWATER MANAGEMENT REPORT

For

LANCASTER COUNTY CAREER AND TECHNOLOGY CENTER - MOUNT JOY CAMPUS

DCG Project No.: 4343-21

Mount Joy Township & Mount Joy Borough
Lancaster County, PA

June 25, 2021

REVISIONS



Surveyors - Engineers - Landscape Architects

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1 PROJECT INTRODUCTION

The enclosed information should be considered part of the Final Minor Subdivision Plan & Land Development Plan for Lancaster County Career and Technology Center – Mount Joy Campus (“LCCTC”) located at 432 Old Market Street, Mount Joy, PA 17552.

1.1 Project Intent

LCCTC proposes subdivide 2 single family lots from the existing subject tract. The 2 single family lots will consist of a single family house & driveway. The proposed lots will access directly to Fairview Street via a common drive. The stormwater facility for this project is located just south of the Municipal Boundary Line. Therefore, both municipalities (Mount Joy Township & Mount Joy Borough shall review the plans prior to final plan approvals.

1.2 Project Location

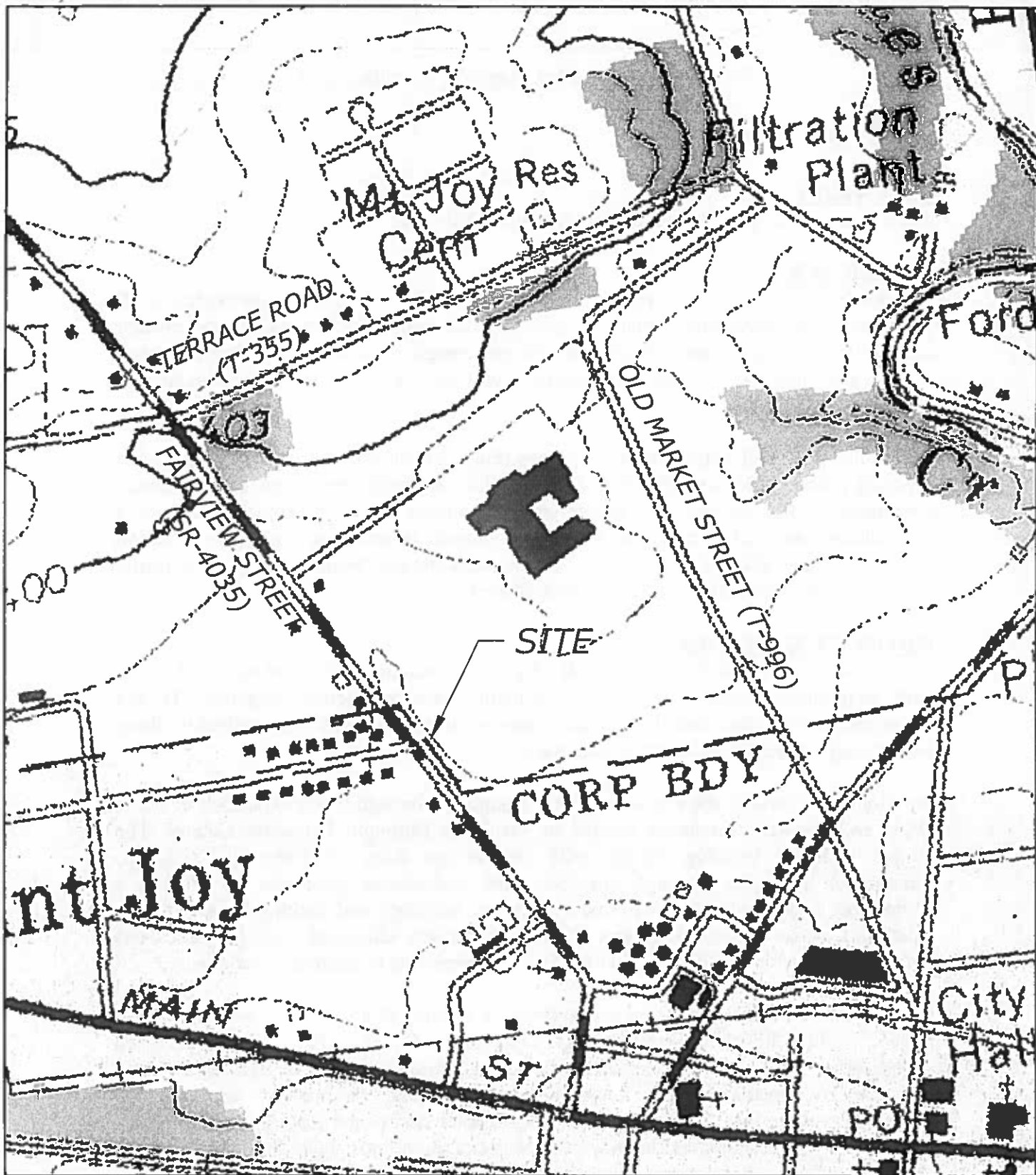
The property is located within the R-1 Low Density Residential District of Mount Joy Township & Conservation District within Mount Joy Borough. The site is located at 432 Old Market Street. Refer to the USGS Map provided in Figure 1.

1.3 Site Description

The subject property primarily contains grass areas & cultivated areas. There are no wetlands in the area of the proposed lots. All stormwater drains to an existing channel in Rotary Park and to an existing culvert. The site ultimately drains to Little Chickies Creek. The designated use is TSF. The past and present land use is educational and the proposed land use is educational and residential.

Governing Ordinance

The Governing Ordinances are the Mount Joy Township Subdivision and Land Development Ordinance as well as the Mount Joy Township Stormwater Management Ordinance. Within Mount Joy Borough the governing ordinances are the Mount Joy Borough Subdivision and Land Development Ordinance as well as the Mount Joy Borough Stormwater Management Ordinance.



COLUMBIA WEST USGS MAP
FOR
LCCTC

432 OLD MARKET STREET
MOUNT JOY TOWNSHIP
LANCASTER COUNTY, PENNSYLVANIA

FIGURE - 1

PROJECT NO.: 4343-21
DATE: JUNE 17, 2021
DRAWN BY: DEH
CHECKED BY: SAC
SCALE: 1"=500'

de gohn
Associates, Inc.

Surveyors • Engineers • Landscape
Architects

32 Mount Joy Street
Po Box 128
Mount Joy, PA 17552
PH: (717) 663-5308
www.dcgohn.com

OWNER

NAME: LANCASTER COUNTY VO-TECH
SCHOOL AUTHORITY
ADDRESS: 1730 HANS HERR DRIVE
WILLOW STREET, PA 17584
TELEPHONE: 717-653-3001

DEED REFERENCE L-570345
LANC. CO. TAX ACCT.: 461-96483-0-0000

Figure 2 – PCSM Plan Preparer Qualifications

DONOVAN E. HOLLWAY

EDUCATION

B.S.L.A, Landscape Architecture, West Virginia University

EXPERIENCE

Mr. Hollway has over 6 years' experience in the stormwater management & subdivision/land development planning process. His responsibilities include stormwater and infiltration design, stormwater conveyance design, erosion and sediment control design, site grading, and application/report writing. He is also knowledgeable in landscaping design and 3D Modeling.

Mr. Hollway is well versed in project permitting and managing a project through the approval process. He has collaborated with architects, traffic engineers, environmental consultants, geologists, and other design professionals on numerous projects. He has met with clients and sub-consultants to review project information to develop design solutions. He has also attended meetings with contractors and municipal engineers' onsite to develop solutions during the construction phases.

PROJECT EXPERIENCE

Mr. Hollway has worked on a multitude of projects including subdivisions of all types, multiple industrial warehouses, churches, residential, and commercial properties. He has developed sketch plans and final plans to present to the associated municipality along with the supporting documentation necessary.

Mr. Hollway provided site and storm water design on the significant expansion of Carel USA, an industrial warehouse located in Manheim Borough, Lancaster County. The project included working closely with the design team including the architect, construction manager, borough engineer, and professional geologist to develop a stormwater design solution for the new proposed buildings and parking lot expansions which will occur in multiple phases. This particular site addressed borough regulations for volume control, as well as LCCD/PA DEP requirements to address water quality.

Mr. Hollway provided stormwater management & grading design on the United Churches project within Elizabethtown Borough, Lancaster County. The project involved collaborating with several engineers, architect, borough officials, geologists, and surveyors to construct a new Social Services Building. The project also included additional parking area, a playground, and associated stormwater management facilities. The project was designed to maximize efficiency of the proposed site through the layout using multiple stormwater facilities. Mr. Hollway was involved in the application/permitting process, as well as obtaining the necessary modifications & variances that were required from the Borough to advance this project through the approval process.

PRE-DEVELOPMENT CONDITION

1.4 Land Cover Conditions

The subject property primarily contains grass areas, cultivated areas, and an area of existing trees. There are no wetlands in the area of the proposed lots. All stormwater drains to existing channel in Rotary Park and to an existing culvert. The site ultimately drains to Little Chickies Creek.

1.5 Soils

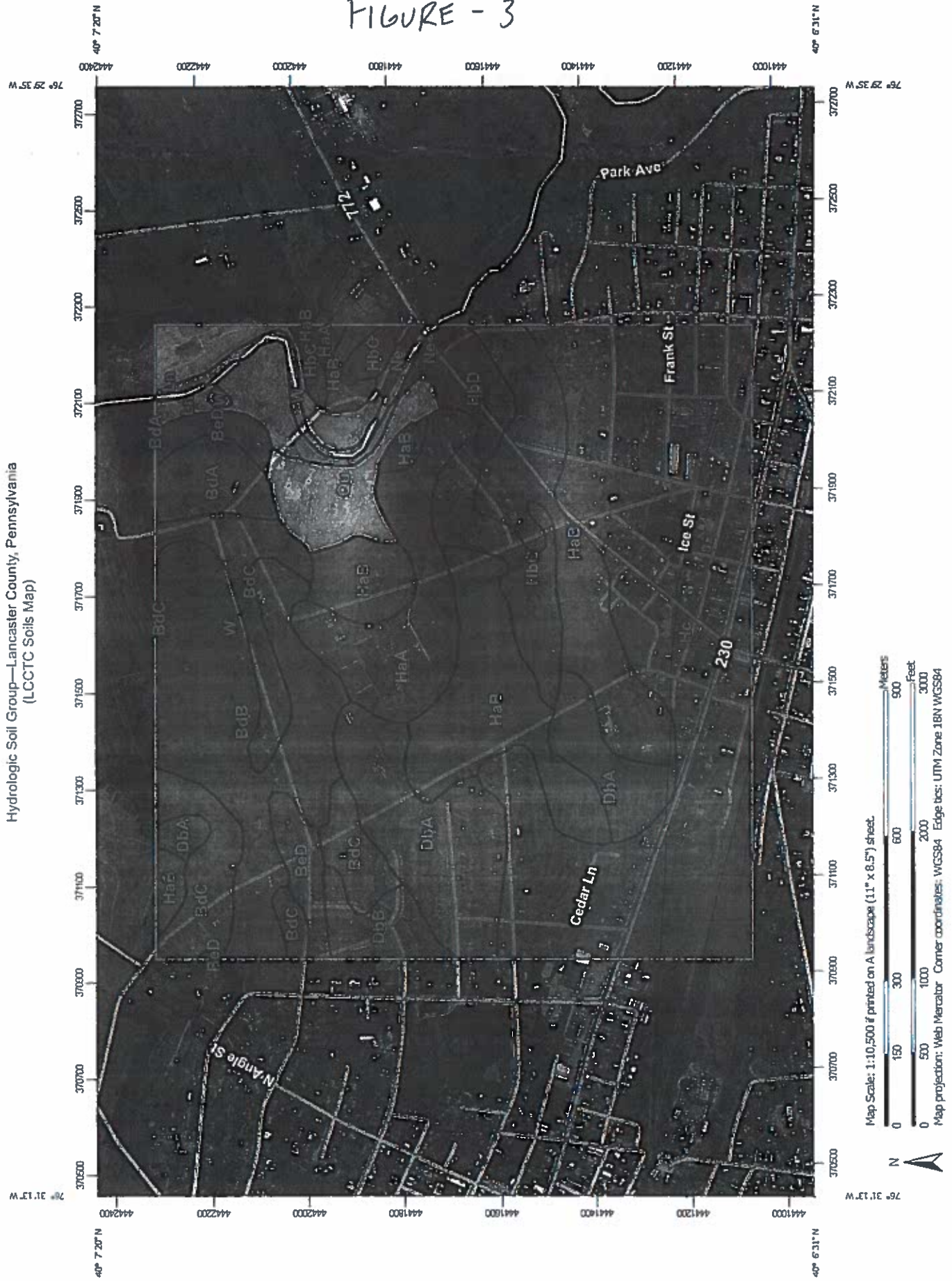
According to the Soil Survey of Lancaster County, the site contains the soil types listed below. Table 1 provides a summary of the present soil types. The soil types listed are the soils within the disturbed area only.

Table 1 – Soils Series

MAP SYMBOL	SOIL NAME	HYDRO. SOIL GROUP
HaB	Hagerstown Silt Loam, 3-8%	B
HbC	Hagerstown Silty Clay Loam, 8-15%	B

Figure 3 presents an excerpt from the Soil Survey of Lancaster County.

FIGURE - 3



1.6 Drainage Areas

Pre Area is analyzed from Lot 1 south across the existing Borough/Township line and down toward the channel in Rotary Park. The study point corresponds to the southern limit of the proposed improvements and disturbance.

1.7 Peak Runoff Determination

1.7.1 Calculation Method

In accordance with the ordinance, the Rational Method has been used to calculate the stormwater runoff for the project site. The Runoff Coefficient "C" used with the Rational Method is based upon the information provided in the Appendix of the Stormwater Management Ordinance. The Runoff Coefficient is based on the Rational Formula, soil group, and slope percentage. The Rainfall Intensity data used in the Rational Method is based upon Region 4 intensity data. The point precipitation frequency per NOAA for the project location is 2.99 inches for the 2 year/24 hour storm.

1.7.2 Drainage Area Properties

The following table summarizes the pre-development drainage area as required to utilize the Rational Method to calculate stormwater runoff. Please refer to Appendix 'A' for the detailed calculations.

Table 2 - Pre-Development Drainage Areas

Drainage Area	Total Area (acres)	Weighted 'C' Value	Tc (Min.)
Pre Area	8.96	0.311	18.44

1.7.3 Drainage Area Peak Flows

The following table summarizes the peak flows calculated for the pre-development drainage area using the Rational Method. All of the flow values are in units of cubic feet per second (cfs). Please refer to Appendix 'A' for the detailed calculations.

Table 3 - Pre-Development Drainage Area Peak Flows

Drainage Area	2 Year	10 Year	25 Year	50 Year	100 Year
Pre Area	6.79	9.38	10.40	11.44	12.73

2 POST-DEVELOPMENT CONDITION

2.1 Overview

LCCTC proposes subdivide 2 single family lots from the existing subject tract. The 2 single family lots will consist of a single family house & driveway. Stormwater will be managed by an infiltration basin to the south of Lot 14.

The actual proposed improvements have been used to determine the impervious coverage utilized within the hydrologic calculations. The basin has been oversized to account for any future impervious areas each lot proposes whenever that may be in the future.

2.2 Peak Runoff Determination

2.2.1 Calculation Method

Similar to pre-development, the Rational Method has been used to calculate the stormwater runoff for the project site. The Runoff Coefficient "C" used with the Rational Method is based upon the information provided in the Appendix of the Stormwater Management Ordinance. The runoff coefficient is based on a storm recurrence or 2 years. The Rainfall Intensity data used in the Rational Method is based upon the data provided in the Appendix (PA-DOT Region 4 Storm IDF Data Base Rainfall Intensity) of the ordinance. Time of Concentration or Travel Times are calculated using VTPSUHM 6.0. Time of Concentrations were calculated using the SCS Segmental Approach, TR-55 within VTPSUHM 6.0.

2.2.2 Calculation Approach

Stormwater management facilities will be required to mitigate the increased stormwater being generated by the proposed development. Stormwater will be managed by an infiltration basin to the south of Lot 14. The infiltration basin is designed to control stormwater rate and volume to meet the Borough & Township requirements in addition to the NPDES permit requirements.

2.2.3 Drainage Area Properties

The following table summarizes the post-development drainage areas as required to utilize the Rational Method to calculate stormwater runoff. Please refer to Appendix 'B' and for the detailed calculations.

Table 4 - Post-Development Drainage Area Properties

Drainage Area	Total Area (acres)	Weighted 'C' Value	Tc (Min.)
Post Area Undetained	7.23	0.325	18.44
To Infiltration Basin 1	1.73	0.402	5.0

2.2.4 Drainage Area Peak Flows

The following table summarizes the peak flows obtained for the Post-Development Drainage Areas. Please refer to Appendix 'B' for the detailed calculations.

Please note that the values presented in the table for the "Infiltration Basin" represents the peak flow to the infiltration basin for each hydrograph.

Table 5 - Post-Development Drainage Area Peak Flows

Drainage Area	2 Year	10 Year	25 Year	50 Year	100 Year
Post Area A Undetained	5.73	7.91	8.77	9.65	10.73
To Infiltration Basin 1	2.91	3.76	4.17	4.60	5.09

2.2.5 Pre/Post Peak Runoff Comparison

As required by the ordinance, the post-development runoff for the 2, 10, 25, 50 and 100 year storm events shall not exceed the peak rates of runoff prior to development.

The following table represents the actual post development peak runoff compared to the pre development peak runoff.

Table 6 – Pre Area / Post Area A Undetained / Infiltration Basin Discharge Pre/Post Peak Runoff Comparison

Storm Frequency	Pre Area Peak Flow, cfs	Post Area Undetained Peak Flow, cfs	Infil. Basin Peak Flow Discharges, cfs	Allowable Post Peak Flow, cfs
2 Year	6.79	5.73	0.00	6.79
10 Year	9.38	7.91	0.00	9.38
25 Year	10.40	8.77	0.00	10.40
50 Year	11.44	9.65	0.00	11.44
100 Year	12.73	10.73	0.00	12.73

3 STORMWATER MANAGEMENT FACILITY DESIGN

The infiltration basin is designed to mitigate the increase in runoff.

The basin is designed for the 100 year storm event consistent with the stormwater ordinance. As a result, there is no discharge.

3.1 Infiltration Basin Design

The Infiltration Basin is designed in accordance with the ordinance requirements. An emergency spillway and berm are proposed for the Infiltration Basin. The results of the proposed Infiltration Basin routings are presented in the following table. Please refer to Appendix 'C' of this report for detailed calculations.

Table 7 - Proposed Infiltration Basin 1 Routing Summary

Storm Frequency	Peak Elevation (ft)	Peak Storage (acre-ft)	Peak Outflow (cfs)
2 Year	352.39	0.0940	0.00
10 Year	352.55	0.1344	0.00
25 Year	352.65	0.1575	0.00
50 Year	352.73	0.1773	0.00
100 Year	352.88	0.2139	0.00

3.1.1 Emergency Spillway Design

The emergency spillway has been designed to safely convey the one hundred (100) year storm. As required by the ordinance, the emergency spillways have been designed for the peak 100-year inflow to the basin. Please refer to Appendix 'C' of this report for the detailed calculations.

Table 8 - Proposed Emergency Spillway Design

Basin ID	Top of Berm Elevation (ft)	Emergency Spillway Crest Elev. (ft)	100-year Peak Elevation (ft)	Flow Depth thru Spillway (ft)
Infiltration Basin 1	354.00	353.25	352.88	0.00

3.1.2 Dewatering

The dewatering time for Infiltration Basin 1 is 3.32 hours. The dewatering time is based on the 0.376 inches per hour infiltration rate noted in the geology report which includes the geometric mean rate and a safety factor of 2. The depth of water in the Infiltration Basin is 1.25 feet (from spillway to bottom).

4 CONVEYANCE SYSTEMS DESIGN

4.1 Swale Design

The swales were designed for the 100 year storm event and the appropriate erosion control matting is proposed for each swale. Please refer to Appendix 'D' of this report for the detailed calculations.

4.1.1 Roof Leader Design

All roof leaders are designed to discharge/daylight to grade.

4.2 Outfall Erosion Protection

There are 2 rip-rap aprons associated with this project. Refer to Appendix 'D' within the report.

5 VOLUME / NPDES PERMIT REQUIREMENTS

The NPDES Phase II requirements state that the increased runoff volume shall be managed from the 2 YR/24 HR Storm Event. The Mount Joy Borough/Township stormwater ordinance requires that the volume control BMP's shall be designed so the post development total runoff volume for all storms equal to or less than the 2 year, 24 hour storm event shall not be increased from the pre development total runoff.

A geotechnical investigation report was completed by Lancaster Geology, dated May 17, 2021. The investigation included 5 infiltration test pits in the area of the proposed stormwater facilities. The 5 infiltration test pits locations and depths are shown on the Final Grading / PCSM Plan.

Based on the infiltration testing, the site is suitable for infiltration. The site is located in an area of carbonate geology (karst).

A limiting zone consisting of a limestone boulder was encountered in TP-1 at 6.5-7' deep. The remaining test pits did not encounter any limiting zones to the depths tested. Infiltration rates are acceptable in TP-3, TP-4, and TP-5 which is the area of the proposed Infiltration Basin.

The maximum loading ratio for volume control facilities in karst areas shall be 3:1 impervious drainage area to infiltration area and 5:1 total drainage area to infiltration area.

Infiltration Basin 1 has an infiltration area of 15,198 square feet. The total drainage area is 75,329 square feet which results in a loading ratio for the total drainage area to infiltration area of 4.95:1 which is less than the 5:1 maximum. The Infiltration Basin drainage area has an impervious area of 16,053 square feet which results in a loading ratio of 1.05:1 which is less than the 3:1 maximum.

The Infiltration Basin is designed to infiltrate the net increase in the two year storm event and meet the Borough/Township volume and NPDES permit requirements. The total two year net increase in volume is 0.108 acre feet.

Infiltration Basin 1 provides 0.33 acre feet of volume.

As a result, the proposed BMP's meet the net increase for the two year storm event.

The thermal impacts of the project were minimized using the Infiltration Basin by treating the first flush of stormwater.

As required as part of the NPDES permit, a licensed professional or their designee must be present during the critical stages of implementation of the PCSM plan. It is noted on the plans that the contractor must coordinate and contact DC Gohn Associates prior to installation of the Infiltration Basin so a representative can be present to observe the installation and construction of the proposed BMP's.

APPENDICES

APPENDIX A
PRE-DEVELOPMENT CALCULATIONS

6/14/2021

P:\4343\4343-52\Drainage\LCCTC Drainage

SCS Segmental Travel Time

Summary for Pre&Post Area A TC Path

Segment 1: Overland Flow

L = 100 ft, S = .025 ft/ft, n = .24, P(2yr/24hr) = 2.99 in
Travel Time = 13.5 minutes

Segment 2: Concentrated Flow

L = 359 ft, S = .024 ft/ft, Unpaved surface
Travel Time = 2.4 minutes

Segment 3: Concentrated Flow

L = 168 ft, S = .059 ft/ft, Unpaved surface
Travel Time = 0.7 minutes

Segment 4: Concentrated Flow

L = 250 ft, S = .02 ft/ft, Unpaved surface
Travel Time = 1.8 minutes

Total Travel Time = 18.44 Minutes

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

2 Year Storm in PA. Region 4 at Pre Area A
Time of Concentration: 18.44 min.
Drainage Area: 8.9600 acres.
Weighted 'C' Factor: 0.3110

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.07	0.07	0.24	0.68
37	0.17	0.24	0.54	1.50
55	0.75	0.99	2.44	6.79
74	0.27	1.26	0.89	2.47
92	0.11	1.37	0.35	0.98
111	0.09	1.46	0.28	0.79
129	0.07	1.52	0.22	0.60
148	0.06	1.58	0.19	0.54
166	0.05	1.64	0.18	0.49
184	0.05	1.69	0.16	0.45

At time = 461 minutes, the flow is 0.23 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

10 Year Storm in PA. Region 4 at Pre Area A
Time of Concentration: 18.44 min.
Drainage Area: 8.9600 acres.
Weighted 'C' Factor: 0.3110

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.13	0.13	0.41	1.15
37	0.22	0.35	0.73	2.04
55	1.03	1.39	3.37	9.38
74	0.39	1.77	1.26	3.52
92	0.16	1.94	0.53	1.49
111	0.15	2.08	0.48	1.33
129	0.11	2.20	0.36	1.01
148	0.10	2.30	0.33	0.91
166	0.09	2.39	0.30	0.83
184	0.08	2.47	0.27	0.76

At time = 461 minutes, the flow is 0.36 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

25 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min.

Drainage Area: 8.9600 acres.

Weighted 'C' Factor: 0.3110

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.15	0.15	0.50	1.40
37	0.26	0.42	0.85	2.37
55	1.15	1.56	3.73	10.40
74	0.44	2.00	1.43	3.99
92	0.21	2.21	0.69	1.91
111	0.18	2.39	0.58	1.62
129	0.14	2.53	0.45	1.24
148	0.12	2.65	0.40	1.12
166	0.11	2.77	0.37	1.02
184	0.10	2.87	0.34	0.94

At time = 461 minutes, the flow is 0.46 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

50 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min.

Drainage Area: 8.9600 acres.

Weighted 'C' Factor: 0.3110

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.18	0.18	0.58	1.63
37	0.32	0.50	1.03	2.87
55	1.26	1.76	4.11	11.44
74	0.51	2.26	1.65	4.60
92	0.25	2.51	0.81	2.26
111	0.21	2.72	0.67	1.87
129	0.16	2.88	0.52	1.45
148	0.14	3.02	0.47	1.31
166	0.13	3.16	0.43	1.20
184	0.12	3.28	0.40	1.10

At time = 461 minutes, the flow is 0.55 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Pre Area A

Time of Concentration: 18.44 min.

Drainage Area: 8.9600 acres.

Weighted 'C' Factor: 0.3110

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
18	0.21	0.21	0.69	1.92
37	0.36	0.57	1.16	3.22
55	1.40	1.97	4.57	12.73
74	0.57	2.54	1.85	5.15
92	0.29	2.83	0.95	2.64
111	0.24	3.07	0.79	2.21
129	0.19	3.26	0.61	1.71
148	0.17	3.43	0.55	1.54
166	0.16	3.59	0.51	1.41
184	0.14	3.73	0.47	1.30

At time = 461 minutes, the flow is 0.65 CFS.

APPENDIX B
POST-DEVELOPMENT CALCULATIONS

Post Development Drainage Areas

6/15/2021

	Total Area, SF	Total Area, acres	Wtd. 'C'	T _c , min.	On-Site Areas - Good Condition								
					Impervious, sf.			Grass, sf.			Forest, sf.		
					<2% B	2-6% B	>6% B	<2% B	2-6% B	>6% B	<2% B	2-6% B	>6% B
Soil Type C' Value					0.91	0.92	0.93	0.14	0.19	0.26	0.10	0.14	0.18
Post Area													
Post Undetained Area A	314,793	7.23	0.325	18.44		6,216	24,409			284,168			
Post Area A to Infil Basin 1	75,329	1.73	0.402	5.00		7,477	8,576			59,276			

SCS Segmental Travel Time

Summary for Pre&Post Area A TC Path

Segment 1: Overland Flow

L = 100 ft, S = .025 ft/ft, n = .24, P(2yr/24hr) = 2.99 in
Travel Time = 13.5 minutes

Segment 2: Concentrated Flow

L = 359 ft, S = .024 ft/ft, Unpaved surface
Travel Time = 2.4 minutes

Segment 3: Concentrated Flow

L = 168 ft, S = .059 ft/ft, Unpaved surface
Travel Time = 0.7 minutes

Segment 4: Concentrated Flow

L = 250 ft, S = .02 ft/ft, Unpaved surface
Travel Time = 1.8 minutes

Total Travel Time = 18.44 Minutes

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

2 Year Storm in PA. Region 4 at Post Undetained Area A
Time of Concentration: 18.44 min.
Drainage Area: 7.2300 acres.
Weighted 'C' Factor: 0.3250

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.07	0.07	0.24	0.57
37	0.17	0.24	0.54	1.27
55	0.75	0.99	2.44	5.73
74	0.27	1.26	0.89	2.08
92	0.11	1.37	0.35	0.82
111	0.09	1.46	0.28	0.66
129	0.07	1.52	0.22	0.51
148	0.06	1.58	0.19	0.46
166	0.05	1.64	0.18	0.42
184	0.05	1.69	0.16	0.38

At time = 461 minutes, the flow is 0.19 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

10 Year Storm in PA. Region 4 at Post Undetained Area A
Time of Concentration: 18.44 min.
Drainage Area: 7.2300 acres.
Weighted 'C' Factor: 0.3250

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.13	0.13	0.41	0.97
37	0.22	0.35	0.73	1.72
55	1.03	1.39	3.37	7.91
74	0.39	1.77	1.26	2.97
92	0.16	1.94	0.53	1.25
111	0.15	2.08	0.48	1.12
129	0.11	2.20	0.36	0.85
148	0.10	2.30	0.33	0.77
166	0.09	2.39	0.30	0.70
184	0.08	2.47	0.27	0.64

At time = 461 minutes, the flow is 0.31 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

25 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min.

Drainage Area: 7.2300 acres.

