Consulting Engineers
13 Dove Court, Croton-on-Hudson, New York 10520
Tel: (914) 271-4762 Fax: (914) 271-2820

www.rgmpepc.com

To: Adam Kaufman, AICP

Director of Planning Department

Town of North Castle, NY

From: 32 Orchard Drive – Preliminary Subdivision

Date: August 7, 2023



We are re-submitting the subdivision plan and request that these plans replace any earlier submittals. The subdivision now includes four (4) new lots for a total of five (5) lots, in conformance to the zoning.

It is possible that Lot 3 may require a variance for frontage, however, if that is the case, we have also submitted a variation of the Subdivision Plan that takes frontage from the cul-de-sac.

The preliminary computations of Gross Land Coverage and Gross Floor Area are contained on the Plans. The exhibits also provide information on conformance to the required contiguous area and steep slopes.

We are also submitting a Preliminary Stormwater Plan that describes the reduction in peak flows using a proposed stormwater basin.

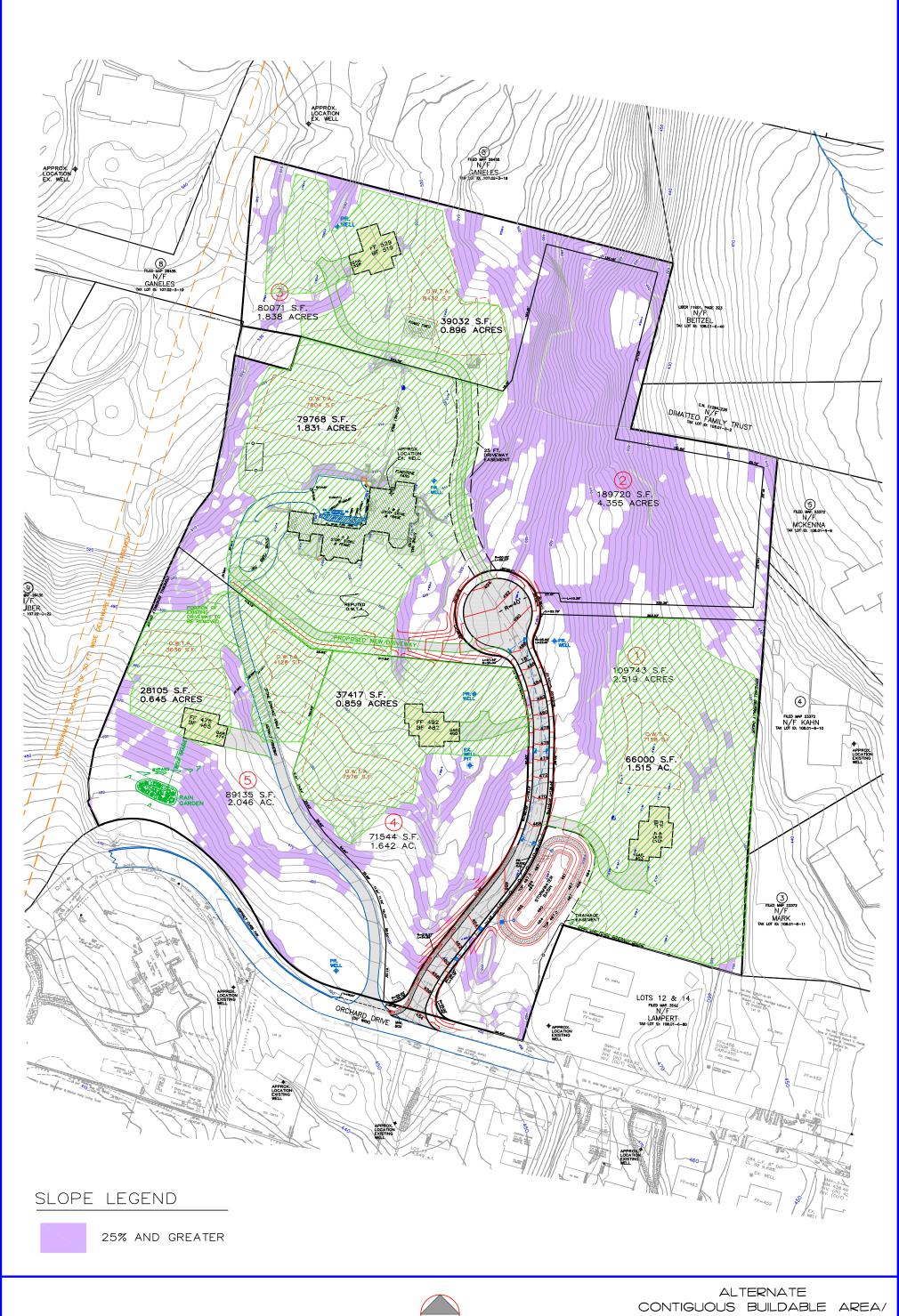
The subdivision plans have been designed to minimize disturbance by using existing paths and drives, and are based on the private road specifications as outlined in the Town Code.

We would appreciate your including this project for the agenda of the September 11 meeting of the Planning Board where we would provide a full description of the project.

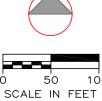
Submitted by:

Ralph G. Mastromonaco

Cc: Wael Alesawy

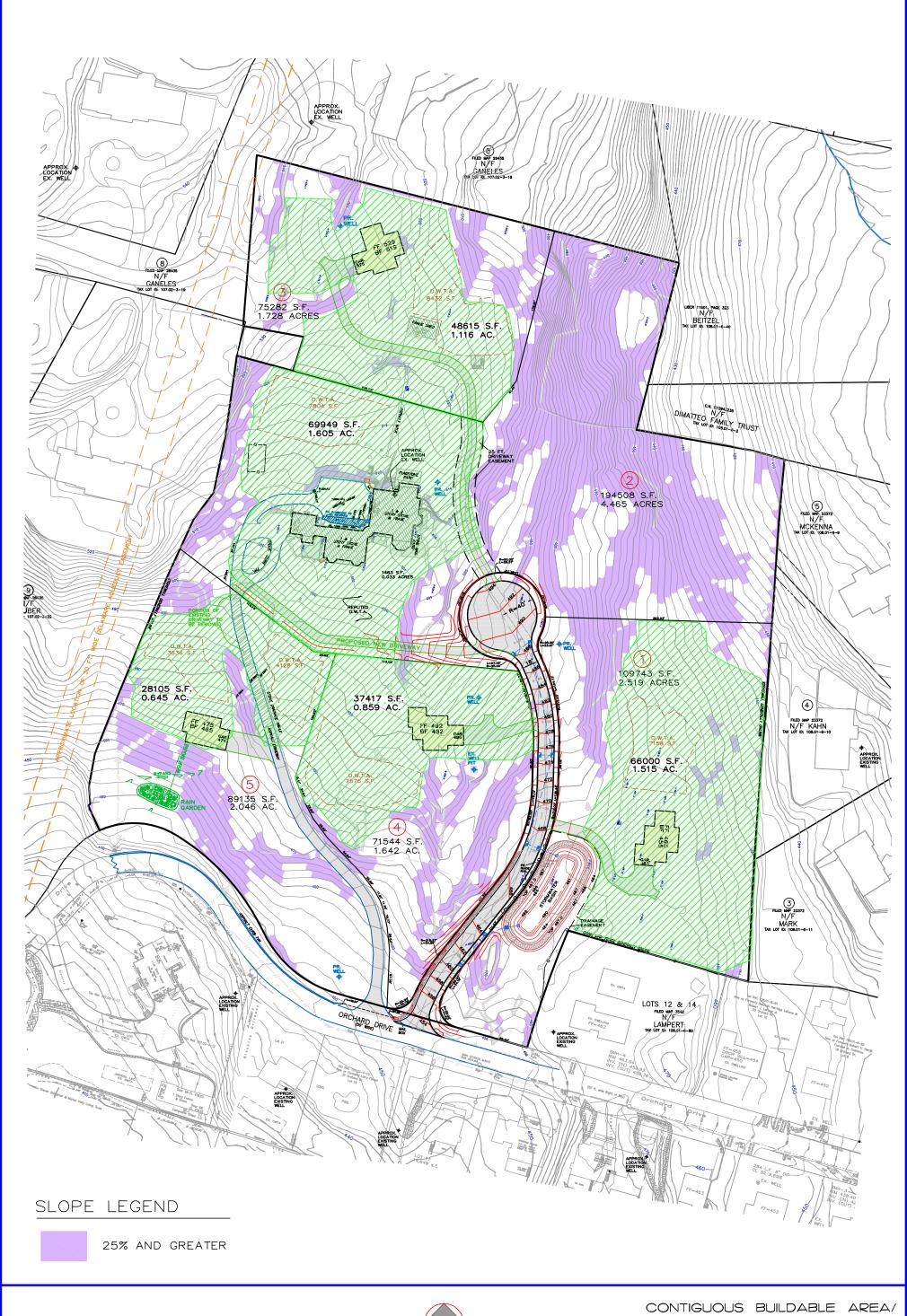


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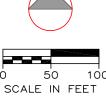


