



Department of Purchasing & Contract Compliance

October 18, 2016

Re: **#16ITB092716K-DB**
2017 Standby Miscellaneous Construction-Water System Services

Dear Vendors:

Attached is one (1) copy of Addendum 2, hereby made a part of the above referenced **#16ITB092716K-DB; 2017 Standby Miscellaneous Construction-Water System Services.**

Except as provided herein, all terms and conditions in the ITB referenced above remain unchanged and in full force and effect.

Sincerely,

Darlene A. Banks

Darlene A. Banks, APA

Winner 2000 - 2009 Achievement of Excellence in
Procurement Award • National Purchasing Institute



**#16ITB092716K-DB; 2017 Standby Miscellaneous Construction-Water System Services
Addendum No. 2
Page Two**

This Addendum forms a part of the contract documents and modifies the original ITB documents as noted below:

REVISIONS:

- **Bid Form Revised 10/18/2016 (2nd Revision)**
- **Fulton County Standard Detail 814**
- **Fulton County Standard Detail 815**

QUESTION:

Line Item 102 says “over 405-feet from top of bank to top of bank”, given the fact that the numbers from line item 99 to line item 101 reflect growing intervals from the previous is this a typo is the 405 supposed to be 40 ?

99	Temporary Stream Crossing- for Contractor Access - Up to 15-feet from Top of Bank to Top of Bank	EACH	1
100	Temporary Stream Crossing- for Contractor Access- 15 to 25- feet from Top of Bank to Top of Bank	EACH	1
101	Temporary Stream Crossing- for Contractor Access- 25 to 40-feet from Top of Bank to Top of Bank	EACH	1
102	Temporary Stream Crossing- for Contractor Access- Over 405-feet from Top of Bank to Top of Bank	EACH	1

RESPONSE:

Yes, that is correct. It is supposed to be 40-feet. Also, Items #99 through #102 is for “**5 EACH**” not “**1 EACH**”. Please see 2nd Revised Bid Form 10/18/2016 attached to this Addendum.

**#16ITB092716K-DB; 2017 Standby Miscellaneous Construction-Water System Services
Addendum No. 2
Page Three**

ACKNOWLEDGEMENT OF ADDENDUM NO. 2

The undersigned bidder acknowledges receipt of this addendum by returning one (1) copy of this form with the proposal package to the Department of Purchasing & Contract Compliance, Fulton County Public Safety Building, 130 Peachtree Street, Suite 1168, Atlanta, Georgia 30303 by the ITB due date and time **Monday, October 31, 2016@ 11:00 A.M.**

This is to acknowledge receipt of Addendum No. 2, _____ day of _____, 20__.

Legal Name of Bidder

Signature of Authorized Representative

Title

Submitted To: Fulton County Government

Submitted By: _____

For: **#16ITB092716K-DB**
2017 Standby Miscellaneous Construction-Water System Services

Submitted on _____, 20__.

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Bid as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Bid or in the Contract to be entered into; that this Bid is made without connection with any other person, company or parties making a Bid; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the Drawings and Specifications for the work and contractual documents relative thereto, and has read all instructions to Bidders and General Conditions furnished prior to the openings of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees, if this Bid is accepted, to contract with the Board of Commissioners of Fulton County, Atlanta, Georgia, in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary, and to complete the construction of the work in full and complete accordance with the shown, noted, and reasonably intended requirements of the Specifications and Contract Documents to the full and entire satisfaction of the Board of Commissioners of Fulton County, Atlanta, Georgia, with a definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents for the following prices.

THE BASE BID IS THE AMOUNT UPON WHICH THE BIDDER WILL BE FORMALLY EVALUATED AND WHICH WILL BE USED TO DETERMINE THE LOWEST RESPONSIBLE BIDDER.

The base bid may not be withdrawn or modified for a period of sixty (60) days following the receipt of bids.

BASE BID AMOUNT

\$ _____
(Dollar Amount In Numbers)

(Dollar Amount in Words)

The Bidder agrees hereby to commence work under this Contract, with adequate personnel and equipment, on a date to be specified in a written "Notice to Proceed" from the County.

The Bidder declares that he understands that the quantities shown for the unit prices items are subject to either increase or decrease, and that should the quantities of any of the items of work be increased, the Bidder proposes to do the additional work at the unit prices stated herein; and should the quantities be decreased, the Bidder also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities; and that actual quantities will be determined upon completion of work, at which time adjustments will be made to the contract amount by direct increase or decrease.

