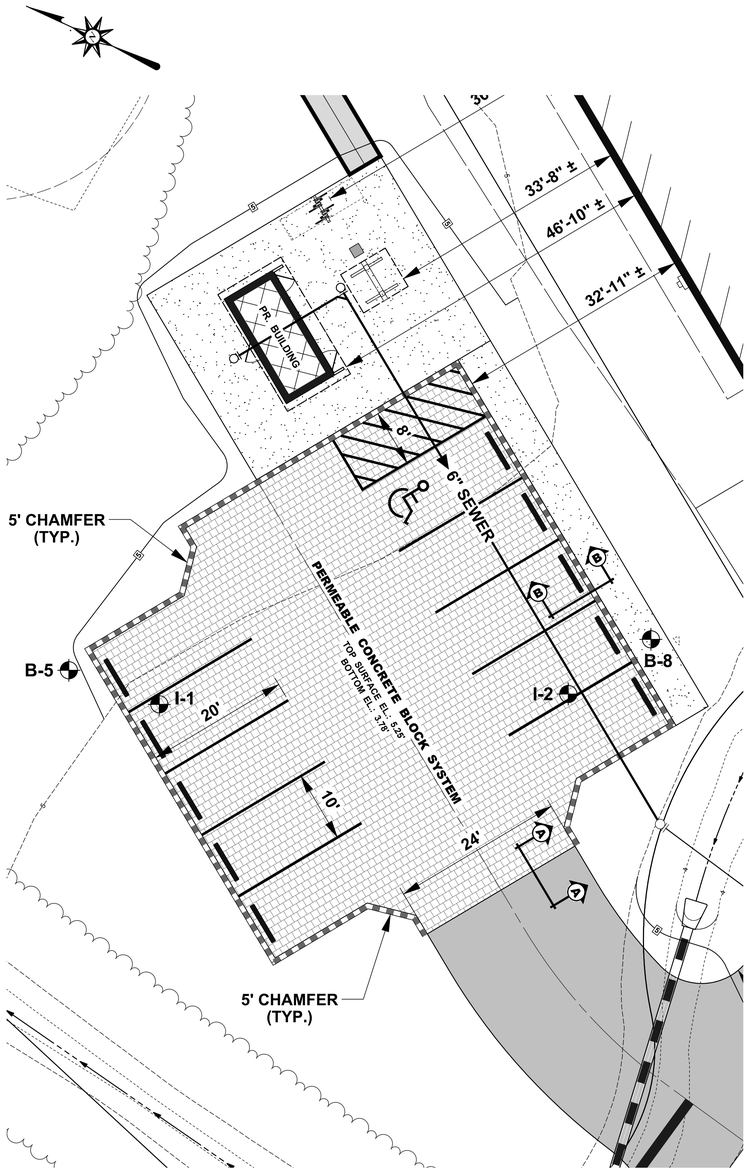


PERMEABLE ARTICULATING CONCRETE BLOCK - PARKING AREA - PLAN VIEW

SCALE : 1" = 10'

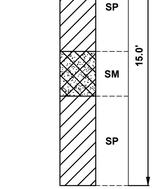
LOCATION - I-1
SURFACE EL.: 5.0' ±
HYDRAULIC CONDUCTIVITY: 3.50 IN/HR

LOCATION - I-2
SURFACE EL.: 5.3' ±
HYDRAULIC CONDUCTIVITY: 4.75 IN/HR

NOTE:

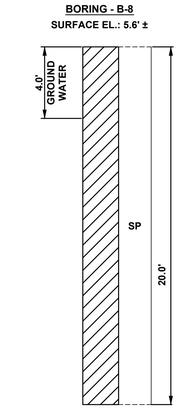
1. **SINGLE-RING, FALLING HEAD INFILTRATION TESTING WAS PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 5126.**
2. **A HYDRAULIC CONDUCTIVITY OF 2.0 IN/HR WAS USED FOR THE DESIGN OF THIS FACILITY.**

