

RENEWABLE WATER RESOURCES
FY18 Gravity Sewer and Manhole Rehabilitation

ITEM NO.	ITEM	ESTIMATED QUANTITY		UNIT PRICE	TOTAL
1	Sewer Cleaning and Television Inspection prior to rehabilitation, as specified, any required cleaning necessary to prepare the sewer for lining with CIPP, any location, complete in place.				
	A.	8-inch diameter sewer	5,290	LF	
	B.	10-inch diameter sewer	1,746	LF	
	C.	12-inch diameter sewer	2,811	LF	
	D.	15-inch diameter sewer	2,663	LF	
	E.	18-inch diameter sewer	1,302	LF	
	F.	21-inch diameter sewer	100	LF	
	G.	24-inch diameter sewer	3,497	LF	
	H.	27-inch diameter sewer	100	LF	
	I.	30-inch diameter sewer	100	LF	
	J.	36-inch diameter sewer	245	LF	
	K.	42-inch diameter sewer	100	LF	
	2	Installing Cured-In-Place Lining, as specified, any required liner thickness, any location, complete in place.			
A.		8-inch diameter sewer	5,290	LF	
B.		10-inch diameter sewer	1,746	LF	
C.		12-inch diameter sewer	2,811	LF	
D.		15-inch diameter sewer	2,663	LF	
E.		18-inch diameter sewer	1,302	LF	
F.		21-inch diameter sewer	100	LF	
G.		24-inch diameter sewer	3,497	LF	
H.		27-inch diameter sewer	100	LF	
I.		30-inch diameter sewer	100	LF	
J.		36-inch diameter sewer	245	LF	
K.		42-inch diameter sewer	100	LF	
3		Reconnecting Existing Active Service Laterals to New Cured-In-Place Lining via an Internal Robotic Cutter, as specified, any location, any size sewer, complete in place.		52	EA

RENEWABLE WATER RESOURCES
FY18 Gravity Sewer and Manhole Rehabilitation

ITEM NO.	ITEM	ESTIMATED QUANTITY	UNIT PRICE	TOTAL
4	Replacing Service Lateral Connections, connecting to various size main sewers, any depth, in any location, including backfilling with excavated soil, and complete restoration of grassed areas, as specified and in accordance with Standard Detail SS-17, complete in place.			
	A.	New Ductile Iron Tee connection per Standard Detail SS-17 and 6 feet of new SDR 26 lateral pipe, including all required fittings and connection to existing lateral pipe, Tee connection to be Ductile Iron Pipe only (Pressure Class 350 lined with Protecto 401), Tee branch diameter to match the existing lateral diameter, connections to various size main sewer, any depth, complete in place.		
	(a)	8" X 4" or 8" X 6" DUCTILE IRON TEE	15	EA
	(b)	10" X 4" or 10" X 6" DUCTILE IRON TEE	6	EA
	(c)	12" X 4" or 12" X 6" DUCTILE IRON TEE	1	EA
	(d)	16" X 4" or 16" X 6" DUCTILE IRON TEE	1	EA
	B.	New lateral pipe from the end of the tee connection and 6 feet of lateral pipe (paid under Bid Item 4A) to the termination point as specified by the engineer, including all required fittings, various pipe diameters and materials, any depth, any location.		
	(a)	4" SDR 26 PVC Pipe	50	LF
	(b)	6" SDR 26 PVC Pipe	10	LF
	5	Installation of 1" thick Cementitious Mortar on existing manhole walls & benches, as specified, any location, complete in place.		
A.		Standard Cementitious Material		
(a)		Existing 4-foot diameter manholes	463	VF
(b)		Existing 5-foot diameter manholes	10	VF
(c)		Existing 6-foot diameter manholes	10	VF
B.		100% Calcium Aluminate Material		
(a)		Existing 4-foot diameter manholes	10	VF
(b)		Existing 5-foot diameter manholes	10	VF
(c)		Existing 6-foot diameter manholes	10	VF
6		For injecting grout behind and around CIPP installed through existing manholes (when CIPP remains in the invert channel); only to be paid when approved by the Engineer to seal any leaks around the CIPP and NOT for sealing active leaks prior to coating manhole walls with cementitious mortar, to be paid per gallon of grout injected, to include filing and capping sealed areas with a non-shrink grout.	50	GAL
	Subtotal (Items 1 through 6)			
7	Contingency Allowance (5%) of Subtotal			
8	Total Bid (Items 1 through 7)			