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**Building #17**  
Campus Expansion Child  
Day-care Center

899 Old Saw Mill River Road  
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

**Gensler**

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 452-1400 Phone  
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Structural Engineer

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120 Broadway, 15th Floor  
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(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates  
498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

JMC  
120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-2102 Fax

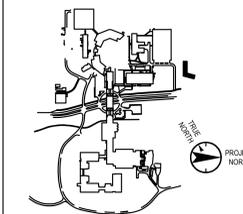
Landscape Architect

Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
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Geotechnical Engineer

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61 Main Street  
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(732) 432-5717 Fax

Key Plan



No.	Date	Description
0	05.13.2022	100% CONSTRUCTION DOCUMENTS
0	05.20.2022	ISSUED FOR PERMIT
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

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Vendor Name: Carlin-Simpson & Associates, LLC  
Vendor Project No.: 20-155  
Discipline: Geotechnical Drawn By: MRA

**PAVEMENT DRAINS & POND DRAIN BLANKET**

Scale: AS SHOWN Floor:

**GT-400**

**PAVEMENT DRAIN AND POND DRAINAGE BLANKET NOTES**

**A. GENERAL NOTES**

1. GENERAL LAYOUT FOR THE DRAINAGE PLANS WAS OBTAINED FROM DRAWINGS THAT WERE PREPARED BY JMC PLLC, WHICH INCLUDE THE FOLLOWING:

- GRADING PLAN (C-200)
- UTILITIES PLAN (C-300)

2. CONTRACTOR SHALL REFER TO CIVIL DRAWINGS FOR GRADING, EXTERIOR UTILITIES, AND STORMWATER STRUCTURE DETAILS.

3. CONTRACTOR SHALL HAVE AN APPROVED SET OF CONSTRUCTION DRAWINGS, SHOP DRAWINGS, AND SPECIFICATIONS ON SITE AT ALL TIMES DURING CONSTRUCTION.

4. ALL OF THE WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND CITY CODES, REGULATIONS, AND REQUIREMENTS. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

5. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING CONSTRUCTION SUBMITTALS (MINIMUM) TO CARLIN-SIMPSON & ASSOCIATES LLC AND THE OWNER'S REPRESENTATIVE: 1) A DETAILED DESCRIPTION OF THE PROPOSED CONSTRUCTION PROCEDURE, INCLUDING EXCAVATION SEQUENCE AND TECHNIQUES; 2) A DEWATERING PLAN AND THE TEMPORARY DISCHARGE LOCATION(S); 3) SHOP DRAWINGS FOR SUPPORT OF EXCAVATION (SOE) AND/OR DEWATERING SYSTEMS, IF APPLICABLE; AND 4) MATERIALS TO BE USED IN THE SLOPE DRAINAGE AND STABILIZATION SYSTEM. WORK SHALL NOT BEGIN UNTIL THE APPROPRIATE SUBMITTALS HAVE BEEN RECEIVED, REVIEWED, AND ACCEPTED IN WRITING BY THE ENGINEER.

**B. POND DRAINAGE BLANKET**

1. THE DRAINAGE BLANKET SHALL CONSIST OF 18-INCHES OF CLEAN CRUSHED STONE INSTALLED FROM ELEVATION +200.0 TO ELEVATION +215.0 TO THE HORIZONTAL LIMITS SHOWN ON THE DRAINAGE BLANKET LOCATION PLAN.

2. A CRUSHED STONE BASE SHALL ALSO BE CONSTRUCTED AT THE TOE OF THE SLOPE AS SHOWN ON THE DRAINAGE BLANKET DETAIL.

3. THE CLEAN CRUSHED STONE FOR THE DRAINAGE BLANKET AND THE BASE SHALL MEET AASHTO #3 OR EQUIVALENT. A TYPICAL GRADATION IS AS FOLLOWS:

SIZE	% PASSING
2.5-INCH	100
2.0-INCH	90-100
1.5-INCH	35-70
1.0-INCH	0-15
0.5-INCH	0-5

4. A LAYER OF GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE SUBGRADE SOIL AND THE CRUSHED STONE TO PREVENT SOIL MIGRATION INTO THE CRUSHED STONE. ADJACENT FILTER FABRIC PANELS SHALL OVERLAP BY A MINIMUM OF 12 INCHES.

5. THE GEOTEXTILE FILTER FABRIC SHALL BE ANCHORED AT THE TOP OF THE DRAINAGE BLANKET AS SHOWN IN THE DRAINAGE BLANKET DETAIL.

**C. PAVEMENT UNDERDRAINS**

1. PAVEMENT UNDERDRAINS (AKA FINGER DRAINS) SHALL BE INSTALLED AT SELECT STORMWATER STRUCTURES AS SHOWN ON THE OVERALL DRAINAGE PLAN (GT-100).

2. EACH UNDERDRAIN PIPE SHALL EXTEND A MINIMUM OF 25 FEET FROM THE STRUCTURE.

3. THE DRAINPIPES SHALL CONSIST OF FOUR (4) INCH DIAMETER RIGID WALL PERFORATED PVC PIPES WITH HOLES FACING DOWN, PLACED AT THE BOTTOM OF 24 INCHES OF 3/4-INCH CLEAN CRUSHED STONE GRAVEL.