Weighted 'C' Factor: 0.3250

Time (min)	Rainfall Incr. (inches)	Rainfall Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.15	0.15	0.50	1.18
37	0.26	0.42	0.85	2.00
55	1.15	1.56	3.73	8.77
74	0.44	2.00	1.43	3.37
92	0.21	2.21	0.69	1.61
111	0.18	2.39	0.58	1.37
129	0.14	2.53	0.45	1.05
148	0.12	2.65	0.40	0.95
166	0.11	2.77	0.37	0.86
184	0.10	2.87	0.34	0.79

At time = 461 minutes, the flow is 0.39 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min.

Drainage Area: 7.2300 acres.

Weighted 'C' Factor: 0.3250

Time (min)	Rainfall Incr. (inches)	Rainfall Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.18	0.18	0.58	1.37
37	0.32	0.50	1.03	2.42
55	1.26	1.76	4.11	9.65
74	0.51	2.26	1.65	3.88
92	0.25	2.51	0.81	1.91
111	0.21	2.72	0.67	1.58
129	0.16	2.88	0.52	1.22
148	0.14	3.02	0.47	1.10
166	0.13	3.16	0.43	1.01
184	0.12	3.28	0.40	0.93

At time = 461 minutes, the flow is 0.47 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Post Undetained Area A

Time of Concentration: 18.44 min.

Drainage Area: 7.2300 acres.

Weighted 'C' Factor: 0.3250

Time (min)	Incr. (inches)	Rainfall Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
18	0.21	0.21	0.69	1.62
37	0.36	0.57	1.16	2.72
55	1.40	1.97	4.57	10.73
74	0.57	2.54	1.85	4.34
92	0.29	2.83	0.95	2.22
111	0.24	3.07	0.79	1.86
129	0.19	3.26	0.61	1.44
148	0.17	3.43	0.55	1.30
166	0.16	3.59	0.51	1.19
184	0.14	3.73	0.47	1.10

At time = 461 minutes, the flow is 0.55 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

2 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min.

Drainage Area: 1.7300 acres.

Weighted 'C' Factor: 0.4020

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
5	0.07	0.07	0.87	0.60
10	0.14	0.21	1.62	1.13
15	0.35	0.56	4.19	2.91
20	0.19	0.75	2.28	1.59
25	0.11	0.85	1.26	0.88
30	0.09	0.94	1.03	0.72
35	0.06	1.00	0.75	0.52
40	0.05	1.05	0.65	0.46
45	0.05	1.10	0.58	0.40
50	0.04	1.15	0.52	0.36

At time = 125 minutes, the flow is 0.15 CFS.

Computed Basin Volume using Parabolic Outflow Hydrograph

Basin Outflow Rate: 0.00 cfs

Suggested Basin Volume: 3761 Cubic Feet or 0.0863 Acre-Feet

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

10 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min.

Drainage Area: 1.7300 acres.

Weighted 'C' Factor: 0.4020

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
5	0.10	0.10	1.24	0.86
10	0.20	0.30	2.38	1.65
15	0.45	0.75	5.41	3.76
20	0.28	1.03	3.33	2.31
25	0.15	1.18	1.84	1.28
30	0.12	1.31	1.49	1.03
35	0.09	1.39	1.05	0.73
40	0.08	1.47	0.91	0.63
45	0.07	1.53	0.79	0.55
50	0.06	1.59	0.70	0.48

At time = 125 minutes, the flow is 0.25 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

25 Year Storm in PA. Region 4 at Post Area to Infil Basin 1
Time of Concentration: 5 min.
Drainage Area: 1.7300 acres.
Weighted 'C' Factor: 0.4020

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
5	0.12	0.12	1.41	0.98
10	0.22	0.34	2.64	1.84
15	0.50	0.84	5.99	4.17
20	0.31	1.14	3.66	2.55
25	0.17	1.31	2.06	1.43
30	0.14	1.45	1.67	1.16
35	0.10	1.55	1.20	0.84
40	0.09	1.64	1.04	0.73
45	0.08	1.72	0.92	0.64
50	0.07	1.78	0.82	0.57

At time = 125 minutes, the flow is 0.31 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

50 Year Storm in PA. Region 4 at Post Area to Infil Basin 1
Time of Concentration: 5 min.
Drainage Area: 1.7300 acres.
Weighted 'C' Factor: 0.4020

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
5	0.13	0.13	1.62	1.13
10	0.24	0.38	2.91	2.03
15	0.55	0.93	6.61	4.60
20	0.33	1.26	3.98	2.77
25	0.19	1.45	2.31	1.60
30	0.16	1.61	1.91	1.33
35	0.12	1.73	1.41	0.98
40	0.10	1.83	1.24	0.86
45	0.09	1.92	1.10	0.77
50	0.08	2.01	0.99	0.69

At time = 125 minutes, the flow is 0.35 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Post Area to Infil Basin 1

Time of Concentration: 5 min.

Drainage Area: 1.7300 acres.

Weighted 'C' Factor: 0.4020

Time (min)	Rainfall Incr. (inches)	Rainfall Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.15	0.15	1.82	1.26
10	0.27	0.42	3.25	2.26
15	0.61	1.03	7.32	5.09
20	0.37	1.40	4.44	3.09
25	0.21	1.62	2.58	1.79
30	0.18	1.80	2.13	1.48
35	0.13	1.93	1.58	1.10
40	0.12	2.04	1.39	0.97
45	0.10	2.15	1.24	0.86
50	0.09	2.24	1.11	0.77

At time = 125 minutes, the flow is 0.42 CFS.

Computed Basin Volume using Parabolic Outflow Hydrograph

Basin Outflow Rate: 0.00 cfs

Suggested Basin Volume: 8017 Cubic Feet or 0.1841 Acre-Feet

Study Points for Pre-Post Development Flow Analysis

Pre Area A / Post Area A Undetained

Storm Event	Pre-Development		Post-Development		
	Pre Area A Peak Flow, cfs	Post Area A Undetained Peak Flow, cfs	Prop. Infil. Basin 1 Outflow, cfs	Allowable Post Development Peak Flow, cfs	
2 Year	6.79	5.73	0.00	6.79	
10 Year	9.38	7.91	0.00	9.38	
25 Year	10.40	8.77	0.00	10.40	
50 Year	11.44	9.65	0.00	11.44	
100 Year	12.73	10.73	0.00	12.73	

APPENDIX C

INFILTRATION BASIN CALCULATIONS

Basin Storage/Elevation Input

	Elevation (ft)	Area (acres)	Storage (acre-ft)
BOTTOM →	352	0.1474	0.000
	353	0.3404	0.244
SPILLWAY →	353.25	0.3488	0.330
BERM →	354	0.3743	0.601

14,374.8 CF

STORAGE @ SPILL

(BASIN OVERSIZED FOR FUTURE PATIOS/POOLS +
FUTURE LOTS TO THE EAST)

BASIN INFILTRATION AREA @ SPILL = 0.3488 AC (15,198 SF)

LOADING RATIOS (KARST) { IMPERVIOUS TO INFILTRATION AREA = 16,053 to 15,198
(NEEDS TO BE 3:1) (1.05 to 1.0)

TOTAL TO INFILTRATION AREA = 75,329 to 15,198
(NEEDS TO BE 5:1) (4.95 to 1.0)

5:1 + 3:1
✓

Project Files:

Outlet Structure Configuration: P:\4343\4343-52\Drainage\Basin Spillway.OSC

Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Outlet Structure Configuration for:**Stage 1: Emergency Spillway**

Crest Elevation = 353.25 feet

Crest Length = 15 feet

Discharge Coefficient = 3

Basin Rating Curve

Basin Water Elevation	Basin Outflow (cfs)	Riser Box Water Elevation	Tailwater Elevation (ft)	Outfall Culvert Control	Outfall Culvert Override?
352.00	0.00	N/A	N/A	N/A	N/A
352.10	0.00	N/A	N/A	N/A	N/A
352.20	0.00	N/A	N/A	N/A	N/A
352.30	0.00	N/A	N/A	N/A	N/A
352.40	0.00	N/A	N/A	N/A	N/A
352.50	0.00	N/A	N/A	N/A	N/A
352.60	0.00	N/A	N/A	N/A	N/A
352.70	0.00	N/A	N/A	N/A	N/A
352.80	0.00	N/A	N/A	N/A	N/A
352.90	0.00	N/A	N/A	N/A	N/A
353.00	0.00	N/A	N/A	N/A	N/A
353.10	0.00	N/A	N/A	N/A	N/A
353.20	0.00	N/A	N/A	N/A	N/A
353.30	0.50	N/A	N/A	N/A	N/A
353.40	2.61	N/A	N/A	N/A	N/A
353.50	5.63	N/A	N/A	N/A	N/A
353.60	9.32	N/A	N/A	N/A	N/A
353.70	13.58	N/A	N/A	N/A	N/A
353.80	18.36	N/A	N/A	N/A	N/A
353.90	23.58	N/A	N/A	N/A	N/A
354.00	29.23	N/A	N/A	N/A	N/A

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 2 YR EXT.HYD

Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES

Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs

Starting Pool Elevation = 352.00 feet

Time Interval = 0.0208333 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
0.00	0.00	0.00	0.0000	352.00	0.000	0.000
0.02	0.15	0.15	0.0001	352.00	0.000	0.000
0.04	0.30	0.30	0.0005	352.00	0.000	0.000
0.06	0.45	0.45	0.0012	352.00	0.000	0.000
0.08	0.60	0.60	0.0021	352.01	0.000	0.000
0.10	0.73	0.73	0.0032	352.01	0.000	0.000
0.12	0.87	0.87	0.0046	352.02	0.000	0.000
0.15	1.00	1.00	0.0062	352.03	0.000	0.000
0.17	1.13	1.13	0.0080	352.03	0.000	0.000
0.19	1.57	1.57	0.0104	352.04	0.000	0.000
0.21	2.02	2.02	0.0135	352.06	0.000	0.000
0.23	2.47	2.47	0.0173	352.07	0.000	0.000
0.25	2.91	2.91	0.0220	352.09	0.000	0.000
0.27	2.58	2.58	0.0267	352.11	0.000	0.000
0.29	2.25	2.25	0.0308	352.13	0.000	0.000
0.31	1.92	1.92	0.0344	352.14	0.000	0.000
0.33	1.59	1.59	0.0375	352.15	0.000	0.000
0.35	1.41	1.41	0.0400	352.16	0.000	0.000
0.37	1.23	1.23	0.0423	352.17	0.000	0.000
0.40	1.05	1.05	0.0443	352.18	0.000	0.000
0.42	0.88	0.88	0.0459	352.19	0.000	0.000
0.44	0.84	0.84	0.0474	352.19	0.000	0.000
0.46	0.80	0.80	0.0488	352.20	0.000	0.000
0.48	0.76	0.76	0.0502	352.21	0.000	0.000
0.50	0.72	0.72	0.0514	352.21	0.000	0.000
0.52	0.67	0.67	0.0526	352.22	0.000	0.000
0.54	0.62	0.62	0.0537	352.22	0.000	0.000
0.56	0.57	0.57	0.0547	352.22	0.000	0.000
0.58	0.52	0.52	0.0557	352.23	0.000	0.000
0.60	0.50	0.50	0.0566	352.23	0.000	0.000
0.62	0.49	0.49	0.0574	352.24	0.000	0.000
0.65	0.47	0.47	0.0582	352.24	0.000	0.000
0.67	0.46	0.46	0.0590	352.24	0.000	0.000
0.69	0.44	0.44	0.0598	352.25	0.000	0.000
0.71	0.43	0.43	0.0606	352.25	0.000	0.000
0.73	0.42	0.42	0.0613	352.25	0.000	0.000
0.75	0.40	0.40	0.0620	352.25	0.000	0.000
0.77	0.39	0.39	0.0627	352.26	0.000	0.000
0.79	0.38	0.38	0.0633	352.26	0.000	0.000
0.81	0.37	0.37	0.0640	352.26	0.000	0.000
0.83	0.36	0.36	0.0646	352.26	0.000	0.000
0.85	0.35	0.35	0.0652	352.27	0.000	0.000
0.87	0.34	0.34	0.0658	352.27	0.000	0.000
0.90	0.33	0.33	0.0664	352.27	0.000	0.000
0.92	0.32	0.32	0.0670	352.27	0.000	0.000
0.94	0.32	0.32	0.0675	352.28	0.000	0.000
0.96	0.31	0.31	0.0681	352.28	0.000	0.000
0.98	0.30	0.30	0.0686	352.28	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
1.00	0.30	0.30	0.0691	352.28	0.000	0.000
1.02	0.28	0.28	0.0696	352.29	0.000	0.000
1.04	0.26	0.26	0.0701	352.29	0.000	0.000
1.06	0.25	0.25	0.0705	352.29	0.000	0.000
1.08	0.23	0.23	0.0709	352.29	0.000	0.000
1.10	0.23	0.23	0.0713	352.29	0.000	0.000
1.12	0.23	0.23	0.0717	352.29	0.000	0.000
1.15	0.23	0.23	0.0721	352.30	0.000	0.000
1.17	0.23	0.23	0.0725	352.30	0.000	0.000
1.19	0.23	0.23	0.0729	352.30	0.000	0.000
1.21	0.22	0.22	0.0733	352.30	0.000	0.000
1.23	0.22	0.22	0.0737	352.30	0.000	0.000
1.25	0.22	0.22	0.0740	352.30	0.000	0.000
1.27	0.21	0.21	0.0744	352.31	0.000	0.000
1.29	0.21	0.21	0.0748	352.31	0.000	0.000
1.31	0.21	0.21	0.0751	352.31	0.000	0.000
1.33	0.21	0.21	0.0755	352.31	0.000	0.000
1.35	0.20	0.20	0.0758	352.31	0.000	0.000
1.37	0.20	0.20	0.0762	352.31	0.000	0.000
1.40	0.20	0.20	0.0765	352.31	0.000	0.000
1.42	0.20	0.20	0.0769	352.32	0.000	0.000
1.44	0.20	0.20	0.0772	352.32	0.000	0.000
1.46	0.19	0.19	0.0776	352.32	0.000	0.000
1.48	0.19	0.19	0.0779	352.32	0.000	0.000
1.50	0.19	0.19	0.0782	352.32	0.000	0.000
1.52	0.19	0.19	0.0785	352.32	0.000	0.000
1.54	0.18	0.18	0.0789	352.32	0.000	0.000
1.56	0.18	0.18	0.0792	352.32	0.000	0.000
1.58	0.18	0.18	0.0795	352.33	0.000	0.000
1.60	0.18	0.18	0.0798	352.33	0.000	0.000
1.62	0.18	0.18	0.0801	352.33	0.000	0.000
1.65	0.18	0.18	0.0804	352.33	0.000	0.000
1.67	0.18	0.18	0.0807	352.33	0.000	0.000
1.69	0.17	0.17	0.0810	352.33	0.000	0.000
1.71	0.17	0.17	0.0813	352.33	0.000	0.000
1.73	0.17	0.17	0.0816	352.33	0.000	0.000
1.75	0.17	0.17	0.0819	352.34	0.000	0.000
1.77	0.17	0.17	0.0822	352.34	0.000	0.000
1.79	0.17	0.17	0.0825	352.34	0.000	0.000
1.81	0.16	0.16	0.0827	352.34	0.000	0.000
1.83	0.16	0.16	0.0830	352.34	0.000	0.000
1.85	0.16	0.16	0.0833	352.34	0.000	0.000
1.87	0.16	0.16	0.0836	352.34	0.000	0.000
1.90	0.16	0.16	0.0839	352.34	0.000	0.000
1.92	0.16	0.16	0.0841	352.34	0.000	0.000
1.94	0.16	0.16	0.0844	352.35	0.000	0.000
1.96	0.15	0.15	0.0847	352.35	0.000	0.000
1.98	0.15	0.15	0.0849	352.35	0.000	0.000
2.00	0.15	0.15	0.0852	352.35	0.000	0.000
2.02	0.15	0.15	0.0854	352.35	0.000	0.000
2.04	0.15	0.15	0.0857	352.35	0.000	0.000
2.06	0.15	0.15	0.0860	352.35	0.000	0.000
2.08	0.15	0.15	0.0862	352.35	0.000	0.000
2.10	0.15	0.15	0.0865	352.35	0.000	0.000
2.12	0.15	0.15	0.0867	352.36	0.000	0.000
2.15	0.15	0.15	0.0870	352.36	0.000	0.000
2.17	0.15	0.15	0.0873	352.36	0.000	0.000
2.19	0.14	0.14	0.0875	352.36	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
2.21	0.14	0.14	0.0877	352.36	0.000	0.000
2.23	0.14	0.14	0.0880	352.36	0.000	0.000
2.25	0.14	0.14	0.0882	352.36	0.000	0.000
2.27	0.14	0.14	0.0885	352.36	0.000	0.000
2.29	0.14	0.14	0.0887	352.36	0.000	0.000
2.31	0.13	0.13	0.0889	352.36	0.000	0.000
2.33	0.13	0.13	0.0892	352.37	0.000	0.000
2.35	0.13	0.13	0.0894	352.37	0.000	0.000
2.37	0.13	0.13	0.0896	352.37	0.000	0.000
2.40	0.12	0.12	0.0898	352.37	0.000	0.000
2.42	0.12	0.12	0.0900	352.37	0.000	0.000
2.44	0.12	0.12	0.0902	352.37	0.000	0.000
2.46	0.12	0.12	0.0904	352.37	0.000	0.000
2.48	0.12	0.12	0.0907	352.37	0.000	0.000
2.50	0.11	0.11	0.0909	352.37	0.000	0.000
2.52	0.11	0.11	0.0910	352.37	0.000	0.000
2.54	0.11	0.11	0.0912	352.37	0.000	0.000
2.56	0.11	0.11	0.0914	352.37	0.000	0.000
2.58	0.10	0.10	0.0916	352.38	0.000	0.000
2.60	0.10	0.10	0.0918	352.38	0.000	0.000
2.62	0.10	0.10	0.0919	352.38	0.000	0.000
2.65	0.10	0.10	0.0921	352.38	0.000	0.000
2.67	0.09	0.09	0.0923	352.38	0.000	0.000
2.69	0.09	0.09	0.0924	352.38	0.000	0.000
2.71	0.09	0.09	0.0926	352.38	0.000	0.000
2.73	0.08	0.08	0.0927	352.38	0.000	0.000
2.75	0.08	0.08	0.0929	352.38	0.000	0.000
2.77	0.08	0.08	0.0930	352.38	0.000	0.000
2.79	0.07	0.07	0.0931	352.38	0.000	0.000
2.81	0.07	0.07	0.0933	352.38	0.000	0.000
2.83	0.06	0.06	0.0934	352.38	0.000	0.000
2.85	0.06	0.06	0.0935	352.38	0.000	0.000
2.87	0.05	0.05	0.0936	352.38	0.000	0.000
2.90	0.05	0.05	0.0937	352.38	0.000	0.000
2.92	0.04	0.04	0.0937	352.38	0.000	0.000
2.94	0.04	0.04	0.0938	352.38	0.000	0.000
2.96	0.03	0.03	0.0939	352.38	0.000	0.000
2.98	0.03	0.03	0.0939	352.38	0.000	0.000
3.00	0.02	0.02	0.0940	352.39	0.000	0.000
3.02	0.02	0.02	0.0940	352.39	0.000	0.000
3.04	0.01	0.01	0.0940	352.39	0.000	0.000
3.06	0.00	0.00	0.0940	352.39	0.000	0.000
3.08	0.00	0.00	0.0940	352.39	0.000	0.000

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 10 YR EXT.HYD

Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES

Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs

Starting Pool Elevation = 352.00 feet

Time Interval = 0.0208333 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
0.00	0.00	0.00	0.0000	352.00	0.000	0.000
0.02	0.21	0.21	0.0002	352.00	0.000	0.000
0.04	0.43	0.43	0.0007	352.00	0.000	0.000
0.06	0.64	0.64	0.0017	352.01	0.000	0.000
0.08	0.86	0.86	0.0030	352.01	0.000	0.000
0.10	1.06	1.06	0.0046	352.02	0.000	0.000
0.12	1.26	1.26	0.0066	352.03	0.000	0.000
0.15	1.46	1.46	0.0089	352.04	0.000	0.000
0.17	1.65	1.65	0.0116	352.05	0.000	0.000
0.19	2.18	2.18	0.0149	352.06	0.000	0.000
0.21	2.71	2.71	0.0191	352.08	0.000	0.000
0.23	3.23	3.23	0.0242	352.10	0.000	0.000
0.25	3.76	3.76	0.0303	352.12	0.000	0.000
0.27	3.40	3.40	0.0364	352.15	0.000	0.000
0.29	3.04	3.04	0.0420	352.17	0.000	0.000
0.31	2.67	2.67	0.0469	352.19	0.000	0.000
0.33	2.31	2.31	0.0512	352.21	0.000	0.000
0.35	2.05	2.05	0.0549	352.23	0.000	0.000
0.37	1.80	1.80	0.0582	352.24	0.000	0.000
0.40	1.54	1.54	0.0611	352.25	0.000	0.000
0.42	1.28	1.28	0.0635	352.26	0.000	0.000
0.44	1.22	1.22	0.0657	352.27	0.000	0.000
0.46	1.16	1.16	0.0677	352.28	0.000	0.000
0.48	1.09	1.09	0.0697	352.29	0.000	0.000
0.50	1.03	1.03	0.0715	352.29	0.000	0.000
0.52	0.96	0.96	0.0732	352.30	0.000	0.000
0.54	0.88	0.88	0.0748	352.31	0.000	0.000
0.56	0.81	0.81	0.0762	352.31	0.000	0.000
0.58	0.73	0.73	0.0776	352.32	0.000	0.000
0.60	0.71	0.71	0.0788	352.32	0.000	0.000
0.62	0.68	0.68	0.0800	352.33	0.000	0.000
0.65	0.66	0.66	0.0811	352.33	0.000	0.000
0.67	0.63	0.63	0.0822	352.34	0.000	0.000
0.69	0.61	0.61	0.0833	352.34	0.000	0.000
0.71	0.59	0.59	0.0843	352.35	0.000	0.000
0.73	0.57	0.57	0.0853	352.35	0.000	0.000
0.75	0.55	0.55	0.0863	352.35	0.000	0.000
0.77	0.53	0.53	0.0872	352.36	0.000	0.000
0.79	0.52	0.52	0.0881	352.36	0.000	0.000
0.81	0.50	0.50	0.0890	352.36	0.000	0.000
0.83	0.48	0.48	0.0899	352.37	0.000	0.000
0.85	0.47	0.47	0.0907	352.37	0.000	0.000
0.87	0.46	0.46	0.0915	352.37	0.000	0.000
0.90	0.45	0.45	0.0923	352.38	0.000	0.000
0.92	0.43	0.43	0.0930	352.38	0.000	0.000
0.94	0.42	0.42	0.0938	352.38	0.000	0.000
0.96	0.41	0.41	0.0945	352.39	0.000	0.000
0.98	0.40	0.40	0.0952	352.39	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
1.00	0.39	0.39	0.0958	352.39	0.000	0.000
1.02	0.39	0.39	0.0965	352.40	0.000	0.000
1.04	0.39	0.39	0.0972	352.40	0.000	0.000
1.06	0.39	0.39	0.0978	352.40	0.000	0.000
1.08	0.39	0.39	0.0985	352.40	0.000	0.000
1.10	0.38	0.38	0.0992	352.41	0.000	0.000
1.12	0.38	0.38	0.0998	352.41	0.000	0.000
1.15	0.37	0.37	0.1004	352.41	0.000	0.000
1.17	0.36	0.36	0.1011	352.41	0.000	0.000
1.19	0.36	0.36	0.1017	352.42	0.000	0.000
1.21	0.36	0.36	0.1023	352.42	0.000	0.000
1.23	0.35	0.35	0.1029	352.42	0.000	0.000
1.25	0.35	0.35	0.1035	352.42	0.000	0.000
1.27	0.35	0.35	0.1041	352.43	0.000	0.000
1.29	0.35	0.35	0.1047	352.43	0.000	0.000
1.31	0.35	0.35	0.1053	352.43	0.000	0.000
1.33	0.35	0.35	0.1059	352.43	0.000	0.000
1.35	0.34	0.34	0.1065	352.44	0.000	0.000
1.37	0.34	0.34	0.1071	352.44	0.000	0.000
1.40	0.34	0.34	0.1077	352.44	0.000	0.000
1.42	0.33	0.33	0.1083	352.44	0.000	0.000
1.44	0.33	0.33	0.1088	352.45	0.000	0.000
1.46	0.33	0.33	0.1094	352.45	0.000	0.000
1.48	0.32	0.32	0.1100	352.45	0.000	0.000
1.50	0.32	0.32	0.1105	352.45	0.000	0.000
1.52	0.32	0.32	0.1111	352.46	0.000	0.000
1.54	0.31	0.31	0.1116	352.46	0.000	0.000
1.56	0.31	0.31	0.1121	352.46	0.000	0.000
1.58	0.30	0.30	0.1127	352.46	0.000	0.000
1.60	0.30	0.30	0.1132	352.46	0.000	0.000
1.62	0.30	0.30	0.1137	352.47	0.000	0.000
1.65	0.30	0.30	0.1142	352.47	0.000	0.000
1.67	0.29	0.29	0.1147	352.47	0.000	0.000
1.69	0.29	0.29	0.1152	352.47	0.000	0.000
1.71	0.29	0.29	0.1157	352.47	0.000	0.000
1.73	0.29	0.29	0.1162	352.48	0.000	0.000
1.75	0.28	0.28	0.1167	352.48	0.000	0.000
1.77	0.28	0.28	0.1172	352.48	0.000	0.000
1.79	0.28	0.28	0.1177	352.48	0.000	0.000
1.81	0.28	0.28	0.1182	352.48	0.000	0.000
1.83	0.27	0.27	0.1186	352.49	0.000	0.000
1.85	0.27	0.27	0.1191	352.49	0.000	0.000
1.87	0.27	0.27	0.1196	352.49	0.000	0.000
1.90	0.27	0.27	0.1200	352.49	0.000	0.000
1.92	0.27	0.27	0.1205	352.49	0.000	0.000
1.94	0.26	0.26	0.1209	352.50	0.000	0.000
1.96	0.26	0.26	0.1214	352.50	0.000	0.000
1.98	0.26	0.26	0.1218	352.50	0.000	0.000
2.00	0.26	0.26	0.1223	352.50	0.000	0.000
2.02	0.25	0.25	0.1227	352.50	0.000	0.000
2.04	0.25	0.25	0.1232	352.50	0.000	0.000
2.06	0.25	0.25	0.1236	352.51	0.000	0.000
2.08	0.25	0.25	0.1240	352.51	0.000	0.000
2.10	0.24	0.24	0.1244	352.51	0.000	0.000
2.12	0.24	0.24	0.1249	352.51	0.000	0.000
2.15	0.23	0.23	0.1253	352.51	0.000	0.000
2.17	0.23	0.23	0.1257	352.52	0.000	0.000
2.19	0.22	0.22	0.1260	352.52	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
2.21	0.22	0.22	0.1264	352.52	0.000	0.000
2.23	0.21	0.21	0.1268	352.52	0.000	0.000
2.25	0.21	0.21	0.1272	352.52	0.000	0.000
2.27	0.20	0.20	0.1275	352.52	0.000	0.000
2.29	0.20	0.20	0.1279	352.52	0.000	0.000
2.31	0.19	0.19	0.1282	352.53	0.000	0.000
2.33	0.19	0.19	0.1285	352.53	0.000	0.000
2.35	0.18	0.18	0.1288	352.53	0.000	0.000
2.37	0.18	0.18	0.1291	352.53	0.000	0.000
2.40	0.17	0.17	0.1294	352.53	0.000	0.000
2.42	0.17	0.17	0.1297	352.53	0.000	0.000
2.44	0.16	0.16	0.1300	352.53	0.000	0.000
2.46	0.16	0.16	0.1303	352.53	0.000	0.000
2.48	0.15	0.15	0.1306	352.54	0.000	0.000
2.50	0.15	0.15	0.1308	352.54	0.000	0.000
2.52	0.14	0.14	0.1311	352.54	0.000	0.000
2.54	0.14	0.14	0.1313	352.54	0.000	0.000
2.56	0.13	0.13	0.1315	352.54	0.000	0.000
2.58	0.13	0.13	0.1318	352.54	0.000	0.000
2.60	0.12	0.12	0.1320	352.54	0.000	0.000
2.62	0.12	0.12	0.1322	352.54	0.000	0.000
2.65	0.11	0.11	0.1324	352.54	0.000	0.000
2.67	0.11	0.11	0.1326	352.54	0.000	0.000
2.69	0.10	0.10	0.1328	352.54	0.000	0.000
2.71	0.10	0.10	0.1329	352.54	0.000	0.000
2.73	0.09	0.09	0.1331	352.55	0.000	0.000
2.75	0.09	0.09	0.1333	352.55	0.000	0.000
2.77	0.08	0.08	0.1334	352.55	0.000	0.000
2.79	0.07	0.07	0.1335	352.55	0.000	0.000
2.81	0.07	0.07	0.1336	352.55	0.000	0.000
2.83	0.06	0.06	0.1338	352.55	0.000	0.000
2.85	0.06	0.06	0.1339	352.55	0.000	0.000
2.87	0.05	0.05	0.1340	352.55	0.000	0.000
2.90	0.05	0.05	0.1340	352.55	0.000	0.000
2.92	0.04	0.04	0.1341	352.55	0.000	0.000
2.94	0.04	0.04	0.1342	352.55	0.000	0.000
2.96	0.03	0.03	0.1343	352.55	0.000	0.000
2.98	0.03	0.03	0.1343	352.55	0.000	0.000
3.00	0.02	0.02	0.1343	352.55	0.000	0.000
3.02	0.02	0.02	0.1344	352.55	0.000	0.000
3.04	0.01	0.01	0.1344	352.55	0.000	0.000
3.06	0.00	0.00	0.1344	352.55	0.000	0.000

