

**DEPARTMENT OF PUBLIC WORKS
AND ENGINEERING
WASTEWATER OPERATIONS BRANCH**

No. 06

WORK ORDER

Sanitary Sewer Rehabilitation By
Sliplining & Pipe Bursting Methods
Contract No. 4600009662

Wastewater File No. 4257-108 WBS No. R-000295-0022-4

Date: January 28, 2010	Work Order Number: 06
Contractor: PM Construction & Rehab L.P.	Maintenance Quadrant: SE
Council District: F	P-Map No.: T0916
Subdivision: Sharpstown	Key Map No.: 530F

As of this date, you are hereby instructed and authorized to perform the work outlined below. Said work is to be performed and accomplished in accordance with the specifications set forth in City Contract No. 4600009662. Further guidance and instructions are contained in attached map(s)/drawing(s), which are hereby made a part of this work order. Any questions regarding this work order should be directed to Mr. Jason A. Iken or Mr. David Tajadod.

Project Location: Sanitary sewers in street right-of-way, side and backlot easements bounded by Tanglewilde Dr., & Bellaire Bl. In basin KB309

Description of Work:

1. Install an 8.625-inch outside diameter polyethylene liner in the existing 6-inch sanitary sewer by method of pipe bursting; and other work described below, between the following manholes:

IMS W.O. NO.	Upstream Manhole No.	Downstream Manhole No.	Diameter (inches)	Approx. Length (feet)	Other Work Description
11279039	KB309116	KB309115	6.00	142	CTV
11279046	KB309112	KB309111	6.00	29	CTV
11279720	KB309078	KB309077	6.00	406	CTV
11279712	KB309067Z	KB309067	6.00	400	CTV
11279808	KB309023	KB309022	6.00	404	CTV
11279816	KB309015	KB309014	6.00	47	CTV
11279994	KB309013	KB309012	6.00	82	CTV
Total Length				1,510 feet	


2. Install an 8.625-inch outside diameter polyethylene liner in the existing 8-inch sanitary sewer by method of pipe bursting; and other work described below, between the following manholes:

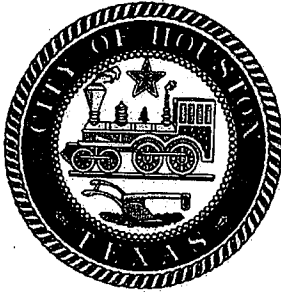
IMS W.O. NO.	Upstream Manhole No.	Downstream Manhole No.	Diameter (inches)	Approx. Length (feet)	Other Work Description
11279040	KB309115	KB309114	8.00	254	CTV

DISTRIBUTION:

- Contractor
- Inspector
- Mike Cook, P.E. - TWDB
- Weiyao Chang, P.E.
- CSO Project File
- Project Binder

ISSUED BY: CITY OF HOUSTON


 Jason A. Iken, P.E.
 Managing Engineer
 Collection Systems Operations
 Wastewater Operations Branch



**DEPARTMENT OF PUBLIC WORKS
AND ENGINEERING
WASTEWATER OPERATIONS BRANCH**

No. 06

WORK ORDER

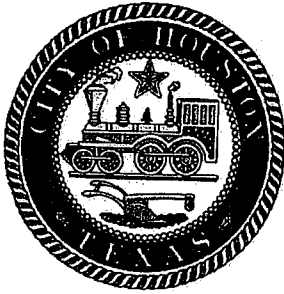
Sanitary Sewer Rehabilitation By
Sliplining or Pipe Bursting Methods
Contract No. 4600009662

