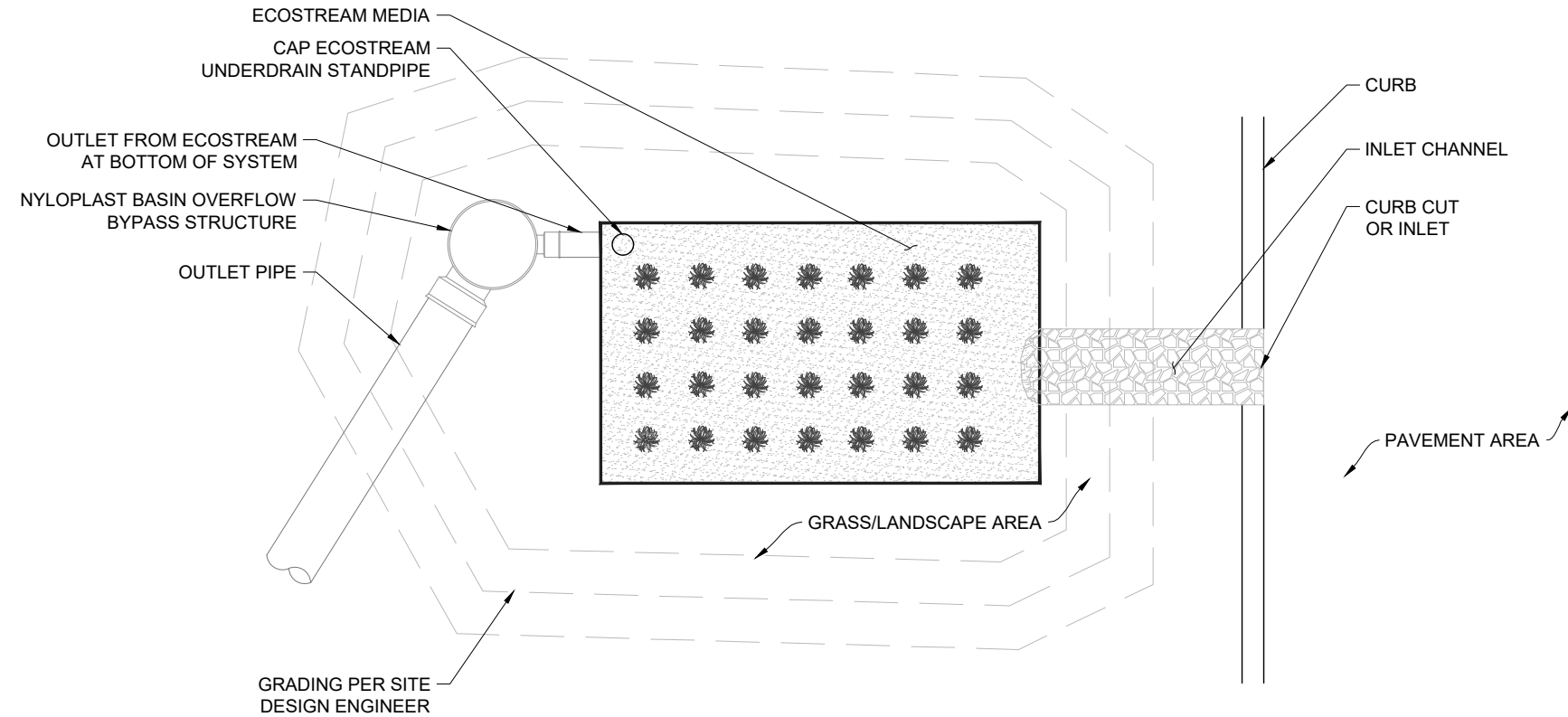


ECOSTREAM BIOFILTER			
UNIT	FILTER AREA (FT <sup>2</sup> )	MAX TREATMENT FLOW RATE (CFS)	MAX ALLOWABLE DRAINAGE AREA* (ACRES)
ES48B	48	0.441	1.354
ES60B	60	0.551	1.693
ES72B	72	0.662	2.032
ES80B	80	0.735	2.257
ES91B	91	0.836	2.568**
ES96B	96	0.882	2.709**
ES100B	100	0.919	2.822**
ES112B	112	1.029	3.160**
ES120B	120	1.103	3.386**
ES128B	128	1.176	3.612**
ES144B	144	1.323	4.063**
ES160B	160	1.470	4.515**
ES168B	168	1.544	4.740**
ES176B	176	1.618	4.966**
ES225B	225	2.068	6.349**
ES256B	256	2.353	7.223**
ES289B	289	2.656	8.155**
ES324B	324	2.978	9.142**
ES360B	360	3.309	10.158**

\* DRAINAGE AREA IS BASED ON 16.93 LB./FT<sup>2</sup>/ (270.8 LB./16 FT<sup>2</sup>) OF EFFECTIVE FILTRATION TREATMENT AREA AND THE EQUATION IN THE NJDEP FILTRATION PROTOCOL APPENDIX, WHERE DRAINAGE AREA IS CALCULATED BASED ON 600 LBS. OF MASS CONTRIBUTED PER ACRE OF DRAINAGE AREA ANNUALLY.  
 \*\* NJDEP REGULATIONS LIMIT THE CONTRIBUTORY DRAINAGE AREA FOR GI MTD'S TO 2.5 ACRES.

