

ATTACHMENT B - ENGINEER'S CONCEPTUAL COST ESTIMATE, BARNSTABLE					
TOWN : Barnstable, MA					
PROJECT: Subsurface Gravel Wetland					
ITEM #	Item Description / Notes	QTY.	UNIT	UNIT \$ PRICE	TOTAL \$ VALUE
<b>Item 1 - Mobilization and Erosion Controls</b>		<b>\$12,000</b>			
1A	Mobilization, Demobilization and Travel	1	LS	\$10,000	\$10,000
1B	Erosion Controls - As Needed, Assume 100 LF	100	FT	\$20	\$2,000
<b>Item 2 - Excavation and Gravel Wetland Construction</b>		<b>\$30,605</b>			
2A	Strip Topsoil for Reuse - Assume 6" Deep, 65% Usable	55	CY	\$16	\$880
2B	Site Excavation - Regrade Site and Dig Gravel Wetland	325	CY	\$27	\$8,775
2C	Excavation Dewatering	1	LS	\$3,000	\$3,000
2D	Geotextile Fabric for Separation	400	SY	\$8	\$3,200
2E	Crushed Stone - Place 30" Layer at Bottom of Gravel Wetland	250	TON	\$50	\$12,500
2F	Wetland Soils - Place 8" Layer on Top of Gravel Wetland	50	CY	\$45	\$2,250
<b>Item 3 - Drainage Structures</b>		<b>\$9,985</b>			
3A	Outlet Control Structure - RCP, 4' Diameter	1	EA	\$3,600	\$3,600
3B	Manhole - RCP, 4' Diameter	1	EA	\$3,300	\$3,300
3C	Frame and Cover - Assume 1 per Above	2	EA	\$750	\$1,500
3D	Crushed Stone - Placed Below Drainage Structures	20	TON	\$38	\$760
3E	Trench Excavation - Assume 20 LF, 4' Wide, Average 4 FT Deep	20	CY	\$25	\$500
3F	Riprap - Place 12" Layer at Inlet Pipe	5	TON	\$65	\$325
<b>Item 4 - Piping</b>		<b>\$4,000</b>			
4A	Pipe Removal - Assume 40 LF of 24" Pipe Removal	40	LF	\$20	\$800
4B	24" RCP Pipe - Assume Used for Drainage Tie-In	20	LF	\$100	\$2,000
4C	24" RCP Flared End - Placed at Inlet Manhole	1	EA	\$1,200	\$1,200
<b>Item 5 - Site Restoration</b>		<b>\$5,975</b>			
5A	Loam Borrow - Additional Loam Needed	30	CY	\$45	\$1,350
5B	Topsoil Rehandled and Spread - Spread New and Stacked Loam	85	CY	\$25	\$2,125
5C	Seeding - Basin Mix and Restoration Mix	500	SY	\$5	\$2,500
<b>Item 6 - Miscellaneous</b>		<b>\$3,000</b>			
6A	Police Detail and Pedestrian Control	1	LS	\$3,000	\$3,000

SUBTOTAL FROM ABOVE= \$65,565

15% CONTINGENCY= \$9,835

TOTAL= \$75,400

SAY \$76,000