Wastewater File No. 4257-108 WBS No. R-000295-0022-4

11279043	KB309114	KB309113	8.00	193	CTV
11279044	KB309113	KB309111	8.00	152	CTV
11279047	KB309111	KB309110	8.00	217	Eliminate sag
11279049	KB309110	KB309109	8.00	228	
11279051	KB309109	KB309066	8.00	175	CTV
11279052	KB309108	KB309107	8.00	313	CTV
11279054	KB309107	KB309106	8.00	320	
11279057	KB309106	KB309105	8.00	309	Eliminate sag
11279066	KB309099	KB309098	8.00	250	CTV
11279067	KB309098	KB309097	8.00	313	
11279069	KB309097	KB309096	8.00	415	CTV, Eliminate sag
11279081	KB309088	KB309087	8.00	318	
11279082	KB309087	KB309086	8.00	323	Eliminate sag
11279084	KB309086	KB309085	8.00	285	CTV, Eliminate sag
11279723	KB309059	KB309054	8.00	283	CTV
11279725	KB309054	KB309046	8.00	119	CTV
11279730	KB309053	KB309052	8.00	298	CTV
11279731	KB309052	KB309049	8.00	304	CTV
11279734	KB309051	KB309050	8.00	270	CTV
11279738	KB309050	KB309049	8.00	260	CTV
11279793	KB309045	KB309044	8.00	401	CTV
11279794	KB309044	KB309043	8.00	381	CTV
11279801	KB309043	KB309042	8.00	415	CTV
11279803	KB309042	KB309038	8.00	404	CTV
11279817	KB309014	KB309012	8.00	226	CTV
11279818	KB309012	KB309011	8.00	170	
11279820	KB309011	KB309010	8.00	85	
11279823	KB309010	KB309004	8.00	251	CTV
11279826	KB309004	KB309003	8.00	112	
11279833	KB309003	KB309002	8.00	46	
Total Length				8,090 feet	

3. Install an 10.75-inch outside diameter polyethylene liner in the existing 10-inch sanitary sewer by method of pipe bursting; and other work described below, between the following manholes:

IMS W.O. NO.	Upstream Manhole No.	Downstream Manhole No.	Diameter (inches)	Approx. Length (feet)	Other Work Description
11279060	KB309105	KB309104	10.00	362	Eliminate sag
11279062	KB309101	KB309100	10.00	359	Eliminate sag
11279063	KB309100	KB309089	10.00	316	Eliminate sag
11279071	KB309096	KB309095	10.00	334	
11279072	KB309095	KB309094	10.00	264	
11279074	KB309094	KB309093	10.00	350	
11279077	KB309091	KB309090	10.00	382	CTV



**DEPARTMENT OF PUBLIC WORKS
AND ENGINEERING
WASTEWATER OPERATIONS BRANCH**

No. 06

WORK ORDER

Sanitary Sewer Rehabilitation By
Sliplining or Pipe Bursting Methods
Contract No. 4600009662

Wastewater File No. 4257-108 WBS No. R-000295-0022-4

11279078	KB309090	KB309089	10.00	385	CTV
11279079	KB309089	KB309079	10.00	162	Eliminate sag
11279088	KB309080	KB309079	10.00	122	
11279785	KB309049	KB309048	10.00	262	CTV
11279786	KB309048	KB309047	10.00	268	CTV
11279788	KB309047	KB309046	10.00	139	
11279791	KB309046	KB309031A	10.00	168	CTV
11279813	KB309022	KB309017	10.00	75	
Total Length				3,948 feet	

4. Perform point repair to eliminate sag between the following manholes:

IMS W.O. NO.	Upstream Manhole No.	Downstream Manhole No.	Diameter (inches)	Approx. Length (feet)	Other Work Description
11279805	KB309029	KB309028	10.00	158	CTV
Total Length				158 feet	

5. Perform survey cleaning and television inspection the following manholes:

IMS W.O. NO.	Upstream Manhole No.	Downstream Manhole No.	Diameter (inches)	Approx. Length (feet)	Other Work Description
11280084	KB309079	KB309077	10.00	166	
11280086	KB309017	KB309016	10.00	164	
Total Length				330 feet	