ALTERNATE CONTIGUOUS BUILDABLE AREA SLOPE MAP PROPOSED SUBDIVISION AT

32 ORCHARD DRIVE TOWN OF NORTH CASTLE WESTCHESTER COUNTY, NY AUGUST 7, 2023

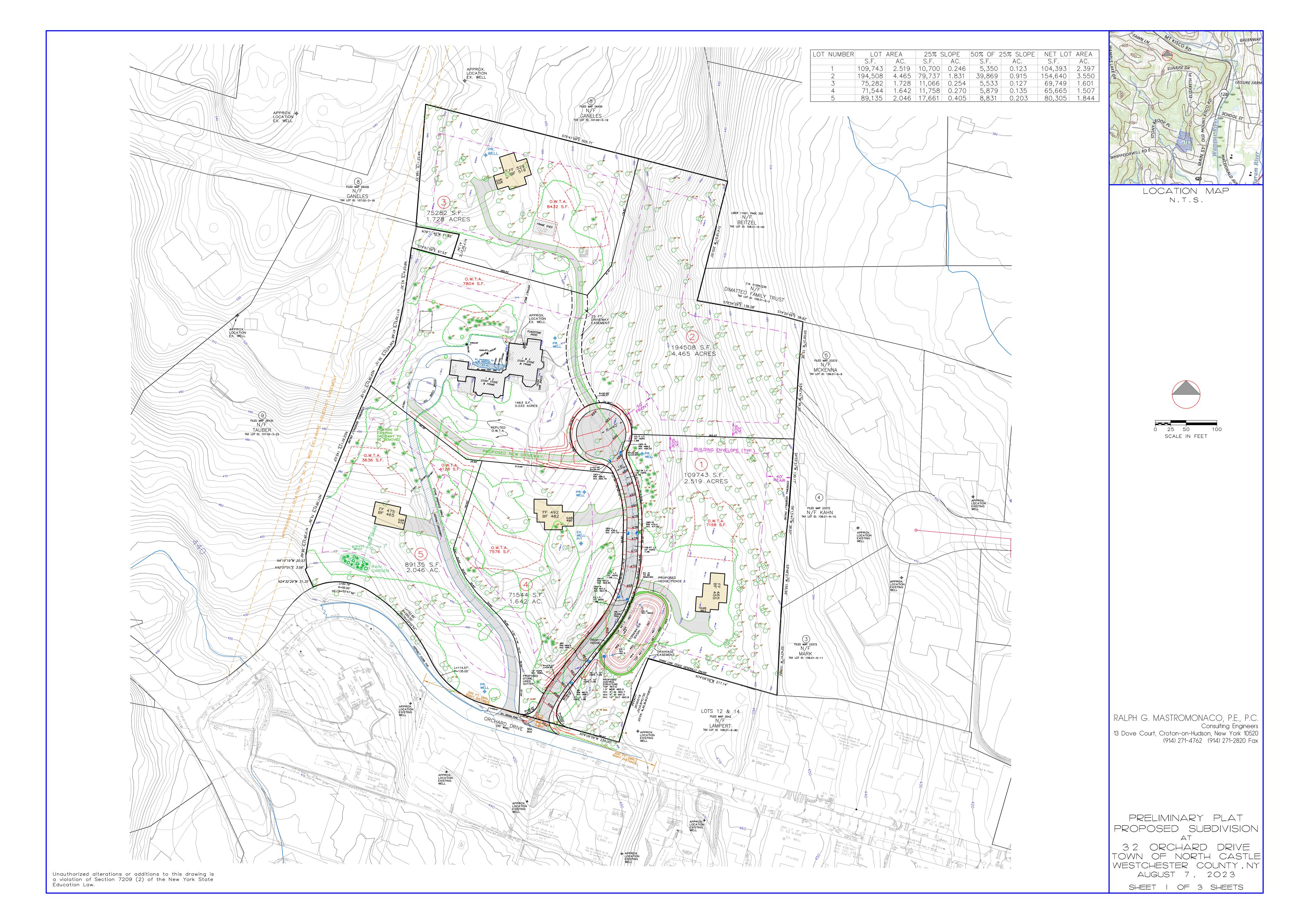


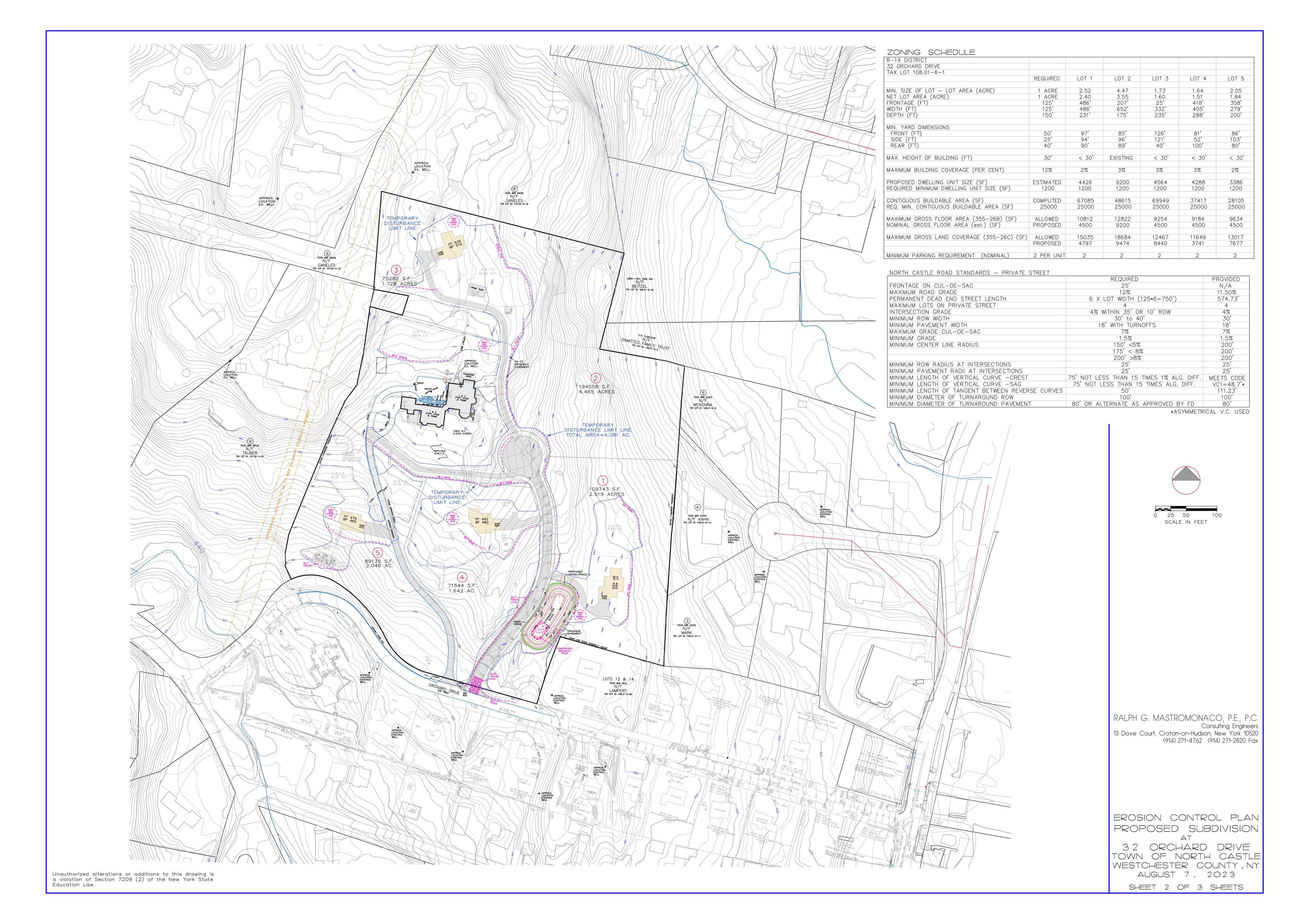
RALPH G. MASTROMONACO, P.E., P.C. Consulting Engineers 13 Dove Court, Croton-on-Hudson, New York 10520 (914) 271-4762 (914) 271-2820 Fax

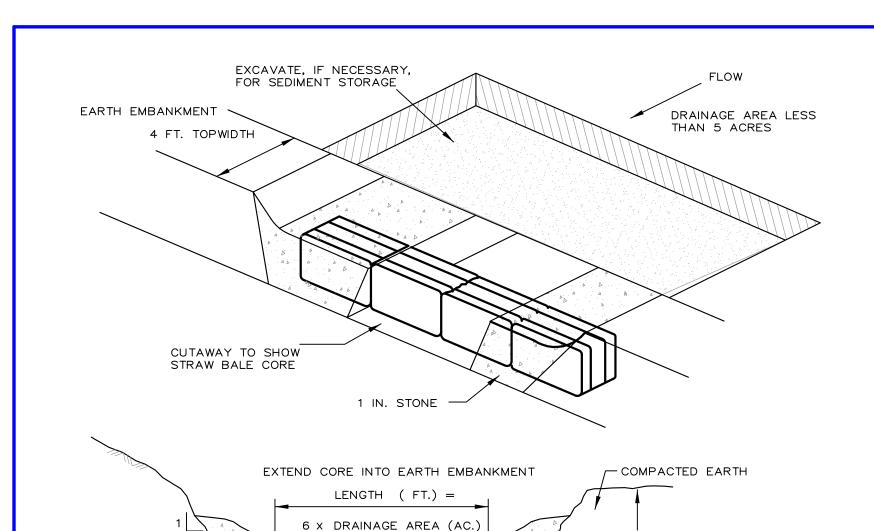


CONTIGUOUS BUILDABLE AREA/ SLOPE MAP PROPOSED SUBDIVISION AT

32 ORCHARD DRIVE TOWN OF NORTH CASTLE WESTCHESTER COUNTY, NY AUGUST 7, 2023







ELEVATION TO BE INSTALLED PRIOR TO GRADING OR FILLING IN THE DRAINAGE AREA THEY ARE TO PROTECT. TRAPS THAT ARE TO FUNCTION DURING BUILDING CONSTRUCTION MUST NOT BE LOCATED WITHIN 20 FEET OF A PROPOSED BUILDING FOUNDATION. WHILE

TRAPS SHOULD BE SITED TO MAXIMIZE STORAGE BENEFIT, THEY SHOULD NOT BE

LOCATED WETLAND OR WETLAND BUFFER AREAS, OR IN EXISTING WATERCOURSES.

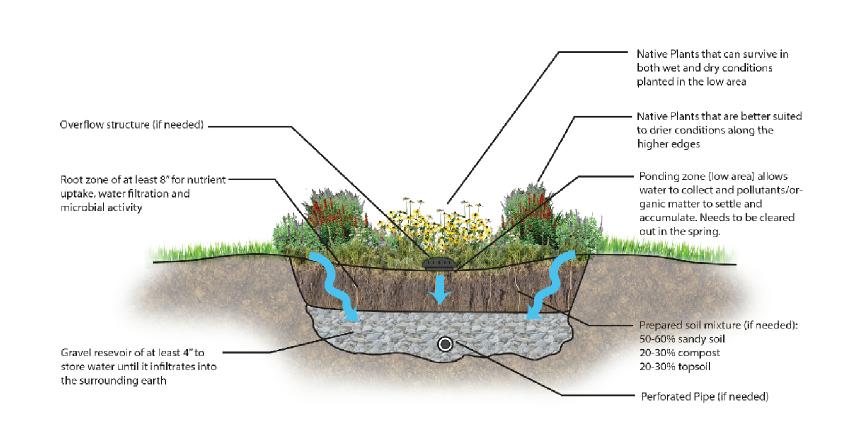
INSTALLATION NOTES

NOT TO EXCEED 5 FT.

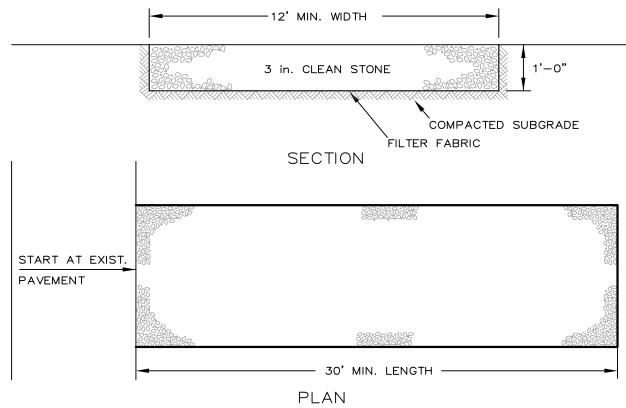
- 1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED AS WELL. 2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER SIZED STONES, ROCKS, ORGANIC MATERIAL AND OTHER QUESTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY
- 3. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- 4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.

- 5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
- 6. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- 7. ALL CUT AND FILL SLOPES SHALL BE 1 : 2 OR FLATTER.
- STONE OUTLET SEDIMENT TRAP



RAIN GARDEN N.T.S.

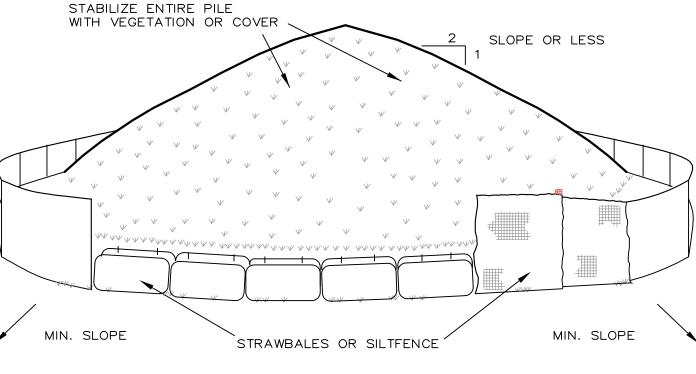


TO BE PROVIDED AT ALL POINTS OF EQUIPMENT INGRESS OR EGRESS ONTO PUBLIC RIGHTS-OF-WAY. INSTALLATION NOTES

- STONE SIZE USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 30 FEET
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES. 4. WIDTH - 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING

OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY

- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD
- CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED. 7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH
- WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER ANTI-TRACK PAD N.T.S.



TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED DURATION OF USE.

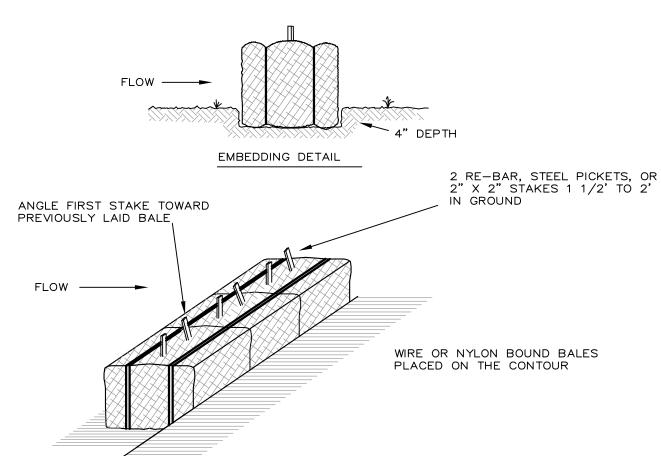
INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.

3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED

WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION

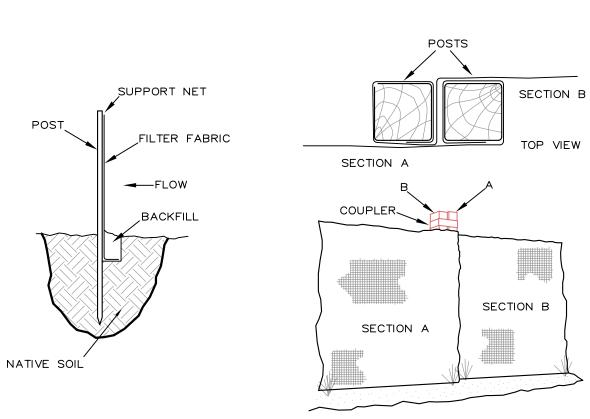
OR COVERED. TEMPORARY SOIL STOCKPILING



TO BE USED TO CONTROL SEDIMENT. THEY CAN BE EFFECTIVE IN PROTECTING SENSITIVE DOWNSLOPE AREAS SUCH AS STREAMS, WETLANDS, AND ADJACENT PROPERTIES THAT WOULD BE DAMAGED BY SEDIMENTS FROM UPLAND SITE DISTURBANCES. STRAWBALE SEDIMENT BARRIERS SHOULD BE USED IN CONJUNCTION WITH EROSION CONTROL MEASURES UNLESS THE SITE OR DISTURBED AREA IS VERY

INSTALLATION NOTES

- 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4". 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE—BAR
- DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER. 4. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. HAYBALE SEDIMENT BARRIERS



TOE-IN METHOD JOINING SECTIONS OF FENCING TO BE INSTALLED IMMEDIATELY BELOW DISTURBED AREAS THAT ARE SUSCEPTIBLE TO SHEET OR

RILL EROSION; AND WHERE SENSITIVE WATER BODIES, SUCH AS DRINKING WATER SUPPLIES OR

INSTALLATION NOTES

WETLANDS, ARE LOCATED DOWNSLOPE OF AN AREA TO BE DISTURBED.

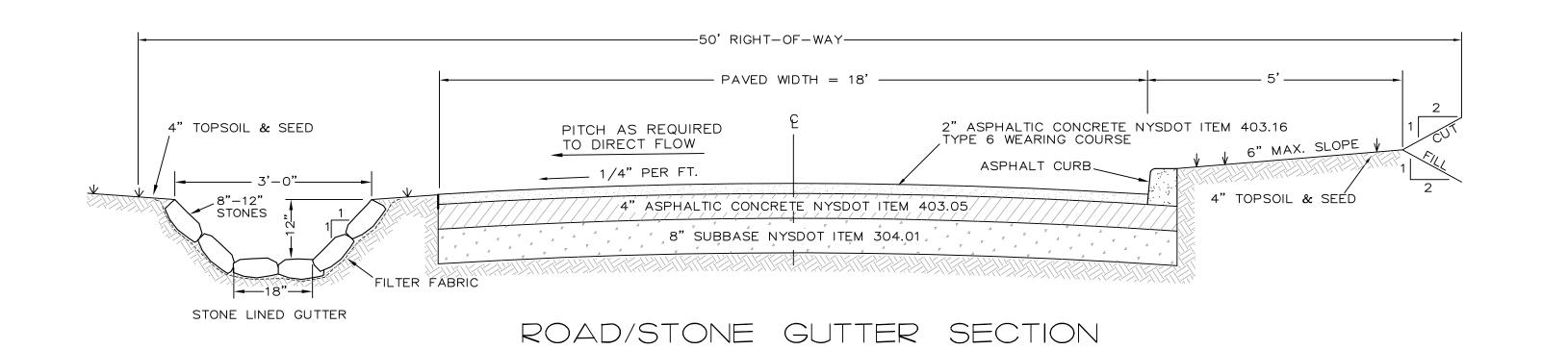
- 1. EXCAVATE A 4 INCH X 4 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
- 2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW). 3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
- 4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL.