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 25 YR EXT.HYD

Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES

Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs

Starting Pool Elevation = 352.00 feet

Time Interval = 0.0208333 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
0.00	0.00	0.00	0.0000	352.00	0.000	0.000
0.02	0.24	0.24	0.0002	352.00	0.000	0.000
0.04	0.49	0.49	0.0008	352.00	0.000	0.000
0.06	0.73	0.73	0.0019	352.01	0.000	0.000
0.08	0.98	0.98	0.0034	352.01	0.000	0.000
0.10	1.19	1.19	0.0052	352.02	0.000	0.000
0.12	1.41	1.41	0.0075	352.03	0.000	0.000
0.15	1.62	1.62	0.0101	352.04	0.000	0.000
0.17	1.84	1.84	0.0131	352.05	0.000	0.000
0.19	2.42	2.42	0.0167	352.07	0.000	0.000
0.21	3.00	3.00	0.0214	352.09	0.000	0.000
0.23	3.59	3.59	0.0271	352.11	0.000	0.000
0.25	4.17	4.17	0.0337	352.14	0.000	0.000
0.27	3.76	3.76	0.0406	352.17	0.000	0.000
0.29	3.36	3.36	0.0467	352.19	0.000	0.000
0.31	2.95	2.95	0.0521	352.21	0.000	0.000
0.33	2.55	2.55	0.0569	352.23	0.000	0.000
0.35	2.27	2.27	0.0610	352.25	0.000	0.000
0.37	1.99	1.99	0.0647	352.27	0.000	0.000
0.40	1.71	1.71	0.0679	352.28	0.000	0.000
0.42	1.43	1.43	0.0706	352.29	0.000	0.000
0.44	1.36	1.36	0.0730	352.30	0.000	0.000
0.46	1.30	1.30	0.0753	352.31	0.000	0.000
0.48	1.23	1.23	0.0774	352.32	0.000	0.000
0.50	1.16	1.16	0.0795	352.33	0.000	0.000
0.52	1.08	1.08	0.0814	352.33	0.000	0.000
0.54	1.00	1.00	0.0832	352.34	0.000	0.000
0.56	0.92	0.92	0.0849	352.35	0.000	0.000
0.58	0.84	0.84	0.0864	352.35	0.000	0.000
0.60	0.81	0.81	0.0878	352.36	0.000	0.000
0.62	0.78	0.78	0.0892	352.37	0.000	0.000
0.65	0.75	0.75	0.0905	352.37	0.000	0.000
0.67	0.73	0.73	0.0918	352.38	0.000	0.000
0.69	0.70	0.70	0.0930	352.38	0.000	0.000
0.71	0.68	0.68	0.0942	352.39	0.000	0.000
0.73	0.66	0.66	0.0954	352.39	0.000	0.000
0.75	0.64	0.64	0.0965	352.40	0.000	0.000
0.77	0.62	0.62	0.0975	352.40	0.000	0.000
0.79	0.60	0.60	0.0986	352.40	0.000	0.000
0.81	0.58	0.58	0.0996	352.41	0.000	0.000
0.83	0.57	0.57	0.1006	352.41	0.000	0.000
0.85	0.56	0.56	0.1016	352.42	0.000	0.000
0.87	0.55	0.55	0.1025	352.42	0.000	0.000
0.90	0.54	0.54	0.1035	352.42	0.000	0.000
0.92	0.53	0.53	0.1044	352.43	0.000	0.000
0.94	0.53	0.53	0.1053	352.43	0.000	0.000
0.96	0.52	0.52	0.1062	352.44	0.000	0.000
0.98	0.51	0.51	0.1071	352.44	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
1.00	0.51	0.51	0.1080	352.44	0.000	0.000
1.02	0.50	0.50	0.1088	352.45	0.000	0.000
1.04	0.49	0.49	0.1097	352.45	0.000	0.000
1.06	0.48	0.48	0.1105	352.45	0.000	0.000
1.08	0.47	0.47	0.1113	352.46	0.000	0.000
1.10	0.46	0.46	0.1121	352.46	0.000	0.000
1.12	0.46	0.46	0.1129	352.46	0.000	0.000
1.15	0.46	0.46	0.1137	352.47	0.000	0.000
1.17	0.46	0.46	0.1145	352.47	0.000	0.000
1.19	0.45	0.45	0.1153	352.47	0.000	0.000
1.21	0.45	0.45	0.1161	352.48	0.000	0.000
1.23	0.45	0.45	0.1168	352.48	0.000	0.000
1.25	0.45	0.45	0.1176	352.48	0.000	0.000
1.27	0.44	0.44	0.1184	352.49	0.000	0.000
1.29	0.43	0.43	0.1191	352.49	0.000	0.000
1.31	0.43	0.43	0.1199	352.49	0.000	0.000
1.33	0.42	0.42	0.1206	352.49	0.000	0.000
1.35	0.42	0.42	0.1213	352.50	0.000	0.000
1.37	0.41	0.41	0.1220	352.50	0.000	0.000
1.40	0.41	0.41	0.1228	352.50	0.000	0.000
1.42	0.41	0.41	0.1235	352.51	0.000	0.000
1.44	0.40	0.40	0.1242	352.51	0.000	0.000
1.46	0.40	0.40	0.1248	352.51	0.000	0.000
1.48	0.39	0.39	0.1255	352.51	0.000	0.000
1.50	0.39	0.39	0.1262	352.52	0.000	0.000
1.52	0.39	0.39	0.1269	352.52	0.000	0.000
1.54	0.38	0.38	0.1275	352.52	0.000	0.000
1.56	0.38	0.38	0.1282	352.53	0.000	0.000
1.58	0.37	0.37	0.1288	352.53	0.000	0.000
1.60	0.37	0.37	0.1295	352.53	0.000	0.000
1.62	0.37	0.37	0.1301	352.53	0.000	0.000
1.65	0.36	0.36	0.1307	352.54	0.000	0.000
1.67	0.36	0.36	0.1313	352.54	0.000	0.000
1.69	0.36	0.36	0.1320	352.54	0.000	0.000
1.71	0.35	0.35	0.1326	352.54	0.000	0.000
1.73	0.35	0.35	0.1332	352.55	0.000	0.000
1.75	0.35	0.35	0.1338	352.55	0.000	0.000
1.77	0.34	0.34	0.1344	352.55	0.000	0.000
1.79	0.34	0.34	0.1350	352.55	0.000	0.000
1.81	0.34	0.34	0.1356	352.56	0.000	0.000
1.83	0.34	0.34	0.1361	352.56	0.000	0.000
1.85	0.33	0.33	0.1367	352.56	0.000	0.000
1.87	0.33	0.33	0.1373	352.56	0.000	0.000
1.90	0.33	0.33	0.1378	352.56	0.000	0.000
1.92	0.32	0.32	0.1384	352.57	0.000	0.000
1.94	0.32	0.32	0.1390	352.57	0.000	0.000
1.96	0.32	0.32	0.1395	352.57	0.000	0.000
1.98	0.32	0.32	0.1401	352.57	0.000	0.000
2.00	0.31	0.31	0.1406	352.58	0.000	0.000
2.02	0.31	0.31	0.1411	352.58	0.000	0.000
2.04	0.30	0.30	0.1417	352.58	0.000	0.000
2.06	0.30	0.30	0.1422	352.58	0.000	0.000
2.08	0.31	0.31	0.1427	352.58	0.000	0.000
2.10	0.31	0.31	0.1432	352.59	0.000	0.000
2.12	0.30	0.30	0.1438	352.59	0.000	0.000
2.15	0.30	0.30	0.1443	352.59	0.000	0.000
2.17	0.29	0.29	0.1448	352.59	0.000	0.000
2.19	0.29	0.29	0.1453	352.60	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
2.21	0.28	0.28	0.1458	352.60	0.000	0.000
2.23	0.28	0.28	0.1463	352.60	0.000	0.000
2.25	0.27	0.27	0.1467	352.60	0.000	0.000
2.27	0.27	0.27	0.1472	352.60	0.000	0.000
2.29	0.26	0.26	0.1477	352.61	0.000	0.000
2.31	0.26	0.26	0.1481	352.61	0.000	0.000
2.33	0.25	0.25	0.1485	352.61	0.000	0.000
2.35	0.25	0.25	0.1490	352.61	0.000	0.000
2.37	0.24	0.24	0.1494	352.61	0.000	0.000
2.40	0.24	0.24	0.1498	352.61	0.000	0.000
2.42	0.23	0.23	0.1502	352.62	0.000	0.000
2.44	0.23	0.23	0.1506	352.62	0.000	0.000
2.46	0.22	0.22	0.1510	352.62	0.000	0.000
2.48	0.22	0.22	0.1514	352.62	0.000	0.000
2.50	0.21	0.21	0.1518	352.62	0.000	0.000
2.52	0.21	0.21	0.1521	352.62	0.000	0.000
2.54	0.20	0.20	0.1525	352.62	0.000	0.000
2.56	0.20	0.20	0.1528	352.63	0.000	0.000
2.58	0.19	0.19	0.1531	352.63	0.000	0.000
2.60	0.19	0.19	0.1535	352.63	0.000	0.000
2.62	0.18	0.18	0.1538	352.63	0.000	0.000
2.65	0.18	0.18	0.1541	352.63	0.000	0.000
2.67	0.17	0.17	0.1544	352.63	0.000	0.000
2.69	0.17	0.17	0.1547	352.63	0.000	0.000
2.71	0.16	0.16	0.1550	352.64	0.000	0.000
2.73	0.16	0.16	0.1553	352.64	0.000	0.000
2.75	0.15	0.15	0.1555	352.64	0.000	0.000
2.77	0.14	0.14	0.1558	352.64	0.000	0.000
2.79	0.13	0.13	0.1560	352.64	0.000	0.000
2.81	0.12	0.12	0.1562	352.64	0.000	0.000
2.83	0.11	0.11	0.1564	352.64	0.000	0.000
2.85	0.10	0.10	0.1566	352.64	0.000	0.000
2.87	0.09	0.09	0.1568	352.64	0.000	0.000
2.90	0.08	0.08	0.1569	352.64	0.000	0.000
2.92	0.07	0.07	0.1570	352.64	0.000	0.000
2.94	0.06	0.06	0.1571	352.64	0.000	0.000
2.96	0.05	0.05	0.1572	352.64	0.000	0.000
2.98	0.04	0.04	0.1573	352.64	0.000	0.000
3.00	0.03	0.03	0.1574	352.65	0.000	0.000
3.02	0.02	0.02	0.1574	352.65	0.000	0.000
3.04	0.01	0.01	0.1575	352.65	0.000	0.000
3.06	0.00	0.00	0.1575	352.65	0.000	0.000

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 50 YR EXT.HYD

Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES

Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs

Starting Pool Elevation = 352.00 feet

Time Interval = 0.0208333 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
0.00	0.00	0.00	0.0000	352.00	0.000	0.000
0.02	0.28	0.28	0.0002	352.00	0.000	0.000
0.04	0.56	0.56	0.0010	352.00	0.000	0.000
0.06	0.84	0.84	0.0022	352.01	0.000	0.000
0.08	1.13	1.13	0.0039	352.02	0.000	0.000
0.10	1.35	1.35	0.0060	352.02	0.000	0.000
0.12	1.58	1.58	0.0085	352.03	0.000	0.000
0.15	1.80	1.80	0.0114	352.05	0.000	0.000
0.17	2.03	2.03	0.0147	352.06	0.000	0.000
0.19	2.67	2.67	0.0188	352.08	0.000	0.000
0.21	3.31	3.31	0.0239	352.10	0.000	0.000
0.23	3.95	3.95	0.0302	352.12	0.000	0.000
0.25	4.60	4.60	0.0375	352.15	0.000	0.000
0.27	4.14	4.14	0.0451	352.18	0.000	0.000
0.29	3.68	3.68	0.0518	352.21	0.000	0.000
0.31	3.23	3.23	0.0577	352.24	0.000	0.000
0.33	2.77	2.77	0.0629	352.26	0.000	0.000
0.35	2.48	2.48	0.0674	352.28	0.000	0.000
0.37	2.19	2.19	0.0714	352.29	0.000	0.000
0.40	1.89	1.89	0.0749	352.31	0.000	0.000
0.42	1.60	1.60	0.0780	352.32	0.000	0.000
0.44	1.53	1.53	0.0807	352.33	0.000	0.000
0.46	1.46	1.46	0.0832	352.34	0.000	0.000
0.48	1.40	1.40	0.0857	352.35	0.000	0.000
0.50	1.33	1.33	0.0880	352.36	0.000	0.000
0.52	1.24	1.24	0.0903	352.37	0.000	0.000
0.54	1.15	1.15	0.0923	352.38	0.000	0.000
0.56	1.07	1.07	0.0942	352.39	0.000	0.000
0.58	0.98	0.98	0.0960	352.39	0.000	0.000
0.60	0.95	0.95	0.0976	352.40	0.000	0.000
0.62	0.92	0.92	0.0993	352.41	0.000	0.000
0.65	0.89	0.89	0.1008	352.41	0.000	0.000
0.67	0.86	0.86	0.1023	352.42	0.000	0.000
0.69	0.84	0.84	0.1038	352.43	0.000	0.000
0.71	0.81	0.81	0.1052	352.43	0.000	0.000
0.73	0.79	0.79	0.1066	352.44	0.000	0.000
0.75	0.77	0.77	0.1079	352.44	0.000	0.000
0.77	0.75	0.75	0.1092	352.45	0.000	0.000
0.79	0.73	0.73	0.1105	352.45	0.000	0.000
0.81	0.71	0.71	0.1117	352.46	0.000	0.000
0.83	0.69	0.69	0.1129	352.46	0.000	0.000
0.85	0.67	0.67	0.1141	352.47	0.000	0.000
0.87	0.66	0.66	0.1152	352.47	0.000	0.000
0.90	0.64	0.64	0.1164	352.48	0.000	0.000
0.92	0.63	0.63	0.1175	352.48	0.000	0.000
0.94	0.63	0.63	0.1185	352.49	0.000	0.000
0.96	0.62	0.62	0.1196	352.49	0.000	0.000
0.98	0.62	0.62	0.1207	352.49	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
1.00	0.62	0.62	0.1218	352.50	0.000	0.000
1.02	0.61	0.61	0.1228	352.50	0.000	0.000
1.04	0.60	0.60	0.1239	352.51	0.000	0.000
1.06	0.58	0.58	0.1249	352.51	0.000	0.000
1.08	0.57	0.57	0.1259	352.52	0.000	0.000
1.10	0.56	0.56	0.1268	352.52	0.000	0.000
1.12	0.55	0.55	0.1278	352.52	0.000	0.000
1.15	0.55	0.55	0.1287	352.53	0.000	0.000
1.17	0.54	0.54	0.1297	352.53	0.000	0.000
1.19	0.53	0.53	0.1306	352.54	0.000	0.000
1.21	0.52	0.52	0.1315	352.54	0.000	0.000
1.23	0.52	0.52	0.1324	352.54	0.000	0.000
1.25	0.51	0.51	0.1333	352.55	0.000	0.000
1.27	0.51	0.51	0.1342	352.55	0.000	0.000
1.29	0.50	0.50	0.1350	352.55	0.000	0.000
1.31	0.49	0.49	0.1359	352.56	0.000	0.000
1.33	0.49	0.49	0.1367	352.56	0.000	0.000
1.35	0.48	0.48	0.1376	352.56	0.000	0.000
1.37	0.48	0.48	0.1384	352.57	0.000	0.000
1.40	0.47	0.47	0.1392	352.57	0.000	0.000
1.42	0.47	0.47	0.1400	352.57	0.000	0.000
1.44	0.46	0.46	0.1408	352.58	0.000	0.000
1.46	0.46	0.46	0.1416	352.58	0.000	0.000
1.48	0.45	0.45	0.1424	352.58	0.000	0.000
1.50	0.45	0.45	0.1432	352.59	0.000	0.000
1.52	0.44	0.44	0.1439	352.59	0.000	0.000
1.54	0.44	0.44	0.1447	352.59	0.000	0.000
1.56	0.44	0.44	0.1455	352.60	0.000	0.000
1.58	0.43	0.43	0.1462	352.60	0.000	0.000
1.60	0.43	0.43	0.1470	352.60	0.000	0.000
1.62	0.42	0.42	0.1477	352.61	0.000	0.000
1.65	0.42	0.42	0.1484	352.61	0.000	0.000
1.67	0.42	0.42	0.1491	352.61	0.000	0.000
1.69	0.41	0.41	0.1498	352.61	0.000	0.000
1.71	0.41	0.41	0.1506	352.62	0.000	0.000
1.73	0.41	0.41	0.1513	352.62	0.000	0.000
1.75	0.40	0.40	0.1520	352.62	0.000	0.000
1.77	0.40	0.40	0.1526	352.63	0.000	0.000
1.79	0.40	0.40	0.1533	352.63	0.000	0.000
1.81	0.39	0.39	0.1540	352.63	0.000	0.000
1.83	0.39	0.39	0.1547	352.63	0.000	0.000
1.85	0.39	0.39	0.1554	352.64	0.000	0.000
1.87	0.38	0.38	0.1560	352.64	0.000	0.000
1.90	0.38	0.38	0.1567	352.64	0.000	0.000
1.92	0.38	0.38	0.1573	352.64	0.000	0.000
1.94	0.37	0.37	0.1580	352.65	0.000	0.000
1.96	0.37	0.37	0.1586	352.65	0.000	0.000
1.98	0.37	0.37	0.1592	352.65	0.000	0.000
2.00	0.36	0.36	0.1599	352.66	0.000	0.000
2.02	0.36	0.36	0.1605	352.66	0.000	0.000
2.04	0.36	0.36	0.1611	352.66	0.000	0.000
2.06	0.36	0.36	0.1617	352.66	0.000	0.000
2.08	0.35	0.35	0.1623	352.67	0.000	0.000
2.10	0.34	0.34	0.1629	352.67	0.000	0.000
2.12	0.33	0.33	0.1635	352.67	0.000	0.000
2.15	0.32	0.32	0.1641	352.67	0.000	0.000
2.17	0.31	0.31	0.1646	352.67	0.000	0.000
2.19	0.30	0.30	0.1652	352.68	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
2.21	0.29	0.29	0.1657	352.68	0.000	0.000
2.23	0.28	0.28	0.1661	352.68	0.000	0.000
2.25	0.27	0.27	0.1666	352.68	0.000	0.000
2.27	0.27	0.27	0.1671	352.68	0.000	0.000
2.29	0.26	0.26	0.1675	352.69	0.000	0.000
2.31	0.26	0.26	0.1680	352.69	0.000	0.000
2.33	0.25	0.25	0.1684	352.69	0.000	0.000
2.35	0.25	0.25	0.1689	352.69	0.000	0.000
2.37	0.24	0.24	0.1693	352.69	0.000	0.000
2.40	0.24	0.24	0.1697	352.70	0.000	0.000
2.42	0.23	0.23	0.1701	352.70	0.000	0.000
2.44	0.23	0.23	0.1705	352.70	0.000	0.000
2.46	0.22	0.22	0.1709	352.70	0.000	0.000
2.48	0.22	0.22	0.1713	352.70	0.000	0.000
2.50	0.21	0.21	0.1716	352.70	0.000	0.000
2.52	0.21	0.21	0.1720	352.70	0.000	0.000
2.54	0.20	0.20	0.1723	352.71	0.000	0.000
2.56	0.20	0.20	0.1727	352.71	0.000	0.000
2.58	0.19	0.19	0.1730	352.71	0.000	0.000
2.60	0.19	0.19	0.1734	352.71	0.000	0.000
2.62	0.18	0.18	0.1737	352.71	0.000	0.000
2.65	0.18	0.18	0.1740	352.71	0.000	0.000
2.67	0.17	0.17	0.1743	352.71	0.000	0.000
2.69	0.17	0.17	0.1746	352.72	0.000	0.000
2.71	0.16	0.16	0.1749	352.72	0.000	0.000
2.73	0.16	0.16	0.1751	352.72	0.000	0.000
2.75	0.15	0.15	0.1754	352.72	0.000	0.000
2.77	0.14	0.14	0.1757	352.72	0.000	0.000
2.79	0.13	0.13	0.1759	352.72	0.000	0.000
2.81	0.12	0.12	0.1761	352.72	0.000	0.000
2.83	0.11	0.11	0.1763	352.72	0.000	0.000
2.85	0.10	0.10	0.1765	352.72	0.000	0.000
2.87	0.09	0.09	0.1766	352.72	0.000	0.000
2.90	0.08	0.08	0.1768	352.72	0.000	0.000
2.92	0.07	0.07	0.1769	352.73	0.000	0.000
2.94	0.06	0.06	0.1770	352.73	0.000	0.000
2.96	0.05	0.05	0.1771	352.73	0.000	0.000
2.98	0.04	0.04	0.1772	352.73	0.000	0.000
3.00	0.03	0.03	0.1773	352.73	0.000	0.000
3.02	0.02	0.02	0.1773	352.73	0.000	0.000
3.04	0.01	0.01	0.1773	352.73	0.000	0.000
3.06	0.00	0.00	0.1773	352.73	0.000	0.000

Total Routing Mass Balance Discrepancy is 0.00%

Modified Puls Routing

Inflow Hydrograph: P:\4343\4343-52\Drainage\Post Area to Basin - 100 YR EXT.HYD

Storage/Elevation Curve: P:\4343\4343-52\Drainage\Proposed Infil. Basin 1.ES

Discharge/Elevation Curve: P:\4343\4343-52\Drainage\Basin Spillway.EO

Basin Bypass Capacity = 0.0 cfs

Starting Pool Elevation = 352.00 feet

Time Interval = 2.083333E-02 hours

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
0.00	0.00	0.00	0.0000	352.00	0.000	0.000
0.02	0.32	0.32	0.0003	352.00	0.000	0.000
0.04	0.63	0.63	0.0011	352.00	0.000	0.000
0.06	0.95	0.95	0.0024	352.01	0.000	0.000
0.08	1.26	1.26	0.0043	352.02	0.000	0.000
0.10	1.51	1.51	0.0067	352.03	0.000	0.000
0.12	1.76	1.76	0.0096	352.04	0.000	0.000
0.15	2.01	2.01	0.0128	352.05	0.000	0.000
0.17	2.26	2.26	0.0165	352.07	0.000	0.000
0.19	2.97	2.97	0.0210	352.09	0.000	0.000
0.21	3.68	3.68	0.0267	352.11	0.000	0.000
0.23	4.39	4.39	0.0336	352.14	0.000	0.000
0.25	5.09	5.09	0.0418	352.17	0.000	0.000
0.27	4.59	4.59	0.0501	352.21	0.000	0.000
0.29	4.09	4.09	0.0576	352.24	0.000	0.000
0.31	3.59	3.59	0.0642	352.26	0.000	0.000
0.33	3.09	3.09	0.0700	352.29	0.000	0.000
0.35	2.76	2.76	0.0750	352.31	0.000	0.000
0.37	2.44	2.44	0.0795	352.33	0.000	0.000
0.40	2.12	2.12	0.0834	352.34	0.000	0.000
0.42	1.79	1.79	0.0868	352.36	0.000	0.000
0.44	1.72	1.72	0.0898	352.37	0.000	0.000
0.46	1.64	1.64	0.0927	352.38	0.000	0.000
0.48	1.56	1.56	0.0954	352.39	0.000	0.000
0.50	1.48	1.48	0.0981	352.40	0.000	0.000
0.52	1.39	1.39	0.1005	352.41	0.000	0.000
0.54	1.29	1.29	0.1028	352.42	0.000	0.000
0.56	1.19	1.19	0.1050	352.43	0.000	0.000
0.58	1.10	1.10	0.1070	352.44	0.000	0.000
0.60	1.06	1.06	0.1088	352.45	0.000	0.000
0.62	1.03	1.03	0.1106	352.45	0.000	0.000
0.65	1.00	1.00	0.1124	352.46	0.000	0.000
0.67	0.97	0.97	0.1141	352.47	0.000	0.000
0.69	0.94	0.94	0.1157	352.47	0.000	0.000
0.71	0.91	0.91	0.1173	352.48	0.000	0.000
0.73	0.89	0.89	0.1188	352.49	0.000	0.000
0.75	0.86	0.86	0.1203	352.49	0.000	0.000
0.77	0.84	0.84	0.1218	352.50	0.000	0.000
0.79	0.82	0.82	0.1232	352.51	0.000	0.000
0.81	0.79	0.79	0.1246	352.51	0.000	0.000
0.83	0.77	0.77	0.1260	352.52	0.000	0.000
0.85	0.76	0.76	0.1273	352.52	0.000	0.000
0.87	0.76	0.76	0.1286	352.53	0.000	0.000
0.90	0.75	0.75	0.1299	352.53	0.000	0.000
0.92	0.74	0.74	0.1312	352.54	0.000	0.000
0.94	0.73	0.73	0.1324	352.54	0.000	0.000
0.96	0.72	0.72	0.1337	352.55	0.000	0.000
0.98	0.71	0.71	0.1349	352.55	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
1.00	0.70	0.70	0.1362	352.56	0.000	0.000
1.02	0.69	0.69	0.1373	352.56	0.000	0.000
1.04	0.67	0.67	0.1385	352.57	0.000	0.000
1.06	0.66	0.66	0.1397	352.57	0.000	0.000
1.08	0.64	0.64	0.1408	352.58	0.000	0.000
1.10	0.64	0.64	0.1419	352.58	0.000	0.000
1.12	0.64	0.64	0.1430	352.59	0.000	0.000
1.15	0.64	0.64	0.1441	352.59	0.000	0.000
1.17	0.63	0.63	0.1452	352.59	0.000	0.000
1.19	0.63	0.63	0.1463	352.60	0.000	0.000
1.21	0.62	0.62	0.1473	352.60	0.000	0.000
1.23	0.61	0.61	0.1484	352.61	0.000	0.000
1.25	0.60	0.60	0.1494	352.61	0.000	0.000
1.27	0.60	0.60	0.1505	352.62	0.000	0.000
1.29	0.59	0.59	0.1515	352.62	0.000	0.000
1.31	0.58	0.58	0.1525	352.63	0.000	0.000
1.33	0.58	0.58	0.1535	352.63	0.000	0.000
1.35	0.57	0.57	0.1545	352.63	0.000	0.000
1.37	0.56	0.56	0.1554	352.64	0.000	0.000
1.40	0.56	0.56	0.1564	352.64	0.000	0.000
1.42	0.55	0.55	0.1574	352.65	0.000	0.000
1.44	0.55	0.55	0.1583	352.65	0.000	0.000
1.46	0.54	0.54	0.1592	352.65	0.000	0.000
1.48	0.53	0.53	0.1602	352.66	0.000	0.000
1.50	0.53	0.53	0.1611	352.66	0.000	0.000
1.52	0.52	0.52	0.1620	352.66	0.000	0.000
1.54	0.52	0.52	0.1629	352.67	0.000	0.000
1.56	0.52	0.52	0.1638	352.67	0.000	0.000
1.58	0.51	0.51	0.1647	352.67	0.000	0.000
1.60	0.51	0.51	0.1655	352.68	0.000	0.000
1.62	0.50	0.50	0.1664	352.68	0.000	0.000
1.65	0.50	0.50	0.1673	352.69	0.000	0.000
1.67	0.49	0.49	0.1681	352.69	0.000	0.000
1.69	0.49	0.49	0.1690	352.69	0.000	0.000
1.71	0.48	0.48	0.1698	352.70	0.000	0.000
1.73	0.48	0.48	0.1706	352.70	0.000	0.000
1.75	0.47	0.47	0.1714	352.70	0.000	0.000
1.77	0.47	0.47	0.1723	352.71	0.000	0.000
1.79	0.47	0.47	0.1731	352.71	0.000	0.000
1.81	0.46	0.46	0.1739	352.71	0.000	0.000
1.83	0.46	0.46	0.1747	352.72	0.000	0.000
1.85	0.46	0.46	0.1754	352.72	0.000	0.000
1.87	0.45	0.45	0.1762	352.72	0.000	0.000
1.90	0.45	0.45	0.1770	352.73	0.000	0.000
1.92	0.45	0.45	0.1778	352.73	0.000	0.000
1.94	0.44	0.44	0.1785	352.73	0.000	0.000
1.96	0.44	0.44	0.1793	352.73	0.000	0.000
1.98	0.43	0.43	0.1800	352.74	0.000	0.000
2.00	0.43	0.43	0.1808	352.74	0.000	0.000
2.02	0.43	0.43	0.1815	352.74	0.000	0.000
2.04	0.42	0.42	0.1822	352.75	0.000	0.000
2.06	0.42	0.42	0.1830	352.75	0.000	0.000
2.08	0.42	0.42	0.1837	352.75	0.000	0.000
2.10	0.41	0.41	0.1844	352.76	0.000	0.000
2.12	0.41	0.41	0.1851	352.76	0.000	0.000
2.15	0.40	0.40	0.1858	352.76	0.000	0.000
2.17	0.40	0.40	0.1865	352.76	0.000	0.000
2.19	0.39	0.39	0.1872	352.77	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
2.21	0.39	0.39	0.1879	352.77	0.000	0.000
2.23	0.38	0.38	0.1885	352.77	0.000	0.000
2.25	0.38	0.38	0.1892	352.78	0.000	0.000
2.27	0.37	0.37	0.1898	352.78	0.000	0.000
2.29	0.37	0.37	0.1905	352.78	0.000	0.000
2.31	0.36	0.36	0.1911	352.78	0.000	0.000
2.33	0.36	0.36	0.1917	352.79	0.000	0.000
2.35	0.35	0.35	0.1923	352.79	0.000	0.000
2.37	0.35	0.35	0.1929	352.79	0.000	0.000
2.40	0.34	0.34	0.1935	352.79	0.000	0.000
2.42	0.34	0.34	0.1941	352.80	0.000	0.000
2.44	0.33	0.33	0.1947	352.80	0.000	0.000
2.46	0.33	0.33	0.1952	352.80	0.000	0.000
2.48	0.32	0.32	0.1958	352.80	0.000	0.000
2.50	0.32	0.32	0.1964	352.80	0.000	0.000
2.52	0.31	0.31	0.1969	352.81	0.000	0.000
2.54	0.31	0.31	0.1974	352.81	0.000	0.000
2.56	0.30	0.30	0.1980	352.81	0.000	0.000
2.58	0.30	0.30	0.1985	352.81	0.000	0.000
2.60	0.29	0.29	0.1990	352.82	0.000	0.000
2.62	0.29	0.29	0.1995	352.82	0.000	0.000
2.65	0.28	0.28	0.2000	352.82	0.000	0.000
2.67	0.28	0.28	0.2005	352.82	0.000	0.000
2.69	0.27	0.27	0.2009	352.82	0.000	0.000
2.71	0.27	0.27	0.2014	352.83	0.000	0.000
2.73	0.26	0.26	0.2018	352.83	0.000	0.000
2.75	0.26	0.26	0.2023	352.83	0.000	0.000
2.77	0.25	0.25	0.2027	352.83	0.000	0.000
2.79	0.25	0.25	0.2032	352.83	0.000	0.000
2.81	0.24	0.24	0.2036	352.83	0.000	0.000
2.83	0.24	0.24	0.2040	352.84	0.000	0.000
2.85	0.23	0.23	0.2044	352.84	0.000	0.000
2.87	0.23	0.23	0.2048	352.84	0.000	0.000
2.90	0.22	0.22	0.2052	352.84	0.000	0.000
2.92	0.22	0.22	0.2056	352.84	0.000	0.000
2.94	0.21	0.21	0.2059	352.84	0.000	0.000
2.96	0.21	0.21	0.2063	352.85	0.000	0.000
2.98	0.20	0.20	0.2067	352.85	0.000	0.000
3.00	0.20	0.20	0.2070	352.85	0.000	0.000
3.02	0.19	0.19	0.2073	352.85	0.000	0.000
3.04	0.19	0.19	0.2077	352.85	0.000	0.000
3.06	0.18	0.18	0.2080	352.85	0.000	0.000
3.08	0.18	0.18	0.2083	352.85	0.000	0.000
3.10	0.17	0.17	0.2086	352.85	0.000	0.000
3.12	0.17	0.17	0.2089	352.86	0.000	0.000
3.15	0.16	0.16	0.2092	352.86	0.000	0.000
3.17	0.16	0.16	0.2094	352.86	0.000	0.000
3.19	0.15	0.15	0.2097	352.86	0.000	0.000
3.21	0.15	0.15	0.2100	352.86	0.000	0.000
3.23	0.14	0.14	0.2102	352.86	0.000	0.000
3.25	0.14	0.14	0.2105	352.86	0.000	0.000
3.27	0.13	0.13	0.2107	352.86	0.000	0.000
3.29	0.13	0.13	0.2109	352.86	0.000	0.000
3.31	0.12	0.12	0.2111	352.87	0.000	0.000
3.33	0.12	0.12	0.2113	352.87	0.000	0.000
3.35	0.11	0.11	0.2115	352.87	0.000	0.000
3.37	0.11	0.11	0.2117	352.87	0.000	0.000
3.40	0.10	0.10	0.2119	352.87	0.000	0.000