BASE BID AMOUNT

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
WATER MAIN					
1.	6-inch DIP Water Main; 0.0 – 8.0 foot depth	1500	L.F.		
2.	6-inch DIP Water Main; 8.1 – 16.0 foot depth	200	L.F.		
3.	6-inch RJ DIP Water Main; 0.0 – 8.0 foot depth	500	L.F.		
4.	6-inch RJ DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
5.	8-inch DIP Water Main; 0.0 – 8.0 foot depth	1500	L.F.		
6.	8-inch DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
7.	8-inch DIP Water Main; Installed in 16-inch Steel Casing	60	L.F.		
8.	8-inch RJ DIP Water Main; 0.0 – 8.0 foot depth	1000	L.F.		
9.	8-inch RJ DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
10.	8-inch RJ DIP Water Main; Installed in 16-inch Steel Casing	60	L.F.		
11.	10-inch DIP Water Main; 0.0 – 8.0 foot depth	1500	L.F.		
12.	10-inch DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
13.	10-inch DIP Water Main; Installed in 18-inch Steel Casing	60	L.F.		
14.	10-inch RJ DIP Water Main; 0.0 – 8.0 foot depth	1000	L.F.		
15.	10-inch RJ DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
16.	10-inch RJ DIP Water Main; Installed in 18-inch Steel Casing	60	L.F.		
17.	12-inch DIP Water Main; 0.0 – 8.0 foot depth	1500	L.F.		
18.	12-inch DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
19.	12-inch DIP Water Main; Installed in 20-inch Steel Casing	60	L.F.		
20.	12-inch RJ DIP Water Main; 0.0 – 8.0 foot depth	1000	L.F.		
21.	12-inch RJ DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		

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ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
22.	12-inch RJ DIP Water Main; Installed in 20-inch Steel Casing	60	L.F.		
23.	16-inch DIP Water Main; 0.0 – 8.0 foot depth	600	L.F.		
24.	16-inch DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
25.	16-inch DIP Water Main; Installed in 24-inch Steel Casing	60	L.F.		
26.	16-inch RJ DIP Water Main; 0.0 – 8.0 foot depth	400	L.F.		
27.	16-inch RJ DIP Water Main; 8.1 – 16.0 foot depth	50	L.F.		
28.	16-inch RJ DIP Water Main; Installed in 24-inch Steel Casing	60	L.F.		
FITTINGS					
29.	Fittings	40	Tons		
FIRE HYDRANTS					
30.	Fire Hydrant Assembly	40	Each		
30A	Fire Hydrant Assembly with Captivater Locking Caps	40	Each		
31.	Hydrant Extension	20	L.F.		
32.	Salvage Existing Hydrant	6	Each		
32A	Replace Caps on Ex. Hydrant with Captivater Locking Caps	20	Each		
VALVES					
33.	6-inch Gate Valve	5	Each		
34.	8-inch Gate Valve	15	Each		
35.	10-inch Gate Valve	5	Each		
36.	12-inch Gate Valve	15	Each		
37.	16-inch Butterfly Valve	2	Each		
38.	Valve Adjustments in Pavement (0-5')	25	Each		
39.	Valve Adjustments in Pavement (Greater than 5')	15	Each		
40.	Valve Adjustments out of Pavement (0-5')	25	Each		
41.	Valve Adjustments out of Pavement (Greater than 5')	15	Each		
CONNECTIONS TO EXISTING WATER LINES					
42.	8 x 8 Tapping Sleeves & Valve	5	Each		
43.	10 x 8 Tapping Sleeves & Valve	1	Each		
44.	10 x 10 Tapping Sleeves & Valve	1	Each		
45.	12 x 8 Tapping Sleeves & Valve	1	Each		
46.	12 x 10 Tapping Sleeves & Valve	1	Each		