INFILTRATION TESTING



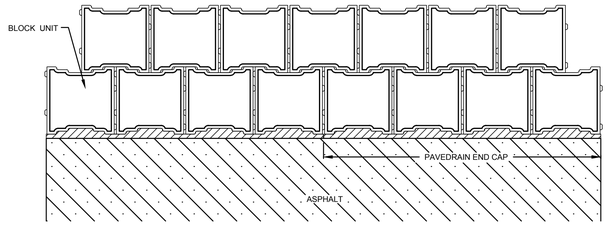
SOIL BORING (B-5)

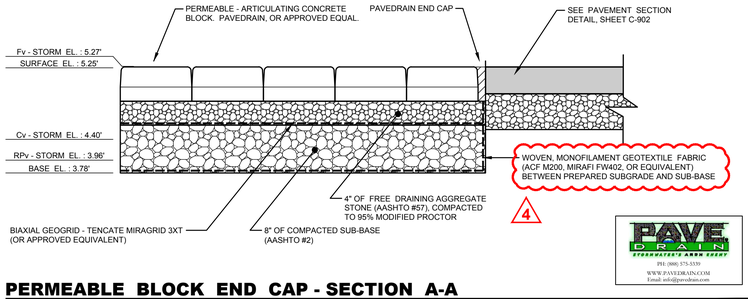
SCALE : 1" = 4' VERTICAL



SOIL BORING (B-8)

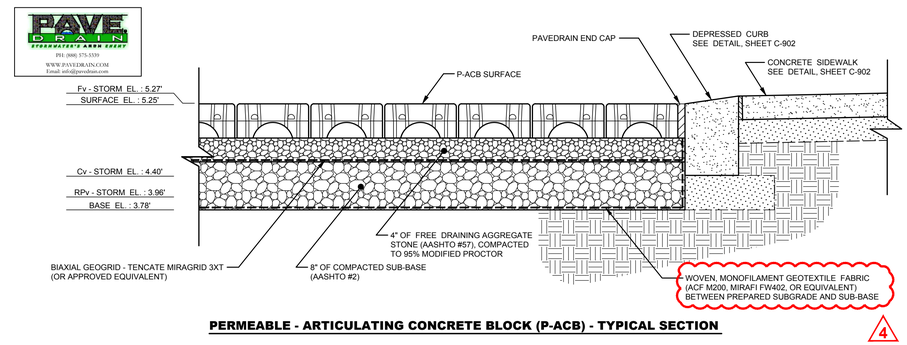
SCALE : 1" = 4' VERTICAL





PERMEABLE BLOCK END CAP - SECTION A-A

SCALE: 1" = 1'



PERMEABLE - ARTICULATING CONCRETE BLOCK (P-ACB) - TYPICAL SECTION

PERMEABLE BLOCK END VIEW - SECTION B-B

SCALE: 1" = 1'

4 1. NON-WOVEN SEPARATION FABRIC REVISED TO WOVEN MONOFILAMENT PER MANUFACTURER'S RECOMMENDATIONS.

PERMEABLE BLOCK MAINTENANCE ITEMS AND FREQUENCY

FREQUENCY	MAINTENANCE ITEMS
DURING ESTABLISHMENT, AS NEEDED (FIRST YEAR)	• INSPECT THE SITE AFTER STORM EVENT THAT EXCEEDS 0.5 INCHES OF RAINFALL. • STABILIZE ANY BARE OR ERODING AREAS IN THE CONTRIBUTING DRAINAGE AREA • INSPECT BI-MONTHLY TO ASSESS THE AMOUNT OF INFILTRATION STILL OCCURRING. IDEALLY, THE VISUAL INSPECTION SHOULD OCCUR DURING A RAIN EVENT.
QUARTERLY OR AFTER MAJOR STORMS (>1 INCH OF RAINFALL)	• REMOVE ANY HEAVY DEBRIS, SOIL OR SEDIMENT DEPOSITED ON THE SURFACE. • INSPECT SYSTEM TO ASSESS THE AMOUNT OF INFILTRATION STILL OCCURRING. IDEALLY, THE VISUAL INSPECTION SHOULD OCCUR DURING A RAIN EVENT.
ONCE EVERY 2 YEARS OR IF CLOGGED	• REMOVE ANY HEAVY DEBRIS, SOIL OR SEDIMENT DEPOSITED ON THE SURFACE. • SPRAY ANY EXISTING VEGETATION WITH AN APPROPRIATE VEGETATION KILLER. • VACUUM PERMEABLE BLOCKS WITH PAVEDRAIN VAC HEAD. VAC HEAD CAN BE ATTACHED TO STANDARD COMBINATION SANITATION TRUCK WITH 1,500 GALLON WATER TANK. CONTACT ACF ENVIRONMENTAL FOR EQUIPMENT (JOHN EASOM, 302-420-0009)