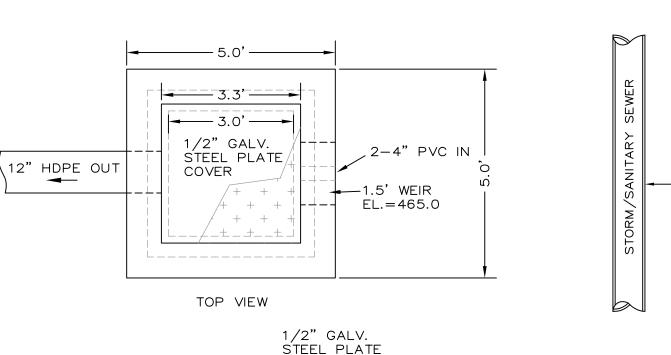
 STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.

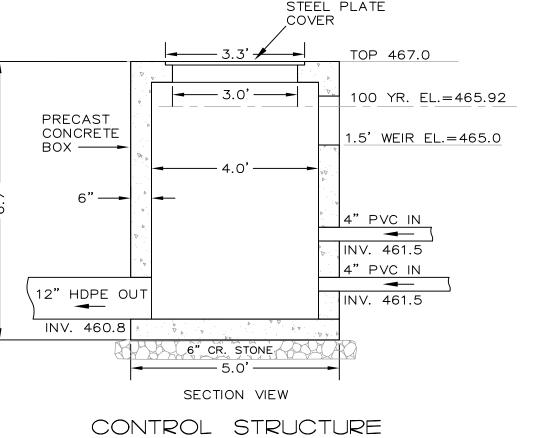
5. JOIN SECTIONS AS SHOWN ABOVE

510 ——— T4=80.0' — VC4=75.0' → 500 T2=22.4'· VC3=150.0' 490 T1=17.9' — ── VC2=130.0' ─ 480 PROPOSED GRADE 470 EX. GRADE_ 1 + 005+00 ROAD PROFILE (PRIVATE ROAD)

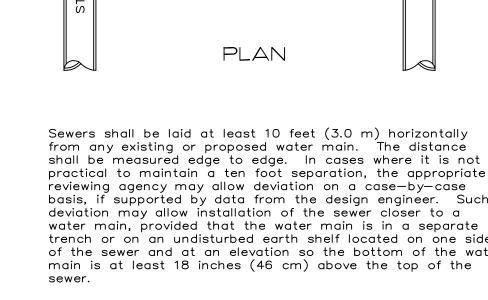
SCALE: HOR. 1"=40'





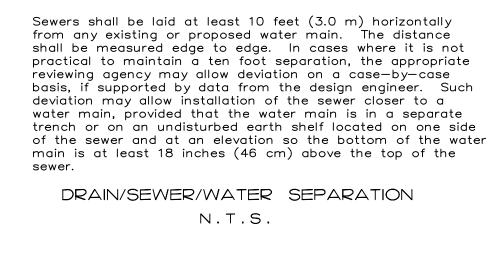


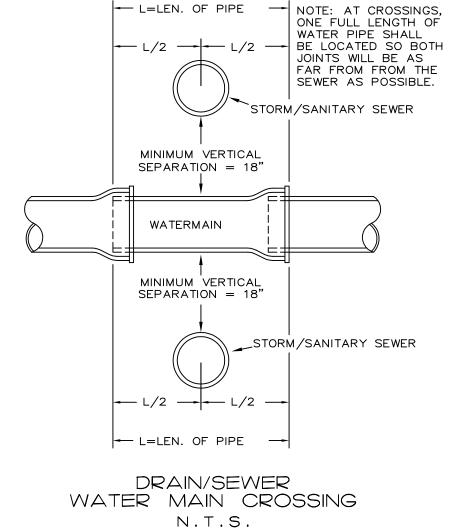
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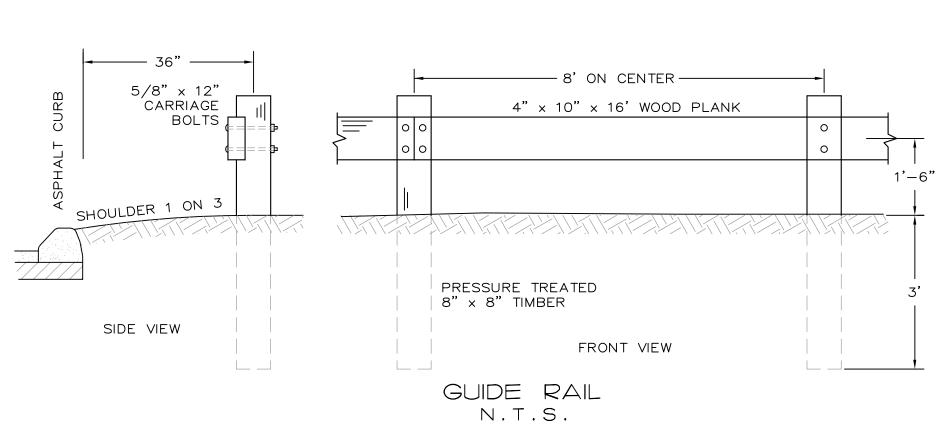


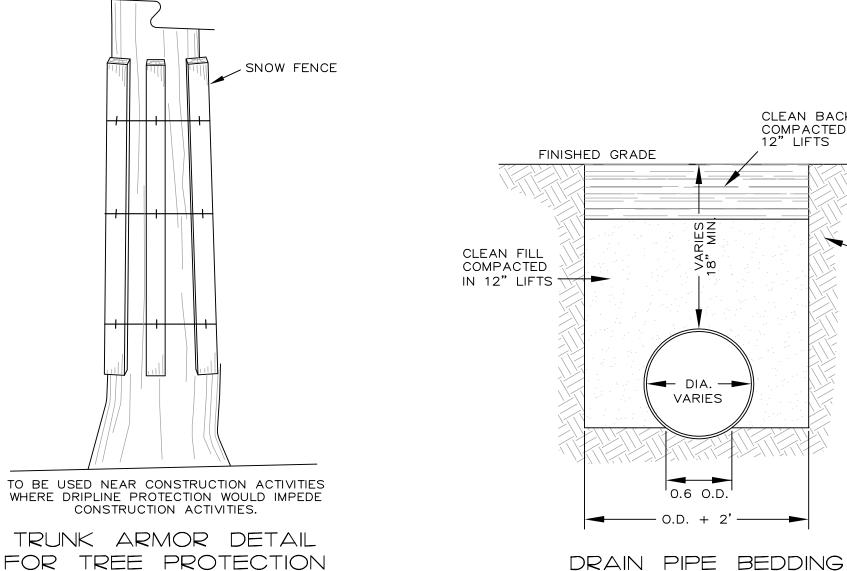
* 10 FT. MIN.

SEPARATION

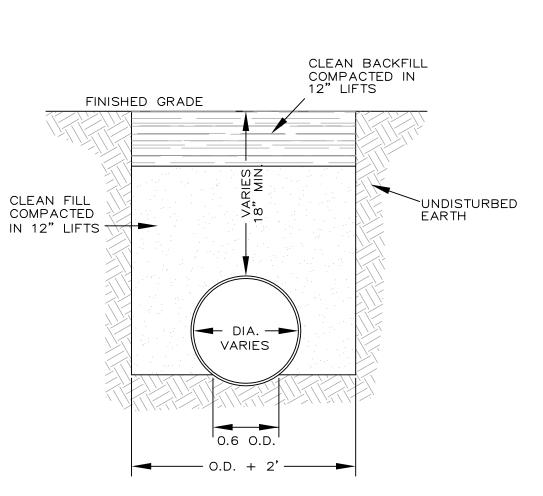




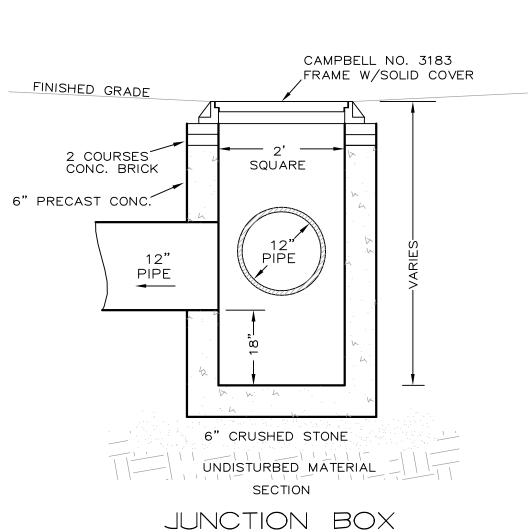




N.T.S.



N.T.S.



N.T.S.

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CONSTRUCTION NOTES:

BE REQUIRED AS DIRECTED BY THE TOWN.

LANDS, SHALL BE RESTORED TO NEW CONDITIONS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL

EROSION AND SEDIMENT CONTROL NOTES:

EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION

3. PRIOR TO ANY EXCAVATION, SILT FENCE SHALL BE

INSTALLED AT THE APPROPRIATE LOCATIONS NOTED ON

AS DIRECTED BY THE OWNER'S REPRESENTATIVE IN THE

MANUFACTURER, ADDITIONAL SILT FENCE MAY BE PLACED

4. ALL FINISHED SLOPES AND ALL ROUGH CUT SLOPES TO

TOPSOIL, SEED WITH A MIXTURE OF PERENNIAL RYE GRASS.

ANNUAL RYE GRASS AND WINTER RYE AND MULCH WITH 6"

5. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED,

6. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED. IN

SEEDED, MULCHED AND STABILIZED WITH STAKED JUTE

ADDITION TO ALL SPECIFIED AND LOCATED EROSION

8. ALL CATCH BASINS ARE TO BE PROTECTED WITH HAYBALE FILTERS THROUGHOUT THE CONSTRUCTION PERIOD

AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY

CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL

STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE

. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES, IN

DRAINAGE SWALES OR IN WETLAND AREAS. SURROUND ALL

STOCKPILE AREAS WITH SILT SCREEN AND SEED THEM WITH

9. HAYBALES SHALL BE USED AT THE TOPS AND TOES OF

UNCONCENTRATED FLOWS TO COLLECT SILT. HAYBALES AND

SILT SCREEN ON PLANS MAY BE AUGMENTED IN THE FIELD

TEMPORARILY STOCKPILED ON HIGH SIDE OF EXCAVATION SO

11. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND A

LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED

12. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE

THAT DOES NOT RESULT IN ADDITIONAL EROSION OR

SERVE AS ANTI-TRACKING PAD. GRAVEL BED TO BE 2

DIAMETER CRUSHED STONE 6" DEEP, OVER GEOTEXTILE

14. BLASTING AREAS — ROCK, RIPPING WILL BE USED WHEREVER POSSIBLE. BLASTING WILL OCCUR IN

ACCORDANCE WITH REGULATIONS AND STANDARDS

PRESCRIBED BY THE TOWN OF NORTH CASTLE.

BARRIER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER

13. INSTALL GRAVEL BED AT CONSTRUCTION ENTRANCE TO

SUPPORT FABRIC. ANTI-TRACKING PADS TO MEASURE 30'

SLOPES, AS NECESSARY, TO COLLECT SILT AND DIVERT

FLOWS. SILT SCREENS WILL BE USED IN AREAS OF

10. UTILITY LINE EXCAVATED MATERIAL SHALL BE

RUNOFF IS DIRECTED AWAY FROM TRENCH, AFTER BACK-FILLING, AREA IS TO BE TOPSOILED, SEEDED, AND

REPAIRS SHALL BE MADE IMMEDIATELY.

(MIN.) LENGTH BY THE ROADWAY WIDTH.

FIELD AND INSTALLED AS PER THE INSTRUCTIONS OF

BY THE OWNER'S REPRESENTATIVE IN THE FIELD. SILT FENCING SHALL BE MAINTAINED IN OPERABLE CONDITION AND SHALL NOT BE REMOVED UNTIL DISTURBED AREAS ARE

REMAIN OPEN FOR EXTENDED PERIODS IMMEDIATELY

EROSION CONTROL PLAN. SILT FENCING SHALL BE INSTALLED

(FORMERLY CODE 53)

THOROUGHLY STABILIZED.

THE ANNUAL RYE GRASS.

STABILIZED.

AS NECESSARY.

NETTING, UNLESS OTHERWISE NOTED.

1. THE CONTRACTOR SHALL LOCATE AND VERIFY IN THE FIELD ALL UTILITIES — GAS, WATER, ELECTRICAL BEFORE THE START OF CONSTRUCTION. CONTRACTOR SHALL CALL CODE 753

. EROSION CONTROL MEASURES, INCLUDING SILT FENCE, SHALL

. ALL PROPERTY DISTURBED IN THE R.O.W. OR ON PRIVATE

APPLICATIONS AND PERMITS REQUIRED FOR CONSTRUCTION.

5. UNDERGROUND GAS AND ELECTRIC SHALL BE AS REQUIRED BY THE TOWN AND LOCAL POWER COMPANY.

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND MAINTAINED IN

2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND PROCEDURES SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF NORTH CASTLE.