Event Time (hours)	Hydrograph Inflow (cfs)	Basin Inflow (cfs)	Storage Used (acre-ft)	Elevation Above MSL (feet)	Basin Outflow (cfs)	Outflow Total (cfs)
3.42	0.10	0.10	0.2121	352.87	0.000	0.000
3.44	0.09	0.09	0.2122	352.87	0.000	0.000
3.46	0.09	0.09	0.2124	352.87	0.000	0.000
3.48	0.08	0.08	0.2125	352.87	0.000	0.000
3.50	0.08	0.08	0.2127	352.87	0.000	0.000
3.52	0.07	0.07	0.2128	352.87	0.000	0.000
3.54	0.07	0.07	0.2129	352.87	0.000	0.000
3.56	0.06	0.06	0.2130	352.87	0.000	0.000
3.58	0.06	0.06	0.2131	352.87	0.000	0.000
3.60	0.05	0.05	0.2132	352.87	0.000	0.000
3.62	0.05	0.05	0.2133	352.87	0.000	0.000
3.65	0.04	0.04	0.2134	352.87	0.000	0.000
3.67	0.04	0.04	0.2135	352.87	0.000	0.000
3.69	0.03	0.03	0.2135	352.88	0.000	0.000
3.71	0.03	0.03	0.2136	352.88	0.000	0.000
3.73	0.03	0.03	0.2136	352.88	0.000	0.000
3.75	0.02	0.02	0.2137	352.88	0.000	0.000
3.77	0.02	0.02	0.2137	352.88	0.000	0.000
3.79	0.02	0.02	0.2137	352.88	0.000	0.000
3.81	0.01	0.01	0.2138	352.88	0.000	0.000
3.83	0.01	0.01	0.2138	352.88	0.000	0.000
3.85	0.01	0.01	0.2138	352.88	0.000	0.000
3.87	0.01	0.01	0.2138	352.88	0.000	0.000
3.90	0.01	0.01	0.2138	352.88	0.000	0.000
3.92	0.01	0.01	0.2139	352.88	0.000	0.000
3.94	0.00	0.00	0.2139	352.88	0.000	0.000
3.96	0.00	0.00	0.2139	352.88	0.000	0.000
3.98	0.00	0.00	0.2139	352.88	0.000	0.000
4.00	0.00	0.00	0.2139	352.88	0.000	0.000
4.02	0.00	0.00	0.2139	352.88	0.000	0.000
4.04	0.00	0.00	0.2139	352.88	0.000	0.000
4.06	0.00	0.00	0.2139	352.88	0.000	0.000
4.08	0.00	0.00	0.2139	352.88	0.000	0.000
4.10	0.00	<u>0.00</u>	<u>0.2139</u>	<u>352.88</u>	0.000	<u>0.000</u>

Total Routing Mass Balance Discrepancy is 0.00%

BASIN SPILWAY CREST @ 353.25

BASIN DESIGNED TO MITIGATE ALL STORMS
W/ 0 CFS DISCHARGE

D.C. Gohn Associates, Inc.

Surveyors and Engineers

Landscape Architects

P.O. Box 128, 32 Mount Joy Street

MOUNT JOY, PA 17552

Phone 653-5308

JOB LCLTC

SHEET NO. _____

OF _____

CALCULATED BY DEH

DATE 6/16/21

CHECKED BY _____

DATE _____

SCALE _____

INFILTRATION BASIN # 1

To BASIN # 1 = 8,017 CF or 0.1841 AC-FT
REQUIRED PER 100 YR HYDRO

INFILTRATION BASIN # 1 = 14,374.8 CF or 0.33 AC-FT
PROVIDED PER STAGE STORAGE

BOTTOM = 352.00

SPILL = 353.25

1.25' DEEP BASIN

INFIL. RATES = 0.20 in/hr (TEST 3)

1.10 in/hr (TEST 4)

1.94 in/hr (TEST 5)

GEOMETRIC MEAN = $0.20 \times 1.10 \times 1.94 = 0.4268$

$\sqrt[3]{0.4268} = 0.7529$ in/hr

0.7529 @ SAFETY FACTOR OF 2 = 0.376 in/hr

1.25' / 0.376 = 3.32 HRS DEWATERING

APPENDIX D
CONVEYANCE FACILITY DESIGN CALCULATIONS

Post Sub Development Drainage Areas

6/15/2021

	Total Area, SF	Total Area, acres	Wtd. 'C'	T _C min.	On-Site Areas - Good Condition							
					Impervious, sf.				Grass, sf.			
					<2% B	2-6% B	>6% B		<2% B	2-6% B	>6% B	Forest, sf.
Soil Type C' Value					0.91	0.92	0.93		0.14	0.19	0.26	
Post Sub Area												
SUB Area To FES-1/SWALE-A	35,690	0.82	0.435	5.00		6,435	5,445			23,810		
SUB Area To DIVERSION SWALE 1	223,508	5.13	0.289	5.00		5,558	24,499			193,451		

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at FES-1 & Swale-A
Time of Concentration: 5 min.
Drainage Area: 0.8200 acres.
Weighted 'C' Factor: 0.4350

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.13	0.13	1.62	0.58
10	0.24	0.38	2.91	1.04
15	0.55	0.93	6.61	2.36
20	0.33	1.26	3.98	1.42
25	0.19	1.45	2.31	0.82
30	0.16	1.61	1.91	0.68
35	0.12	1.73	1.41	0.50
40	0.10	1.83	1.24	0.44
45	0.09	1.92	1.10	0.39
50	0.08	2.01	0.99	0.35

At time = 125 minutes, the flow is 0.18 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at FES-1 & Swale-A
Time of Concentration: 5 min.
Drainage Area: 0.8200 acres.
Weighted 'C' Factor: 0.4350

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
5	0.15	0.15	1.82	0.65
10	0.27	0.42	3.25	1.16
15	0.61	1.03	7.32	2.61
20	0.37	1.40	4.44	1.58
25	0.21	1.62	2.58	0.92
30	0.18	1.80	2.13	0.76
35	0.13	1.93	1.58	0.56
40	0.12	2.04	1.39	0.50
45	0.10	2.15	1.24	0.44
50	0.09	2.24	1.11	0.40

At time = 125 minutes, the flow is 0.22 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

50 Year Storm in PA. Region 4 at Diversion Swale 1

Time of Concentration: 5 min.

Drainage Area: 5.1300 acres.

Weighted 'C' Factor: 0.2890

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
5	0.13	0.13	1.62	2.40
10	0.24	0.38	2.91	4.32
15	0.55	0.93	6.61	9.80
20	0.33	1.26	3.98	5.91
25	0.19	1.45	2.31	3.42
30	0.16	1.61	1.91	2.83
35	0.12	1.73	1.41	2.09
40	0.10	1.83	1.24	1.83
45	0.09	1.92	1.10	1.64
50	0.08	2.01	0.99	1.47

At time = 125 minutes, the flow is 0.75 CFS.

Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart

100 Year Storm in PA. Region 4 at Diversion Swale 1

Time of Concentration: 5 min.

Drainage Area: 5.1300 acres.

Weighted 'C' Factor: 0.2890

Time (min)	Rainfall		Rainfall Intensity (in/hr)	Flow (cfs)
	Incr. (inches)	Total (inches)		
0	0.00	0.00	0.00	0.00
5	0.15	0.15	1.82	2.69
10	0.27	0.42	3.25	4.82
15	0.61	1.03	7.32	10.86
20	0.37	1.40	4.44	6.58
25	0.21	1.62	2.58	3.82
30	0.18	1.80	2.13	3.17
35	0.13	1.93	1.58	2.34
40	0.12	2.04	1.39	2.06
45	0.10	2.15	1.24	1.84
50	0.09	2.24	1.11	1.65

At time = 125 minutes, the flow is 0.89 CFS.

FES-1 to FES-2
100 YR

Line	To Line	Line Length (ft)	Incr. Area (ac)	Total Area (ac)	Runoff Coeff. (C)	Incr C x A	Total C x A	Inlet Time (min)	Time Conc (min)	Rtrial Int (in/hr)	Total Runoff (cfs)	Adnt Flow (cfs)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)	Grnd/Rim Dn (ft)
1	Outfall	115.704	0.82	0.82	0.44	0.36	0.36	5.0	5.0	8.2	2.95	0.00	2.95	7.91	4.25	15	1.51	352.00	353.75	352.69	354.44	353.87

Line	Grnd/Rim Up (ft)	Line ID
1	355.61	PIPE-1

STANDARD E&S WORKSHEET # 20

Riprap Apron Outlet Protection

PROJECT NAME: LCCTC

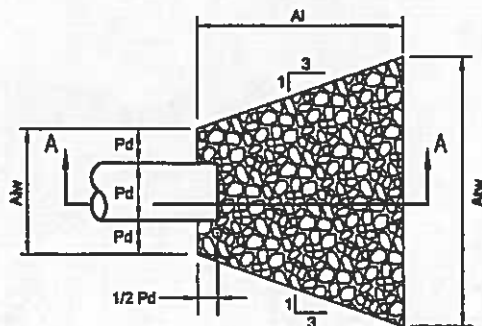
LOCATION: MT Joy CAMPUS

PREPARED BY: DEH

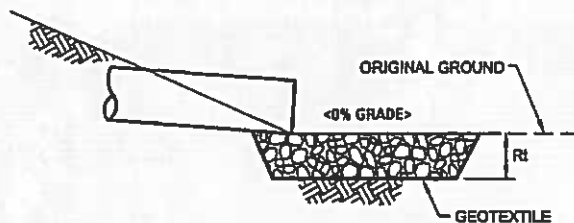
CHECKED BY: _____

DATE: 6/15/21

DATE: _____



PLAN VIEW



SECTION A - A

NO.	PIPE DIA. Do (in.)	TAIL WATER COND. (Max or Min)	MAN. "n" FOR PIPE	PIPE SLOPE (FT/FT)	Q (CFS)	V* (FPS)	RIPRAP SIZE	Rt (in)	AI (ft)	Aiw (ft)	Atw (ft)
1	15	MIN	.013	.015	2.95	4.25	R-3	12"	6'	3.75'	9.15'
2	36	MIN	.013	.0078	57.06	8.59	R-5	27"	20'	9'	29'

*:The anticipated velocity (V) should not exceed the maximum permissible shown in Table 6.6 for the proposed riprap protection. Adjust for less than full pipe flow. Use Manning's equation to calculate velocity for pipe slopes ≥ 0.05 ft/ft.

PIPE-1

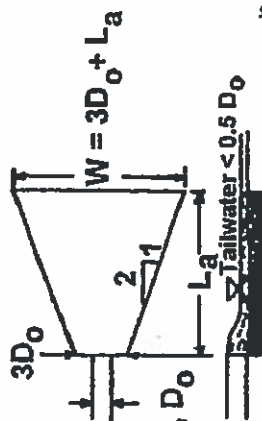
FIGURE 9.3
Riprap Apron Design, Minimum Tailwater Condition

PIPE-1

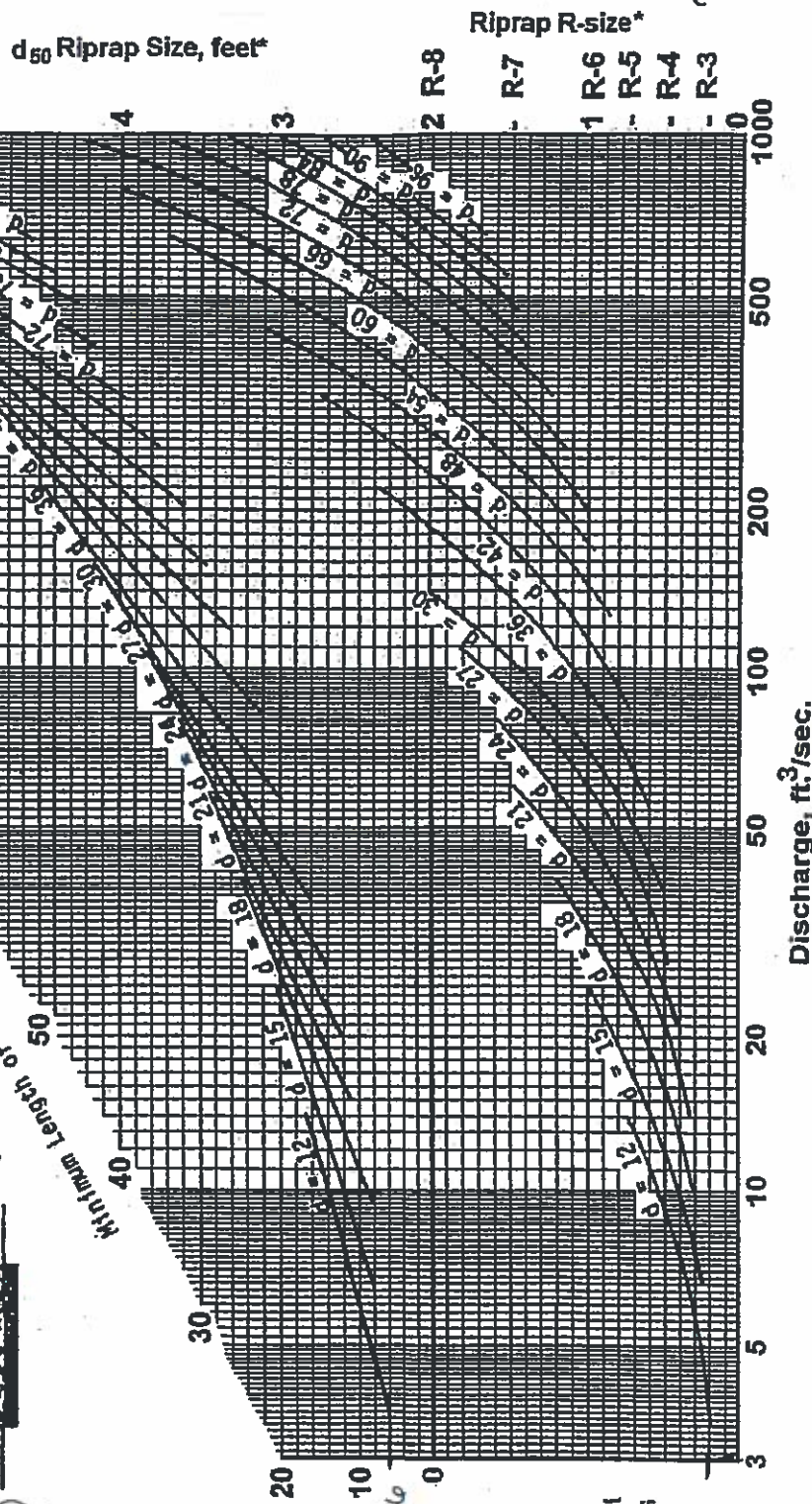
(FES-1 + FES-2)

DESIGN OF RIPRAP APRON OUTLET PROTECTION FROM A ROUND PIPE FLOWING FULL
MINIMUM TAILWATER CONDITION ($T_w < 0.5$ DIAMETER)

Adapted from USDA - NRCS



$D_o = 15"$
 $3D_o = 45" (3.75')$
 $Q_{max} = 2.95$
 $D_{50} = R-3$
 $RipRap = 3"$
 $Placement = 12"$
 $Thickness = 6'$
 $L_a = 9.75'$
 $W =$



D50 sizes	Placement Thickness
R-3=3"	12"
R-4=6"	18"
R-5=9"	27"
R-6=12"	36"
R-7=15"	45"
R-8=24"	72"

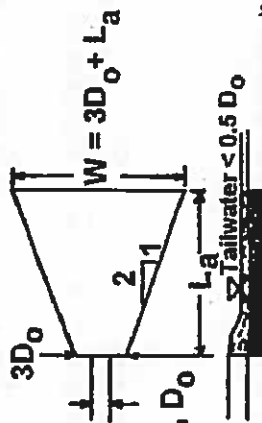
* For discharge velocities exceeding Maximum Allowable for Riprap Indicated, Increase d_{50} stone size and/or provide velocity reduction device.

FIGURE 9.3
Riprap Apron Design, Minimum Tailwater Condition

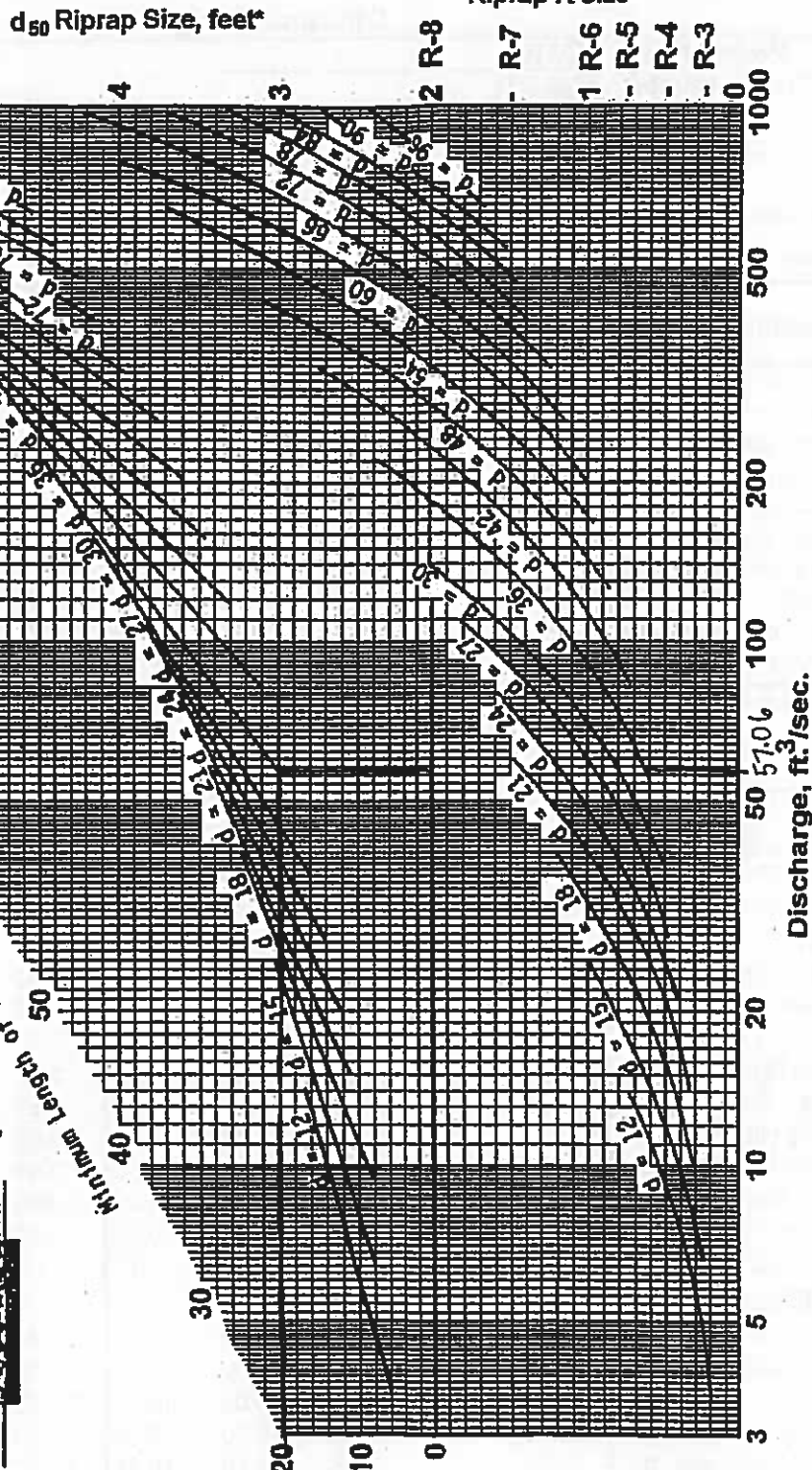
PIPE-2

(HW-1 to EW-1)

DESIGN OF RIPRAP APRON OUTLET PROTECTION FROM A ROUND PIPE FLOWING FULL
MINIMUM TAILWATER CONDITION ($T_w < 0.5$ DIAMETER)



Adapted from USDA - NRCS



$D_o = \frac{36'' (3')}{9'}$
 $3D_o = \frac{57.66}{57.66}$
 $Q_{max} = \frac{R-5}{R-5}$
 $D_{50} = \frac{9''}{9''}$
 RipRap =
 Placement 27"
 Thickness = 20'
 $L_a = \frac{29'}{29'}$
 $W = \frac{ }{ }$

D ₅₀ sizes	Placement Thickness
R-3=1"	12"
R-4=6"	18"
R-5=9"	27"
R-6=12"	36"
R-7=15"	45"
R-8=24"	72"

* For discharge velocities exceeding Maximum Allowable for Riprap Indicated, Increase d_{50} stone size and/or provide velocity reduction device.

Channel Design Data

Project Name: LCCTC

Project Number: 4343-21

Prepared By: DEH

Checked By: TES

Date: 6/15/2021

Date:

Bare Earth (Table 4.7a)		Swale A				Diversion Swale-1			
Silt Loam, noncolloidal		Type of Channel		Parabolic		Type of Channel		Parabolic	
Design Criteria	Bare Earth	Lining	Grass (Vel)	Grass (Cap)	Bare Earth	Lining	Grass (Vel)	Grass (Cap)	
		NAG S75				NAG S75			
Installation Depth,ft	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50	
Manning's 'n' Value	0.020	0.055	0.030	0.030	0.020	0.055	0.030	0.030	
Bottom Slope, ft/ft	0.022	0.022	0.022	0.022	0.014	0.014	0.014	0.014	
Right Slope, _H: 1V	5.0	5.0	5.0	5.0	3.0	3.0	3.0	3.0	
Left Slope, _H: 1V	5.0	5.0	5.0	5.0	3.0	3.0	3.0	3.0	
Top Width (Parabolic Only)	15.0	15.0	15.0	15.0	10.0	10.0	10.0	10.0	
Bottom Width (Other), ft									
Flow, cfs	2.61	2.61	2.61	2.61	10.86	10.86	10.86	10.86	
Length of Channel, ft	121	121	121	121	600	600	600	600	
Allowable Shear, lb/ft ²		1.55				1.55			
Bottom Width:Depth Ratio	-	-	-	-	-	-	-	-	
12:1 Maximum		Stable:				Stable:			
Lining Quantity, yd ²		204.0				704.7			
Design Comments	100 year design storm				100 year design storm				
Design Capacity									
Flow Depth,ft	0.20	0.32	0.24	0.24	0.58	0.92	0.69	0.69	
Top Width,ft	6.74	8.51	7.40	7.40	6.19	7.84	6.81	6.81	
Area,ft ²	0.91	1.83	1.20	1.20	2.38	4.81	3.15	3.15	
Wetted Perimeter,ft	6.76	8.55	7.42	7.42	6.33	8.12	6.99	6.99	
Hydraulic Radius,ft	0.13	0.21	0.16	0.16	0.38	0.59	0.45	0.45	
Hydraulic Depth,ft	0.13	0.21	0.16	0.16	0.38	0.61	0.46	0.46	
Froude Number	1.38	0.54	0.95	0.95	1.30	0.51	0.89	0.89	
Velocity, ft/s	2.88	1.43	2.17	2.17	4.57	2.26	3.45	3.45	
Velocity Head, ft	0.13	0.03	0.07	0.07	0.32	0.08	0.18	0.18	
Total Energy, ft	0.33	0.35	0.32	0.32	0.90	1.00	0.88	0.88	
Critical Slope	0.011	0.074	0.024	0.024	0.008	0.054	0.018	0.018	
Required Freeboard, ft	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
Design Depth, ft	0.7	0.8	0.7	0.7	1.1	1.4	1.2	1.2	
Maximum Capacity									
Flow, ft ³ /s	83	30	55	55	93	34	62	62	
Flow Depth, ft	1.00	1.00	1.00	1.00	1.50	1.50	1.50	1.50	
Area, ft ²	10.00	10.00	10.00	10.00	10.57	10.57	10.57	10.57	
Top Width, ft	15.00	15.00	15.00	15.00	10.00	10.00	10.00	10.00	
Wetted Perimeter, ft	15.18	15.18	15.18	15.18	10.57	10.57	10.57	10.57	
Hydraulic Radius, ft	0.66	0.66	0.66	0.66	1.00	1.00	1.00	1.00	
Hydraulic Depth, ft	0.67	0.67	0.67	0.67	1.06	1.06	1.06	1.06	
Froude Number	1.46	0.53	0.98	0.98	1.26	0.46	0.84	0.84	
Velocity, ft/s	8.31	3.02	5.54	5.54	8.79	3.20	5.86	5.86	
Velocity Head, ft	1.07	0.14	0.48	0.48	1.20	0.16	0.53	0.53	
Total Energy, ft	2.07	1.14	1.48	1.48	2.70	1.66	2.03	2.03	

UPLAND DRAINAGE AREA

To PIPE-2

Post Development Drainage Area to Pipe

6/15/2021

	Total Area, SF	Total Area, acres	Wtd. 'C'	T _c , min.	On-Site Areas - Good Condition									
					Impervious, sf.			Grass, sf.			Forest, sf.			
					<2%	2-6%	>6%	<2%	2-6%	>6%	<2%	2-6%	>6%	
					B	B	B	B	B	B	B	B	B	B
Soil Type					0.91	0.92	0.93	0.14	0.19	0.26	0.10	0.14	0.18	
C' Value														
Post Area														
Post Area to Pipe	1,704,882	39.14	0.294	32.00	178,611	75,732		1,212,074				175,744	62,721	

SCS Segmental Travel Time

Summary for Post TC to Pipe

Segment 1: Overland Flow

L = 100 ft, S = .02 ft/ft, n = .4, P(2yr/24hr) = 2.99 in
Travel Time = 22.2 minutes

Segment 2: Concentrated Flow

L = 31 ft, S = .032 ft/ft, Unpaved surface
Travel Time = 0.2 minutes

Segment 3: Concentrated Flow

L = 12 ft, S = .02 ft/ft, Paved surface
Travel Time = 0.1 minutes

Segment 4: Concentrated Flow

L = 388 ft, S = .074 ft/ft, Unpaved surface
Travel Time = 1.5 minutes

Segment 5: Concentrated Flow

L = 24 ft, S = .02 ft/ft, Paved surface
Travel Time = 0.1 minutes

Segment 6: Concentrated Flow

L = 539 ft, S = .053 ft/ft, Unpaved surface
Travel Time = 2.4 minutes

Segment 7: Concentrated Flow

L = 261 ft, S = .059 ft/ft, Paved surface
Travel Time = 0.9 minutes

Segment 8: Concentrated Flow

L = 29 ft, S = .02 ft/ft, Unpaved surface
Travel Time = 0.2 minutes

Segment 9: Concentrated Flow

L = 24 ft, S = .02 ft/ft, Paved surface
Travel Time = 0.1 minutes

Segment 10: Concentrated Flow

L = 331 ft, S = .026 ft/ft, Unpaved surface
Travel Time = 2.1 minutes

Segment 11: Channel Flow

A = 1134 sq. ft, P = 1138 ft, L = 567 ft, S = .014 ft/ft, n = .04
Travel Time = 2.1 minutes

Total Travel Time = 32.00 Minutes

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

50 Year Storm in PA. Region 4 at Post to Pipe
Time of Concentration: 32 min.
Drainage Area: 39.1400 acres.
Weighted 'C' Factor: 0.2940

Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
32	0.21	0.21	0.40	4.56
64	0.37	0.58	0.69	7.96
96	1.66	2.24	3.11	35.82
128	0.55	2.79	1.03	11.88
160	0.29	3.08	0.55	6.28
192	0.24	3.33	0.46	5.26
224	0.19	3.51	0.35	4.04
256	0.17	3.68	0.32	3.64
288	0.15	3.84	0.29	3.33
320	0.14	3.98	0.27	3.07

At time = 800 minutes, the flow is 1.51 CFS.