4. THE PIPE SHALL CONSIST OF SCHEDULE 40 PVC.

5. A LAYER OF GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE SUBGRADE SOIL AND THE CRUSHED STONE TO PREVENT SOIL FROM CLOGGING THE PIPES. THE EDGES OF THE FILTER FABRIC SHALL BE FOLDED ON TOP OF THE CRUSHED STONE FILL. ADJACENT FILTER FABRIC PANELS SHALL OVERLAP BY A MINIMUM OF 12 INCHES.

6. REFER TO THE TYPICAL PAVEMENT DRAIN DETAIL FOR MORE INFORMATION.

7. PAVEMENT UNDERDRAIN PIPE LOCATIONS MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH OTHER UTILITIES AND STRUCTURES PROVIDED THAT THE LOCATIONS ARE APPROVED BY THE GEOTECHNICAL ENGINEER.

**D. QUALITY ASSURANCE AND INSPECTION**

1. THE OWNER SHALL RETAIN, AT THEIR COST, CARLIN-SIMPSON & ASSOCIATES LLC TO PERFORM QUALITY ASSURANCE INSPECTION AND MONITORING SERVICES RELATED TO THE INSTALLATION OF PAVEMENT UNDERDRAINS, THE BLANKET DRAINAGE SYSTEM, AND THE CONSTRUCTION OF THE SOIL SLOPES.

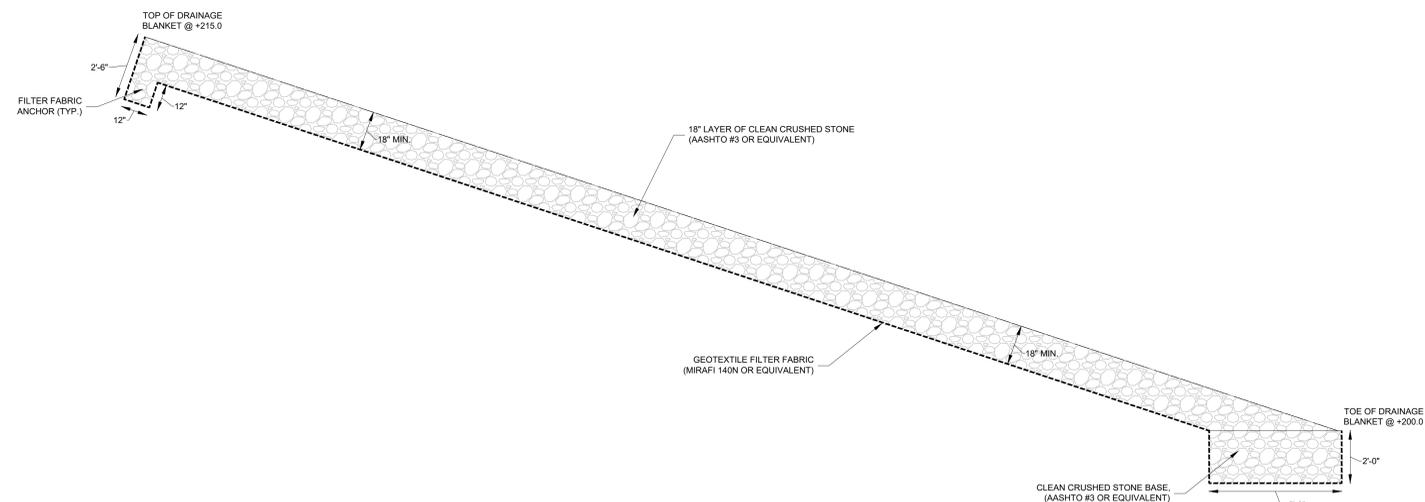
2. CONTRACTOR SHALL ARRANGE FOR AND SCHEDULE ALL REQUIRED INSPECTIONS.

3. THE ABOVE FIELD INSPECTION AND MONITORING WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET THE MORE STRINGENT OF THE CONSTRUCTION DRAWINGS, MANUFACTURER'S REQUIREMENTS, AND THE PROJECT SPECIFICATIONS.

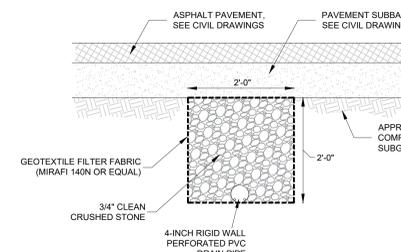
4. CONTRACTOR SHALL TAKE PROMPT ACTION TO PREVENT OR CORRECT ANY CONDITIONS WHICH HAVE RESULTED OR COULD RESULT IN THE SUBMITTAL TO ENGINEER OF ITEMS OR SERVICES WHICH DO NOT CONFORM TO THE QUALITY PERFORMANCE OF THE CONTRACT, THE TESTS SPECIFIED IN THE CONTRACT AND OTHER TESTS AS MAY BE REQUIRED TO SUBSTANTIATE CONFORMANCE.



**POND DRAINAGE BLANKET LOCATION PLAN**  
SCALE: 1" = 15'



**POND DRAINAGE BLANKET DETAIL**  
3/8" = 1'-0"



**TYP. PAVEMENT UNDERDRAIN DETAIL**  
3/4" = 1'-0"