DETAILS/NOTES/ ROAD PROFILE ΔT

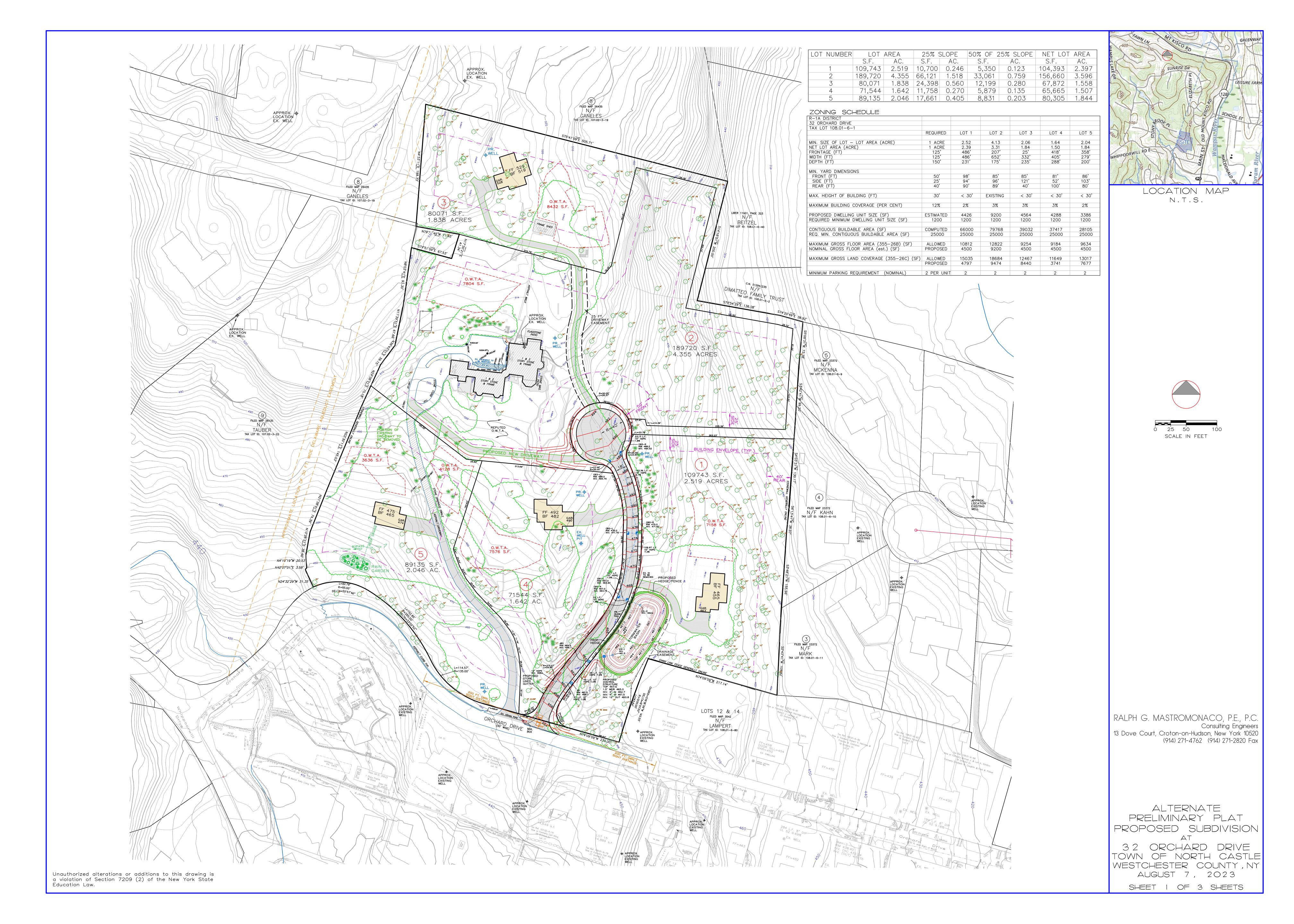
ORCHARD DRIVE AUGUST 7, 2023

SHEET 3 OF 3 SHEETS

Unauthorized alterations or additions to this drawing is a violation of Section 7209 (2) of the New York State

Education Law.

RESIDENCE LOT.



RALPH G. MASTROMONACO, P.E., P.C.

Consulting Engineers

13 Dove Court, Croton-on-Hudson, New York 10520 Tel: (914) 271-4762 Fax: (914) 271-2820 Civil / Site / Environmental

www.rgmpepc.com

Project: 32 Orchard Drive – Residential Subdivision

Scope: Stormwater Pollution Prevention Plan (Preliminary)

Date: July 11, 2023

Introduction:

The 13-acre, partially developed and wooded site at 32 Orchard Drive, is proposed for development for four (4) new lots. The project must follow the stormwater rules requiring conformance to the NYS Stormwater Design Manual and NYS General Permit. In addition, the project must conform to the Town's Stormwater Management Code.

The Design Pont is at Orchard Drive and evaluates the existing flow condition as well as the impact of the proposed new houses and new impervious areas in the future. The site discharges to an existing surface roadway and, with proposed stormwater basin, there would be no additional flows to the street system.

For each storm studied the proposed stormwater control systems limits the peak flows to the current, undeveloped condition.

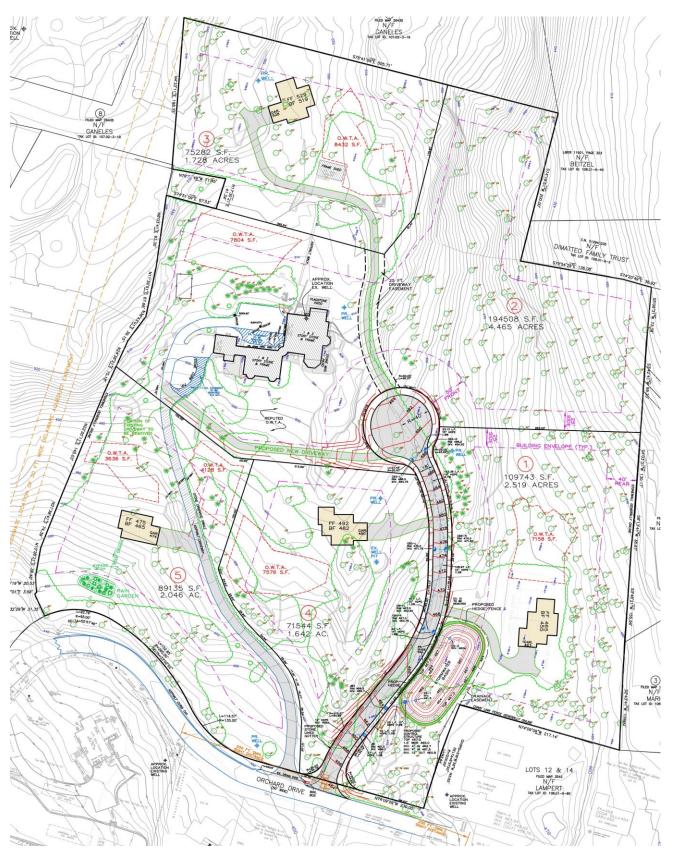
Methodology:

The overall watershed was determined from site inspections and NYS GIS topographical maps. The Runoff Curve Numbers were determined from Soil mapping of the Natural Resources Conservation Division in the web soil survey. The area of interest is principally a 'B' hydrologic grouping based on the soil mapping through the site.

The Hydrocad computer software is used to compute runoff from the watershed and routings through the Stormwater Wetland to the outlet control structure.

The purpose of this analysis is also to ensure that peak flows after development do not exceed the peak flows that occur currently for a range of storms. This report analyzes the; 90% occurring storm, 2-yr, 10-yr and 100 year storm frequencies.

Figure: Proposed Subdivision



Results of the Stormwater Analysis:

Table: NYS DEC Standards

Storm (as noted)	Existing Peak Flow (cfs)	Proposed Peak Flow (cfs)
100-yr Extreme Storm	35.08	33.97
10-yr Overbank Flood	12.52	11.52
2-yr	4.82	4.40
90% Storm	0	0

Table: Water Quality Volume Computation for Lots 1, 3, 4

ltem	Area (sq. ft.)	Imp. Area (Sq. ft.)	lmp. %	Prec. In.	Rv	WQv (cu. ft.)
New Houses	42,907	17,106	40	1.5	.41	2,193

The Stormwater Basin captures the entire WQv as there is no outflow during the 90% storm.

Table: Water Quality Volume for Lot 5– Rain Garden

Item	Area (Sq. ft.)	New Imp. Area (Sq. ft.)	lmp. %	Prec. In.	Rv	WQv (cu. ft.)
Lot 5	2000	2000	100	1.5	.95	238

The proposed Rain Garden is sized to accommodate the required Water Quality Volume.

Discussion:

For each of the watersheds draining to the east (Nos. 2, 3, 4, 5, 7, 8), the proposed realignment of the road reduces the area of each watershed such that there is a reduction in peak flow and runoff volume in those directions. Accordingly the proposed development would not impact the properties downhill.

For the design point at the base of the driveways, the total flow would be reduced for all storms up to the 100 year frequency. This is due to the large stormwater basin to be constructed on the site. Accordingly, there would be no impact due to the proposed development.

The Stormwater Basin is designed as a common system, thereby eliminating the need to provide stormwater treatment for each house. The stormwater basin would be maintained in a common maintenance easement to be filed in Land Records and would encumber each lot tributary to it.

Maintenance:

The stormwater basin can be cleaned manually after annual inspection of silt levels.

Regulatory Notes:

The project requires that a Notice of Intent be filed with NYS DEC. Upon completion of the work, a Notice of Completion will be filed.

Conclusion:

The stormwater basin will treat the runoff of the Water Quality Volume (WQv) and will conform to the NYSDEC requirements of Extreme Storm and Overbank Flood.

A separate Rain Garden would be used to treat runoff from the proposed house on Lot 5, its sizing would be complete when the actual house is proposed for a building permit.

The stormwater system will also maintain peak flows to the same level or lower than existing conditions. Further, the stormwater treatment systems are in accordance with NYS DEC and Town rules, accordingly, no stormwater impacts are anticipated from this proposed development.

Submitted by:



Ralph G. Mastromonaco

Tables: Existing and Proposed Flows

EX	PR Final	Change
4.82	4.4	(0.09)
12.52	11.52	(0.08)
35.08	33.97	(0.03)

Name	Ex. Flow	Name	Pr. Flow	Change
2EX	1.52	2P	1.09	(0.28)
2EX	4.19	2P	2.99	(0.29)
2EX	12.11	2P	8.63	(0.29)
3EX	1.1	3P	0.85	(0.23)
3EX	2.96	3P	2.37	(0.20)
3EX	8.42	3P	6.9	(0.18)
4EX	0.59	4P	0.46	(0.22)
4EX	1.6	4P	1.3	(0.19)
4EX	4.56	4P	3.8	(0.17)
5EX	0.68	5P	0.058	(0.91)
5EX	1.84	5P	1.64	(0.11)
5EX	5.23	5P	4.77	(0.09)
6EX	1.14	6P	0.77	(0.32)
6EX	2.83	6P	1.8	(0.36)
6EX	7.65	6P	4.66	(0.39)
7EX	0.45	7P	0.42	(0.07)
7EX	1.13	7P	0.95	(0.16)
7EX	3.04	7P	2.39	(0.21)
8EX	0.32	8P	0.26	(0.19)
8EX	0.87	8P	0.72	(0.17)
8EX	2.51	8P	2.09	(0.17)
9EX	0.21	9P	0.21	0.00
9EX	0.55	9P	0.55	0.00
9EX	1.57	9P	1.57	0.00

Figure: Existing Watersheds

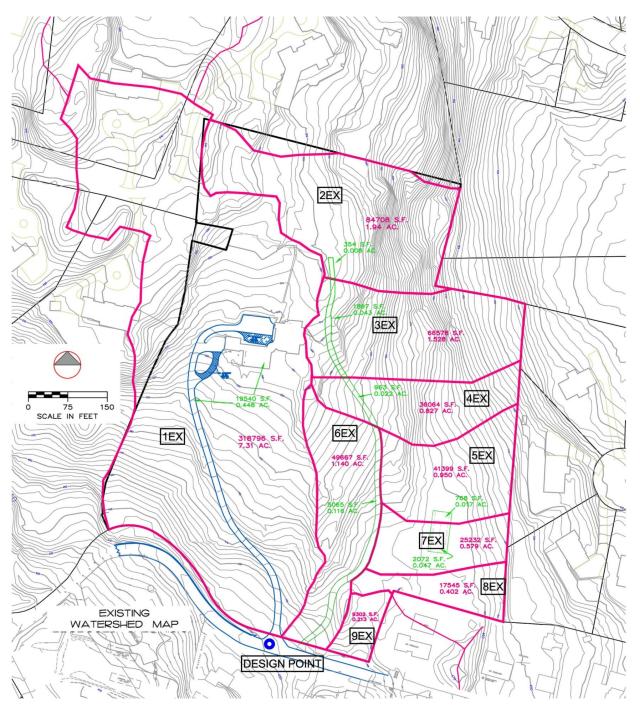


Figure: Proposed Watersheds

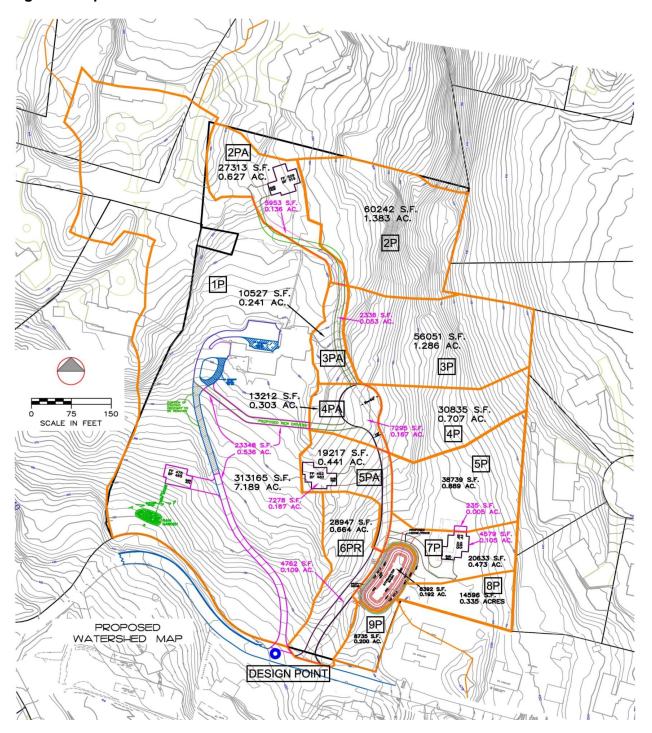
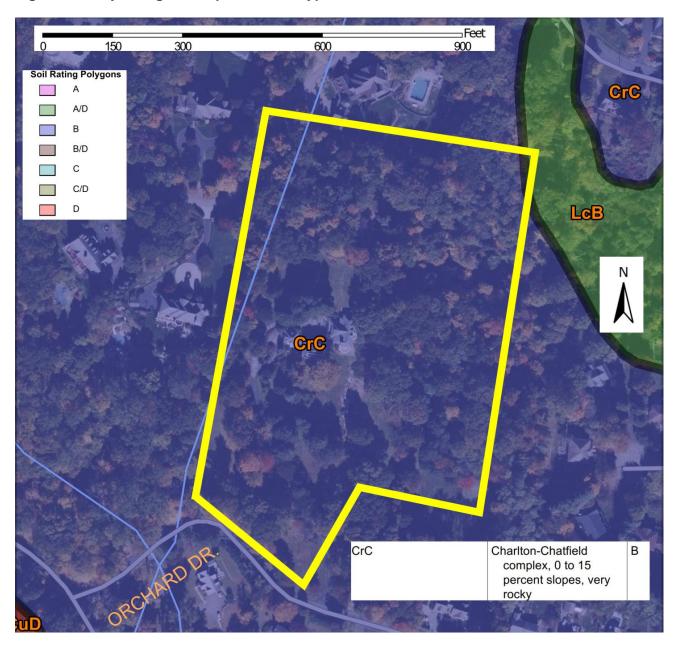