**Rational Formula Hydrograph
PDT-IDF Storm Intensity Chart**

100 Year Storm in PA. Region 4 at Post to Pipe
Time of Concentration: 32 min.
Drainage Area: 39.1400 acres.
Weighted 'C' Factor: 0.2940

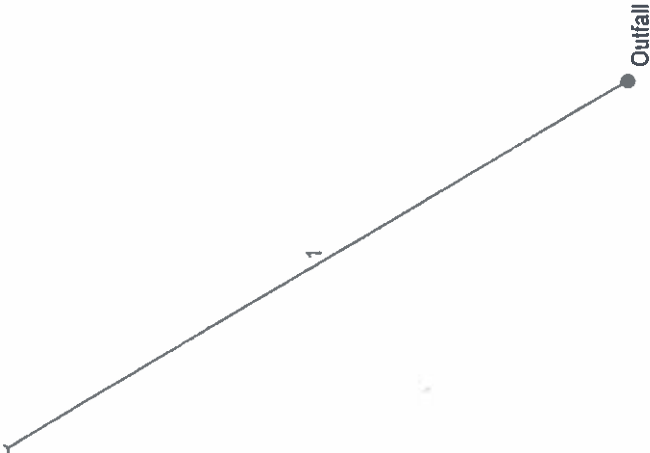
Time (min)	Rainfall Incr. (inches)	Total (inches)	Rainfall Intensity (in/hr)	Flow (cfs)
0	0.00	0.00	0.00	0.00
32	0.25	0.25	0.47	5.37
64	0.44	0.68	0.82	9.39
96	1.85	2.53	3.47	39.91
128	0.62	3.16	1.17	13.42
160	0.34	3.50	0.64	7.41
192	0.29	3.79	0.54	6.20
224	0.22	4.01	0.41	4.75
256	0.20	4.21	0.37	4.28
288	0.18	4.39	0.34	3.91
320	0.17	4.55	0.31	3.59

→ USED TO
SIZE PIPE

At time = 800 minutes, the flow is 1.74 CFS.

(ADDITIONAL 8.647 CFS FROM UPLAND BASINS)

Hydraflow Storm Sewers Extension for Autodesk® Civil 3D® Plan



100 YR

Line	To Line	Line Length (ft)	Incr. Area (ac)	Total Area (ac)	Runoff Coeff. (C)	Incr C x A	Total C x A	Inlet Time (min)	Time Conc (min)	Rnfall Int (in/hr)	Total Runoff (cfs)	Adml Flow (cfs)	Total Flow (cfs)	Capac Full (cfs)	Veloc (ft/s)	Pipe Size (in)	Pipe Slope (%)	Inv Elev Dn (ft)	Inv Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)	Gnd/Rim Dn (ft)
1	Outfall	470.882	39.14	39.14	0.29	11.35	11.35	32.0	32.0	4.3	48.42	8.65	57.07	62.38	8.59	36	0.85	345.00	349.00	348.02	351.44	348.75

→ FROM UPLAND GRANDVIEW + DEERFIELD BASINS.

36" PIPE REQUIRED UNDER COMMON DRIVE
FOR THE 100 YR STORM EVENT.

Line	Gmd/Rim Up	Line ID
1	352.25 (ft)	PIPE-2

STORM WATER MANAGEMENT RECORD PLAN
FOR
GRANDVIEW MEADOWS
IN
MOUNT JOY TOWNSHIP

The project is located on the southeast corner of the intersection of Terrace Avenue (T 838) and Fairview Road (SR 4035) in Mount Joy Township, Lancaster County. The project included the construction of 78 residential units, related utilities, and implementation of a stormwater management plan.

Record plan calculations were performed on the permanent stormwater basin and the entire inlet and piping system. These calculations were based on values from actual survey data of the facilities as they were constructed in the field. Weber Surveyors, Inc provided the survey information.

The pre- versus post-development stormwater analysis was performed for the 10, 25, and 100-year frequency storms. Per the Mount Joy Township Stormwater Ordinance, the pre- vs. post-development analysis for the site utilizes the Modified Rational Method of runoff calculations for the 10, 25, and 100-year frequency storm events. Rainfall values are per said Township ordinance.

The Detention Basin "B" was re-routed using record survey data to allow comparison to the design calculations. The detention basin currently has the temporary sediment control riser in place. By assuming that the temporary riser will be removed and the permanent outlet structure will be fitted with a 10-inch diameter orifice plate, as designed, the record plan basin could be analyzed. The invert of the outlet structure was found to be at an elevation of 370.46. The emergency spillway was determined to be at an elevation of 376.90. It was also calculated that the emergency spillway was built in a manner to adequately convey the 100yr storm event. The 100-yr water surface elevation over the emergency spillway in the event of a clogged orifice is 377.49. The top of basin berm was determined to be at an elevation of 378.60, which provides a freeboard of 1.11ft. The 100-yr water surface elevation was found to be at an elevation of 374.99, well below the elevation of the emergency spillway. It appears that the basin remains as a sediment control basin. The design values for the sediment basin top of berm and emergency spillway reflect the values for the surveyed top of basin berm and emergency spillway. It has been determined that the entire basin is adequate and meets all design criteria as it was actually constructed. No further grading is required to the basin top of berm or to the basin's emergency spillway in order to allow it to function properly as a permanent stormwater basin.

The inlet and piping system was analyzed to determine if the system would adequately convey the 25-yr storm through the site. The pipe runs between Inlet 7A and the Existing Inlet 1 and Inlet 22 to EW2 were analyzed through the StormCAD program. This analysis shows the hydraulic grade line through the systems. When analyzed, it was found that the hydraulic grade lines remained below the ground elevation through these runs of storm sewer. This shows that the inlet and piping system has the ability and capacity to properly convey the 25-yr design storm through the site.

A summary of the peak rate of flows follows this narrative.

Basin B

		DESIGN	RECORD PLAN
a.	Orifice 10" Design/ 10" Assumed Record	370.50	370.60
b.	Top of Grate	N/A	N/A
c.	Emergency Spillway	375.10	376.90
d.	Top of Berm	377.00	378.60
e.	100-Year Surface Elevation	375.03	374.99
f.	100-Year Storage Acre Ft.	1.12784	1.16330
g.	Basin Volume	148366	213,518
h.	100-Year Peak Discharge	4.628	4.637
i.	25-Year Peak Discharge	4.380	4.398
j.	10-Year Peak Discharge	4.239	4.243

→ USED
TO
CALCULATE

David Miller/ Associates, Inc.

Civil Engineering - Landscape Architecture - Land Planning

Client : GRANDVIEW MEADOWS RECORD PLAN
Project : GRANDVIEW MEADOWS RECORD PLAN
Location : MOUNT JOY TOWNSHIP, LANCASTER COUNTY

Job No.: 93-165.3
File: 1653stsum
Date: 02/08/01
By: DWM

AREA A

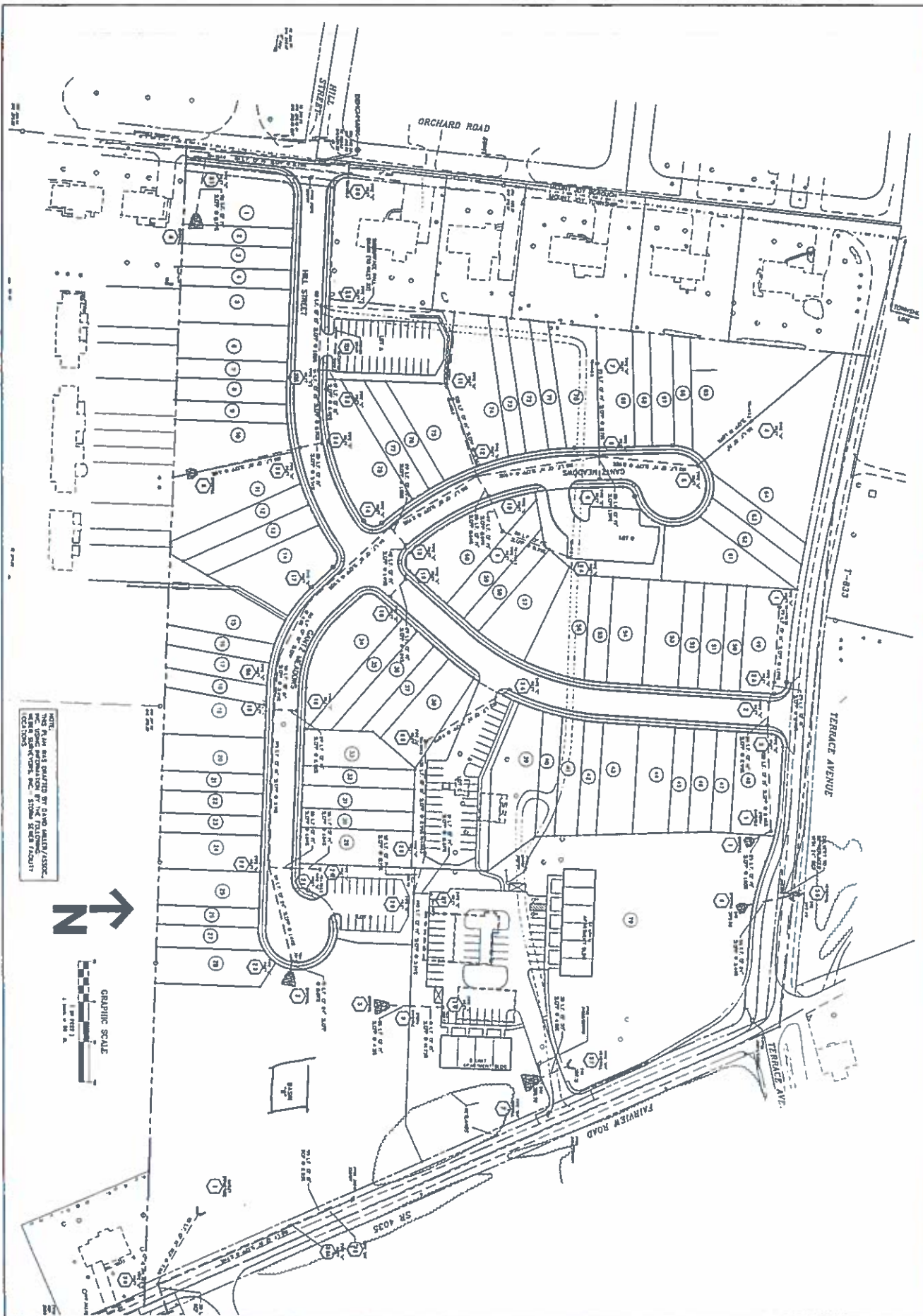
Event (Year)	Pre-Dev. Runoff (CFS) (A)	Undetained Post-Dev. Runoff (CFS) (B)	Total Undetained Runoff (CFS) (C)
10	10.466	0.569	0.569
25	12.011	0.656	0.656
100	14.503	0.805	0.805

AREA B

Event (Year)	Pre-Dev. Runoff (CFS) (D)	Undetained Post-Dev. Runoff (CFS) (E)	Design Discharge Basin B (CFS) (F)	Rec. Plan Discharge Basin B (CFS) (G)	Total Area B Runoff (CFS) (H=E+G)
10	20.545	14.180	4.239	4.243	18.423
25	23.473	16.200	4.380	4.398	20.598
100	28.819	19.890	4.628	4.637	24.527

TOTAL SITE

Event (Year)	Pre-Dev. Runoff (CFS) (I=A+D)	Undetained Post-Dev. Runoff (CFS) (J=B+E)	Rec. Plan Discharge (CFS) (G)	Total Site Runoff (CFS) (K=J+G)	Total Site Reduction (CFS) (L=K-I)
10	31.011	14.749	4.243	18.992	12.019
25	35.484	16.856	4.398	21.254	14.230
100	43.322	20.695	4.637	25.332	17.990



NOTE:
THIS PLAN WAS PREPARED BY DAVID MILLER/ASSOC.
ENGINEERS, INC. FOR THE MOUNT JOY TOWNSHIP
LOCALITY

<p>PROJECT NO. 15-01</p> <p>DATE 10-1-83</p> <p>BY D.M.</p> <p>CHKD. D.M.</p> <p>APP'D. D.M.</p> <p>SCALE 1" = 40' 0"</p>	<p>STORM SEWER RECORD PLANS</p>	<p>GRANDVIEW MEADOWS</p> <p>MOUNT JOY TOWNSHIP • LANCASTER, PA.</p>	<p>GRANDVIEW MEADOWS, INC.</p> <p>C/O LARRY C. COMBACH</p> <p>38 KENNEL CHURCH ROAD</p> <p>MOUNT JOY, PA. 17552</p> <p>(717) 637-6000</p>	<p>DAVID MILLER/ASSOCIATES, INC.</p> <p>1000 E. 10TH STREET, SUITE 100</p> <p>PHILADELPHIA, PA. 19106</p> <p>(215) 591-1000</p>
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CALCULATIONS FROM AS-BUILT SWM REPORT FOR DEERFIELD PHASE 2

Deerfield Subdivision Phase II
DCG Project Number 3660-38

DATED 11-5-2005
LAST REVISED 4-11-2006

An As-Built Survey was performed on Phase II of the Deerfield Subdivision. The following report summarizes the As-Built conditions of the Storm Water Management Basin. The design parameters were used to regenerate the inflow hydrographs. The following tables summarize and compare the As-Built conditions:

Table 1: Basin Volume

STAGE	DESIGN (AC-FT)	AS-BUILT (AC-FT)	CHANGE (AC-FT)
Bottom	(363.40) 0.000	(363.37) 0.000	-
364	0.045	0.033	-0.012
365	0.391	0.353	-0.038
366	1.047	0.975	-0.072
367	1.919	1.742	-0.177
368	3.016	2.627	-0.389

Table 2: Outlet Comparison

STAGE	DESIGN	AS-BUILT
No. 1	7" circ. @ 363.37	9.5" circ @ 363.37
No. 2	N/A	2" circ @ 364.41
Outfall Culvert	18" @ 363.37 (1.1%)	18" @ 363.37 (1.1%)
Emergency Spillway	367.00 @ 20'	366.98 @ 35'

Table 3: Routing Comparison

STORM EVENT	DESIGN (CFS)	AS-BUILT (CFS)
10 Yr	2.03	3.27
25 Yr	2.16	3.47
100 Yr	2.31	<u>4.01</u>

→ USED FOR CALCS

The design release rate for the basin was 4.15 cfs, as specified on Page 1 of the Storm Water Management and Erosion Control Report dated December 12, 1997 by D. C. Gohn Associates, Inc. As shown in Table 3, we are under the allowable release rate of 4.15 cfs with the 100 Yr Basin Discharge of 4.01 cfs.

A blocked orifice condition was run on the basin for the 100 Yr Storm Event. From that routing, a water surface elevation of 367.15 was obtained. The as-built top of berm elevation is 368.15 which provides the required 1.0' of freeboard. The blocked orifice water surface elevation

(367.15) is contained within the provided storm water management (SWM) easement. This is the case at the corner of the easement on Lot 61 at the southern corner of the existing dwelling. The SWM easement touches an elevation of 367.15 at its lowest spot. This was obtained by interpolating the contours.

The As-Built basin's dewatering time is 10.7 hours.

Swale A was constructed so that the swale within the associated easement has a depth of 1'. The as-built swale was checked for capacity and for stability.

The closed storm sewer system from Inlet I-7 to EW-13 was not part of the approved Final Plan. The design called for a swale to be constructed, but the Township requested the installation of the closed storm sewer system. We have analyzed this system under the as-built conditions by using the design input data for the inlets. The system had a Hydraulic Grade Line (HGL) calculation run for the 100 Yr Storm Event with the HGL starting at normal flow depth of the terminal pipe run. The normal depth is the depth of the flow in a pipe for that given flow. The water surface elevation of the Basin at the peak inflow condition was not checked. This was done because the Basin's water surface elevation at peak inflow is 365.79 which is below the normal depth elevation of 366.18. So the normal depth will dictate the worst condition.

An inlet capacity was run on the inlets of the closed system, Inlets I-7, I-9, and I-11. The inlet capacity check looked at both the weir and orifice flow of the inlet grate. All calculations on the closed system indicate that there is no bypass, 100% capture, of the 100 Yr Storm Event to the Basin.

The pipe run from I-11 to Ew-13 is a 24" SLCPP (ADS) installed at 0.44% which is less than the required minimum of 0.5%. However, this run's flow full velocity is 5.17 fps which is over the required minimum of 3 fps.

The Township's As-Built Inlet Worksheets have been prepared and included with this report. The worksheets are for the four inlets located on Deerfield Drive. Inlets I-1 and I-2 were constructed with a 1.1" sump while Inlets I-3 and I-3A were constructed with a 1.7" and 1.9" sump, respectively.

In conclusion, the Storm Water Management System that was constructed for the Deerfield Subdivision functioning within the intent of the Storm Water Management Ordinance of Mount Joy Township.

Worksheet 4. Change in Runoff Volume for 2-YR Storm Event

Project:	LCCTC/Mount Joy Borough
Drainage Area:	Overall Drainage Area to LOD
2-Year Rainfall:	2.99 in

Total Site Area:	4.26	acres
Protected Site Area:	0.00	acres
Managed Area:	4.26	acres

Existing Conditions:

Cover Type/Condition	Soil Type	Area (sf)	Area (ac)	CN	S	Ia (0.2*S)	Q Runoff (In)	Runoff Volume (cf)
Impervious	B		-	98				
Impervious	C		-	98				
Meadow	B	185,812	4.27	58	7.24	1.45	0.27	4,190
Meadow	C		-	71				
Meadow	D		-	78				
Woods	B		-	55				
Woods	C		-	70				
Woods	D		-	77				
Total		185,812	4.27				0.27	4,190

Developed Conditions

Cover Type/Condition	Soil Type	Area (sf)	Area (ac)	CN	S	Ia (0.2*S)	Q Runoff (In)	Runoff Volume (cf)
Impervious	B	16,621	0.38	98	0.20	0.04	2.76	3,820
Impervious	C		-	98				
Impervious	D		-	98				
Grass	B	169,191	3.88	61	6.39	1.28	0.36	5,095
Grass	C		-	74				
Grass	D		-	80				
Agricultural	B		-	78				
Woods	B		-	55				
Woods	C		-	70				
Woods	D		-	77				
Total		185,812	4.27				3.12	8,915

2-Year Volume Increase (ft3): 4,725

0.108 acre/feet

2-Year Volume Increase = Developed Conditions Runoff Volume - Existing Conditions Runoff Volume

1. Runoff (In) = $Q = (P - 0.2S)^2 / (P + 0.8S)$ where

P = 2-Year Rainfall (In)

S = $(1000/CN) - 10$

2. Runoff Volume CF = $Q \times \text{Area} \times 1/12$

Q = Runoff (In)

Area = Land use area (sq. ft.)

Note: Runoff Volume must be calculated for EACH land use type/condition and HSGI.

The Use of a weighted CN value for volume calculations is not acceptable.

20% of the existing impervious has been converted to meadow condition for the existing condition.



NOAA Atlas 14, Volume 2, Version 3
 Location name: Mount Joy, Pennsylvania, USA*
 Latitude: 40.115°, Longitude: -76.5089°
 Elevation: 354.57 ft**
 * source: ESRI Maps
 ** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.322 (0.291-0.357)	0.383 (0.346-0.426)	0.451 (0.407-0.502)	0.501 (0.450-0.555)	0.560 (0.500-0.620)	0.601 (0.536-0.665)	0.643 (0.570-0.710)	0.679 (0.600-0.752)	0.723 (0.634-0.800)	0.757 (0.659-0.838)
10-min	0.514 (0.464-0.571)	0.613 (0.553-0.682)	0.723 (0.651-0.803)	0.801 (0.720-0.888)	0.892 (0.797-0.988)	0.958 (0.853-1.06)	1.02 (0.906-1.13)	1.08 (0.950-1.19)	1.14 (1.00-1.27)	1.19 (1.04-1.32)
15-min	0.643 (0.580-0.714)	0.770 (0.695-0.857)	0.914 (0.824-1.02)	1.01 (0.911-1.12)	1.13 (1.01-1.25)	1.21 (1.08-1.34)	1.29 (1.15-1.43)	1.36 (1.20-1.50)	1.44 (1.26-1.59)	1.50 (1.30-1.66)
30-min	0.881 (0.796-0.978)	1.06 (0.960-1.18)	1.30 (1.17-1.44)	1.47 (1.32-1.63)	1.68 (1.50-1.85)	1.83 (1.63-2.02)	1.98 (1.75-2.19)	2.12 (1.87-2.34)	2.29 (2.01-2.54)	2.42 (2.11-2.68)
60-min	1.10 (0.992-1.22)	1.34 (1.20-1.49)	1.67 (1.50-1.85)	1.91 (1.72-2.12)	2.23 (1.99-2.47)	2.48 (2.21-2.74)	2.72 (2.42-3.01)	2.97 (2.62-3.28)	3.29 (2.88-3.64)	3.54 (3.08-3.92)
2-hr	1.30 (1.18-1.45)	1.58 (1.43-1.76)	2.00 (1.80-2.22)	2.32 (2.09-2.58)	2.78 (2.49-3.08)	3.15 (2.80-3.48)	3.55 (3.13-3.91)	3.95 (3.47-4.36)	4.53 (3.93-5.00)	5.00 (4.30-5.53)
3-hr	1.42 (1.28-1.58)	1.72 (1.56-1.92)	2.18 (1.96-2.43)	2.54 (2.28-2.82)	3.03 (2.71-3.36)	3.44 (3.06-3.81)	3.87 (3.42-4.28)	4.31 (3.78-4.77)	4.95 (4.29-5.47)	5.45 (4.68-6.04)
6-hr	1.75 (1.58-1.97)	2.12 (1.92-2.38)	2.68 (2.40-3.00)	3.13 (2.80-3.50)	3.79 (3.37-4.22)	4.34 (3.83-4.82)	4.94 (4.32-5.47)	5.58 (4.84-6.18)	6.51 (5.58-7.21)	7.29 (6.17-8.08)
12-hr	2.14 (1.92-2.42)	2.58 (2.32-2.93)	3.28 (2.93-3.70)	3.87 (3.44-4.36)	4.74 (4.19-5.32)	5.50 (4.81-6.15)	6.33 (5.49-7.07)	7.26 (6.21-8.08)	8.65 (7.27-9.62)	9.83 (8.15-10.9)
24-hr	2.47 (2.27-2.72)	2.99 (2.74-3.29)	3.82 (3.49-4.20)	4.53 (4.13-4.97)	5.62 (5.08-6.13)	6.56 (5.88-7.15)	7.62 (6.77-8.28)	8.82 (7.72-9.55)	10.6 (9.15-11.5)	12.2 (10.4-13.1)
2-day	2.87 (2.63-3.17)	3.47 (3.19-3.84)	4.43 (4.06-4.89)	5.24 (4.78-5.77)	6.44 (5.84-7.05)	7.47 (6.72-8.17)	8.61 (7.67-9.39)	9.85 (8.69-10.7)	11.7 (10.2-12.8)	13.3 (11.4-14.5)
3-day	3.04 (2.80-3.34)	3.67 (3.38-4.03)	4.67 (4.30-5.13)	5.53 (5.06-6.05)	6.79 (6.18-7.42)	7.89 (7.12-8.60)	9.09 (8.15-9.89)	10.4 (9.25-11.3)	12.4 (10.9-13.5)	14.2 (12.2-15.4)
4-day	3.21 (2.96-3.50)	3.87 (3.58-4.23)	4.92 (4.54-5.37)	5.81 (5.34-6.34)	7.15 (6.53-7.78)	8.30 (7.53-9.02)	9.58 (8.63-10.4)	11.0 (9.82-11.9)	13.2 (11.6-14.3)	15.0 (13.0-16.3)
7-day	3.76 (3.49-4.10)	4.53 (4.20-4.93)	5.70 (5.27-6.20)	6.69 (6.17-7.27)	8.17 (7.49-8.86)	9.44 (8.61-10.2)	10.8 (9.81-11.7)	12.4 (11.1-13.4)	14.7 (13.0-16.0)	16.7 (14.6-18.1)
10-day	4.31 (4.02-4.66)	5.17 (4.83-5.59)	6.43 (5.98-6.95)	7.48 (6.94-8.06)	8.99 (8.29-9.68)	10.3 (9.42-11.0)	11.6 (10.6-12.5)	13.1 (11.9-14.1)	15.3 (13.6-16.4)	17.0 (15.1-18.4)
20-day	5.88 (5.53-6.26)	6.99 (6.58-7.45)	8.41 (7.91-8.97)	9.56 (8.98-10.2)	11.2 (10.5-11.9)	12.5 (11.6-13.3)	13.8 (12.8-14.7)	15.2 (14.1-16.2)	17.2 (15.7-18.3)	18.7 (17.0-20.0)
30-day	7.27 (6.87-7.71)	8.59 (8.12-9.12)	10.2 (9.61-10.8)	11.4 (10.8-12.1)	13.2 (12.4-14.0)	14.6 (13.6-15.4)	16.0 (14.9-17.0)	17.4 (16.2-18.5)	19.4 (17.9-20.6)	20.9 (19.2-22.3)
45-day	9.16 (8.71-9.64)	10.8 (10.3-11.4)	12.6 (11.9-13.2)	13.9 (13.2-14.6)	15.7 (14.9-16.5)	17.1 (16.2-17.9)	18.4 (17.4-19.4)	19.7 (18.6-20.8)	21.5 (20.1-22.6)	22.7 (21.2-24.0)
60-day	11.0 (10.5-11.5)	12.9 (12.3-13.5)	14.8 (14.1-15.5)	16.3 (15.5-17.1)	18.2 (17.3-19.1)	19.7 (18.7-20.6)	21.0 (19.9-22.1)	22.3 (21.1-23.5)	24.0 (22.6-25.3)	25.3 (23.7-26.6)

¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration 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.

Please refer to NOAA Atlas 14 document for more information.

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PF graphical



ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet – BioNet® S75BN™ Erosion Control Blanket

DESCRIPTION

The short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S75BN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Material Content

Matrix	100% straw fiber	0.5 lbs/sq yd (0.27 kg/sm)
Netting	Top side only: Leno woven 100% biodegradable natural organic fiber	9.3 lbs/1000 sq ft (4.5 kg/100 sm)
Thread	Biodegradable	

Standard Roll Size

Width	5.67 ft (2.0 m)
Length	108 ft (32.92 m)
Weight ± 10%	46.4 lbs (21.05 kg)
Area	80 sq yd (66.9 sm)

Design Permissible Shear Stress

Unvegetated Shear Stress	1.60 psf (76 Pa)
Unvegetated Velocity	5.00 fps (1.52 m/s)

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.29 in. (7.37 mm)
Resiliency	ECTC Guidelines	81.4%
Water Absorbency	ASTM D1117	440%
Mass/Unit Area	ASTM D6475	9.12 oz/sy (310 g/sm)
Swell	ECTC Guidelines	15.7%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	6.92 oz-in
Light Penetration	ASTM D6567	9.1%
Tensile Strength - MD	ASTM D6818	146.4 lbs/ft (2.17 kN/m)
Elongation - MD	ASTM D6818	10.9%
Tensile Strength - TD	ASTM D6818	109.2 lbs/ft (1.62 kN/m)
Elongation - TD	ASTM D6818	14.3%
Biomass Improvement	ASTM D7322	398%

Slope Design Data: C Factors

Slope Gradients (S)			
Slope Length (L)	≤ 3:1	3:1 – 2:1	≥ 2:1
≤ 20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
≥ 50 ft (15.2 m)	0.19	N/A	N/A

Roughness Coefficients – Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 – 2.0 ft	0.055 – 0.021
≥ 2.0 ft (0.60 m)	0.021



North American Green
5401 St. Wendel-Cynthiana Road
Poseyville, Indiana 47633

nagreen.com
800-772-2040

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EC_RM_X_MP05_B575BN_6.13

Surveyors - Engineers - Landscape Architects



July 16, 2021

Stacie Gibbs, BCO
Planning, Zoning & Code Administrator
Mount Joy Borough
21 E. Main Street
Mount Joy, PA 17552

SUBJECT: Lancaster County Career & Technology Center – Mount Joy Campus
Final Minor Subdivision Plan Modification Request Withdrawal
DCG Project Number 4343-21

Dear Ms. Gibbs:

On behalf of our client, Lancaster County Vo-Tech School Authority, we are withdrawing the following modifications based on the ARRO review letter dated July 8, 2021.

