

## East Bay/Calhoun Drainage Facilities Division I - Collection Tunnel System Charleston, SC



### PROJECT OVERVIEW AND CHALLENGES

BTM Joint Venture, led by Bradshaw Construction, constructed the first deep storm sewer tunnel for the City of Charleston to control flooding along Calhoun Street to Marion Square Park. The work consisted of 2,880' of 120" rib & board TBM tunnel for a 96" ID cast in place storm sewer, two (2) caisson shafts, and two (2) drop stack intakes. The principal challenge on the project was first and foremost to meet the mayor's requirement to "not disturb the tranquil repose of Charleston". The project also had limited work areas and a tunnel alignment adjacent to numerous historic structures of this 300 year old city. The tunnel receiving shaft was in Marion Square which is the center of Charleston's public entertainment and meeting space.



### PROJECT INFORMATION - 1JV1

#### OWNER:

City of Charleston  
Laura Cabiness  
(843) 724-3761

#### ENGINEER:

Davis & Floyd Engineering, Inc.  
Herb Gilliam  
(843) 554-8602

#### CONTRACTOR:

BTM Joint Venture - Bradshaw  
Construction Managing Partner

#### CONTRACT VALUE:

\$4,368,139.00

#### COMPLETION DATE:

6/14/1996

#### GEOLOGY:

Cooper Marl (calcareous clay)

#### EXCAVATION METHOD:

Lovat TBM

#### MINING DIMENSIONS:

2,880' x 120"Ø

#### FINAL LINING:

96" Cast-In-Place Concrete Storm  
Sewer

#### FOR MORE INFORMATION:

Lester Bradshaw, Jr, President  
(410) 970-8300  
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Refer to Project 1JV1