6. The sanitary sewers listed for CTV (survey cleaning and television) under 'Other Work Description' shall have to be CTV'd and the video submitted. Upon approval by the City Engineer the Contractor shall perform the required rehabilitation.
7. During on-site evaluation of sewers by the Contractor, if any sewer segments are deemed to be rehabilitated by others (DBO), the Contractor shall submit a RFI (Request for Information) requesting approval to Clean and Televise (CTV) with site specific details. Upon approval, the Contractor shall CTV the sewer segments and submit videos to the City.
8. All service lines shall be replaced up to the right-of-way and a cleanout shall be installed at the right-of-way (both curb and gutter streets as well as asphalt streets with bar ditches). City Engineer has the authority to make changes depending on site conditions.
9. Point Repair or Obstruction Removal shall be performed, as needed, for sanitary sewers with Eliminate Sag/Eliminate Drop Joint listed under 'Other Work Description'.
10. Perform excavations on or under pavement in the City's right-of-way in accordance with the Street Cut Ordinance and the contract specifications Section 01110 Summary of Work, 1.06 Street Cut Ordinance, Paragraphs A and B.



DEPARTMENT OF PUBLIC WORKS
AND ENGINEERING
WASTEWATER OPERATIONS BRANCH

No. 06

WORK ORDER

Sanitary Sewer Rehabilitation By
Sliplining or Pipe Bursting Methods
Contract No. 4600009662

Wastewater File No. 4257-108 WBS No. R-000295-0022-4

11. Prior to locating utilities or mobilizing on any Work Order issued on this project, the Contractor shall, in coordination with Mr. David Tajadod, (713) 640-7040, schedule a meeting with the neighborhood association of the affected area to inform the resident and business owners 1) of the nature and locations of the work to be performed, 2) the anticipated dates of disruption of service, 3) street closures, and 4) potential benefit to the neighborhood. The Contractor shall at that time distribute flyers showing the Contractor's name, information in items 1-4 above, and a map of the limits of the work order area. No work will be allowed to proceed on the work order until the meeting is held with the neighborhood association or until the City Engineer has determined that it may be waived.
12. Contractor shall comply with the Ordinance Relating to Impairments and Obstruction of Roadways and Sidewalks
13. Notify affected and adjacent occupants by customer contact or by door hanger not less than 72 hours or more than 2 weeks prior to commencement of work. Notify affected and adjacent occupants in accordance with the contract specifications Section 01145 Use of Premises, 1.05 Notification to Adjacent Occupants, Paragraphs A and B and Section 01145-S Use of Premises, 1.05 Notification to Adjacent Occupants, Paragraph D.
14. Complete site restoration within 21 calendar days of having disturbed over 50% of total project linear footage, or 2,000 linear feet, whichever is greater. Complete site restoration in accordance with the contract specifications Section 01740 Site Restoration, 1.05 Scheduling, Paragraph C and Section 01740-S Site Restoration, 1.05 Scheduling, Paragraph D. Failure to maintain the backlog of restoration at less than 21 calendar days will result in the City withdrawing payment for all items on the affected Work Orders. Items for which payment has been made will be deducted from subsequent pay applications and withheld until restoration is accepted.
15. Additional work as approved by the City Engineer.
16. The details of the work are shown on the attached plans.
17. Take color video or pictures of the job site showing salient features and physical condition before moving-in equipment and materials.

Please consult with the City Engineer prior to submitting the project schedule. Mr. David Tajadod will assign the inspector for this work order location. Mr. Tajadod can be contacted at (713) 640-7040.

T0916

4257-108 6

QUAD: SE

C.D.: F

KEY MAP: 530F

SWR. MAP:

L5054 & L5055

Subdivision:

SHARPSTOWN

CSOS File: C-()

- Customer Complaint
- Neighborhood Analysis
- Pump Station Review
- Critical Sewers
- Inflow Correction
- Point Repair
- Sanitary Sewer Overflow

GIS BY: R. HERRERA