Figure: Soil Hydrologic Groups and Soil Types

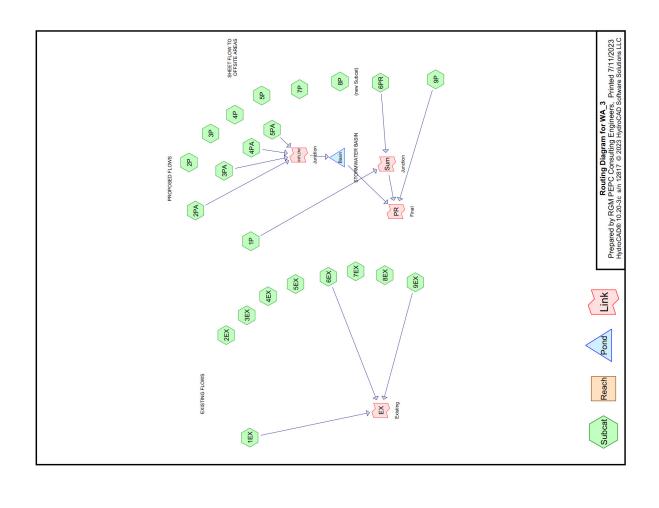


WA_3
Prepared by RGM PEPC Consulting Engineers
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Printed 7/11/2023 Page 2

Rainfall Events Listing (selected events)

AMC	2	7	7
Depth (inches)	3.43	5.13	9.17
B/B	~	-	-
Duration (hours)	24.00	24.00	24.00
Mode	Default	Default	Default
Curve			
Storm Type	Type III 24-hr	Type III 24-hr	Type III 24-hr
Event Name	2-yr	10-yr	100-yr
Event#	_	2	က



Type III 24-hr 2-yr Rainfall=3.43" Printed 7/11/2023 Prepared by RGM PEPC Consulting Engineers

	Direct Entry,					15.0
		(cfs) ((ft/sec)	(ft/ft)	(feet)	(min)
	Tc Length Slope Velocity Capacity Description	/ Capacity	Velocit	Slope	Length	Tc
		0.41% Impervious Area	% Imper	0.41	0.008	0
		99.59% Pervious Area	9% Perv	99.5	1.932	-
		erage	Weighted Average	65 Wei	1.940 6	<u>_</u>
			ervions	98 Impervious	0.008	.0
	HSG B	65 Woods/grass comb., Fair, HSG B	ds/grass	5 Woo	1.932 6	1
			cription	ا Des	Area (ac) CN Description	Area
Page 4	HydroCAD® 10.20-3c s/n 12817 © 2023 HydroCAD Software Solutions LLC	323 HydroCAE	2817 @ 2	3c s/n 12	D® 10.20-	HydroCA
0707/1 / 00111	0 0		5000	ر ا		ייייייייייייייייייייייייייייייייייייייי

Summary for Subcatchment 2P:

0.082 af, Depth> 0.71" 0.71 cfs @ 12.25 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Description	Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)	Direct Entry,
Area (ac) CN Description	1.383 65	1.383	Tc Length (min) (feet)	15.0

Summary for Subcatchment 2PA:

0.068 af, Depth> 1.31" unoff = 0.57 cfs @ 12.37 hrs, Volume= Routed to Link INFLOW : Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

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Type III 24-hr 2-yr Rainfall=3.43" Printed 7/11/2023

Summary for Subcatchment 1EX:

0.491 af, Depth> 0.81"

Inoff = 4.03 cfs @ 12.32 hrs, Volume= Routed to Link EX: Existing

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

								·
	HSG B					Slope Velocity Capacity Description		Direct Entry,
	Woods/grass comb., Fair, HSG B		age	us Area	ous Area	Capacity	(cts)	
cription	ds/grass c	Impervious	Weighted Average	93.87% Pervious Area	6.13% Impervious Area	Velocity	(ft/sec)	
l Des		3 Impe	Wei	93.8	6.13	Slope	(ft/ft)	
Area (ac) CN Description	32 65	86 81	10 67	32		Tc Length	(feet)	
Area (a	6.862	0.448	7.310	6.862	0.448	T _C	(min)	20.0
	ı	*	ı				- 1	

Summary for Subcatchment 1P:

0.482 af, Depth> 0.81" Runoff = 3.63 cfs @ 12.41 hrs, Volume= Routed to Link Sum : Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	Impervious	Weighted Average	92.54% Pervious Area	7.46% Impervious Area	Slope Velocity Canacity Description	in) (feet) (ft/ft) (ft/sec) (cfs)	Direct Entry
Des	Woo		Wei	92.5	7.46	Slone	(ft/ft)	
(ac) CN		0.536 98	7.189 67	6.653	0.536	enath	(feet)	
Area	6.	*	7.	9	0	Ļ	(min)	25.0

Summary for Subcatchment 2EX:

0.115 af, Depth> 0.71" 1.00 cfs @ 12.25 hrs, Volume= Runoff

Type III 24-hr 2-yr Rainfall=3.43" Prepared by RGM PEPC Consulting Engineers HydroCAD® 10.20-3c s/n 12817 © 2023 HydroCAD Software Solutions LLC

Printed 7/11/2023

Description Capacity (cfs) Velocity (ft/sec) Slope (ft/ft) Tc Length min) (feet) (min)

Summary for Subcatchment 4EX:

Direct Entry,

20.0

0.052 af, Depth> 0.76" 0.42 cfs @ 12.33 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

								,
	HSG B					Slope Velocity Capacity Description		Direct Entry,
	Woods/grass comb., Fair, HSG B		age	us Area	ous Area	Capacity	(SIS)	
cription	ds/grass c	Impervious	Weighted Average	97.34% Pervious Area	2.66% Impervious Area	Velocity	(INSEC)	
Des	Woo		Wei	97.3	2.66	Slope	(11/11)	
Area (ac) CN Description	0.805 65	0.022 98	127 66	0.805		To Length		
Area (8.0	» 0.C	8.0	9.0	0.0	Tc	(IIIII)	20.0
							•	

Summary for Subcatchment 4P:

0.042 af, Depth> 0.71" 0.33 cfs @ 12.33 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

				y,
	HSG B		Description	Direct Entry,
	65 Woods/grass comb., Fair, HSG B	ous Area	Velocity Capacity [(ft/sec) (cfs)	
cription	ds/grass c	100.00% Pervious Area	Velocity (ft/sec)	
Desc	Woo	100.	Slope (ft/ft)	
CN		7		
Area (ac) CN Description	0.707	0.707	Tc Length (min) (feet)	20.0
		'		'

Summary for Subcatchment 4PA:

0.045 af, Depth> 1.79" unoff = 0.48 cfs @ 12.21 hrs, Volume= Routed to Link INFLOW: Junction

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

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Type III 24-hr 2-yr Rainfall=3.43" Printed 7/11/2023 Page 5

Summary for Subcatchment 3EX:

0.097 af, Depth> 0.76" 0.77 cfs @ 12.33 hrs, Volume= II Runoff Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	98 Impervious	66 Weighted Average	97.19% Pervious Area	2.81% Impervious Area	th Slope Velocity Capacity Description	nin) (feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
S	65					ية ∃	(t)	
ea (ac)	1.485	0.043	1.528	1.485	0.043	c Lengt) (fee	0
Are		*					(min)	20.0

Summary for Subcatchment 3P:

0.076 af, Depth> 0.71" 0.59 cfs @ 12.33 hrs, Volume=

Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

	r, HSG B		Velocity Capacity Description (ffsec) (cfs)	Direct Entry,
	omb., Fai	ous Area	Capacity (cfs)	
ription	65 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Velocity (ft/sec)	
CN Description	Woo	100.0	Slope (ft/ft)	
S	65		ngth eet)	
Area (ac)	1.286	1.286	Tc Length nin) (feet)	0
Are			Tc (min)	20.0

Summary for Subcatchment 3PA:

0.032 af, Depth> 1.57" noff = 0.30 cfs @ 12.29 hrs, Volume= Routed to Link INFLOW : Junction Runoff

CN Description	75 1/4 acre lots, 38% imp, HSG B	Impervious	Weighted Average	48.37% Pervious Area	51.63% Impervious Area
CN	22	86	80		
Area (ac)	0.188	0.053	0.241	0.117	0.124
		*	l		

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Type III 24-hr 2-yr Rainfall=3.43"

Summary for Subcatchment 5PA:

0.051 af, Depth> 1.37" noff = 0.52 cfs @ 12.22 hrs, Volume= Routed to Link INFLOW: Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description 0.274 65 Woods/grass comb 0.167 98 Impervious 0.441 77 Weighted Average 0.274 62.13% Pervious A 0.167 37.87% Impervious A T. Length Slope Velocity Capper (min) (feet) (ft/ft) (ft/sec)	urea (ac) CN Description 0.274 65 Woods/grass comb., Fair, HSG B 0.167 98 Impervious 0.441 77 Weighted Average 0.274 62.13% Pervious Area 0.167 37.87% Impervious Area 1.10 1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10 1.10 (1.10 (1.10
.al 0 4 9 4 1	10) CN Description of the control of

Summary for Subcatchment 6EX:

0.081 af, Depth> 0.86" noff = 0.76 cfs @ 12.24 hrs, Volume= Routed to Link EX: Existing Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Description	65 Woods/grass comb., Fair, HSG B	Impervious	Weighted Average	89.82% Pervious Area	10.18% Impervious Area	Slope Velocity Capacity Description	(IVII) (IVSEC) (CIS) Direct Entry
Area (ac) CN Description	1.024 65	* 0.116 98 I	1.140 68	1.024	0.116	Tc Length	(leer)

Summary for Subcatchment 6PR:

0.053 af, Depth> 0.96" noff = 0.51 cfs @ 12.23 hrs, Volume= Routed to Link Sum : Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Type III 24-hr 2-yr Rainfall=3.43" ared by PGM DEDC Consulting Engineers WA_3

HydroCAD® 10.20-3c s/n 12817 ® 2023 HydroCAD Software Solutions LLC Page 7 Area (ac) CN Description * 0.136 65 WoodS/grass comb., Fair, HSG B * 0.167 98 Impervious 0.303 83 Weighted Average 0.136 44.88% Pervious Area 0.137 55.12% Impervious Area	ב	pared by r	- N	Prepared by RGM PEPC Consuming Engineers	C707/11// paililla
Area (ac) CN Description 0.136 65 Woods/grass comb., Fair, HSG B * 0.167 98 Impervious Area 0.303 83 Weighted Average 0.136 44.88% Pervious Area 0.167 55.12% Impervious Area	Hydr	roCAD® 10.	.20-3c	s/n 12817 © 2023 HydroCAD Software Solutions LLC	Page 7
Area (ac) CN Description 0.136 65 Woods/grass comb., Fair, HSG B * 0.167 98 Impervious 0.303 83 Weighted Average 0.136 44.88% Pervious Area 0.157 55.12% Impervious Area					
* 0.136 65 Woods/grass comb., Fair, HSG B * 0.167 98 Impervious 0.303 83 Weighted Average 0.136 44.88% Pervious Area 0.167 55.12% Impervious Area	٨	Area (ac)	CN	Description	
83		0.136	65	Woods/grass comb., Fair, HSG B	
83	*		86	Impervious	
		0.303	83	Weighted Average	
		0.136		44.88% Pervious Area	
		0.167		55.12% Impervious Area	

Summary for Subcatchment 5EX:

Direct Entry,

Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)

Tc Length (min) (feet)

0.060 af, Depth> 0.76" 0.48 cfs @ 12.33 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Description Woods/grass comb., Fair, HSG B Impervious Weighted Average 98.21% Pervious Area 1.79% Impervious Area 2.10% Impervious Area (fi/ft) (fi/sec) (ds) Direct Entr		65 Woods/grass comb., Fair, HSG B		•	Area	s Area	apacity Description	(cfs)	Direct Entry,
	scription	oods/grass co	pervious	eighted Avera	21% Pervious	.9% Impervior	Velocity	(ft/sec)	
	(ac) CN				933	017	Lenath	(feet)	
(ac) CN 933 65 017 98 950 66 933 017 Length (feet)	Area (0	*	0	0	0	T	(min)	20.0

Summary for Subcatchment 5P:

0.053 af, Depth> 0.71" 0.41 cfs @ 12.33 hrs, Volume= Runoff

	HSG B					Description	in) (feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
	65 Woods/grass comb., Fair, HSG B		age	us Area	ous Area	Capacity	(cfs)	
Area (ac) CN Description	ds/grass c	Impervious	Weighted Average	99.44% Pervious Area	0.56% Impervious Area	Velocity	(ft/sec)	
Desc	Woo		Weig	99.4	0.56	Slope	(ft/ft)	
CS	92	98	65			th	et)	
(ac)	0.884	.005	888	0.884	.005	Leng	(fe	
Area	0	0	0	0	0	J _C	(min)	20.0
	l	*						

Type III 24-hr 2-yr Rainfall=3.43" Printed 7/11/2023

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Summary for Subcatchment 8EX:

0.024 af, Depth> 0.71" 0.21 cfs @ 12.25 hrs, Volume= Runoff Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	th Slope Velocity Capacity Description t) (fuff) (fusec) (ds)	Direct Entry,
Area (ac)	0.402	0.402	Tc Length (min) (feet)	15.0

