

**TABLE OF CONTENTS**

**CITY OF FRIENDSWOOD TECHNICAL SPECIFICATIONS**

***BOLD ITALICIZED*** – Item is bound within this specification manual.

Regular non-italicized – Item is not bound within this specification manual, however item is part of the contract. All items and specifications are available on the City of Friendswood’s website at “<https://www.ci.friendswood.tx.us>” and then:

- 1) Click on the “Government” button in the top bar
- 2) In the left side bar, click the link for “Departments”
- 3) In the left side bar, click the link for “Engineering”
- 3) In the left side bar, click the link for “Publications and Forms”
- 4) Scroll down to the links for the City of Friendswood’s Technical Specifications

**DIVISION 00 – CONTRACTING DOCUMENTS**

**INTRODUCTORY INFORMATION**

Index to Technical Specifications.....00000  
 Project Manual Cover.....00001  
 Table of Contents.....00005  
 Sign In Sheet.....00010

**RFQ / RFP / ITB PROCESS**

Request For Qualifications (RFQ).....00100  
 Request For Proposal (RFP).....00105  
 Invitation to Bid (ITB).....00110  
 Pre-Bid Meeting Outline.....00115  
 Addendum.....00120  
 Acknowledgement of Addenda.....00125  
 Insurance Requirements.....00130  
 Child Support Affidavit.....00135  
 Bidder’s Bond.....00140  
 Unit Price Bid Form.....00145  
 Total Stipulated Price Form.....00150  
 Bid Tabulation Sheet.....00155  
 Post-Bid Procedures.....00160

**CONTRACTING REQUIREMENTS**

Standard Agreement for Professional Services – Architect.....00200  
 Standard Agreement for Professional Services – Engineer.....00205  
 Standard Agreement for Professional Services – Testing.....00210

Standard Agreement for Professional Services – Consulting .....00215  
Standard Agreement for Construction Manager at Risk (CMAR) Services.....00220  
Guaranteed Maximum Price Amendment.....00225  
Standard Agreement for Contracting Services.....00230  
Intent to Award .....00235  
Notice to Proceed.....00240  
Texas Workers Compensation.....00245  
Wage Scale.....00250  
Affidavit of Insurance.....00255  
Alcohol and Drug Free Workplace Policy.....00260  
Construction Storm Preparation Policy .....00265  
Hazardous Communications Program Requirement Agreement.....00270  
Homeland Security Policy .....00275  
Texas Ethics Commission Form 1295 .....00280  
Performance Bond .....00285  
Payment Bond.....00290  
Vendor Information Packet.....00295  
General Conditions .....00300  
Supplementary Conditions .....00305

**PRECONSTRUCTION**

Preconstruction Meeting Check List.....00400  
Preconstruction Meeting Outline (City Project) .....00405  
Preconstruction Meeting Outline (Developer) .....00410

**CONSTRUCTION**

Time Extension Request .....00500  
Work Change Directive (WCD) .....00505  
Change Order (CO).....00510  
Contractor Pay Application.....00515  
COF Payment Authorization .....00520  
Partial Waiver of Lien .....00525  
Final Waiver of Lien .....00530  
Non-Conformance Report (NCR).....00535  
Stop Work Order .....00540  
Notice To Rescind Stop Work Order.....00545  
Final Walkthrough Checklist.....00550

**CLOSEOUT**

Certificate of Substantial Completion.....00600  
Punch List .....00605  
Affidavit of Payment to Subcontractors and Suppliers .....00610  
Contractor’s Certification of Final Completion.....00615  
Notice of Final Completion .....00620

One-Year Maintenance Bond.....00625  
Extended Warranty Maintenance Bond .....00630  
Certificate of One-Year Maintenance Acceptance .....00635  
Certificate of Extended Warranty Maintenance Bond Acceptance .....00640  
Release of Bond.....00645

**DIVISION 01 – GENERAL REQUIREMENTS**

Submittal Procedures.....01000  
Minimum Conceptual Drawing Requirements.....01005  
Minimum Construction Drawing Requirements.....01010  
Measurement and Payment.....01015  
Contingencies and Allowances .....01020  
Change Order Procedures .....01025  
Work Restrictions .....01030  
Stabilized Construction Exit .....01035  
Control of Ground and Surface Water.....01040  
Storm Water Pollution Prevention Plan.....01045  
SWPPP Inspection Form .....01050  
TPDES Requirements.....01055  
Project Signage.....01060  
Utility Identification Markings.....01065  
Temporary Facilities and Control .....01070  
Traffic Control and Regulation .....01075  
Quality Control and Testing.....01080  
Diversion Pumping .....01085  
Utility Division Valve Assistance Procedures .....01090  
Utility Division Valve Assistance Form.....01095  
System Startups and O&M Manuals .....01100  
Tree and Plant Protection .....01105  
Reference Standards .....01110

**DIVISION 02 – SITE WORK**

**EROSION CONTROL**

Erosion Control Systems.....02000  
Filter Fabric Silt Fence .....02005  
Straw Bale Fence.....02010  
Geotextile .....02015  
Stabilized Construction Access, Roads, Parking and Wash Areas.....02020  
Water-Permeable Sediment Filtration .....02025  
Rock Filter Dams.....02030

**GENERAL SITE WORK**

Clearing and Grubbing .....02100  
Removing Existing Pavements and Structures .....02105  
Borrow .....02110  
Embankment .....02115  
Excavation and Backfill for Structures.....02120  
Excavation and Backfill for Utilities .....02125  
Extra Price Unit Work for Excavation and Backfill.....02130  
Excavation for Roadway .....02135  
Utility Backfill Materials .....02140  
Cement-Stabilized Sand .....02145