CONSTRUCTION SEQUENCE FOR PERMEABLE BLOCK INFILTRATION SYSTEM

1. NOTIFY THE PERSON RESPONSIBLE FOR STORMWATER SYSTEM CONSTRUCTION REVIEW, A MANUFACTURER'S REPRESENTATIVE AND THE ENGINEER AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE STORMWATER SYSTEM CONSTRUCTION; STORMWATER FACILITIES MUST BE REVIEWED THROUGHOUT CONSTRUCTION. MANUFACTURER SUPERVISION FEE IS THE RESPONSIBILITY OF THE CONTRACTOR.
2. REMOVE TIMBER CONSTRUCTION MATS PROTECTING THE SOILS FROM COMPACTION.
3. EXCAVATE PERMEABLE CONCRETE BLOCK AREA PER THE APPROVED PLANS. STORE EXCAVATED MATERIAL AT THE APPROVED TEMPORARY SOIL STOCKPILE AREA. LOCATION TO BE DETERMINED DURING THE PRE-CONSTRUCTION MEETING.
4. INSTALL PROPOSED CONCRETE PERIMETER CURBING AND OPEN GRADED BASE & BEDDING COURSE AGGREGATE IN ACCORDANCE WITH THE APPROVED PLANS, PROJECT SPECIFICATIONS AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
5. OPEN GRADED BASE MATERIALS MUST BE FREE OF FINES. CONTRACTOR SHALL TAKE CARE NOT TO TRACK SOIL ONTO THE GEOSYNTHETIC OR ALLOW SEDIMENT TO WASH INTO THE EXCAVATION AREA DURING CONSTRUCTION.
6. STONE SHALL BE PLACED ON THE APPROPRIATE GEOGRID OR GEOSYNTHETIC AND COMPACTED ACCORDINGLY. A VIBRATORY PLATE COMPACTOR IN BOTH DIRECTIONS IS BEST FOR COMPACTION OF THE FINAL LAYER OF AASHTO #57 THAT WILL BE IN DIRECT CONTACT WITH THE BOTTOM OF THE BLOCK UNITS. THERE SHOULD BE NO VISIBLE MOVEMENT OF THE MATERIAL ONCE COMPACTED AND THE BASE SHALL BE SMOOTH WHEN COMPLETED.
7. PAVEDRAIN UNITS SHALL BE INSTALLED VIA HAND-PLACEMENT.

DATE: DESCRIPTION: BY:

DATE:	DESCRIPTION:	BY:
10-15-14	ISSUED FOR BIDDING	J.S.F.
11-25-14	ADDENDUM NO. 3	
12-12-14	ADDENDUM NO. 4	

ASSAWOMAN CANAL TRAIL - PHASE 1

SEDIMENT AND STORMWATER NOTES & DETAILS

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Dover, DE 19904
Ph. 302.734.7950
Fax 302.734.7965

DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

DESIGNED BY: J.S.F.

DRAWN BY: J.S.F.

BUILDING NO.: N/A

DATE: 02\12\2014

SCALE: AS SHOWN

SHEET NO.: C-505

PARKS PROJECT #: HL-10A

CONTRACT #: 2014-HL-100