Stormwater Ordinance

1. Section 226-37.C.(1).(d).[4] – Swale Side Slopes

Sincerely,

D. C. GOHN ASSOCIATES, INC.

Donovan E. Hollway
Civil 3D Designer

Cc: File

[illegible]

BaB-Bedington Silt Loom, 3%–8% Slopes
BaC-Bedington Silt Loom, 8%–15% Slopes
BeD-Bedington Chert Silt Loom, 15%–25% Slopes
Da-Durfield Silt Loom, 0%–5% Slopes
DaB-Durfield Silt Loom, 5%–8% Slopes
HaA-Hagerstown Silt Loom, 0%–5% Slopes
HaB-Hagerstown Silt Loom, 5%–8% Slopes
HaC-Hagerstown Silty Clay Loom, 8%–15% Slopes
Hc-Hagerstown-Urbon land complex

1. THE BEARINGS SHOWN HEREON ARE RELATIVE TO THE NORTHEAST ARIZONA STATE PLANE COORDINATE SYSTEM (PA SPCS). ZONE 1202, NORTH AMERICAN DATUM OF 1983 (NAD83) (1982). BASED ON A FINAL HORIZONTAL SUBSTATION PLAN FOR LAKE MEAD COUNTY CENTER, ARIZONA TECHNOLOGY CENTER, SUBSTATION RECORDS OF LAKE MEAD COUNTY AS DOCUMENT J2016-0355-J ON OCTOBER 20, 2016.
2. THE ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1983 (NAD83). BASED ON A FINAL HORIZONTAL SUBSTATION PLAN NOTED ABOVE. NONE SPECIFICALLY BASED ON THE FOLLOWING SURVEY CONTROL POINTS:

2,978,925.14 SQ.FT. = 68,387 AC
(GROSS-INCLUDES ALL RIGHTS-OF-WAY AND EASEMENTS)
2,858,432.05 SQ.FT. = 65,621 AC.
(NET EXCLUDES ALL RIGHTS-OF-WAY AND EASEMENTS)

[illegible]

ADDRESS: 1730 HAYS HERR DRIVE
WILLOW STREET, PA 17584
TELEPHONE: 717-653-3001
FED REFERENCE L-570345
ANC. CO. TAX ACCT: 461-96483-0-0000


dc
john
Associates, Inc.

Surveyors Engineers
Landscape Architects

P.O. Box 175
Houma, LA 70502-0175
(713) 633-4388
FAX: 603-1998

EXISTING CONDITIONS PLAN
FOR
LANCASTER COUNTY CAREER
& TECHNOLOGY CENTER
MOUNT JOY CAMPUS
MOUNT JOY BOROUGH
LANCASTER COUNTY, PENNSYLVANIA

PROJECT NO.: 4343-21
SCALE: 1"=120'
DATE: JUNE 25, 2021
DRAWN BY: GRH
CHECKED BY:
DRAWING NO.: CC-2920
SHEET NO.: 2 OF 10




SCALE: 1"=120'



L.C.P.C. 1997

SCALE: AS NOTED
DATE: JUNE 25, 2021
DRAWN BY: CRN
CHECKED BY:
DRAWING NO.: CO-2920
SHEET NO. 3 OF 10



0 50 100
SCALE: 1"=100'

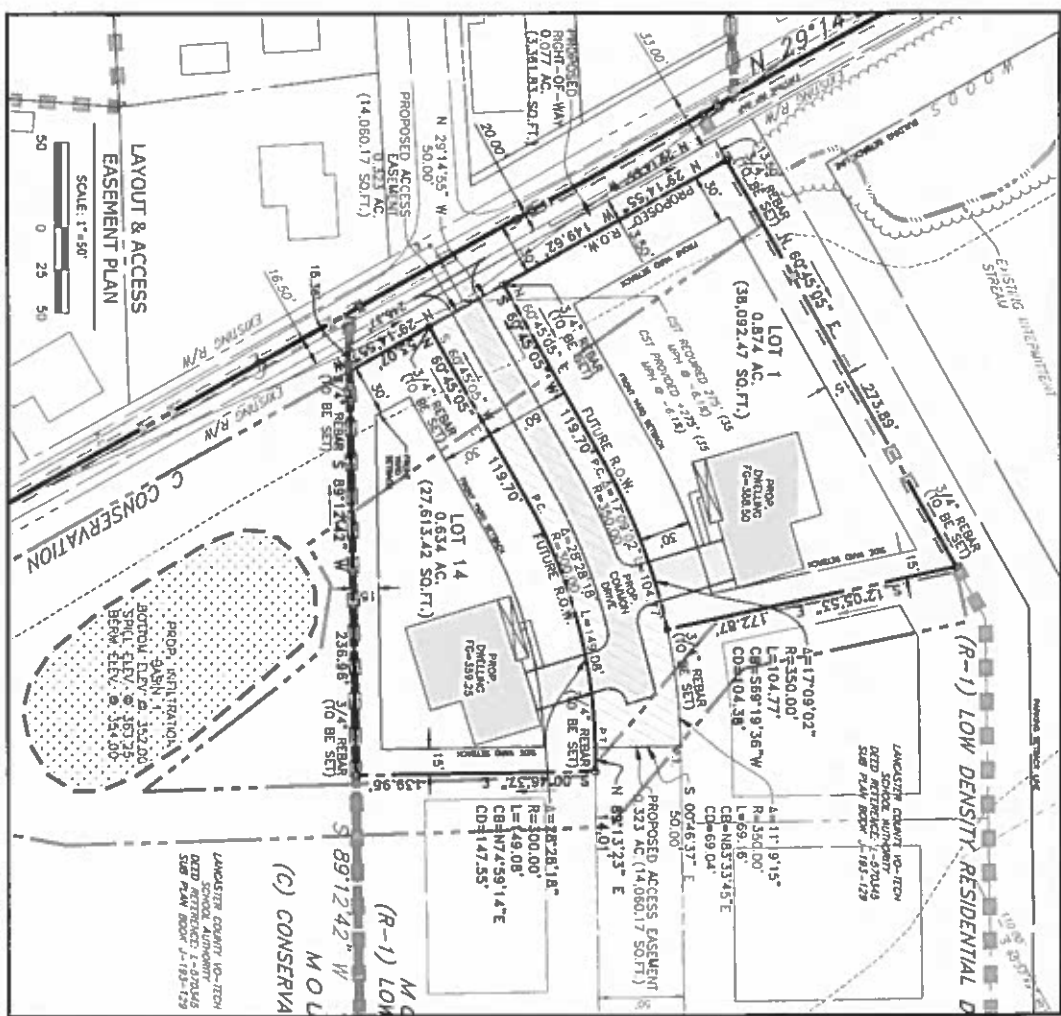
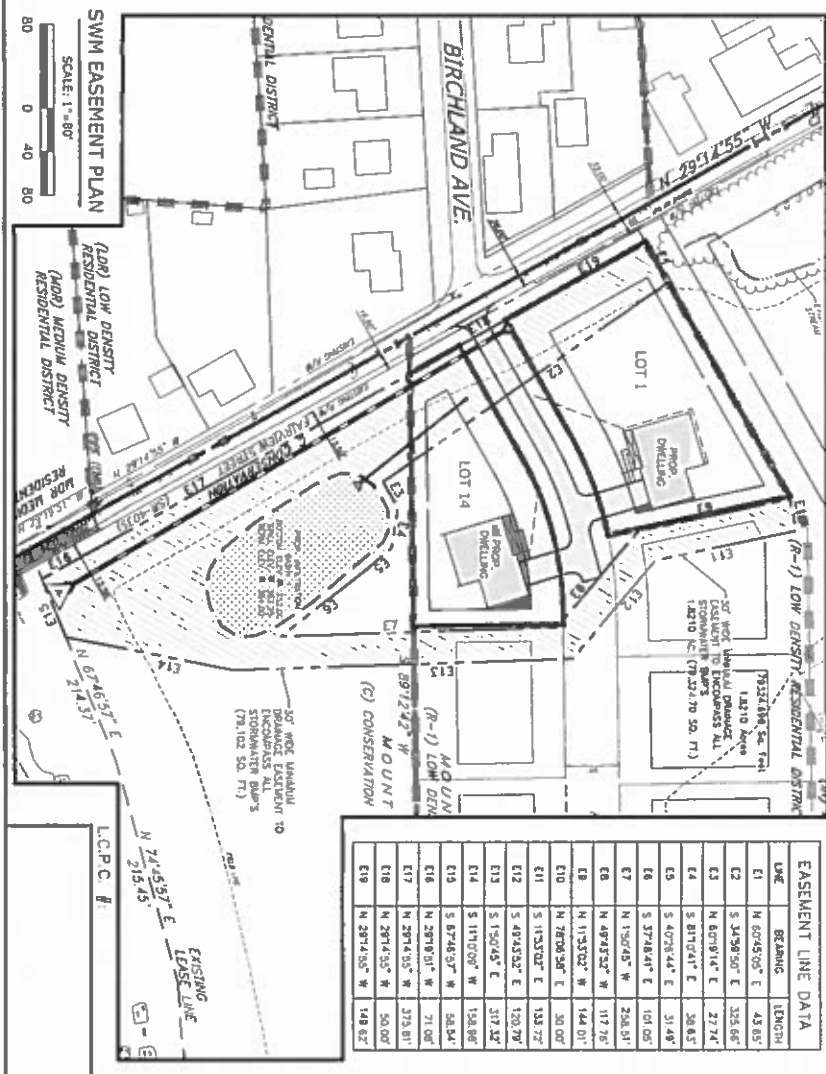
dc gohman
Associates, Inc.

Surveyors Engineers
Landscape Architects

P.O. BOX 128
MOUNTAIN VIEW, PA 17052-0128
(717) 433-6388
FAX: 603-11996

NAME: LANCASTER COUNTY VO-TECH
ADDRESS: 1730 HANS DRIVE
WILLOW STREET, PA 17584
TELEPHONE: 717-653-3001
DEED REFERENCE L-570345
ANC. CO. TAX ACCT: 461-96483-0-0000

[illegible]



EASEMENT LINE DATA		
LINE	BEARING	LENGTH
E1	N 60°45'00" E	43.65
E2	S 34°39'50" E	325.66
E3	N 60°01'14" E	217.47
E4	N 17°04'11" E	38.65
E5	S 40°28'44" E	31.49
E6	S 37°04'41" E	101.05
E7	N 70°45'18" W	234.91
E8	N 48°53'52" W	144.01
E9	N 11°55'02" E	174.17
E10	N 76°06'39" E	30.00
E11	S 11°55'02" E	133.72
E12	S 48°45'53" E	310.79
E13	S 15°04'06" E	7.57
E14	S 11°00'00" W	154.68
E15	S 67°48'37" W	344.84
E16	N 28°03'57" W	71.00
E17	N 28°04'05" W	373.81
E18	N 28°14'50" W	30.00
E19	N 28°14'50" W	148.62

1. THE PURPOSES OF THIS PLAN IS TO SUBORDINATE A SINGLE PAVEMENT LOTS FROM THE EXISTING LECTIC MOUNT JOY CAMPUS PROPERTY. THE SUBORDINATED LOTS WILL BE PART OF THE EDUCATIONAL CURRICULUM FOR THE LECTIC STUDENTS. ONCE THE LOTS ARE COMPLETE, THEY WILL BE SOLD TO PERSPECTIVE BUYERS.

- [illegible]

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWNSHIP AND BOROUGH SPECIFICATIONS AS APPLICABLE.
2. ALL CONSTRUCTION STANDARDS AND MATERIALS NOT SPECIFIED BY LOCAL MUNICIPAL REGULATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODES.

1. MAINTENANCE OF ALL PLANT, STRUCTURES, OUTFITTING FACILITIES, AND PRINCIPAL FACILITIES SHALL BE THE RESPONSIBILITY OF THE LOT OWNER. THE LANDOWNER ASSUMES THE RISK TO ENTER ANY EXISTING LOT WITHOUT INSPECT, OR REVIEW FACILITIES LOCATED THEREIN. ALL COSTS INVOLVED IN MAINTENANCE OF THE INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE LOT OWNERS. ALL FACILITIES MUST REMAIN AS DESCRIBED AND SHOWN ON THESE PLANS.
2. THE LANDOWNER IS NOT RESPONSIBLE FOR THE CONSTRUCTION OR MAINTENANCE OF ANY AREA, PLANTINGS, OR STREET NOT DEICATED FOR PUBLIC USE.
3. IF SUBSURFACE WATER IS ENCOUNTERED DURING EVALUATION AND CONSTRUCTION, THE SITE ENGINEER AND OWNER, JOINTLY OR TOGETHER, AND JOINTLY OR SEPARATELY SHALL BE NOTIFIED AND THE INSTALLATION OF UNDER DRAIN SHOULD BE CONSIDERED FOR PLANTING AND ROADSIDE AREAS.
4. UPOON COMPLETION AND FINAL STABILIZATION OF ALL STORM WATER STORAGE AND CONTROL FACILITIES, A RECORD PLAN SHOWING AND SUPPORTING CALCULATIONS SHALL BE PREPARED AND SUBMITTED FOR APPROVAL. AS-BUILT PLANS ARE REQUIRED UPON COMPLETION OF THE SITE IMPROVEMENTS.
5. A NEGATIVE OCCUPANCY PERMIT IS REQUIRED PRIOR TO SECTION 420 OF THE ACT OF JUNE 1, 1963 (P.A. 12-102). THE LOT OWNER SHALL BE RESPONSIBLE FOR THE COSTS OF THE PERMIT AND THE STATE ENGINEER'S REVIEW OF THE PLAN. THE PLAN MUST BE SUBMITTED TO THE STATE ENGINEER FOR REVIEW AND THE PLANING COMMISSION'S APPROVAL OF THIS PLAN IN NO WAY IMPLIES THAT SUCH A PERMIT CAN BE OBTAINED.

1. AREAS DESTROYED BY CONSTRUCTION ARE NOT TO BE COVERED BY MAINTENANCE SURFACES OR LANDSCAPING SHALL BE SEEDING AND MULCHED IN ACCORDANCE WITH THE SPECIFICATIONS AS LISTED WITHIN THE SEDIMENTATION AND EROSION CONTROL PLAN HANDBOOK FOR THIS SITE.

2. CONTRACTOR SHALL, AT LEAST, LISTING PLANT LOCATIONS PRIOR TO CONSTRUCTION AND MAINTENANCE OPERATIONS. ANY FAILURE DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE UNLAWFULLY AND COMPLETELY REWARD AT THE CONTRACTOR'S EXPENSE.
 3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REGULATIONS SHOWN ON THE PLAN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONSTRUCTION SHALL BE CONDUCTED IN THE OFFICES OF THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONSTRUCTION SHALL BE CONDUCTED IN THE OFFICES OF THE LOCAL AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONSTRUCTION SHALL BE CONDUCTED IN THE OFFICES OF THE LOCAL AUTHORITIES.
 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL MUNICIPALITY, COUNTY, STATE, ETC., AS REQUIRED AND AS IT RELATES TO CONSTRUCTION AREA BEING UNDERWAY PRIOR TO CONSTRUCTION. CONSTRUCTION ON THE PROJECT SITE ON OFF-SITE AREAS.
 5. ANY PERFORMANCE OF SITE WORK SHALL BE COMPLETED IN ONE CONSTRUCTION SEASON, AND DISPERSED AREAS SHALL NOT BE LEFT OPEN AND UNPROTECTED DURING THE WINTER AND SPRING THAW PERIODS.
- CONTRACTOR WILLING TO SIGN SHALL BE PLACED WITHIN THREE (3) DAYS AFTER COMPLETION OF OBLIGATIONS.
- CONTRACTOR'S NOTES:

THIS PLAN IS NOT TO BE CONSIDERED AS AN ENVIRONMENTAL AUDIT/ASSESSMENT PLAN. THIS PLAN MAKES NO WARRANTY OR GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ENVIRONMENTAL CONDITIONS OF THE FACILITIES HEREIN DESCRIBED, IE THE DETECTION OF SLURRY OR SUBSURFACE CONTAMINANTS AS DETECTED BY THE TDR. TDR CODE: 71 101 371 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297

1. CONSTRUCTION IS TO TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND SURROUNDING ENVIRONMENT. ANY DAMAGE TO EXISTING UTILITIES OR SURROUNDING ENVIRONMENT SHALL BE REPAIRABLE TO ORIGINAL CONDITION WITHIN 10 BUSINESS DAYS OF THE DATE OF DISCOVERY.
2. CONSTRUCTION IS TO BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRUCK PARKING, EROSION, SETBACK, AND SLOPE.
3. NO ONE SHALL SCALE FROM THESE PLANS.
4. CONSTRUCTION SHALL COMPLY WITH UNDERGROUND UTILITY AND OTHER UTILITY PROVIDERS FOR SERVICE AS APPLICABLE.
5. A.D.C. COMPANY ASSUMES ALL LIABILITIES IN REPRESENTATION AS TO THE SURFACE CONDITIONS OF THE PROJECT SITE AND THE CONDITION OF DEPTH OF ROCK, WATER TABLE, JOCK, CONTAMINANTS, ETC.

1. ALL CONTRACTING ACTIVITIES, SUCH AS WATER MANAGEMENT FACILITIES AND FLOOD-DAM REPAIRS, SHALL BE REPAIR OF STRUCTURES, REL, AND OTHER ENDOCHROMENTS.

- [illegible]

13. UPON COMPLETION OF THE AFFIDAVITS, THE APPLICANT SHALL SUBMIT THE AS BUILT PLAN FOR RECONSTRUCTION TO THE OFFICE OF THE RECORDER OF DEEDS.

11. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
12. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
13. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
14. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
15. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
16. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
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18. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
19. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.
20. The owner shall be responsible for obtaining all necessary permits and approvals for the construction of the dam.

1. ALL WATER LINE CROSSINGS SHALL HAVE 18" MINIMUM VERTICAL CLEARANCE BETWEEN PIPES. ALL CROSSINGS WHICH HAVE LESS THAN 18" CLEARANCE SHALL BE CONCRETE ENCASED. A 10" HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY UTILITY LINE AND THE OUTSIDE WALL OF ALL MANHOLES.

- [illegible]

1. CONTRACTOR SHALL CONTACT THE TOWNSHIP ENGINEERING OFFICER OR TOWNSHIP STAFF 48 HOURS PRIOR TO A REQUESTED INSPECTION.

- (a) THE COLLECTION OF NEIGHBOR SITE INFORMATION, INCLUDING SHEDDING OF VEGETATION, STANDSTOCKS OF TOPSOIL, AND COMPOSITION OF NEIGHBOR STORMWATER WASTEWATER FACILITIES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING FACTORS:
 - (a) THE COLLECTION OF NEIGHBOR STORMWATER, BUT NOT TO PRACTICALLY OF TOPSOIL, PREVENTED FROM ON SITE DEVELOPMENT WASTEWATER AND DRAINAGE CONCEPTS.
 - (b) THE COLLECTION OF THE CONSTRUCTION OF THE NEIGHBOR STORMWATER WASTEWATER FACILITIES AT SUCH TIMES AS SPECIFIED BY THE CONTRACTOR OTHER.
- (c) THE COLLECTION OF NEIGHBOR STORMWATER WASTEWATER FACILITIES, INCLUDING ESTABLISHMENT OF DRAINAGE CONCEPTS AND PLANNING.
- (d) THE COLLECTION OF ANY FINAL CHANGES, VEGETATION CONTROL, MEASURES ON OTHER SITE ESTABLISHMENT WORK DONE IN ACCORDANCE WITH THE PERMIT.

1. The Contractor shall contact and invite the Owner Mount Joy Township Office, the Erosion and Sediment Control Plan Preparer/site engineer, State Contractor, Mount Joy Borough Authority, Mount Joy Township, and the Pennsylvania Department of Transportation to the site.
2. CLEAN FILL IS DEMAND FOR ALL EXCAVATIONS. ALL EXCAVATIONS SHALL BE BACKFILLED WITH CLEAN, STONE, BRICKS, OR CONCRETE.

- [illegible]

2. Rough Grade lot 2.
3. Construct proposed house.
4. Fine grade remainder of site per the design to ensure runoff from driveway and/or storm drain and into nearby existing road.

12. Upon able observation for each lot, minimum uniform 70% perennial vegetative ground cover, except the immediate Quality Conservation Buffer, and remove the temporary erosion and sediment control devices/ditching until they are no longer needed. The vegetation must be established by the end of the construction period. Erosion control measures shall be thoroughly cleaned or lifted, sediment, including the storm sewer system, kept areas defined during the removal road/clear opening of the lot.
13. Upon conservation district approval and only during dry periods, cut above field soils and stabilize material.
14. Conservation District will inspect the lowermost County Farm Road for a final site inspection. Submit a Notice of Termination to the conservation district.

THE ENFORCEMENT OFFICER SHALL INSPECT ALL PHASES OF THE REGULATED ACTIVITY, INCLUDING BUT NOT LIMITED TO THE FOLLOWING PHASES:

1. THE COMBINATION OF PLANT/MATERIAL SORT PREPARATION, INCLUDING STRIPPING OF VEGETATION, STOCKPILING OF TOPSOIL, AND CONSTRUCTION OF TEMPORARY STORMWATER MANAGEMENT FACILITIES.
2. THE COLLECTION OF ROAD DEBRIS, BUT NOT TO EXCLUDE OF TOPSOIL, PERMANENT DAMAGE TO OTHER SITE DEVELOPMENT, IMPROVEMENTS AND GRASSY AREAS.
3. DURING THE CONSTRUCTION OF THE PERMANENT STORMWATER MANAGEMENT FACILITIES AT SUCH TIMES AS SPECIFIED BY THE PROJECT/ENGINEER. THIS INCLUDES INSPECTION FOR SUBGRADE PRIOR TO SOIL AND THE PAVEMENT.
4. THE COLLECTION OF PERMANENT STORMWATER MANAGEMENT FACILITIES, INCLUDING ESTABLISHMENT OF GRASSY COVERS AND PLANTINGS.
5. THE COMPLETION OF AIR POLLUTION, VIBRATION CONTROL, MEASURES ON OTHER SITE RESTORATION WORK DONE IN ACCORDANCE WITH THE PERMIT.
6. DISCONTINUATION OF MANAGEMENT REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - a. REMOVAL DEBRIS OF THE SOIL FACILITIES TO AVOID PROPER MAINTENANCE OF BUILT INFRASTRUCTURE AND CARE THE BUILT SHOULD BE INSPECTED BY A QUALIFIED PERSON WHICH MAY INCLUDE THE LANDOWNER, OR THE OWNER'S DESIGNED (INCLUDING BEST PRACTICE) MONITOR FOR DEDICATED AND OWNED FACILITIES), ACCORDING TO THE FOLLOWING VISUAL FEEDBACKS:

WAS SPECIFIED IN THE OPERATION AND MAINTENANCE AGREEMENT.

- [illegible]

1. The reproduction for the on-site soils is to provide competition in fir woods. Erosion is high and no mowing and permanent seeding. Vegetated seeds

- [illegible]

if void spaces are encountered, the user shall be notified and/or appropriate filler prior to being placed in the void space. The filler shall be placed in the void space and the underlying batch.

- migation measures should be designed and implemented in the light of the overall project design and direction of a qualified professional construction.

ALPHON COMBITION OF THE PLAY ASSOCIATIONS AND PRIOR TO THE RELEASE OF FINANCIAL STATEMENTS, THE APPLICATION SHALL SUBMIT AS-BUILT PLANS TO THE BOARD. THE AS-BUILT PLANS MUST SHOW THE FINAL DESIGN SPECIFICATIONS FOR ALL STEWARDSHIP MAINTENANCE FACILITIES AND BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.

- ANSWERS BY SCHOOL DISTRICTS**
- (1) The District shall submit the required fee to the School District to verify the claim includes all of the information mandated by statute for the student property and the facilities are shown at the correct location.
- (2) The School District shall create a form for the District to verify the claim on delivery completion required.
- (3) If the School District receives questions related to the District claim, the applicant shall submit a signed a District claim to the School Districting the completion.
- CLOSING REMARKS OF THE DISTRICT CLAIM BY THE SCHOOL DISTRICTS** The applicant shall submit the fee to the School District to verify the claim includes all of the information mandated by statute for the student property and the facilities are shown at the correct location.


