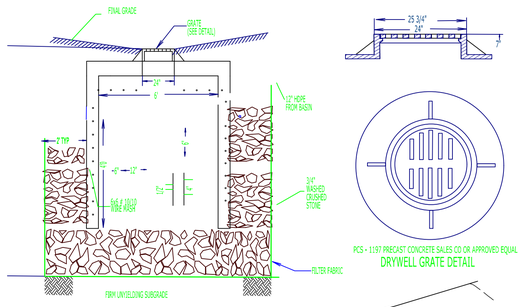
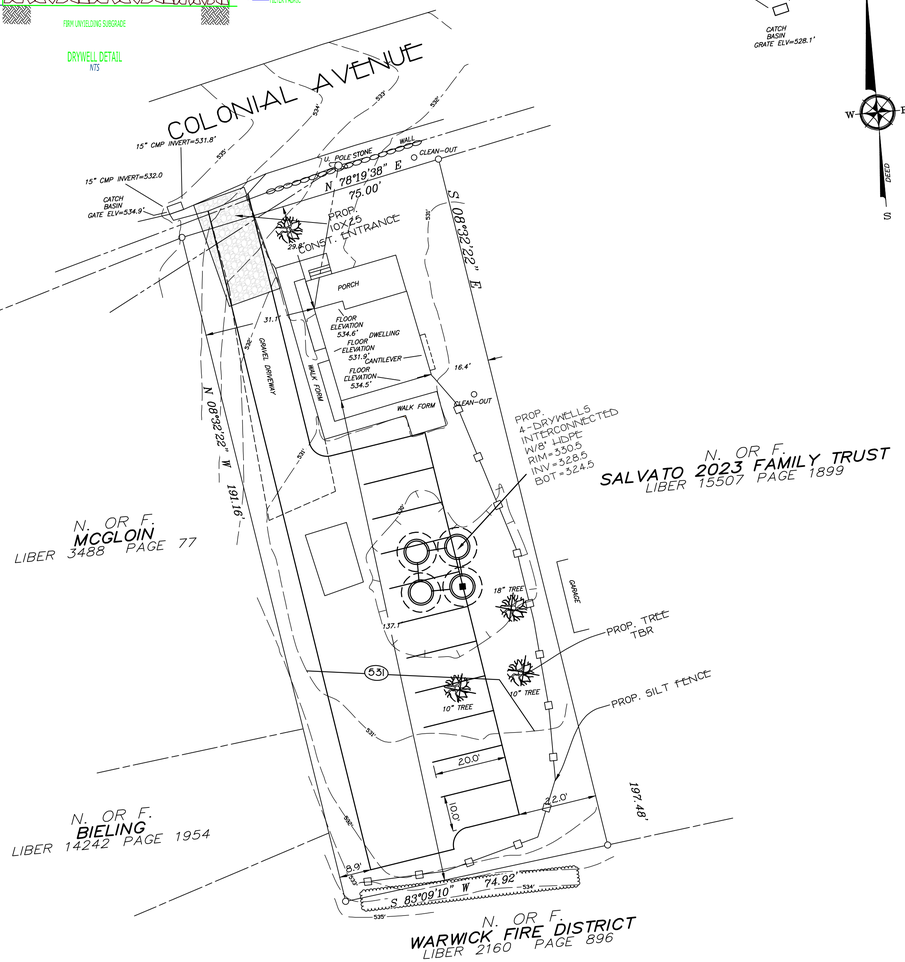


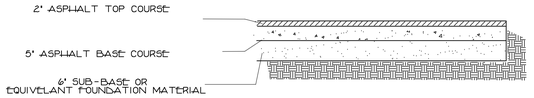
DRYWELL DETAIL
NTS



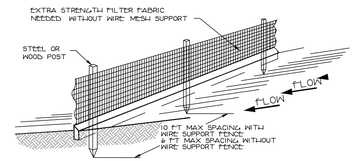
GRAPHIC SCALE

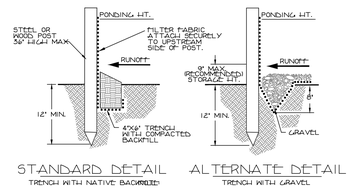
20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.



