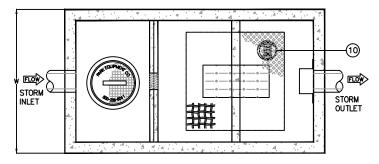
STORMTROOPER, U.S. PATENT 7,470,361



PLAN VIEW

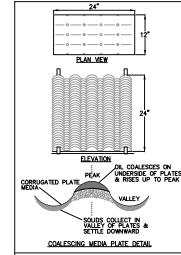
GENERAL INFORMATION STORMWATER INTERCEPTORS ARE UTILIZED TO REDUCE NON-POINT SOURCE POLLUTION ASSOCIATED WITH OIL AND SEDIMENT. THE INTERCEPTOR IS DESIGNED TO ALLOW FOR THE DETAINMENT OF SETTLABLE & FLOATABLE SOLIDS & LIQUIDS

GUARANTEED PERFORMANCE PRE-ENGINEERED COALESCING MEDIA PACKS ARE UTILITZED FOR ENHANCED ARE UTILIZED FOR ENHANCED SEPARATION WHICH PROVIDE SUPERIOR PERFORMANCE COMPARED TO OTHER SEPARATORS WHICH UTLILIZE BAFFLES OR

MAINTENANCE

THE INTERCEPTOR SHOULD BE INSPECTED ON A REGULAR BASIS TO DETERMINE PROPER OPERATION AND CLEANING. THE STORMTROOPER HAS BECOME KNOWN IN THE INDUSTRY AS THE "EASIEST TO MAINTAIN." HATCHWAY DESIGN MAKES INSPECTION AND VAULT ENTRY ACCESSIBLE FOR MAINTENANCE.

ALL COMPARTMENTS ALLOW FOR THE LARGER HOSE ASSOCIATED WITH VACTOR TRUCK PUMP OUT. MAINTENANCE INSTRUCTIONS AND LOGS ARE AVAILABLE FROM PARK ENGINEERING.

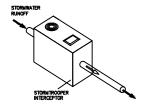


COALESCING PLATE OPERATION

COALSCING PLAIT. OPERATION

THE COALESCING MEDIA PACKTIN CONSISTS OF CLOSELY SPACED
CORRUGATED PLAITES MANUFACTURED WITH AN OLEOPHILIC
COLLATIFACTION MATERIAL. THE PHENTED PLAITES AREA MA
ENHANCED VERSION OF THE PLAITES UTILIZING THE ROYAL
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OIL SOURCE ALMINAR FLOW CONDITIONS, BUDYANCY FORCES CAUSE
OIL DROPLETS TO RISE UNIT. HEYE ADHERE THEMSELVES TO THE
OLEOPHILIC PLAITES. SMALL OIL DROPLETS TEND TO COALESCE
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PLUID FLOW CONSTANTLY CHANGES DIRECTION FROM A FLUID FLOW CONSTANTLY CHANGES DIRECTION FROM A DOWNWARD PATH TO A VERTICAL PATH. THE COALESCING OIL RISES TO THE SURFACE IN LARGE GLOBULES THROUGH WEEP HOLES OR GUTTERS IN THE COALESCING PLATE PACK.

	KEYED NOTES		
	MARK	QTY	DESCRIPTION
	1	1	36" X 36" GALV. STEEL FRAME & COVER, RATED FOR H20 TRAFFIC LOADING W/ SAFETY NET (CAST IN OR LOOSE)
	2	1	DUCTILE IRON RING/ COVER
	3	1	GALV. STEEL TRASH SCREEN
	4	1	WATER QUALITY ORIFICE
	5	1	BITUMASTIC EXTERIOR COATING
	6	1	CONTROL BAFFLE
	7	1	EFFLUENT BAFFLE W/ ANTI-SIPHON
	8	1	COALESCING MEDIA PACK (SEE DETAIL)
	9	1	MONOLITHIC BAFFLE
	10	-	NAMEPLATE: MFG: PARKUSA 888-611-PARKU WWW.PARKUSA.COM MODEL: SWAQ-XX DATE MANUFACTURED



TOTAL MAX
SURFACE EFFECTIVE LENGTH
DRAINAGE L DIMENSIONS WIDTH HEIGHT MINIMUM MODEL RATE SETTLING NO. (SQ FT) (ACRES) (apm) DEPTH SWAQ-05 100 0.13 7'-10" 4'-4" 7'-0" 4'-0" SWAQ-10 600 8'-8" 5'-0" 7'-0" 4'-0" 1000 248 SWAQ-20 0.33 11'-0" 6'-0" 7'-6" 4'-0" SWAQ-25 1440 369 0.50 13'-0" 7'-0" | 8'-0" | 4'-0" 2250 588 0.79 SWAQ-40 16'-0" 8'-6" 8'-0" 4'-0" SWAQ-70 2720 730 0.98 18'-0" 9'-0" 6'-10" 4'-0" SWAQ-110 4000 913 1.23 21'-2" 11'-2" 6'-10" 4'-0"

STORM FLOW FLOW INLET STORM OUTLET (3) (4) **(5)** (6)

ELEVATION

SPECIFICATIONS

CONCRETE: DESIGN STRENGTH OF 4500 PSI AT 28 DAYS.

UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER

TO REQUIRED DEPTH.

GRADE 60 REINFORCED WITH STEEL #4 REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL. REINFORCEMENT:

MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536, AASHTO M306, & AASHTO M105 D.I. CASTINGS:

STANDARDS. MANHOLE SHALL BE NOMINAL 24" DIAMETER AND BE TRAFFIC DUTY.

HATCHWAYS: GALVANIZED STEEL SKID-RESISTANT DOUBLE LEAF

H-20 RATED.

ENGINEERING DATA

INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO UNIFORM PLUMBING CODE. NOMINAL CAPACITY AS INDICATED. FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN.









STORMWATER INTERCEPTOR MODEL SWAQ 05 THRU 110

DRN ENG DWG. NO. PC DATE

2023

SWAQ-1

REV.

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