(c) SNA FACILITIES WHICH ARE OFFERED FOR EDUCATION TO THE MONROVIA

- (b) SNA ROUTES MUST CONNECT TO OR ALERT ANY PORTION OF THE BROADCAST SNA
- (c) BUSES INCLUDE ON A WEEKS BASIS FOR WHICH THE BROADCAST IS REQUIRED TO KEEP AN INVENTORY UNDER THE BROADCAST SNA PROGRAM.
- (d) DIGITAL INVENTORY REQUIREMENTS.
- (e) THE DIGITAL INVENTORY SHALL BE IN AN ELECTRONIC FORMAT ACCESSIBLE TO THE BROADCAST EXPERTS
- (f) THE DIGITAL INVENTORY SHALL INCLUDE ALL INFORMATION INCLUDED AND STORED ON THE JAMESON AS-BUILT PLAN
- (g) ALL COORDINATES AS SPECIFIED ON THE PLAN SHALL BE BASED ON THE 1983 NORTH AMERICAN DATUM
- (h) THE PLAN COORDINATE SYSTEM (HORIZONTAL AND VERTICAL) AND HORIZONTAL FOR (VERTICAL)

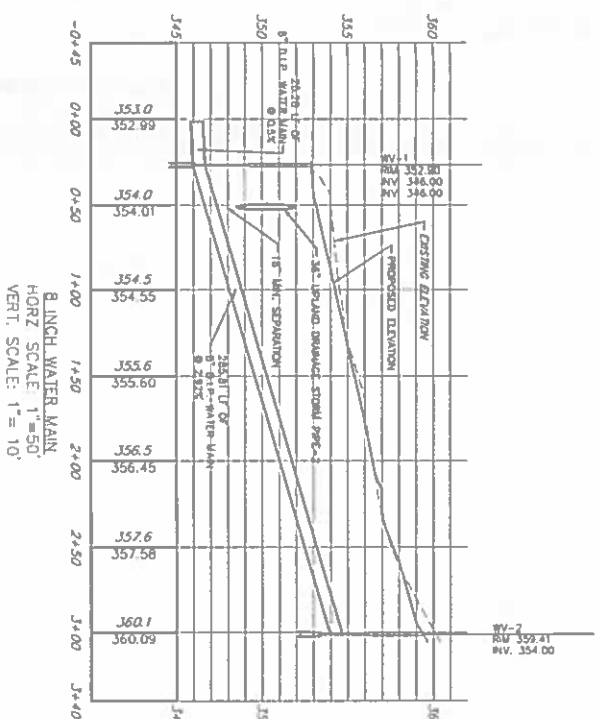
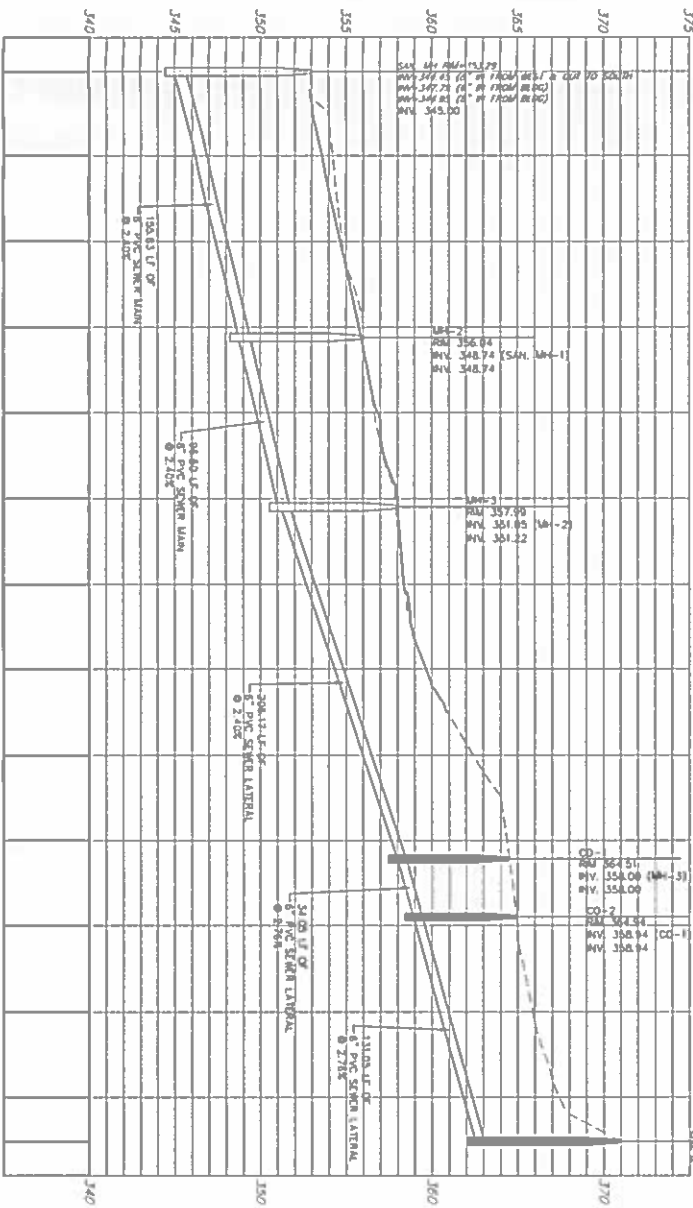
[illegible]

- [illegible]



PROJECT NO: 4343-21
SCALE: 1"=40'
DATE: JUNE 25, 2021
DRAWN BY: GRN
CHECKED BY:
DRAWING NO: CG-2920
SHEET NO: 6 OF 10

SCALE: 1"=40'

DATE	REVISIONS	OWNER
		NAME: LANCASTER COUNTY VO-TECH
		SCHOOL AUTHORITY
		ADDRESS: 1730 HAYS HERR DRIVE
		WILLOW STREET, PA 17584
		TELEPHONE: 717-653-3001
		DEED REFERENCE L-570345
		LANC. CO. TAX ACCT: 461-96483-0-0000



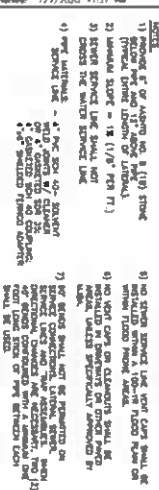
UTILITY PLAN AND PROFILES
FOR
LANCASTER COUNTY CAREER
& TECHNOLOGY CENTER
MOUNT JOY CAMPUS
MOUNT JOY TOWNSHIP &
MOUNT JOY BOROUGH
LANCASTER COUNTY, PENNSYLVANIA

PROJECT NO.: 4343-21
SCALE: AS NOTED
DATE: JUNE 25, 2021
DRAWN BY: GRN
CHECKED BY:
DRAWING NO.: CO-2920
SHEET NO.: 8 OF 10

22 Mount Joy Street
Mount Joy, PA 17528-0128
Phone: 610-251-1333
Fax: 610-251-1398
dcjohn Associates, Inc.
Surveyors Engineers
Landscape Architects

OWNER
NAME: LANCASTER COUNTY VO-TECH
SCHOOL AUTHORITY
ADDRESS: 1730 HAYS HERR DRIVE
WILLOW STREET, PA 17584
TELEPHONE: 717-653-3001
DEED REFERENCE: L-570345
LANC. CO. TAX ACCT.: 461-96483-0-0000

DATE	REVISIONS



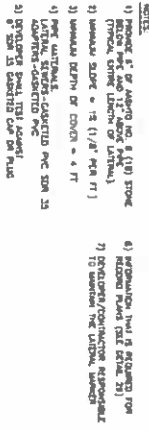
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DATE	DESCRIPTION	AMOUNT
JULY 27		
BALANCE		75



APRIL

DATE	12/20/2023
TIME	7



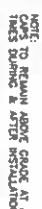
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DATE	MARCH
DETAIL	



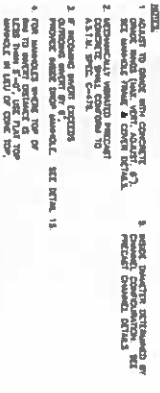
11/27/20

DATE:	12
DOOR:	
TIME:	



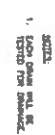
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DATE:	JULY 20
OFFICE:	

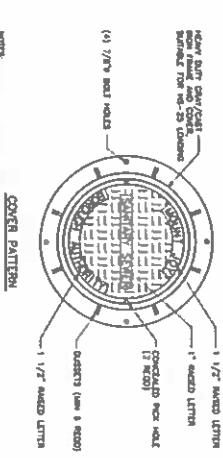


APRIL

11



DATE:	JULY
DETAILED	



ALPRO

Case:	JKV
Page:	1

EROSION & SEDIMENTATION CONTROL REPORT

For

LANCASTER COUNTY CAREER & TECHNOLOGY CENTER

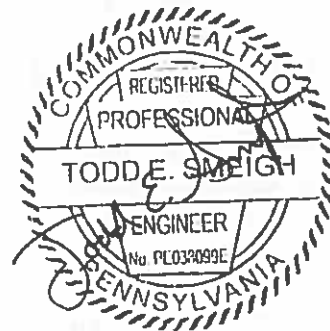
FINAL MINOR SUBDIVISION PLAN

DC Gohn Project No.: 4343-21

Mount Joy Township & Mount Joy Borough
Lancaster County, PA

June 30, 2021

REVISIONS



Surveyors - Engineers - Landscape Architects

**EROSION AND SEDIMENT CONTROL NARRATIVE
FOR
LANCASTER COUNTY CAREER & TECHNOLOGY CENTER
in
MOUNT JOY BOROUGH AND MOUNT JOY TOWNSHIP, LANCASTER
COUNTY, PA**

This narrative is to accompany the Erosion and Sediment Control Plans for LCCTC prepared by DC Gohn Associates, Project No. 4343-21, Sheets 1-5. Sheets 1-10 of the Final Minor Subdivision Plan for LCCTC shall also be considered part of the said Erosion and Sediment Control Plan.

PAST, PRESENT, AND PROPOSED LAND USES

The past land use for the last 50 years is institutional/agricultural. The present land use for the last 5 years has been institutional/agricultural. The proposed land use for the 2 subdivided lots is residential. The remaining lands is to remain the same as the present.

EROSION AND SEDIMENT PLAN PLANNING AND DESIGN

The erosion and sediment control plans minimize extent and duration of earth disturbance in the construction sequence by noting that all areas of disturbance must be stabilized immediately including the installation of any erosion control matting and other erosion control measures.

Erosion and sediment control measures noted on the drawings are designed to protect the existing drainage features and vegetation. Perimeter BMP's are proposed to further protect the existing features of the site.

SURFACE WATER CLASSIFICATIONS

The project site drains to the south to the existing channel located within Rotary Park. The channel drains east to Little Chickies Creek. The designated use of Little Chickies Creek is TSF, MF (Trout Stocking Fishery – Migratory Fishery).

EROSION AND SEDIMENT CONTROL BMP'S

The erosion and sediment control BMP's proposed to control erosion are filtersoxx, rock construction entrance, rock filter, temporary and permanent seeding, rip rap aprons, and erosion control matting, & orange construction fencing.

PROPOSED IMPROVEMENTS

The Final Minor Subdivision Plan proposes a 2 new residential lots. Each lot contains a new dwelling. The two separate lots will share access to a common drive. Both lots will drain south to a proposed stormwater management facility within Mount Joy Borough. The subject property has a total site area of 65.621 acres.

CRITICAL STAGES OF IMPLEMENTATION OF BMP'S

During installation of the proposed infiltration basin, the contractor must contact DC Gohn Associates to coordinate the inspection of the construction and installation of the proposed BMP's.

SOILS

The soils located on the project site, as defined by the Natural Resources Conservation Service, are as follows:

MAP SYMBOL	SOIL NAME	HYDRO. SOIL GROUP
HaB	Hagerstown silt loam, 3-8% slopes	B

TABLE 1: BUILDING SITE DEVELOPMENT

Soil Name	Shallow Excavations	Dwellings w/o Basements	Dwellings w/ Basements	Small Commercial Buildings	Local Roads and Streets	Lawns and Landscaping
HaB	Moderate: depth to rock, too clayey	Moderate: shrink-swell	Moderate: depth to rock, shrink-swell	Moderate: shrink-swell, slope	Severe: low strength	Moderate: large stones

TABLE 2: CONSTRUCTION MATERIALS

Soil Name	Roadfill	Sand	Gravel	Topsoil
HaB	Poor: low strength	Improbable: excess fines	Improbable: excess fines	Poor: small stones.

TABLE 3: WATER MANAGEMENT

Soils Name	Limitations For:			Features Affecting:		
	Pond Reservoir Areas	Embankments, Dike, Levees	Aquifer-fed Excavated Ponds	Drainage	Terrace & Diversions	Grassed Waterways
HaB	Moderate: seepage, depth to rock, slope.	Severe: hard to pack.	Severe: no water.	Deep to Water	Favorable	Favorable

Soil Resolutions

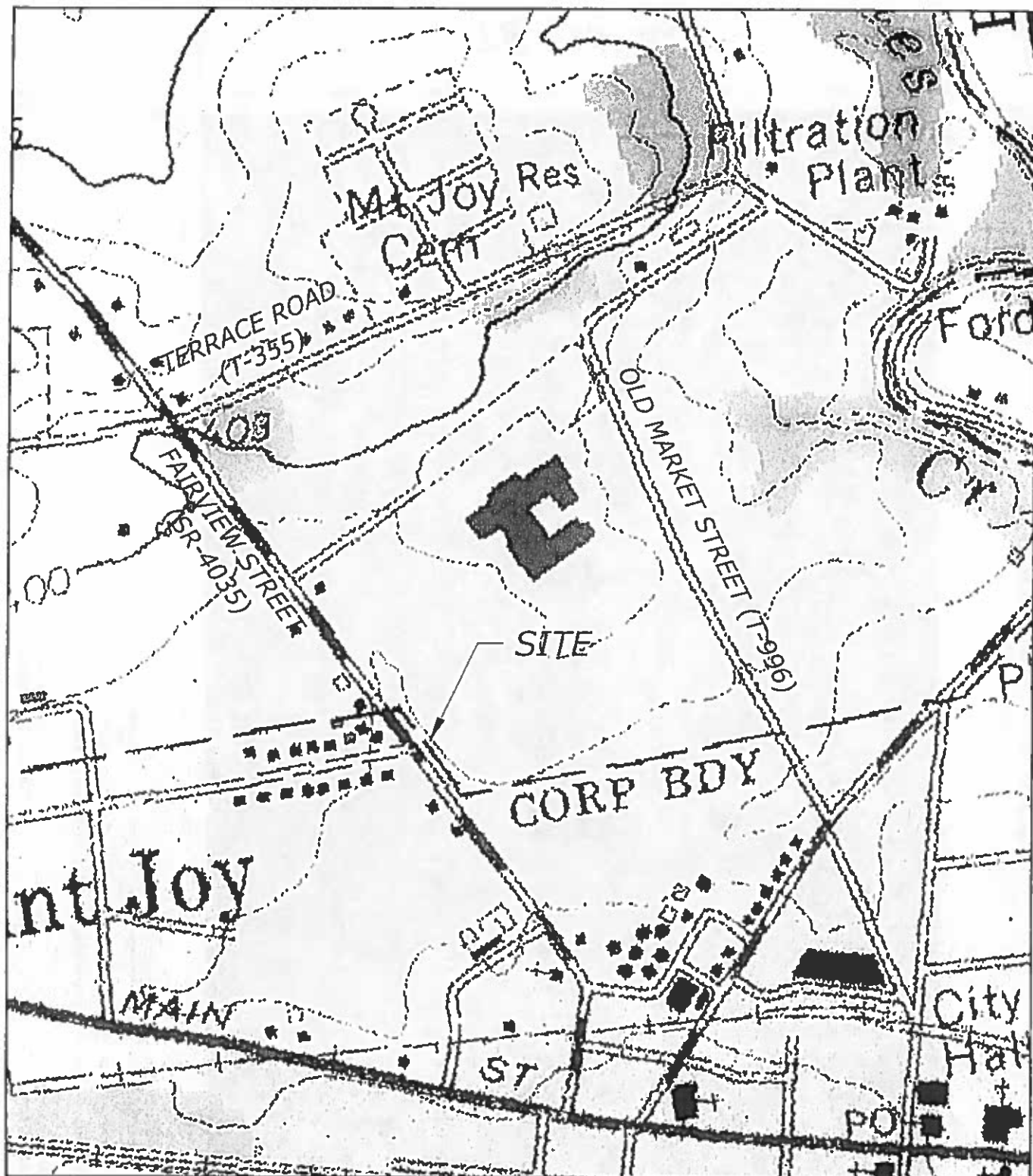
The resolution for the soils is to provide proper compaction in all fill areas. Erosion will be controlled by matting, rock filter, rip rap aprons and filter socks.

Thermal Impacts

The thermal impacts during construction were minimized by the filtersox, the rock filter dam, and the erosion control matting.

The thermal impacts of the project were minimized using the stormwater facilities to treat the first flush of stormwater.

There are no naturally occurring geological formations or soil conditions that have the potential to cause pollution during or after earth disturbance activities.



COLUMBIA WEST USGS MAP
FOR
LCCTC
432 OLD MARKET STREET
MOUNT JOY TOWNSHIP
LANCASTER COUNTY, PENNSYLVANIA

FIGURE-1

PROJECT NO. 4343-21
DATE: JUNE 17, 2001
DRAWN BY: DEN
CHECKED BY: SAC

SCALE: 1"=100'

dc gohn
Associates, Inc.

Surveyors - Engineers - Landscape
Architects

37 Mount Joy Street
PO Box 175
Mount Joy, PA 17552
Ph: (717) 653-5300
www.dcgohn.com

OWNER

NAME: LANCASTER COUNTY VO-TECH
SCHOOL AUTHORITY
ADDRESS: 1730 HANS HERR DRIVE
WILLOW STREET, PA 17584
TELEPHONE: 717-653-3001

DEED REFERENCE: L-570345
LANC. CO. TAX ACCT.: 461-98483-0-0000

Hydrologic Soil Group—Lancaster County, Pennsylvania
(LCCTC Soils Map)

Figure - 2

Map Scale: 1:10,500 if printed on A landscape (11" x 8.5") sheet.

N
0 150 300 450 600 750 Meters

Figure 3 – Plan Preparer Qualifications
DONOVAN E. HOLLWAY

EDUCATION

B.S.L.A, Landscape Architecture, West Virginia University

EXPERIENCE

Mr. Hollway has over 6 years' experience in the stormwater management & subdivision/land development planning process. His responsibilities include stormwater and infiltration design, stormwater conveyance design, erosion and sediment control design, site grading, and application/report writing. He is also knowledgeable in landscaping design and 3D Modeling.

Mr. Hollway is well versed in project permitting and managing a project through the approval process. He has collaborated with architects, traffic engineers, environmental consultants, geologists, and other design professionals on numerous projects. He has met with clients and sub-consultants to review project information to develop design solutions. He has also attended meetings with contractors and municipal engineers' onsite to develop solutions during the construction phases.

PROJECT EXPERIENCE

Mr. Hollway has worked on a multitude of projects including subdivisions of all types, multiple industrial warehouses, churches, residential, and commercial properties. He has developed sketch plans and final plans to present to the associated municipality along with the supporting documentation necessary.

Mr. Hollway provided site and storm water design on the significant expansion of Carel USA, an industrial warehouse located in Manheim Borough, Lancaster County. The project included working closely with the design team including the architect, construction manager, borough engineer, and professional geologist to develop a stormwater design solution for the new proposed buildings and parking lot expansions which will occur in multiple phases. This particular site addressed borough regulations for volume control, as well as LCCD/PA DEP requirements to address water quality.

Mr. Hollway provided stormwater management & grading design on the United Churches project within Elizabethtown Borough, Lancaster County. The project involved collaborating with several engineers, architect, borough officials, geologists, and surveyors to construct a new Social Services Building. The project also included additional parking area, a playground, and associated stormwater management facilities. The project was designed to maximize efficiency of the proposed site through the layout using multiple stormwater facilities. Mr. Hollway was involved in the application/permitting process, as well as obtaining the necessary modifications & variances that were required from the Borough to advance this project through the approval process.

Appendices

Appendix A Filter Socks

STANDARD E&S WORKSHEET #1

Compost Filter Socks

PROJECT NAME: LCCTC

LOCATION: 432 OLD MARKET STREET

PREPARED BY: DEH

DATE: 6-30-21

CHECKED BY:

DATE:

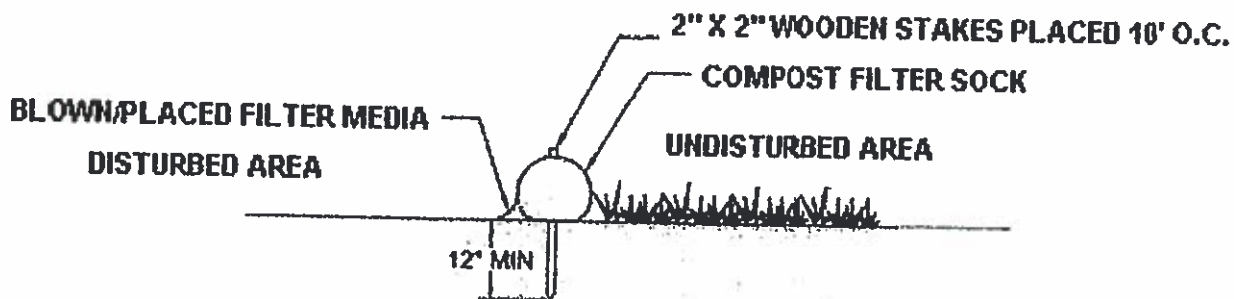
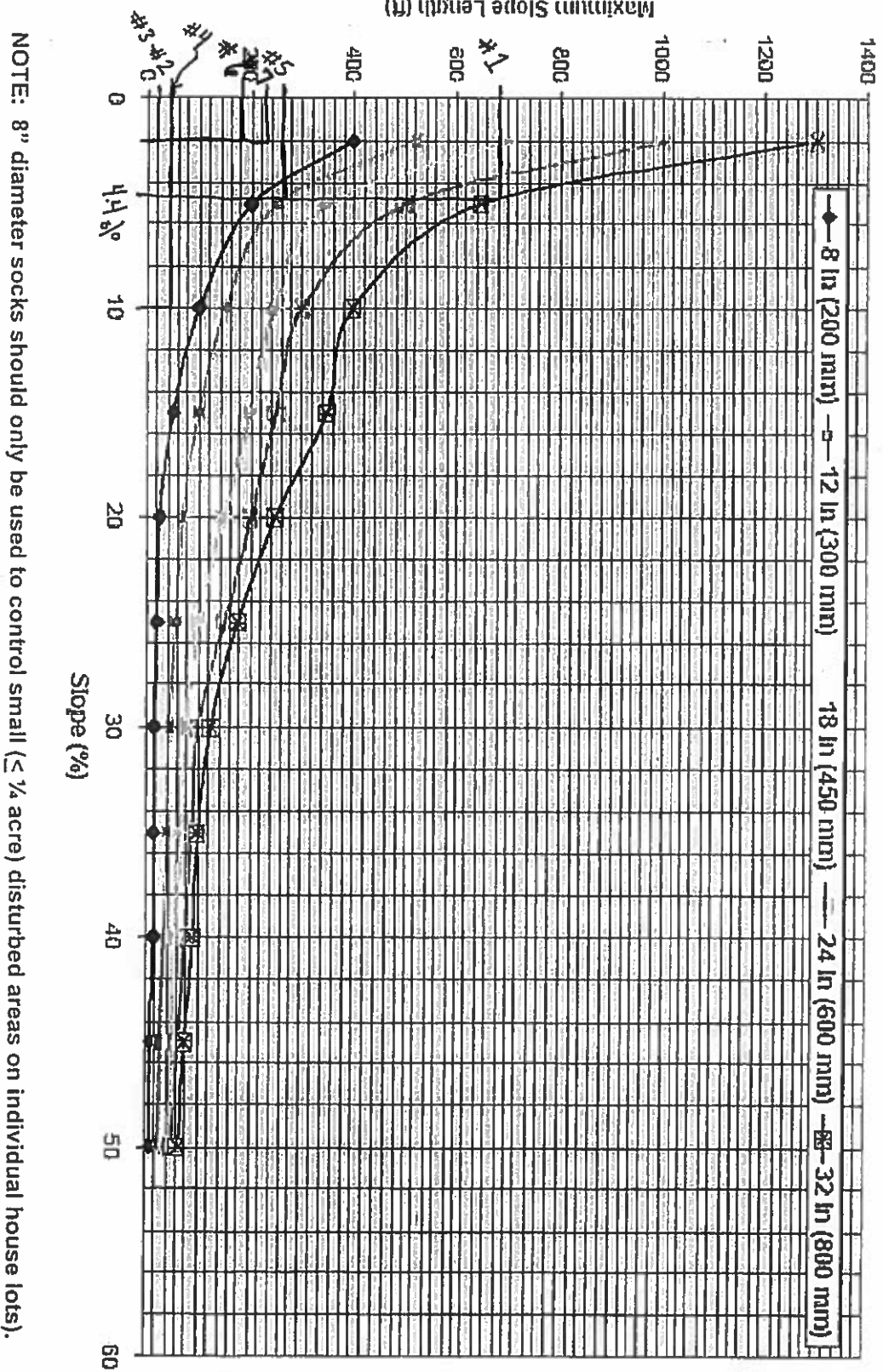
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FIGURE 4.2
MAXIMUM PERMISSIBLE SLOPE LENGTH ABOVE COMPOST FILTER SOCKS



Adapted from Filtrexx

Appendix B ES Matting



ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet – BioNet® S75BN™ Erosion Control Blanket

DESCRIPTION

The short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two intertwined yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a Leno weave) to form approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The S75BN shall meet Type 2.C specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-D3 Section 713.17

Material Content

Matrix	100% straw fiber	0.5 lbs/sq yd (0.27 kg/sm)
Netting	Top side only: Leno woven 100% biodegradable natural organic fiber	9.3 lbs/1000 sq ft (4.5 kg/100 sm)
Thread	Biodegradable	

Standard Roll Size

Width	6.67 ft (2.0 m)
Length	108 ft (32.92 m)
Weight ± 10%	46.4 lbs (21.05 kg)
Area	80 sq yd (66.9 sm)

Design Permissible Shear Stress

Unvegetated Shear Stress	1.60 psf (76.3 Pa)
Unvegetated Velocity	5.00 fps (1.52 m/s)

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.29 in. (7.37 mm)
Permeability	ECTC Guidelines	81.44%
Water Absorbency	ASTM D1117	440%
Mass/Unit Area	ASTM D6475	9.12 ± 2.7 g/sq yd (3.0 g/sm)
Swell	ECTC Guidelines	15.7%
Solder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	6.92 oz-in
Light Penetration	ASTM D6567	9.1%
Tensile Strength - MD	ASTM D6818	145.4 lbs/ft (2.17 kN/m)
Elongation - MD	ASTM D6818	10.9%
Tensile Strength - TD	ASTM D6818	109.2 lbs/ft (1.62 kN/m)
Elongation - TD	ASTM D6818	14.3%
Biomass Improvement	ASTM D7322	398%

Slope Design Data: C Factors

	Slope Gradient (S)		
	≤ 3:1	3:1 – 2:1	≥ 2:1
Slope Length (L)			
20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
50 ft (15.2 m)	0.09	N/A	N/A

Roughness Coefficients – Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 – 2.0 ft	0.055 – 0.021
≥ 2.0 ft (0.60 m)	0.021



**NORTH
AMERICAN
GREEN**

North American Green
5401 St. Wendel-Cynthiana Road
Poseyville, Indiana 47633

nagreen.com
800-772-2040

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ECT_RM_X_MPDS_B575BN_6.13

Appendix C
OFFSITE CHANNEL DISCHARGE

Channel Design Data

Project Name: **LCCTC OFFSITE DISCHARGE CHANNEL**

Project Number: **4343-21**

Prepared By: **DEH**

Checked By: **TES**

Date: **6/15/2021**

Date: _____

Bare Earth (Table 4.7a)

Silt Loam, noncolloidal ▼

Rotary Park Swale A.1.

Type of Channel

Parabolic ▼

Manheim Street Swale A.2.

Type of Channel

Parabolic ▼

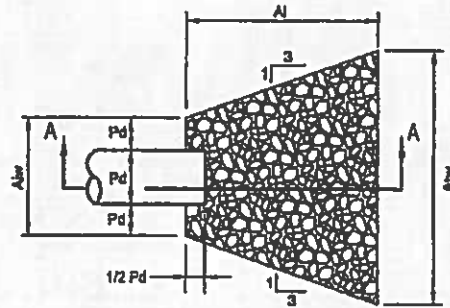
Design Criteria	Bare Earth	Lining NAG S75 ▼	Grass (Vel)	Grass (Cap)	Bare Earth	Lining NAG S75 ▼	Grass (Vel)	Grass (Cap)
Installation Depth, ft	7.00		7.00	7.00	3.00		3.00	3.00
Manning's 'n' Value	0.020		0.030	0.030	0.020		0.030	0.030
Bottom Slope, ft/ft	0.005		0.005	0.005	0.015		0.015	0.015
Right Slope, _H: 1V	3.0		3.0	3.0	3.0		3.0	3.0
Left Slope, _H: 1V	3.0		3.0	3.0	3.0		3.0	3.0
Top Width (Parabolic Only)	35.0		35.0	35.0	50.0		50.0	50.0
Bottom Width (Other), ft								
Flow, cfs	7.91		7.91	7.91	7.91		7.91	7.91
Length of Channel, ft	1267		1267	1267	1573		1573	1573
Allowable Shear, lb/ft ²								
Bottom Width Depth Ratio	-	-	-	-	-	-	-	-
12:1 Maximum		Stable				Stable		
Lining Quantity, yd ²		0.0				0.0		
Design Comments	100 year design storm				100 year design storm			
Design Capacity								
Flow Depth, ft			0.61	0.61			0.33	0.33
Top Width, ft			10.30	10.30			16.51	16.51
Area, ft ²			4.16	4.16			3.60	3.60
Wetted Perimeter, ft			10.39	10.39			16.53	16.53
Hydraulic Radius, ft			0.40	0.40			0.22	0.22
Hydraulic Depth, ft			0.40	0.40			0.22	0.22
Froude Number			0.53	0.53			0.83	0.83
Velocity, ft/s			1.90	1.90			2.20	2.20
Velocity Head, ft			0.06	0.06			0.07	0.07
Total Energy, ft			0.66	0.66			0.40	0.40
Critical Slope			0.018	0.018			0.022	0.022
Required Freeboard, ft			0.50	0.50			0.50	0.50
Design Depth, ft			1.1	1.1			0.8	0.8
Maximum Capacity								
Flow, ft ³ /s			1501	1501			972	972
Flow Depth, ft			7.00	7.00			3.00	3.00
Area, ft ²			163.33	163.33			100.95	100.95
Top Width, ft			35.00	35.00			50.00	50.00
Wetted Perimeter, ft			38.44	38.44			50.48	50.48
Hydraulic Radius, ft			4.25	4.25			2.00	2.00
Hydraulic Depth, ft			4.67	4.67			2.02	2.02
Froude Number			0.61	0.61			0.98	0.98
Velocity, ft/s			9.19	9.19			9.63	9.63
Velocity Head, ft			1.31	1.31			1.44	1.44
Total Energy, ft			8.31	8.31			4.44	4.44

10 yr →

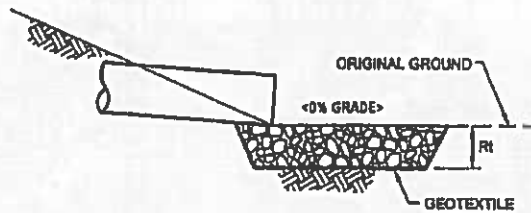
Appendix D RIPRAP

STANDARD E&S WORKSHEET # 20 **Riprap Apron Outlet Protection**

PROJECT NAME: LCCTC
 LOCATION: MT JOY CAMPUS
 PREPARED BY: DEIA DATE: 6/15/21
 CHECKED BY: _____ DATE: _____



PLAN VIEW



SECTION A - A

NO.	PIPE DIA. Do (in.)	TAIL WATER COND. (Max or Min)	MAN. "n" FOR PIPE	PIPE SLOPE (FT/FT)	Q (CFS)	V* (FPS)	RIPRAP SIZE	Rt (in)	AI (ft)	Alw (ft)	Atw (ft)
1	15	MIN	.013	.015	2.95	4.25	R-3	12"	6'	3.75'	9.75'
2	36	MIN	.013	.0078	57.06	8.59	R-5	27"	20'	9'	29'

*:The anticipated velocity (V) should not exceed the maximum permissible shown in Table 6.6 for the proposed riprap protection. Adjust for less than full pipe flow. Use Manning's equation to calculate velocity for pipe slopes ≥ 0.05 ft/ft.