PARKING LOT PAVEMENT DETAIL
N.T.S.



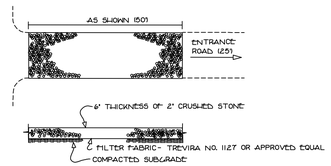


STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

SILT FENCE
N.T.S.



STABILIZED CONSTRUCTION ENTRANCE
N.T.S.

CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
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 RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. 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 EACH RAIN.

Drywell Design:

Soils: Mardin "D"			
Development size =	0.1148	Acre	
Undeveloped SCS Curve No.=	80.0000		
Developed SCS Curve No.=	98.0000		
1. Select Design Storm			
100 year, 24-hour	9.3000		
2. Type of subsurface disposal system:			
Precast drywell with 3-3/4" crushed stone			
3. Determine Percolation Rate:			
Percolation Rate:			
Drop	1.0000	inches	
Time	30.0000	minutes	
a. Area of Percolation (Ap):			
Surface area of Cylinder			
Ac=PI*Dhavg			
D=	1.0000	foot	
havg=	8.5000	inches	
Ac=	2.2253	Ft^2	
Bottom Area			
Ab=PI*r^2			
Ab=	0.7854	Ft^2	
Volume of Percolation:			
Ap=Ac+Ab			
Ap=	3.0107	Ft^2	
Vp=Ab*h	0.0654	Ft^3	
Soil Percolation Rate			
Sr= volume/area/time	0.0007	Ft^3/Ft^2/Min.	
Sr=	1.0435	Ft^3/Ft^2/day	
Sr=(minus clogging factor of 25%)	0.7826	Ft^3/Ft^2/day	
4. Calculate Required Storage Volume:			
100yr, 24 hour rainfall=	9.3000	inches	
From Table 2-1 of TR-55			
Existing CN=	80.0000	therefore depth Vr=	6.86 inches
Proposed CN=	98.0000	therefore depth Vr=	9.10 inches
DeltaVr=	2.2400	inches	
Vs=deltaV*Area			
Vs=	933.3333	Ft^3	
5. Calculate Volume per Drywell:			
Vw=PI*r^2*height			
Thickness of Stone=	2.0000	feet	
Thickness of drywell wall=	0.5000	foot	
Diameter of drywell=	6.0000	feet	
Height of drywell=	4.0000	feet	
Vw=	158.9646	Ft^3	
6. Calculate 24-hour percolation volume per drywell(Vp):			
Vp=side surface area of drywell*soil percolation rate(Sr)			
Vp=PI*D*h*Sr			
Vp=	74.3738	Ft^3/day/drywell	
*Note: Sides not included, only though bottom			
7. Calculate the total 24-hour Volume per drywell (Vt):			
Vt=Volume of drywell(Vw)percolation volume(Vp)			
Vt=	233.3384	Ft^3	
8. Determine number of drywells required (DWr):			
DWr=Req. Volume of Storage(Vs)/Total Vol. per Drywell(Vt)	4		
DWr=	USE	4	

DATE	REVISIONS

PARKING LAYOUT
FOR
36 COLONIAL AVENUE
208-1-3
LOCATED IN THE
VILLAGE OF WARWICK
ORANGE COUNTY, NEW YORK

PAUL GDANSKI P.E., PLLC
3512 WHITTIER COURT
MAHWAH, N.J. 07430
TEL: (917) 418-0999
EMAIL: PGSKI@EARTHLINK.NET

FILE	36COLONIAL
DATE	AUG. 15, 2025
SCALE	1" = 20'
DWG	2 OF 8

EM 6/6/22