Summary for Subcatchment 8P: (new Subcat)

0.020 af, Depth> 0.71" 0.17 cfs @ 12.25 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description	5 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (fl/ft) (fl/sec) (cfs)	Direct Entry,
Area (ac)	0.335 65	0.335	Tc Length (min) (feet)	15.0

Summary for Subcatchment 9EX:

0.013 af, Depth> 0.71" noff = 0.13 cfs @ 12.17 hrs, Volume= Routed to Link EX : Existing Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)	Direct Entry,
Area (ac) C	0.213	0.213	Tc Length (min) (feet)	10.0

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Type III 24-hr 2-yr Rainfall=3.43" Printed 7/11/2023 2

Irea (ac) CN Description 0.555 65 Woods/grass comb., Fair, HSG B 0.109 98 Impervious 0.654 70 Weighted Average 0.555 83.58% Pervious Area 0.109 16.42% Impervious Area Tc Length Slope Velocity Capacity Tc Length (fu/ft) (ft/sec) (cfs) Direct Entry,	
Area (ac) 0.555 0.055 0.109 0.555 0.109 T C Leng (min) (fee	

Summary for Subcatchment 7EX:

0.041 af, Depth> 0.86" 0.45 cfs @ 12.16 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B 98 Impervious	3 Weighted Average 91.88% Pervious Area 8.12% Impervious Area	Slope Velocity Capacity Description (fl/ft) (fl/sec) (dfs)	Direct Entry,
S	65 98	89	et) (ta	
Area (ac)	0.532	0.579 0.532 0.047	Tc Length (min) (feet)	10.0
				•

Summary for Subcatchment 7P:

0.042 af, Depth> 1.07" 0.42 cfs @ 12.22 hrs, Volume= Runoff

I Description	65 Woods/grass comb., Fair, HSG B	l Impervious	Ĭ	77.80% Pervious Area	22.20% Impervious Area		Slope Velocity Capacity Description	(ft/ft) (ft/sec) (cfs)	Direct Entry.
Area (ac) CN Description	0.368 65	0.105 98	0.473 72	0.368			lc Length	(min) (feet)	15.0
Area		*		J	<u> </u>	ŀ	_	(min)	15.0

Type III 24-hr 2-yr Rainfall=3.43" Printed 7/11/2023 Prepared by RGM PEPC Consulting Engineers HydroCAD® 10.20-3c s/n 12817 © 2023 HydroCAD Software Solutions LLC

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Discarded OutFlow Max=0.10 ofs @ 12.84 hrs HW=462.71' (Free Discharge) —3=Exfiltration (Exfiltration Controls 0.10 ofs)

Primary OutFlow Max=0.43 cfs @ 12.84 hrs HW=462.71' (Free Discharge)

—1=Orifice/Grate (Orifice Controls 0.43 cfs @ 4.92 fps)

—2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)

—4=Orifice/Grate (Orifice Controls 0.00 cfs @ 0.35 fps)

Summary for Link EX: Existing

0.585 af 0.585 af, Atten= 0%, Lag= 0.0 min for 2-yr event 6.51% Impervious, Inflow Depth > 0.81" 12.31 hrs, Volume= 0.585 af 12.31 hrs, Volume= 0.585 af, Atte 8.663 ac, 6 4.82 cfs @ 4.82 cfs @ Inflow Area = п Primary Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link INFLOW: Junction

0.196 af 0.196 af, Atten= 0%, Lag= 0.0 min for 2-yr event low Area = 1.612 ac, 44.49% Impervious, Inflow Depth > 1.46" low = 1.77 cfs @ 12.26 hrs, Volume= 0.196 af mary = 1.77 cfs @ 12.26 hrs, Volume= 0.196 af, Atte Routed to Pond Basin : STORMWATER BASIN Inflow Area = Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link PR: Final

9.678 ac, 14.08% Impervious, Inflow Depth > 0.79" for 2-yr event 4.40 cfs @ 12.41 hrs, Volume= 0.634 af, Atten= 0%, Lag= 0.0 min Inflow Area = Primary Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link Sum: Junction

8.21% Impervious, Inflow Depth > 0.82" for 2-yr event 12.39 hrs, Volume= 0.535 af 12.39 hrs, Volume= 0.535 af, Atten= 0%, Lag= 0.0 min 7.853 ac, 8 4.02 cfs @ 4.02 cfs @ Inflow Area = II Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Routed to Link PR: Final

Printed 7/11/2023 Page 11 Type III 24-hr 2-yr Rainfall=3.43"

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Summary for Subcatchment 9P.

0.013 af, Depth> 0.71" 12.17 hrs, Volume= inoff = 0.13 cfs @ Routed to Link PR : Final Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 2-yr Rainfall=3.43"

SN Description	65 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (fuff) (ffsec) (ds)	Direct Entry,
Area (ac) CN	0.213 65	0.213	Tc Length (min) (feet)	10.0

Summary for Pond Basin: STORMWATER BASIN

0.173 af, Atten= 70%, Lag= 34.8 min 0.087 af 0.085 af 44.49% Impervious, Inflow Depth > 1.46" for 2-yr event 0.196 af low Area = 1.612 ac, 44.49% Impervious, In low = 1.77 cfs @ 12.26 hrs, Volume= fiftiow = 0.54 cfs @ 12.84 hrs, Volume= scarded = 0.10 cfs @ 12.84 hrs, Volume= many = 0.43 cfs @ 12.84 hrs, Volume= Routed to Link PR: Final Inflow Area = Discarded = Outflow Inflow

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 462.71' @ 12.84 hrs Surf.Area= 0.034 ac Storage= 0.070 af

Plug-Flow detention time= 135.9 min calculated for 0.172 af (88% of inflow)

Center-of-Mass det. time= 82.2 min (935.7 - 853.5)

	Custom Stage Data (Prismatic)Listed below (Recalc)										
Storage Description	ustom Stage Data	Cum.Store (acre-feet)	0.000			0.123					
Avail.Storage St	0.545 af C	Inc.Store (acre-feet)	0000	0.048	0.032	0.043	0.054	0.068	0.083	0.100	0.117
Invert Av	460.00'	Surf.Area (acres)	0.020	0.028	0.037	0.048	0.061	0.075	0.091	0.108	0.127
Volume	#1	Elevation (feet)	460.00	462.00	463.00	464.00	465.00	466.00	467.00	468.00	469.00

	161.50' 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads	465.00' 1.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)	460.00' 3.000 in/hr Exfiltration over Surface area	462.70' 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
Invert Outlet Devices	4.0" Vert. Orifice/G	1.5' long Sharp-Cre	3.000 in/hr Exfiltrat	4.0" Vert. Orifice/Gr
Invert	461.50	465.00'	460.00	462.70'
Device Routing	#1 Primary	Primary	#3 Discarded	Primary
Device	#1	#5	#3	#

Type III 24-hr 10-yr Rainfall=5.13"

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Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B 98 Impervious	Weighted Average	99.59% Pervious Area	0.41% Impervious Area	Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)	Direct Entry,
cription	ods/grass c ervious	ghted Aver	9% Pervio	% Impervi	Velocity (ft/sec)	
I Des	Woo	. Wei	99.5	0.41	Slope (ft/ft)	
(ac) CN	1.932 65 0.008 98	1.940 65	932	0.008	Tc Length in) (feet)	
Area	* 0	-	-	0	Tc (min)	15.0

Summary for Subcatchment 2P:

0.200 af, Depth> 1.73" 2.02 cfs @ 12.22 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Descriptio Woods/grs 100.00% P Slope Velo (ft/ft) (ft/s)	u	Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Velocity Capacity Description (ff/sec) (cfs)	Direct Entry,
	scriptio	ods/gra	0.00%	• Velocity (ft/sec)	
	(ac) Cl	.383 6	.383	Length (feet)	
Area (ac) CN Description 1.383 65 Woods/gras 1.383 100.00% Pe Tc Length Slope Veloci rmin) (feet) (ft/ft) (ft/se	Area	1	1	Tc (min)	15.0

Summary for Subcatchment 2PA:

0.137 af, Depth> 2.63" noff = 1.19 cfs @ 12.35 hrs, Volume= Routed to Link INFLOW : Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

) CN Description		3 98 Impervious			9 41.27% Impervious Area	Slope		Direct Entry,
CN	20	86	92					
Area (ac)	0.491	* 0.136		0.368	0.259	Tc Length	(min) (feet)	25.0

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Type III 24-hr 10-yr Rainfall=5.13" Printed 7/11/2023 .C Page 13

Summary for Subcatchment 1EX:

1.148 af, Depth> 1.89" noff = 10.51 cfs @ 12.30 hrs, Volume= Routed to Link EX: Existing Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

						tion		Entry,
on	65 Woods/grass comb., Fair, HSG B	Sr	Weighted Average	93.87% Pervious Area	6.13% Impervious Area	n Slope Velocity Capacity Description	(cfs) (cfs)	Direct Entry,
CN Description	Woods/g	98 Impervious	Weighted	93.87%	6.13% In	Slope Vel	(ft/ft) (ft	
		0.448 98		6.862		Tc Length	(feet)	
Area (ac)	9.9	* 0.4	7.5	9.9	0.4	ည	(min)	20.0

Summary for Subcatchment 1P:

1.128 af, Depth> 1.88" Runoff = 9.43 cfs @ 12.37 hrs, Volume= Routed to Link Sum : Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	Impervious	Weighted Average	92.54% Pervious Area	7.46% Impervious Area	Slope Velocity Capacity Description	(ft/ft) (ft/sec) (cfs)	Direct Entry,
Description	Woods/gra	Impervious	Weighted A	92.54% Pe	7.46% Imp	lope Velo	(ft/s)	
S	92	98	29			th S	et) (
a (ac)	6.653	0.536	7.189	6.653	0.536	Tc Length) (feet)	0
Are		*				Ĕ	(min)	25.0

Summary for Subcatchment 2EX:

0.280 af, Depth> 1.73" 2.83 cfs @ 12.22 hrs, Volume= Runoff

Type III 24-hr 10-yr Rainfall=5.13" y Prepared by RGM PEPC Consulting Engineers HydroCAD® 10.20-3c s/n 12817 © 2023 HydroCAD Software Solutions LLC

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Description Capacity (cfs) Velocity (ft/sec) Slope (ft/ft) Tc Length nin) (feet) (min)

Direct Entry,

Summary for Subcatchment 4EX:

0.125 af, Depth> 1.81" 1.13 cfs @ 12.30 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Direct Entry, Velocity Capacity Description (ft/sec) (cfs) Woods/grass comb., Fair, HSG B Impervious Weighted Average 97.34% Pervious Area 2.66% Impervious Area Description Slope (ft/ft) S 8 8 8 Tc Length nin) (feet) Area (ac)
0.805
0.022
0.022
0.827
0.805
0.022 (min)

Summary for Subcatchment 4P:

0.102 af, Depth> 1.73" 0.92 cfs @ 12.30 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Direct Entry, Description Woods/grass comb., Fair, HSG B Velocity Capacity (ft/sec) (cfs) 100.00% Pervious Area CN Description Slope (ft/ft) 65 Tc Length min) (feet) Area (ac) 0.707 (min)

Summary for Subcatchment 4PA:

0.083 af, Depth> 3.28" noff = 0.88 cfs @ 12.21 hrs, Volume= Routed to Link INFLOW: Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

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Type III 24-hr 10-yr Rainfall=5.13" Printed 7/11/2023 .C Page 15

Summary for Subcatchment 3EX:

0.230 af, Depth> 1.81" 2.09 cfs @ 12.30 hrs, Volume= II Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

	65 Woods/grass comb., Fair, HSG B					/ Description	(ft/ft) (ft/sec) (cfs)	Direct Entry,
	comb., Fa		age	us Area	ous Area	Capacity	(cfs	
ription	ds/grass c	Impervious	Weighted Average	97.19% Pervious Area	2.81% Impervious Area	Velocity	(ft/sec)	
Desc	Woo	lmpe		97.19	2.81	Slope	(ft/ft)	
Area (ac) CN Description		0.043 98	1.528 66	1.485	0.043	Tc Length	(feet)	
Area	-	*	<u>+</u>	÷	Ö	٦ ٢	(min)	20.0

Summary for Subcatchment 3P:

0.186 af, Depth> 1.73" 1.68 cfs @ 12.30 hrs, Volume=

Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

	Woods/grass comb., Fair, HSG B	Area	Stope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)	Direct Entry
	omb., Fa	ous Area	Capacit (cfs	
ription	ds/grass co	100.00% Pervious Area	Velocity (ft/sec)	
Desc	Woo	100.	Slope (ft/ft)	
CS	, 65			
Area (ac) CN Description	1.286	1.286	Tc Length (min) (feet)	20.0

Summary for Subcatchment 3PA:

0.060 af, Depth> 3.00" noff = 0.57 cfs @ 12.28 hrs, Volume= Routed to Link INFLOW: Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13" Description CN Area (ac)

imp, HSG B			Area	s Area
1/4 acre lots, 38% imp, HSG B	Impervious	Weighted Average	48.37% Pervious Area	51.63% Impervious Area
75	86	80		
0.188	0.053	0.241	0.117	0.124
	*			

Type III 24-hr 10-yr Rainfall=5.13"

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Summary for Subcatchment 5PA:

0.100 af, Depth> 2.72" noff = 1.06 cfs @ 12.21 hrs, Volume= Routed to Link INFLOW : Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

) On Description		7 98 Impervious	1 77 Weighted Average			ength Slope Velocity Capacity Description	(feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
			77			gth	eet)	
(25) 52 5 5	0.274	* 0.167	0.441	0.274	0.167	Tc Length	(min) (fee	15.0

Summary for Subcatchment 6EX:

0.187 af, Depth> 1.97" noff = 1.93 cfs @ 12.22 hrs, Volume= Routed to Link EX : Existing Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN Description	Woods/grass comb., Fair, HSG B	Impervious		89.82% Pervious Area	10.18% Impervious Area	Tc Length Slope Velocity Capacity Description	(ft/ft) (ft/sec) (cfs)	Direct Entry,
C	65	86	89			jth (et)	
Area (ac)	1.024	0.116	1.140	1.024	0.116	Tc Leng	(min) (feet)	15.0
	l	*	l					