### ECOSTREAM BIOFILTER

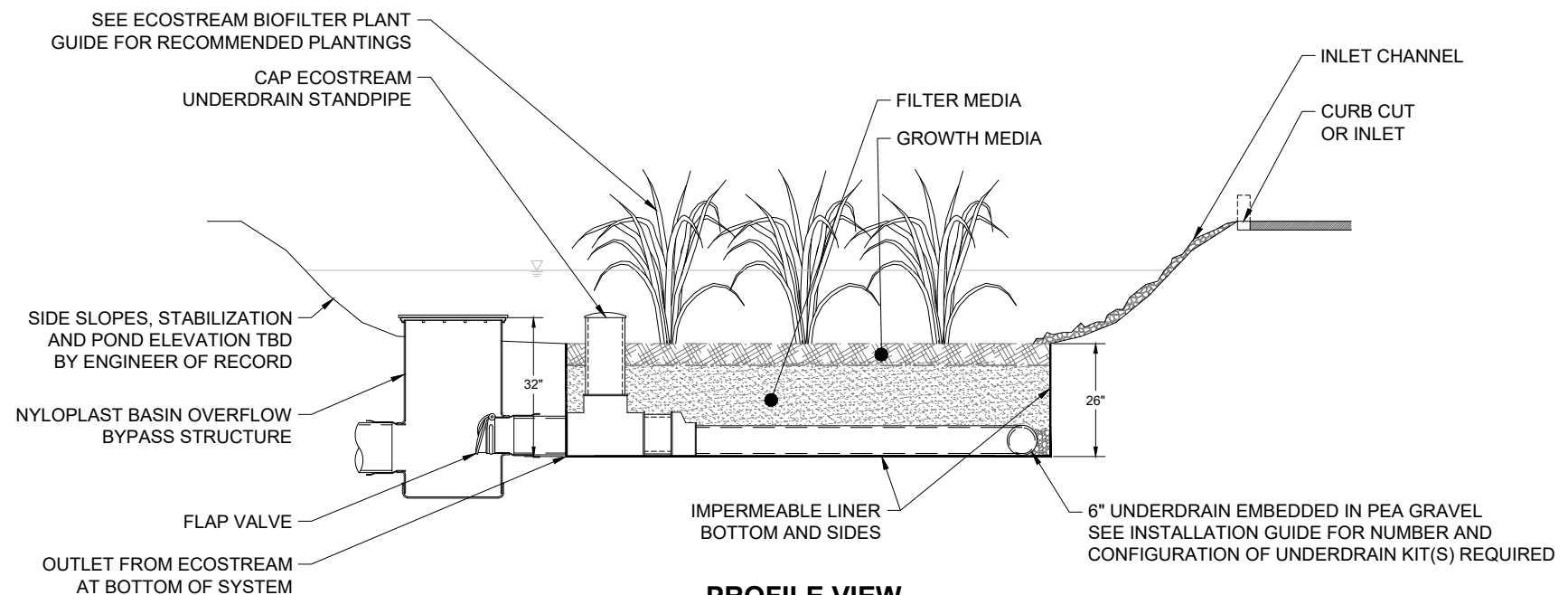
- THE ECOSTREAM BIOFILTER IS A BIOFILTRATION STORMWATER TREATMENT TECHNOLOGY THAT RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL AND GREASE, TRASH AND BACTERIA.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND FINALIZE GRADING TO MEET SITE CONDITIONS.
- THE SITE DESIGN ENGINEER MUST REVIEW THE INLET CHANNEL AND FINALIZE THE DESIGN TO MEET SITE CONDITIONS.
- WATER SURFACE ELEVATION ESTIMATED BASED ON THE INLET CAPACITY OF THE NYLOPLAST GRATE AND THE PROVIDED BYPASS FLOW RATE PER THE SITE DESIGN ENGINEER. SITE DESIGN ENGINEER MUST REVIEW THE WATER SURFACE ELEVATION AND FINALIZE THE DESIGN TO MEET THE PROJECT DESIGN PARAMETERS.
- ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.
- ADS DOES NOT RECOMMEND PLACING THE LINED ECOSTREAM SYSTEM IN THE WATER TABLE. FOR ASSISTANCE PLEASE CONTACT ADS ENGINEERING SERVICES.



**PLAN VIEW**  
NTS

INTEGRATED BYPASS			
BASIN	GRATE	BYPASS (CFS)	HEAD REQ. (IN)
15	DOME	1.61	3
		2.28	12
		2.79	18
	FLAT	1.22	6
		1.73	12
18	DOME	2.12	18
		2.32	6
		3.23	12
	FLAT	4.02	18
		1.54	6
		2.18	12
24	DOME	2.67	18
		3.57	6
		5.05	12
	FLAT	6.19	18
		2.57	6
		3.63	12
30	DOME	4.45	18
		4.70	6
		7.65	12
	FLAT	9.37	18
		4.28	6
		6.05	12
		7.41	18

CALCULATIONS BASED ON USDOT/FHWA URBAN DESIGN MANUAL, HYDRAULIC ENGINEERING CIRCULAR NO. 22 THIRD EDITION, PUBLICATION NO FHWA-NHI-10-009, AND A 50% CLOGGING FACTOR.



**PROFILE VIEW**  
NTS

ECOSTREAM  
LINED UNIT OPTION  
BASIC MEDIA

DATE: 10/11/24 DRAWN: JLM CHECKED: AT  
DRAWING #: 571-010

DATE	DRWN	CHKD	DESCRIPTION

**EcoStream™ Biofilter**  
Stormwater Media Filters

4640 TRUEMAN BLVD  
HILLIARD, OH 43026



THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.