**PIPING**

Bar Wrapped Steel Cylinder Pipe .....02200  
Copper Tubing .....02205  
Corrugated Metal Pipe (CMP).....02210  
Ductile Iron pipe and Fittings (DIP) .....02215  
High Density Polyethylene Pipe (HDPE).....02220  
Prestressed Concrete Cylinder Pipe (PCCP).....02225  
Polyethylene Pipe (PE) .....02230  
Polyvinyl Chloride (PVC).....02235  
Reinforced Concrete Box (RCB).....02240  
Reinforced Concrete Pipe (RCP) .....02245  
Steel Pipe and Fittings .....02250  
Steel Pipe and Fittings for Large Diameter Water Lines .....02255  
Polyethylene Wrap .....02260  
Polyurethane Coatings on Steel and Ductile Iron Pipes .....02265  
Augering Water Pipe and Conduit.....02270  
Pipe and Casing Augering for Sanitary Sewers .....02275  
Trench Safety Systems .....02280  
Cathodic Protection.....02285

**MANHOLES**

Cast-in-Place Concrete Manholes .....02300  
Precast Concrete Manholes .....02305  
Adjusting Manholes, Inlets and Valve Boxes to Grade .....02310  
Frames, Grates, Rings and Covers.....02315  
Manhole Rehabilitation.....02320

**POTABLE WATER SYSTEMS**

Water Lines .....02400  
Butterfly Valves .....02405  
Gate Valves.....02410

Pressure Reducing Valves (PRV) .....	02415
Tapping Saddles and Sleeves (TS & V).....	02420
Water Meters.....	02425
Water Tap and Service Line Installation .....	02430
Fire Hydrant Assemblies .....	02435
Valve Boxes, Meter Boxes and Meter Vaults.....	02440
Cut, Plug and Abandonment of Waterlines .....	02445
Hydrostatic Testing of Waterlines .....	02450
Disinfection of Waterlines.....	02455
Wet Connections.....	02460
Procedures for Bacteriological Testing .....	02465

**SANITARY SEWER SYSTEMS**

Gravity Sanitary Sewers.....	02500
Sanitary Sewer Service Stub-outs or Reconnections .....	02505
Sanitary Sewer Force Mains .....	02510
Abandonment of Sanitary Sewers.....	02515
Television Inspection of Sanitary Sewer Lines.....	02520
Acceptance Testing of Gravity Sanitary Sewer Lines .....	02525
Sanitary Sewer Line Cleaning.....	02530
Sanitary Sewer Lift Station.....	02535
Sanitary Sewer Point Repair .....	02540
Sanitary Sewer Pipe Lining .....	02545
Sanitary Sewer Pipe Bursting .....	02550
Sanitary Sewer Bypass Pumping.....	02555
Sanitary Sewer Line Obstruction Removal .....	02560
Lift Station Cleaning .....	02565

**STORM SEWERS**

Storm Sewer .....	02600
Cast-in-Place Inlets, Junction Boxes, Headwalls and Wingwalls.....	02605
Precast Concrete Inlets, Headwalls and Wingwalls .....	02610
Brick Manholes for Storm Sewers.....	02615
Storm Sewer Cleaning and Televising.....	02620

**BASE COURSES**

Cement-Stabilized Base Course .....	02700
Crushed Concrete Base Course .....	02705
Flexible Base Course .....	02710
Hot-Mix Asphaltic Concrete.....	02715
Lime-Stabilized Base Course.....	02720
Portland Cement-Stabilized Base Course.....	02725
Prime Coat .....	02730
Tack Coat.....	02735

Geotextile Stabilization.....02740

**PAVING**

Asphaltic Concrete Paving .....02800  
Concrete Paving.....02805  
Concrete Median and Directional Islands .....02810  
Headers, Curb, Curb and Gutter .....02815  
Concrete Sidewalks .....02820  
Colored Concrete for Wheelchair Ramps .....02825  
Concrete Driveways .....02830  
Concrete Pavement Curing .....02835  
Concrete Pavement Joints .....02840  
Pavement Repair and Resurfacing .....02845  
Blast Cleaning of Concrete .....02850  
Raised Pavement Markers.....02855  
Thermoplastic Pavement Markings.....02860  
Traffic Signs .....02865  
Concrete Slab Raising .....02870

**LANDSCAPE**

Turf Establishment .....02900  
Topsoil.....02905  
Hydromulch Seeding.....02910  
Sodding.....02915  
Tree Planting.....02920  
Landscape Irrigation.....02925  
Cedar Fence .....02930  
Chain Link Fence .....02935  
Fixed Knot Fabric Fence .....02940  
Wire Rope Boundary Fence.....02945

**DIVISION 03 – CONCRETE**

**CONCRETE**

Mortar .....03000  
Grout .....03005  
Reinforcing Steel.....03010  
Structural Concrete .....03015

**DIVISION 04 – MASONRY**

**DIVISION 05 – METALS**

**DIVISION 06 – WOOD AND PLASTICS**

**DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

**DIVISION 08 – DOORS AND WINDOWS**

**DIVISION 09 – FINISHES**

**DIVISION 10 – SPECIALTIES**

**DIVISION 11 – EQUIPMENT**

**DIVISION 12 – FURNISHINGS**

**DIVISION 13 – SPECIAL CONSTRUCTION**

**DIVISION 14 – CONVEYING SYSTEMS**

**DIVISION 15 – MECHANICAL**

**DIVISION 16 – ELECTRICAL**

**SPECIAL TECHNICAL SPECIFICATIONS**

\*\*\*\*\*  
**Design Professionals – Insert here other documents and specifications needed for this project that are not covered in the Standard Technical Specifications. Delete these instructions when finished.**  
\*\*\*\*\*

**END OF SECTION**