

Project: Singing River Mall Property Stormwater
 6/10/2024



Opinion of Probable Cost

Part "A" Construction Costs

Pay Item	Unit	Quantity	Unit Price	Total
Mobilization	LS	1	\$275,000.00	\$275,000.00
Traffic Control	LS	1	\$5,000.00	\$5,000.00
Temporary Silt Fence	LF	1200	\$5.00	\$6,000.00
Wattles	LF	750	\$8.50	\$6,375.00
Select Bedding	CY	550	\$120.00	\$66,000.00
Geotextile Filter Fabric	SY	975	\$8.00	\$7,800.00
Unclassified Excavation	CY	1750	\$17.00	\$29,750.00
Size "610" Limestone	CY	500	\$120.00	\$60,000.00
36" Reinforced Concrete Pipe	LF	2100	\$150.00	\$315,000.00
30" Reinforced Concrete Pipe	LF	1950	\$135.00	\$263,250.00
18" Reinforced Concrete Pipe	LF	7900	\$95.00	\$750,500.00
Tie in to Existing Manhole / Drainage Structure	EA	4	\$2,500.00	\$10,000.00
Class B Structural Concrete, Minor Structures	CY	350	\$1,450.00	\$507,500.00
Reinforcing Steel	LBS	6500	\$3.50	\$22,750.00
Castings and Gratings	LBS	7750	\$7.00	\$54,250.00
Stormwater Filtration Basin	EA	4	\$20,000.00	\$80,000.00

Part "B" Engineering Fees

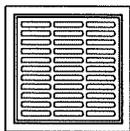
Geotechnical Investigation and Reporting	\$7,500.00
Design Surveys	\$25,000.00
Engineering Design	\$300,000.00
Construction Administration & RPR	\$150,000.00

Total Project Cost = **\$2,941,675.00**

KRAKEN FILTER DESIGN NOTES

- KRAKEN FILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA SPECIFIC FLOW RATE.
- A 6' x 12' OFFLINE STYLE KRAKEN FILTER IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (64).
- ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS NOTED OTHERWISE.

CARTRIDGE SIZE	30"	20"	10"
RECOMMENDED HYDRAULIC DROP (ft)	38.5"	28.5"	18.5"
SPECIFIC FLOW RATE (gpm/sf)	0.10	0.10	0.10
CARTRIDGE FLOW RATE (gpm)	17	10.6	4.9



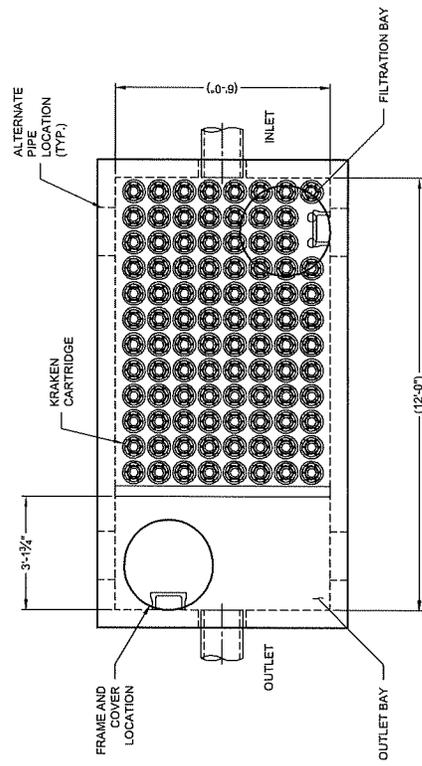
FRAME AND GRATE
(SIZE MAY VARY)
(NOT TO SCALE)



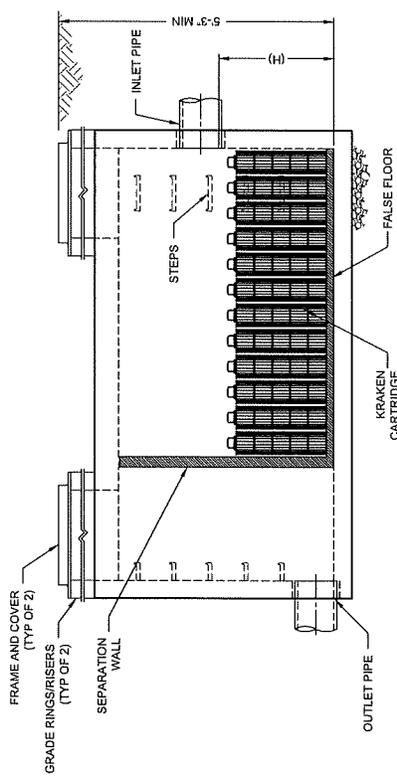
FRAME AND COVER
(30" ROUND)
(NOT TO SCALE)

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (g/s)	
CARTRIDGE FLOW RATE	
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	
NUMBER OF CARTRIDGES REQUIRED	
INLET BAY RIM ELEVATION	
FILTER BAY RIM ELEVATION	
PIPE DATA:	
INLET PIPE 1	INVERT MATERIAL DIAMETER
INLET PIPE 2	
OUTLET PIPE	
NOTES/SPECIAL REQUIREMENTS:	



PLAN



ELEVATION

- GENERAL NOTES**
- ALL MATERIALS PROVIDED ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH (T) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.conteches.com
 - KRAKEN FILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 10' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- INSTALLATION NOTES**
- ANY SUB-BASE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE KRAKEN FILTER STRUCTURE.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING US PATENTS: 9,804,160; 10,307,696; 10,389,498; 11,260,321; RELATED FOREIGN PATENTS OR OTHER PATENT PENDING

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KFOV0612 (6' x 12')
OFFLINE KRAKEN FILTER
STANDARD DETAIL