Summary for Subcatchment 6PR:

0.118 af, Depth> 2.13" noff = 1.23 cfs @ 12.22 hrs, Volume= Routed to Link Sum : Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

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Type III 24-hr 10-yr Rainfall=5.13" Printed 7/11/2023 .C Page 17

Summary for Subcatchment 5EX:

0.143 af, Depth> 1.81" 1.30 cfs @ 12.30 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	98 Impervious	Weighted Average	98.21% Pervious Area	1.79% Impervious Area	Slope Velocity Capacity Description	(IVII) (IVSEC) (CIS)	Direct Entry,
CN	65	86	99				- 1	
Area (ac)	0.933	* 0.017	0.950	0.933	0.017	_	(min) (leet)	20.0

Summary for Subcatchment 5P:

0.128 af, Depth> 1.73" 1.16 cfs @ 12.30 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

CN Description

Area (ac)

HSG B					Description		Direct Entry,
omb., Fair		age	ıs Area	us Area	Capacity	(cts)	
Woods/grass comb., Fair, HSG B	Impervious	Weighted Average	99.44% Pervious Area	0.56% Impervious Area	Velocity Capacity	(ft/sec)	
			99.4	0.56°	Slope \	(ft/ft)	
4 65	15 98	65	4	5	ength	(feet)	
0.884	0.005	0.889	0.88	0.00	Tc Length	min)	20.0
	*					ij	

Type III 24-hr 10-yr Rainfall=5.13"

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Summary for Subcatchment 8EX:

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0.058 af, Depth> 1.73" 0.59 cfs @ 12.22 hrs, Volume= Runoff Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN Description	0.402 65 Woods/grass comb., Fair, HSG B	0.402 100.00% Pervious Area	Length Slope Velocity Capacity Description (feet) (ft/st) (ft/sec) (cfs)	Direct Entry,
Area (ac)	0.402	0.402	Tc Length (min) (feet)	15.0

Summary for Subcatchment 8P: (new Subcat)

0.048 af, Depth> 1.73" 0.49 cfs @ 12.22 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

	r, HSG B		Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)	Direct Entry,
	omb., Fai	ous Area	Capacity (cfs)	
ription	Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Velocity (ft/sec)	
CN Description		100.	Slope (ft/ft)	
	0.335 65	2		
Area (ac)	0.33	0.335	Tc Length (min) (feet)	15.0
				l

Summary for Subcatchment 9EX:

0.031 af, Depth> 1.74" noff = 0.36 cfs @ 12.15 hrs, Volume= Routed to Link EX: Existing Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN 0.213 64 0.213 Tc Length (min) (feet) 10.0	Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (fl/ft) (fl/sec) (cfs)	Direct Entry,
	Area (ac) CN	0.213 6	0.213	Tc Length (min) (feet)	10.0

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Type III 24-hr 10-yr Rainfall=5.13" Printed 7/11/2023 .C Page 19

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	98 Impervious	20		16.42% Impervious Area		S	(feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
CN	65	86	20			:	th S	et)	
Area (ac)	0.555	0.109	0.664	0.555	0.109		Ic Length	(min) (fee	15.0
		*							

Summary for Subcatchment 7EX:

0.095 af, Depth> 1.97" 1.13 cfs @ 12.15 hrs, Volume=

Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN Description	65	98 Impervious	89	91.88% Pervious Area	8.12% Impervious Area	Tc Length Slope Velocity Capacity Description	set) (ft/ft) (ft/sec) (cfs)	Direct Entry,
Area (ac)	0.532	0.047	0.579	0.532	0.047	Tc Lengt	(min) (feel	10.0
	-	k I						

Summary for Subcatchment 7P:

0.090 af, Depth> 2.29" 0.95 cfs @ 12.21 hrs, Volume= Runoff

	HSG B					Description) (ft/ft) (ft/sec) (cfs)	Direct Entry.
	65 Woods/grass comb., Fair, HSG B		age	us Area	ious Area	Capacity	(cts)	
cription	ds/grass c	Impervious	Weighted Average	77.80% Pervious Area	22.20% Impervious Area	Velocity	(ft/sec)	
Des	Woo			77.8	22.2	Slope	(ft/ft)	
Area (ac) CN Description	38 65)5 98	0.473 72	88		Tc Length	(feet)	
Area (a	0.368	0.105	0.4	0.3	0.10	ျှ	(min)	15.0
	l	*	l					

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Type III 24-hr 10-yr Rainfall=5.13"

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Discarded OutFlow Max=0.15 ofs @ 12.72 hrs HW=464.20' (Free Discharge)

Primary OutFlow Max=1.15 cfs @ 12.72 hrs HW=464.20' (Free Discharge)

—1=Orifice/Grate (Orifice Controls 0.67 cfs @ 7.66 fps)
—2=Sharp-Crested Rectangular Weir (Controls 0.00 cfs)
—4=Orifice/Grate (Orifice Controls 0.48 cfs @ 5.55 fps)

Summary for Link EX: Existing

1.366 af, Atten= 0%, Lag= 0.0 min for 10-yr event 6.51% Impervious, Inflow Depth > 1.89" 12.28 hrs, Volume= 1.366 af 12.28 hrs, Volume= 1.366 af, Atte 8.663 ac, 6 12.52 cfs @ 12.52 cfs @ Inflow Area = п Primary Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link INFLOW: Junction

0.381 af 0.381 af, Atten= 0%, Lag= 0.0 min for 10-yr event 1.612 ac, 44.49% Impervious, Inflow Depth > 2.83" tow = 3.49 ds @ 12.25 hrs, Volumemary = 3.49 ds @ 12.25 hrs, Volume and = 3.49 ds @ 12.25 hrs, Volume Routed to Pond Basin : STORMWATER BASIN Inflow Area = Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link PR: Final

1.517 af, Atten= 0%, Lag= 0.0 min for 10-yr event 9.678 ac, 14.08% Impervious, Inflow Depth > 1.88" 11.52 cfs @ 12.36 hrs, Volume= 1.517 af 11.52 cfs @ 12.36 hrs, Volume= 1.517 af, Atte Inflow Area = II Primary Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link Sum: Junction

1.246 af 1.246 af, Atten= 0%, Lag= 0.0 min for 10-yr event 8.21% Impervious, Inflow Depth > 1.90" 12.36 hrs, Volume= 1.246 af 12.36 hrs, Volume= 1.246 af, Atte nflow Area = 7.853 ac, 8
nflow = 10.37 cfs @ 1
rimary = 10.37 cfs @ 1
Routed to Link PR: Final Inflow Area = Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Type III 24-hr 10-yr Rainfall=5.13" Printed 7/11/2023 C Page 21

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Summary for Subcatchment 9P.

0.031 af, Depth> 1.74" 12.15 hrs, Volume= noff = 0.36 cfs @ Routed to Link PR : Final Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 10-yr Rainfall=5.13"

Area (ac) CN Description	5 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (fl/ft) (fl/sec) (cfs)	Direct Entry,
Area (ac) CN	0.213 65	0.213	Tc Length (min) (feet)	10.0

Summary for Pond Basin: STORMWATER BASIN

44.49% Impervious, Inflow Depth > 2.83" for 10-yr event 0.381 af 0.381 as 0.381 af 0.272 hrs, Volume 0.281 af 0 low = 3.49 cfs @ 12.25 hrs, Volume= fflow = 1.31 cfs @ 12.72 hrs, Volume= scarded = 0.15 cfs @ 12.72 hrs, Volume= many = 1.15 cfs @ 12.72 hrs, Volume= Rouled to Link PR : Final 1.612 ac, Inflow Area = Discarded = Outflow Inflow

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 464.20' @ 12.72 hrs Surf.Area= 0.051 ac Storage= 0.133 af

Plug-Flow detention time= 97.6 min calculated for 0.347 af (91% of inflow) Center-of-Mass det. time= 54.0 min (888.9 - 834.8)

	Custom Stage Data (Prismatic)Listed below (Recalc)										
Storage Description	stom Stage Data	Cum.Store (acre-feet)	0.000	0.048	0.080	0.123	0.177	0.245	0.328	0.428	0.545
Avail.Storage Stor	0.545 af Cus	Inc.Store (acre-feet)	0.000	0.048	0.032	0.043	0.054	0.068	0.083	0.100	0.117
Invert Ava	460.00'	Surf.Area (acres)	0.020	0.028	0.037	0.048	0.061	0.075	0.091	0.108	0.127
Volume	#1	Elevation (feet)	460.00	462.00	463.00	464.00	465.00	466.00	467.00	468.00	469.00

Invert Outlet Devices	461.50' 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads	465.00' 1.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)	460.00' 3.000 in/hr Exfiltration over Surface area	462.70' 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
Invert	461.50	465.00'	460.00	462.70
Device Routing	#1 Primary	Primary	Discarded	#4 Primary
Device	#	#2	#3	#4

Type III 24-hr 100-yr Rainfall=9.17"
Printed 7/11/2023 WA_3 Prepare

Prepare HydroCA	d by KC D® 10.20	-3c s/n 1	Prepared by KGM PEPC Consulting Engineers HydroCAD® 10.20-3c s/n 12817 © 2023 HydroCAD So	ng Engine(3 HydroCAE	ftware Solutions LLC	Frinted 7/11/2023 Page 24
Area	(ac) (Area (ac) CN Description	scription			
1	1.932	65 Woo	65 Woods/grass comb., Fair, HSG B	omb., Fair,	HSG B	
*	0.008	98 Impervious	ervious			
1	1.940	65 Wei	Weighted Average	age		
<u></u>	1.932	99.6	99.59% Pervious Area	us Area		
0	9.003	0.4	0.41% Impervious Area	ous Area		
J _C	Length	Slope	Velocity	Capacity	Tc Length Slope Velocity Capacity Description	
(min)	(feet)	(ft/ft)	(tt/sec)	(cts)		
15.0					Direct Entry,	

Summary for Subcatchment 2P:

0.558 af, Depth> 4.85" 5.93 cfs @ 12.21 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

omb., Fair, ous Area Capacity (cfs)	ds/grass comb., Fair, 10%, Pervious Area Velocity Capacity (ft/sec) (cfs)	CN Description 65 Woods/grass comb. 100.00% Pervious A 100.100 Velocity Cap. eet) (ft/ft) (ft/sec)	Area (ac) CN Description 1.383 65 Woods/grass comb., Fair, 1.383 100.00% Pervious Area Tc Length Slope Velocity Capacity (min) (feet) (ft/ft) (ft/sec) (cfs) 15.0 (cfs) (cfs)		HSG B		Description	Direct Entry,
	ription ds/grass co 30% Pervic Velocity (ft/sec)	CN Des 65 Wo 100 igth Slope eet) (ft/ft)	(feet) CN Des 1.383 65 Wo 1.383 100 Length Slope (feet) (ft/ft)		omb., Fair,	ous Area	Capacity (cfs)	
Woov 100.(Slope (ft/ft)			Area (ac 1.38; 1.38; Tc Le (min) (CN	3 65	3		

Summary for Subcatchment 2PA:

0.324 af, Depth> 6.21" Inoff = 2.78 cfs @ 12.34 hrs, Volume= Routed to Link INFLOW: Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

CN Description	70 1/2 acre lots, 25% imp, HSG B	Impervious	Weighted Average	58.73% Pervious Area	41.27% Impervious Area	Slope Velocity Capacity Description	(ft/ft) (ft/sec) (cfs)	Direct Entry,
Descript	1/2 acre			58.73%	41.27%	Slope Ve	(ft/ft) (f	
c) CN		36 98	92 2	88	66	Tc Length	(feet)	
Area (ac)	0.491	* 0.136	0.627	0.368	0.259	T _C L	(min)	25.0

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Type III 24-hr 100-yr Rainfall=9.17" Printed 7/11/2023 LLC Page 23

Summary for Subcatchment 1EX:

3.101 af, Depth> 5.09" noff = 29.40 cfs @ 12.28 hrs, Volume= Routed to Link EX: Existing Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

ption	65 Woods/grass comb., Fair, HSG B	ious	Weighted Average	93.87% Pervious Area	6.13% Impervious Area	/elocity Capacity Description	nin) (feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
Area (ac) CN Description	Woods	Impervious	Weight	93.87%	6.13%	Slope \	(ft/ft)	
S	9	98 I	29			gth	eet)	
a (ac)	6.862	0.448	7.310	6.862	0.448	c Len) (fe	0
Are		*				_	(min)	20.0

Summary for Subcatchment 1P:

3.046 af, Depth> 5.09" Runoff = 26.35 cfs @ 12.35 hrs, Volume= Routed to Link Sum : Junction Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Area (ac) CN Description	3 65 Woods/grass comb., Fair, HSG B	3 98 Impervious	29			ngth Slope Velocity Capacity Description (fulf) (fl/sec) (cfs)	Direct Entry,
CN	65	86	29				
Area (ac)	6.653	* 0.536	7.189	6.653	0.536	Tc Length (min) (feet)	25.0

Summary for Subcatchment 2EX:

0.783 af, Depth> 4.85" 8.32 cfs @ 12.21 hrs, Volume= Runoff

Type III 24-hr 100-yr Rainfall=9.17"

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Description Capacity (cfs) Velocity (ft/sec) Slope (ft/ft) Tc Length nin) (feet) (min)

Summary for Subcatchment 4EX:

Direct Entry

0.342 af, Depth> 4.97" 3.24 cfs @ 12.28 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Woods/grass comb., Fair, HSG B Impervious Weighted Average 97.34% Pervious Area 2.66% Impervious Area Description S 8 8 8 Area (ac)
0.805
0.022
0.022
0.827
0.805
0.022

Direct Entry Velocity Capacity Description (ft/sec) (cfs) Slope (ft/ft) Tc Length nin) (feet) (min)

Summary for Subcatchment 4P:

0.285 af, Depth> 4.84" 2.70 cfs @ 12.28 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

S

Direct Entry, Description Woods/grass comb., Fair, HSG B Capacity (cfs) 100.00% Pervious Area Velocity (ft/sec) Description Slope (ft/ft) 65 Tc Length min) (feet) Area (ac) 0.707 20.0 (min)