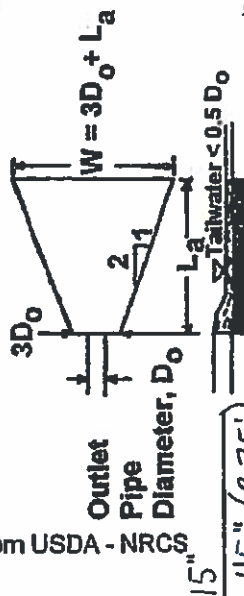
PIPE-1

FIGURE 9.3
Riprap Apron Design, Minimum Tailwater Condition

PIPE-1
(FES-1 to FES-2)

DESIGN OF RIPRAP APRON OUTLET PROTECTION FROM A ROUND PIPE FLOWING FULL
MINIMUM TAILWATER CONDITION ($T_w < 0.5$ DIAMETER)

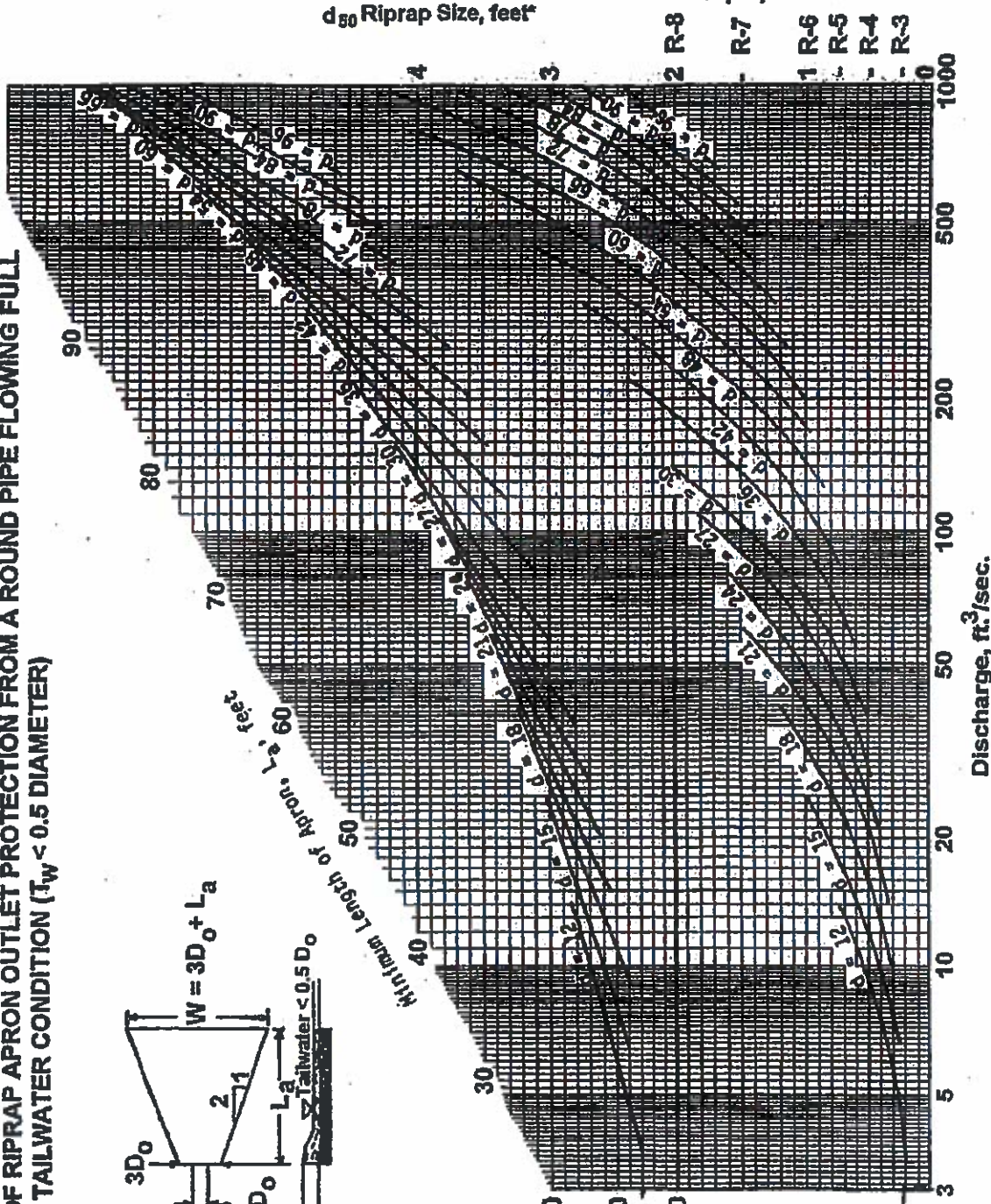
Adapted from USDA - NRCS



$D_o = \frac{45'' (3.75')}{15''}$
 $3D_o = \frac{2.95}{R-3}$
 $Q_{max} = \frac{3''}{3''}$
 $D50 = \frac{12''}{6'}$
 $RipRap = \frac{9.75''}{9.75''}$
 $W =$

d_{50} Riprap Size, feet*

Riprap R-size*

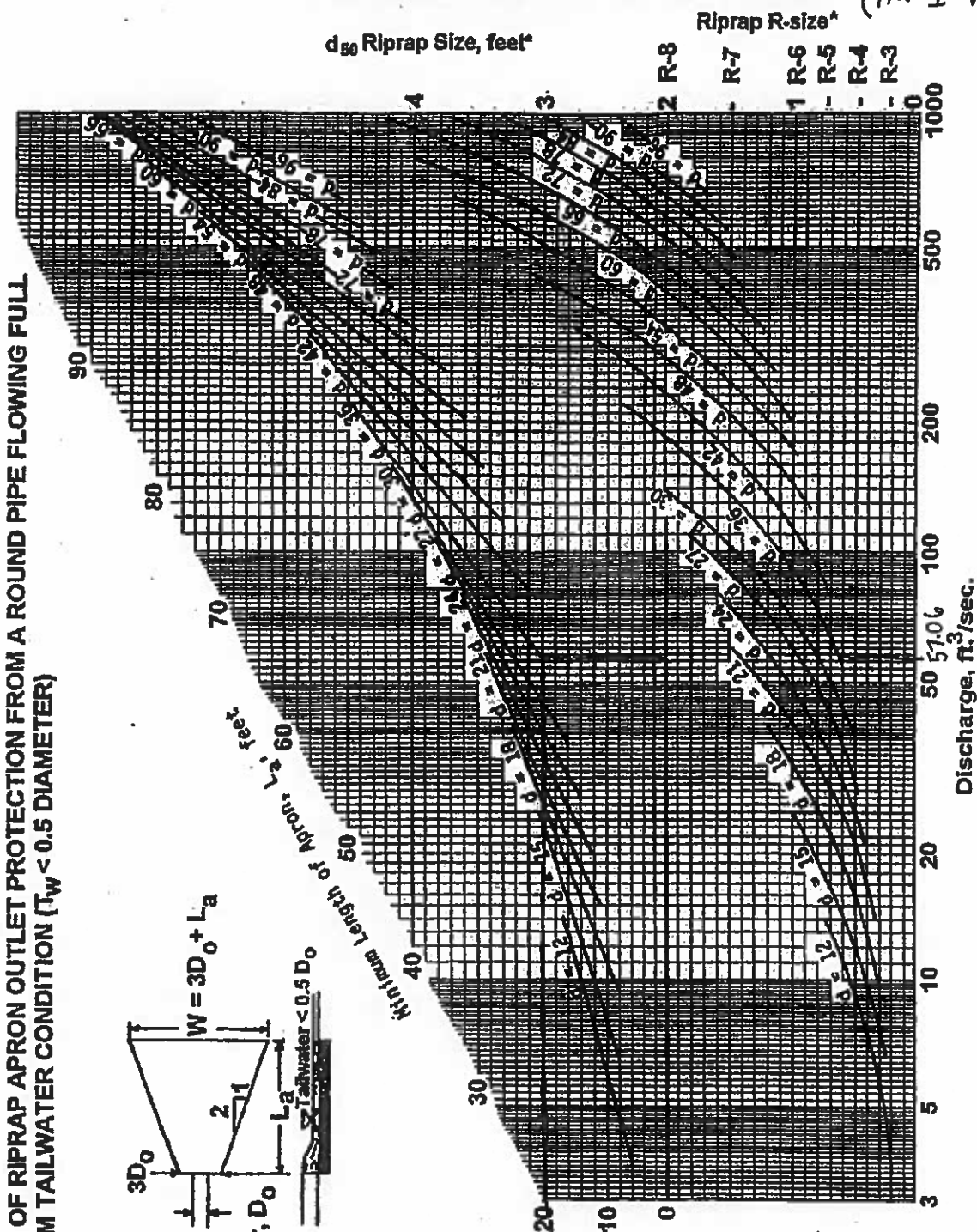


* For discharge velocities exceeding Maximum Allowable for Riprap Indicated, increase d_{50} stone size and/or provide velocity reduction device.

D50 sizes	Placement Thickness
R-3=3"	12"
R-4=6"	18"
R-5=9"	27"
R-6=12"	36"
R-7=15"	45"
R-8=24"	72"

PIPE-2

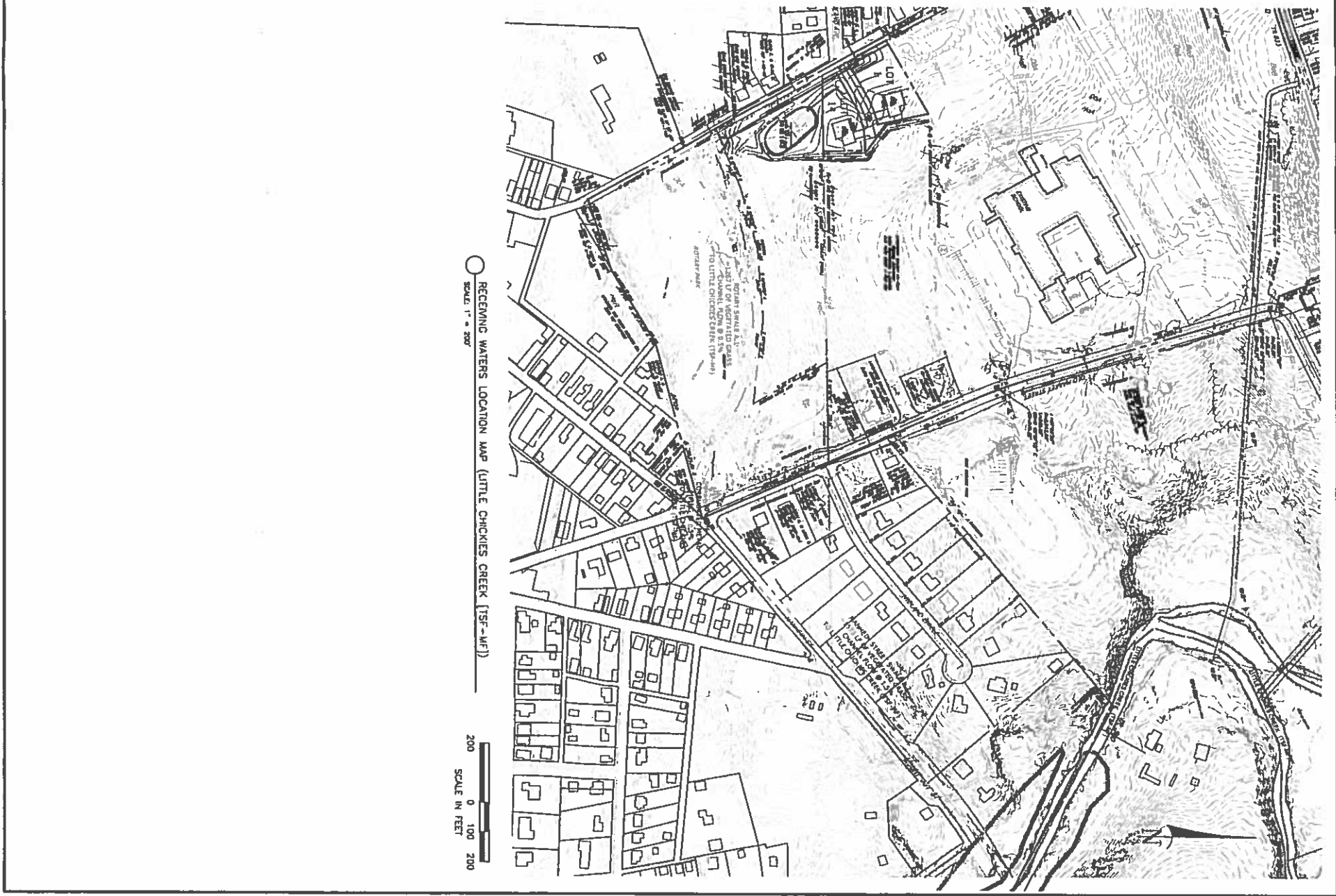
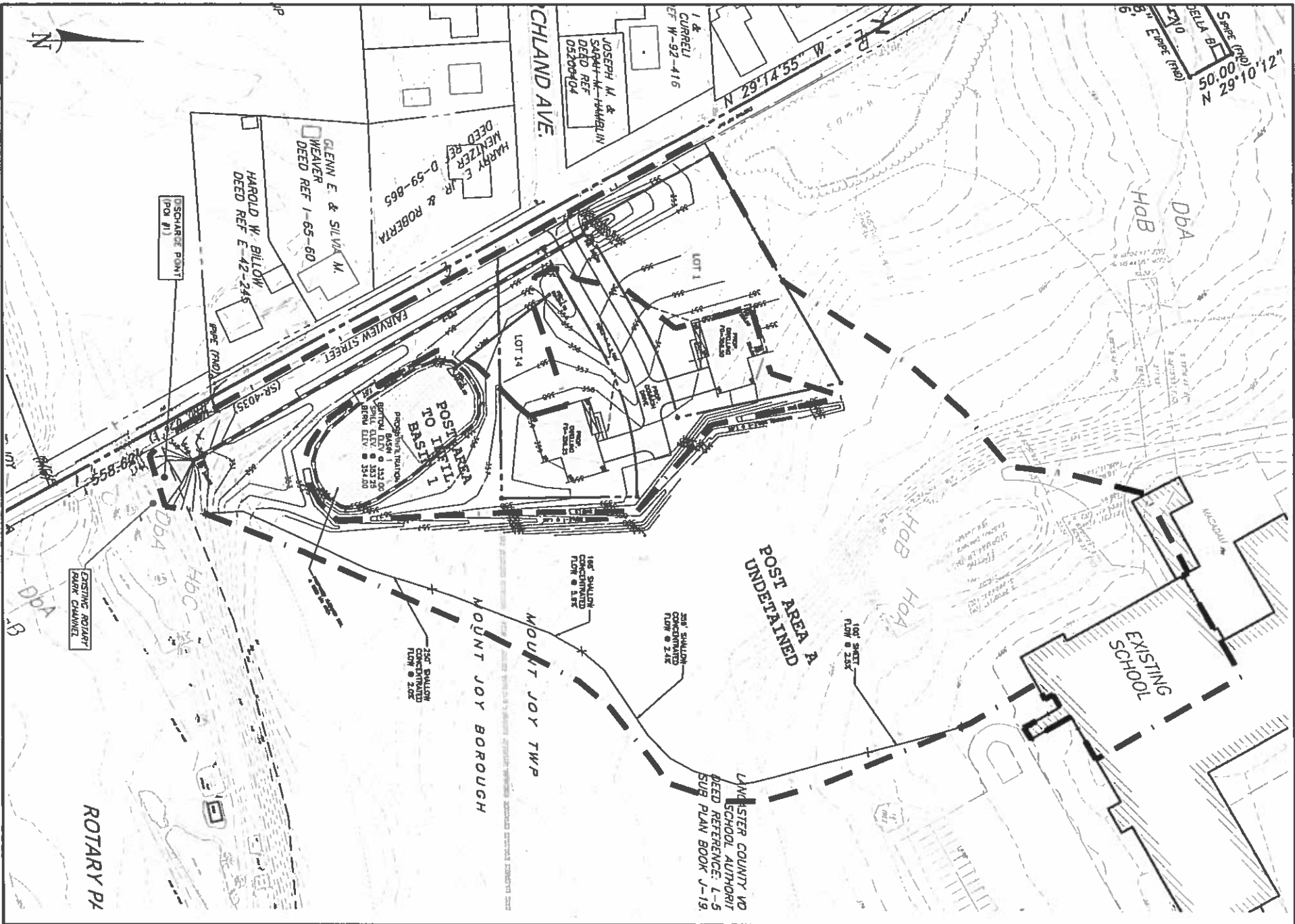
FIGURE 9.3
Riprap Apron Design, Minimum Tailwater Condition (HW-1 to EW-1)



* For discharge velocities exceeding Maximum Allowable for Riprap indicated, increase d_{50} stone size and/or provide velocity reduction device.

Adapted from USDA - NRCS

$D_o = \frac{36}{q}$
 $3D_o = \frac{57.66}{q}$
 $Q_{max} = \frac{R-5}{q}$
 $D_{50} = \frac{q}{q}$
 $RipRap = \frac{27}{q}$
 $Placement = \frac{20}{q}$
 $Thickness = \frac{20}{q}$
 $L_a = \frac{29}{q}$
 $W = \frac{29}{q}$



EROSION AND SEDIMENT CONTROL PLAN OVERVIEW AND DRAINAGE AREA PLAN FOR LANCASTER COUNTY CAREER & TECHNOLOGY CENTER MOUNT JOY CAMPUS MOUNT JOY TOWNSHIP & MOUNT JOY BOROUGH LANCASTER COUNTY, PENNSYLVANIA		PROJECT NO. 4343-21 DATE July 2, 2021 DRAWN BY GRU/DEH CHECKED BY TES/BAC SCALE 1"=60' 0 60 90 120 SCALE IN FEET		dc gohn Associates, Inc. Surveyors - Engineers Landscape Architects 32 Mount Joy Street Po Box 128 Mount Joy, PA 17552 Ph: (717) 613-5308 www.dcgohn.com		OWNER NAME: LANCASTER COUNTY VO-TECH SCHOOL AUTHORITY ADDRESS: 1730 HANS HERR DRIVE WILLOW STREET, PA 17584 TELEPHONE: 717-653-3001 DEED REFERENCE L-570345 LANC. CO. TAX ACCT: 461-96483-0-0000		<table><thead><tr><th>REVISIONS</th><th>DATE</th></tr></thead><tbody><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></tbody></table>		REVISIONS	DATE										
REVISIONS	DATE																				



55 East Main Street : Mount Joy, PA 17552 : 717.653.4227
mainstreetmountjoy.com : info@mainstreetmountjoy.com

Main Street Mount Joy is requesting street closures for 2 events.

Event # 1 – Downtown Trick or Treat (4th Friday in October)

- Event Date:** OCTOBER 22, 2021
- Requested Street Closure Time:** 4:30 pm to 8:30 pm (event runs from 5:00 – 8:00)
- Requested Closure Area:** Main Street from ^{NEW HAWK} Market to the intersection where the town clock is located. Delta Street from Henry Alley to Main Street. Map below. Closure request in yellow.

MSMJ can assist with setting up road barriers and provide at least 1 person to help with traffic. This street closure is a new one for MSMJ, but needed for the growth of this 4th Friday event and the safety of the children – allowing for a safe area to cross the road.





55 East Main Street : Mount Joy, PA 17552 : 717.653.4227
mainstreetmountjoy.com : info@mainstreetmountjoy.com

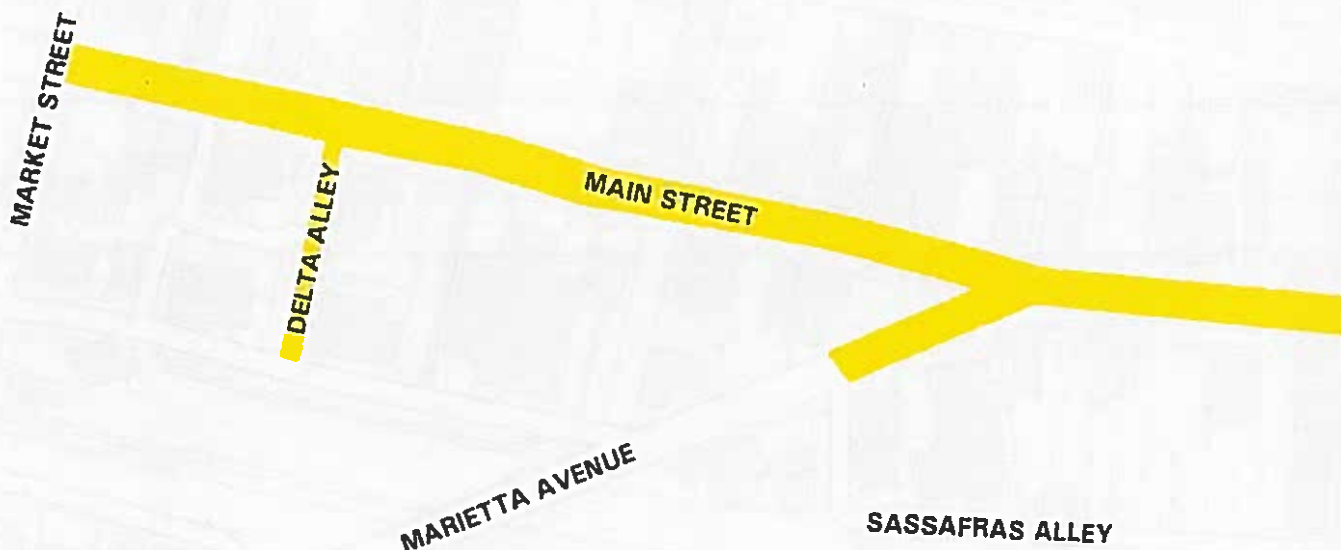
Event # 2 – WINTERFEST

Event Date: DECEMBER 04, 2021

Requested Street Closure Time: 1:00 pm to 9:00 pm (event runs 4:00 – 7:00 + set up and tear down time)

Requested Closure Area: Main Street from Market to Barbara Street. Delta Street from Henry Alley to Main Street. Marietta Avenue from Main to Sassafras Alley. Map below. Closure request in yellow.

This is a regular road closure event for MSMJ. Tree lighting will take place at 7pm. Entertainment will take place near Delta Street. Requesting use of electric in the overhang areas next to the Police station. MSMJ will have vendors at this event and direct people down Delta Street around 1:30 for set up and will have someone stationed there to allow entry / exit for vendors.



PennState Health Life Lion LLC

Ground Ambulance Service Agreement – Council /Mayor Concerns

1. Language suggested by Borough Solicitor to address concerns expressed by Council/Mayor for lack of ambulance response.
 - a. Not less than one Ambulance shall be stationed at 820 Church Street, Mount Joy Borough. If Provider ceases to station at least one Ambulance at 820 Church Street and fails to resume stationing not less than one Ambulance at 820 Church Street within one month after written notice from Municipality to resume stationing not less than one Ambulance at 820 Church Street, Provider shall convey 820 Church Street to Municipality. This requirement to station not less than one Ambulance at 820 Church Street and the requirement to convey 820 Church Street to the Municipality if Provider does not do so shall survive termination of this Agreement.
2. Address PSH Life Lion LLC's participation in Mount Joy Borough and Main Street Mount Joy sponsored events.
3. From Councilor Eichler
 - a. Language should be included in the agreement with PSHLL that the Borough owns the land and any improvements upon it and has the unalienable right to vacate the PSHLL agreement with 30 days' notice. Does Borough Ordinance require change for this to occur? I'm not a legal expert, but I read Josele's letter and am somewhat uncertain. Bottom line, I'd like to protect this borough land and add language that any and all improvements upon said land is that of the borough. I'm afraid If PSHLL changes its tune and uses the land & building for "administrative purposes", but this still meets the requirement of "EMS use" that they, PSHLL can't be removed/terminated from the property.

Mount Joy Borough Park Rules and Regulations

These recreation areas are meant for the enjoyment of the general public. Please respect the rights of others to use them as such. Violations of any of the provisions set forth may result in prosecution under the law.

1. **Hours:** All parks shall be open to the public from dawn to dusk unless otherwise posted, or permission is granted by the Mount Joy Borough Council. Certain areas may be restricted from use.
2. **Vehicles:** Speed – 15 m.p.h. maximum
 Parking – designated areas only.
 Repairs – In emergencies only.
 Washing, Waxing, etc. – Prohibited
 Operation – on roadways or specially designated areas only
 Bicycles – must be kept out of marked areas.
3. **Intoxicating Beverages:** Possession or use of alcoholic or malt beverages in the parks is prohibited. Persons under the influence of intoxicating beverages shall not be permitted in the parks.
4. **Animals:** No animals shall be brought into the parks except domestic animals on a leash not more than four feet in length. Any person bringing an animal into a park shall clean up after such animal.
5. **Gambling:** No person shall engage in any kind of gambling at which money or other valuable things may or shall be played for, staked, or betted upon., unless otherwise specified by the Mount Joy Borough Council.
6. **Fires:** No one is permitted to build a fire except in those areas designed for that purpose.
7. **Littering:** No one is permitted to discard any form of waste material, paper, or rubbish, except in those containers supplied for that purpose.
8. **Injuring or Destroying Property:** No person shall injure, deface, remove, cut, or damage any of the trees, plants, turf, buildings, structures, or fixtures therein, or any other property of the Borough within a park.
9. **Park Materials:** No person shall gather or remove any wood, turf, soil, rock sand, gravel, wildlife, or other materials stored at a park ~~without written permission of the Borough.~~
10. **Firearms:** No person shall discharge within any Borough Park or Borough property any firearms, as that term is defined by 6120(b) of the Pennsylvania Uniform Firearms Act, except for the justifiable use of force as authorized by Chapter 5 of the Pennsylvania Crimes Code. No person shall use or possess within any Borough Park or Borough property any bow and arrow, slingshot,

air rifle or any other device (other than firearms as defined above) capable of throwing any projectile of any sort, including the hand throwing of rocks or stones intended to be used as weapons.

11. Profane Language: No person shall use profane language within a park, or conduct themselves in any lewd, immoral, or commonly objectionable manner within a park, or conduct himself/~~herself~~ to annoy any other person using a park for recreational purposes.
- ~~12. Concessions: No person shall set up any booth, table or stand, mobile or otherwise, for the sale of any article whatsoever, within the limits of a park, without written permission from the Mount Joy Borough Council.~~
13. Athletic Activities: The playing of athletic games and athletic activities shall be confined to areas designated therefore, and no such activities shall be carried on in any other areas.
- ~~14. Scaling of Trees: No person shall climb or scale any trees in Borough parks without written permission of the Borough.~~
- ~~15. Fireworks: No person shall light, or discharge any fireworks, or sparklers of any kind within any Borough Park or Borough property without written permission of the Borough.~~
16. Hunting: No person shall engage in any hunting of any kind within a Borough Park
- ~~17. Fishing is permitted as per Title 30, PA Fish & Boat Code following the licensing requirements depicted by the PA Fish and Boat Commission. Edit per D. Eichler~~
- ~~18. Certain activities in Borough parks will be allowed by expressed written permission of the Mount Joy Borough Council~~

FOR INFORMATION CALL THE MOUNT JOY BOROUGH OFFICE AT 717-653-2300 OR FOR EMERGENCY CALL 911 OR 717-653-1650

Borough of Mount Joy

Lancaster County, Pennsylvania

Resolution No. 9-21

Be it **RESOLVED**, by the authority of the **Borough Council** of the **Borough of Mount Joy, Lancaster County, Pennsylvania**, and it is hereby resolved by the authority of the same, that the **Council President** of said Political Subdivision be authorized and directed to sign the attached 902 Recycling Grant Funding Application on its behalf

I, Mark G. Pugliese I qualified Borough Secretary of the Borough of Mount Joy, Lancaster County, PA hereby certify that the forgoing is a true and correct copy of a Resolution duly adopted by a majority vote of the Mount Joy Borough Council at a regular meeting held August 2nd, 2021 and said Resolution has been recorded in the Minutes of the Borough of Mount Joy and remains in effect as of this date.

IN WITNESS THEREOF, I affix my hand and attach the seal of the **Borough of Mount Joy, PA**, this 2nd day of August 2021.

ATTEST:

Borough of Mount Joy

Attest: _____
(Assistant) Borough Secretary

Council (Vice) President

(Borough Seal)

Borough of Mount Joy

Lancaster County, Pennsylvania

Resolution No. 10-21

A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF MOUNT JOY, LANCASTER COUNTY, PENNSYLVANIA, AUTHORIZING THE SALE OF VARIOUS EQUIPMENT USING THE MUNICIBID ONLINE MUNICIPAL AUCTION SERVICE.

WHEREAS, the Borough of Mount Joy has various excess equipment; and

WHEREAS, the Borough of Mount Joy desires to sell the excess equipment listed below using the Municibid Online Municipal Auction Service;

NOWE THEREFORE BE IT RESOLVED that the Borough Council of the Borough of Mount Joy hereby authorizes the sale of the following excess equipment using the Municibid Online Auction Service

One (1) FORD Model 906 post hole digger w/12" and 18" augers

One (1) ODB Leaf collector- vacuum type, with leaf box

One (1) TRAC VAC Model 1080

DULY ADOPTED THIS 2ND DAY OF August 2021 by Borough Council of the Borough of Mount joy, Lancaster County, Pennsylvania, in lawful session duly assembled.

ATTEST:

Borough of Mount Joy

Attest: _____
(Assistant) Borough Secretary

Council (Vice) President

(Borough Seal)

August 2021



Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Council 7 PM	3 Authority 4 PM	4	5	6	7
8	9 Public Works 6:30 PM	10	11 Plan. Comm. 7 PM	12	13	14
15	16	17 WOODY WASTE PICK-UP Authority 4 PM	18	19	20	21
22	23 Civil Service Com 5:30 (as needed) Public Safety 6:30 PM	24	25 ZHB 7 PM	26 Admin / Finance 6:30 PM	27	28
29	30	31 WOODY WASTE PICK-UP				