Summary for Subcatchment 4PA:

0.179 af, Depth> 7.08" noff = 1.84 cfs @ 12.20 hrs, Volume= Routed to Link INFLOW: Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

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Type III 24-hr 100-yr Rainfall=9.17" Printed 7/11/2023

Summary for Subcatchment 3EX:

0.632 af, Depth> 4.97" 5.99 cfs @ 12.28 hrs, Volume= II Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Direct Entry, Velocity Capacity Description (ft/sec) (cfs) Woods/grass comb., Fair, HSG B Weighted Average 97.19% Pervious Area 2.81% Impervious Area Description Impervious Slope (ft/ft) S 8 8 8 Tc Length nin) (feet) Area (ac) 1.485 0.043 1.528 1.485 0.043 (min) 20.0

Summary for Subcatchment 3P:

0.519 af, Depth> 4.84" 4.91 cfs @ 12.28 hrs, Volume= II Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Direct Entry, Description Woods/grass comb., Fair, HSG B Slope Velocity Capacity (ft/ft) (ft/sec) (cfs) 100.00% Pervious Area Description CN 65 Tc Length min) (feet) Area (ac) 1.286 1.286 (min) 20.0

Summary for Subcatchment 3PA:

0.135 af, Depth> 6.71" noff = 1.26 cfs @ 12.27 hrs, Volume= Routed to Link INFLOW : Junction

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

1/4 acre lots, 38% imp, HSG B Impervious Weighted Average 48.37% Pervious Area 51.63% Impervious Area Description S 8 3 8 Area (ac)
0.188
0.053
0.241
0.117
0.117

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Type III 24-hr 100-yr Rainfall=9.17" Printed 7/11/2023

Summary for Subcatchment 5PA:

0.233 af, Depth> 6.34" noff = 2.45 cfs @ 12.20 hrs, Volume= Routed to Link INFLOW : Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

	Area (ac)		CN Description	Descri	iption			
	0.2	0.274	65 V	Noods	s/grass co	65 Woods/grass comb., Fair, HSG B	HSG B	
*	0.1	0.167	98 Ir	mpen	Impervious			
	0.4	141	77 V	Veigh	Weighted Average	age		
	0.2	0.274	9	32.139	62.13% Pervious Area	us Area		
	0.1	0.167	က	37.87	% Imperv	37.87% Impervious Area		
	2 L	Tc Length	Slo) be	Velocity	Capacity	n Slope Velocity Capacity Description	
	(min)	(feet)	(ft	/ft)	(tt/sec)	(cts)		
	15.0						Direct Entry,	

Summary for Subcatchment 6EX:

0.496 af, Depth> 5.22" noff = 5.28 cfs @ 12.21 hrs, Volume= Routed to Link EX : Existing Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	98 Impervious	68 Weighted Average	89.82% Pervious Area	10.18% Impervious Area	n Slope Velocity Capacity Description) (fl/ft) (fl/sec) (cfs)	Direct Entry
Area (ac) C	1.024	* 0.116	1.140	1.024	0.116	Tc Length	(min) (feet)	15.0

Summary for Subcatchment 6PR:

0.303 af, Depth> 5.47" noff = 3.22 cfs @ 12.21 hrs, Volume= Routed to Link Sum : Junction Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

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Type III 24-hr 100-yr Rainfall=9.17" Frinted 7/11/2023 Page 27

Description	65 Woods/grass comb., Fair, HSG B	98 Impervious	Weighted Average	44.88% Pervious Area	55.12% Impervious Area	Slope Velocity Capacity Description	nin) (feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
N	35 W	98 In	83 W	4	Ω̈́	Slor	(ft/i	
Area (ac) CN Description	0.136 6	0.167 9		0.136	0.167	Tc Lenath	min) (feet)	15.0
		*					J	

Summary for Subcatchment 5EX:

0.393 af, Depth> 4.97" 3.73 cfs @ 12.28 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

scription	Woods/grass comb., Fair, HSG B	98 Impervious	Weighted Average	98.21% Pervious Area	1.79% Impervious Area	Slope Velocity Capacity Description	;) (ft/sec) (cfs)	Direct Entry,
l Dě	Wo	3 Imp	We	98	1.7	Slope	(ft/ft)	
Area (ac) CN Description	0.933 65			0.933		Lenath	in) (feet)	
Area	0	*	0	0	0	Tc	(min)	20.0

Summary for Subcatchment 5P:

0.359 af, Depth> 4.84" 3.40 cfs @ 12.28 hrs, Volume= Runoff

	Woods/grass comb., Fair, HSG B Impervious		Slope Velocity Capacity Description (ft/ft) (ft/sec) (ds)	Direct Entry,
	omb., Fa	age us Area ous Area	Capacit (cfs	
ription	Woods/grass o	Weighted Average 99.44% Pervious Area 0.56% Impervious Area	Velocity (ft/sec)	
Desc	Woo	Weig 99.44 0.56	Slope (ft/ft)	
Area (ac) CN Description	65 98			
ea (ac)	0.884	0.889 0.884 0.005		0.
Ar	*		Tc (min)	20.0

Type III 24-hr 100-yr Rainfall=9.17"

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Summary for Subcatchment 8EX:

0.162 af, Depth> 4.85" 1.72 cfs @ 12.21 hrs, Volume= Runoff Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Area (ac) CN Description 0.402 65 Woods/grass comb., Fair, HSG B 0.402 100.00% Pervious Area Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs) 15.0 Direct Entry		, HSG B		Description	Direct Entry,
(ac) CN 402 65 402 402 Length (feet)		omb., Fair	ous Area	Capacity (cfs)	
(ac) CN 402 65 402 402 Length (feet)	ription	ds/grass c	00% Pervio	Velocity (ft/sec)	
(ac) CN 402 65 402 402 Length (feet)	Desc	Woo	100.0	Slope (ft/ft)	
Area (ac 0.40 <u>6</u> 0.40 <u>6</u> 0.40 <u>7</u> Tc Le (min) (CN		01		
	Area (ac	0.405	0.405	Tc Le (min)	15.0

Summary for Subcatchment 8P: (new Subcat)

0.135 af, Depth> 4.85" 1.44 cfs @ 12.21 hrs, Volume= Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

	, HSG B		Description
	Woods/grass comb., Fair, HSG B	ous Area	y Capacity) (cfs)
) CN Description	ds/grass c	100.00% Pervious Area	Velocit (ft/sec
Desc	Woo	100.	Slope (ft/ft)
S	65		
Area (ac)	0.335	0.335	Length (feet)
Area	0	0	Tc (min)

Summary for Subcatchment 9EX:

Direct Entry,

15.0

0.086 af, Depth> 4.85" nnoff = 1.05 cfs @ 12.15 hrs, Volume= Routed to Link EX: Existing Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

CN Description Area (ac)

Alca (ac) Oll Description	5 Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (fl/ft) (fl/sec) (dfs)	Direct Entry,
5				
ממ (מכ)	0.213 6	0.213	Tc Length min) (feet)	10.0

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Type III 24-hr 100-yr Rainfall=9.17"

	ISG B				Slope Velocity Capacity Description (fl/ft) (fl/sec) (ds)	Direct Entry,
	Woods/grass comb., Fair, HSG B Impervious	age	us Area	ious Area	Capacity (cfs)	
ription	65 Woods/grass c 98 Impervious	Weighted Average	83.58% Pervious Area	16.42% Impervious Area	Velocity (ft/sec)	
Desc	Woo	Weig	83.5	16.4	Slope (ft/ft)	
Area (ac) CN Description	0.555 65 0.109 98	0.664 70	0.555	0.109	Tc Length nin) (feet)	
Area (a	* 0.5	9.0	0.5	0.1	Tc (min)	15.0

Summary for Subcatchment 7EX:

0.252 af, Depth> 5.23" 3.07 cfs @ 12.14 hrs, Volume=

Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

Area (ac) CN Description	65 Woods/grass comb., Fair, HSG B	98 Impervious	38 Weighted Average	91.88% Pervious Area	8.12% Impervious Area	Slope Velocity Capacity Description	in) (feet) (ft/ft) (ft/sec) (cfs)	Direct Entry,
CN	65	88	89			£	et)	
(ac)	0.532	.047	0.579	.532	.047	Leng	ee (feε	
Area	,			J	_	ည	(min)	10.0
- 1	, ,							

Summary for Subcatchment 7P:

0.225 af, Depth> 5.72" 2.39 cfs @ 12.21 hrs, Volume= Runoff

Area (ac) CN Description 0.368 65 Woods/gras 0.473 72 Weighted Av 0.368 77.80% Per 0.105 22.20% Imp Tc Length Slope Velocif (min) (feet) (ft/ft) (ft/sec	ription	65 Woods/grass comb., Fair, HSG B	72 Weighted Average 77 8/0% Pervious Area	22.20% Impervious Area	Slope Velocity Capacity Description (fuft) (fusec) (cfs)	Direct Entry,
Area (ac) CN 0.368 65 0.105 98 0.473 72 0.368 0.105 TC Length (min) (feet)	Descr	Wood	Weigh	22.20	Slope (ft/ft)	
Area (ac) * 0.368 * 0.105 0.473 0.368 0.105 TC Ler (min) (ff	CN		72		igth eet)	
* * * T T T T T T T T T T T T T T T T T	ea (ac)	0.368	0.473	0.105	ic Ler (fe	0
	Are	*			T (mir	15.

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Type III 24-hr 100-yr Rainfall=9.17"

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Discarded OutFlow Max=0.22 cfs @ 12.47 hrs HW=465.91' (Free Discharge)

Primary OutFlow Max=5.34 cfs @ 12.47 hrs HW=465.91' (Free Discharge)
—1=Orifice/Grate (Orifice Controls 0.87 cfs @ 9.92 fps)
—2=Sharp-Crested Rectangular Weir (Weir Controls 3.75 cfs @ 3.12 fps)
—4=Orifice/Grate (Orifice Controls 0.73 cfs @ 8.40 fps)

Summary for Link EX: Existing

6.51% Impervious, Inflow Depth > 5.10" for 100-yr event 12.26 hrs, Volume= 3.683 af, Atten= 0%, Lag= 0.0 min 12.26 hrs, Volume= 3.683 af, Atten= 0%, Lag= 0.0 min 8.663 ac, 6 35.08 cfs @ 35.08 cfs @ Inflow Area = п Primary Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link INFLOW: Junction

0.871 af 0.871 af, Atten= 0%, Lag= 0.0 min for 100-yr event 1.612 ac, 44.49% Impervious, Inflow Depth > 6.48" tow = 7.89 ds @ 12.24 hrs, Volumemary = 7.89 ds @ 12.24 hrs, Volume
Routed to Pond Basin : STORMWATER BASIN Inflow Area = Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link PR: Final

4.127 af, Atten= 0%, Lag= 0.0 min for 100-yr event 9.678 ac, 14.08% Impervious, Inflow Depth > 5.12" 33.97 cfs @ 12.36 hrs, Volume= 4.127 af 33.97 cfs @ 12.36 hrs, Volume= 4.127 af, Atte Inflow Area = П Primary Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Summary for Link Sum: Junction

8.21% Impervious, Inflow Depth > 5.12" for 100-yr event 12.34 hrs, Volume= 3.349 af, Atten= 0%, Lag= 0.0 min flow Area = 7.853 ac, 8 flow = 28.80 cfs @ 1 rimary = 28.80 cfs @ 1 Routed to Link PR: Final Inflow Area = Inflow

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs

Type III 24-hr 100-yr Rainfall=9.17" Printed 7/11/2023

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Summary for Subcatchment 9P

0.086 af, Depth> 4.85" 12.15 hrs, Volume= 1.05 cfs @ noff = 1.05 cfs (Routed to Link PR : Final Runoff

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs Type III 24-hr 100-yr Rainfall=9.17"

l Description	o Woods/grass comb., Fair, HSG B	100.00% Pervious Area	Slope Velocity Capacity Description (ft/ft) (ft/sec) (cfs)	Direct Entry,
Area (ac) CN	0.213 65	0.213	Tc Length (min) (feet)	10.0

Summary for Pond Basin: STORMWATER BASIN

0.833 af, Atten= 29%, Lag= 13.6 min 0.141 af 0.692 af for 100-yr event 44.49% Impervious, Inflow Depth > 6.48" () 12.24 hrs, Volume= 0.871 af low = 7.89 cfs @ 12.24 hrs, Volume= flow = 5.60 cfs @ 12.47 hrs, Volume= scarded = 0.22 cfs @ 12.47 hrs, Volume= many = 5.37 cfs @ 12.47 hrs, Volume= Rouled to Link PR : Final 1.612 ac, Inflow Area = Discarded = Outflow Inflow

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.05 hrs / 2 Peak Elev= 465.92' @ 12.47 hrs Surf.Area= 0.074 ac Storage= 0.239 af

Plug-Flow detention time=71.9 min calculated for 0.831 af (95% of inflow) Center-of-Mass det. time=47.7 min (859.6 - 811.9)

Storage Description	Custom Stage Data (Prismatic)Listed below (Recalc)
Avail.Storage	0.545 af (
Invert	460.00'
Volume	#1

Cum.Store	(acre-feet)	0.000	0.048	0.080	0.123	0.177	0.245	0.328	0.428	0.545
Inc.Store	(acre-feet)	0.000	0.048	0.032	0.043	0.054	0.068	0.083	0.100	0.117
Surf.Area	(acres)	0.020	0.028	0.037	0.048	0.061	0.075	0.091	0.108	0.127
Elevation	(feet)	460.00	462.00	463.00	464.00	465.00	466.00	467.00	468.00	469.00

Invert Outlet Devices	461.50' 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads	465.00' 1.5' long Sharp-Crested Rectangular Weir 2 End Contraction(s)	460.00' 3.000 in/hr Exfiltration over Surface area	462.70' 4.0" Vert. Orifice/Grate C= 0.600 Limited to weir flow at low heads
Invert	461.50	465.00'	460.00'	462.70
Device Routing	Primary	#2 Primary	Discarded	Primary
Device	#	#5	#3	#