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ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
47.	12 x 12 Tapping Sleeves & Valve	5	Each		
48.	16 x 8 Tapping Sleeves & Valve	1	Each		
49.	16 x 10 Tapping Sleeves & Valve	1	Each		
50.	16 x 12 Tapping Sleeves & Valve	1	Each		
51.	16 x 16 Tapping Sleeves & Valve	1	Each		
52.	Cut in Connection on 8-inch Line	10	Each		
53.	Cut in Connection on 10-inch Line	10	Each		
54.	Cut in Connection on 12-inch Line	10	Each		
55.	Cut in Connection on 16-inch Line	2	Each		
56.	Straight Connection on 8-inch Line	10	Each		
57.	Straight Connection on 10-inch Line	10	Each		
58.	Straight Connection on 12-inch Line	10	Each		
59.	Straight Connection on 16-inch Line	2	Each		
ABANDON EXISTING WATER MAIN					
60.	Abandon Existing Water Main – Cut and Plug / Deadman Restraint 1-1/2 to 6-inch Line	5	Each		
61.	Abandon Existing Water Main – Cut and Plug / Deadman Restraint 8 to 12-inch Line	10	Each		
62.	Abandon Existing Water Main – Cut and Plug / Deadman Restraint 16-inch Line	1	Each		
WATER SERVICE CONNECTIONS					
63.	Water Service Connection New Service Setup – Rome Type Box	50	Each		
64.	Water Service Connection New Service Setup – Double Gulf Box	50	Each		
65.	Water Service Connection New 1-inch Service Line	250	L.F.		
66.	Water Service Connection New 1-1/2 inch Service Line	25	L.F.		
67.	Water Service Connection New 2-inch Service Line	25	L.F.		

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ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
WATER SERVICE CHANGEOVERS					
68.	Water Service Changeovers – Changeover Setup	100	Each		
69.	Water Service Changeovers – Replace Existing with 1-inch Service Line	100	Each		
70.	Water Service Changeovers – Replace Existing with 1-1/2-inch Service Line	50	Each		
71.	Water Service Changeovers – Replace Existing with 2-inch Service Line	50	Each		
72.	Water Service Changeovers – Water Meter Relocation	10	Each		
4- OR 5-FOOT DIAMETER PRECAST VALVE VAULT OR MANHOLE					
73.	4 or 5-foot Diameter Precast Valve Vault or Manhole – 0.0 – 8.0 foot Depth	30	V.F.		
74.	4 or 5-foot Diameter Precast Valve Vault or Manhole – Greater than 8.0 foot Depth	10	V.F.		
BORE AND JACK CASING					
75.	Bore and Jack Casings – 16-inch Steel Casing with 8-inch Carrier Pipe	100	L.F.		
76.	Bore and Jack Casings – 18-inch Steel Casing with 10-inch Carrier Pipe	100	L.F.		
77.	Bore and Jack Casings – 20-inch Steel Casing with 12-inch Carrier Pipe	100	L.F.		
78.	Bore and Jack Casings – 24-inch Steel Casing with 16-inch Carrier Pipe	50	L.F.		
STORM DRAIN PIPE					
79.	Storm Drain Pipe – 12-inch RCP	20	L.F.		
80.	Storm Drain Pipe – 12-inch CMP	20	L.F.		
81.	Storm Drain Pipe – 15-inch RCP	20	L.F.		
82.	Storm Drain Pipe – 15-inch CMP	20	L.F.		
83.	Storm Drain Pipe – 18-inch RCP	20	L.F.		
84.	Storm Drain Pipe – 18-inch CMP	20	L.F.		
EROSION AND SEDIMENT CONTROL					
85.	Construction Exits	5	Each		
86.	Reinforced Silt Fence (Type C)	3,000	L.F.		
87.	Hay Bale Check Dams	300	Each		

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88.	Stone Check Dams	20	Each		
89.	Inlet Sediment Traps	20	Each		
90.	Pigs – in – Blanket	100	Each		
ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
91.	Type 1 Rip Rap with Filter Fabric Underlay	50	S.Y.		
92.	Type 3 Rip Rap with Filter Fabric Underlay	50	S.Y.		
93.	Box Gabbon (Surge Stone Fill with Filter Fabric Underlay) 3' x 3' x 6' Baskets	1	Each		
94.	Tree Protection Fence	1,000	L,F.		
95.	Temporary Seeding (All Types)	3,000	S.Y.		
96.	Permanent Seeding (All Types)	3,000	S.Y.		
97.	Sod Grassing (All Types)	1,000	S.Y.		
98.	Hyrdoseeding	1,000	S.Y.		
99.	Temporary Stream Crossing – for Contractor Access – Up to 15-feet from Top of Bank to Top of Bank	5	Each		
100.	Temporary Stream Crossing – for Contractor Access – 15 to 25-feet from Top of Bank to Top of Bank	5	Each		
101.	Temporary Stream Crossing – for Contractor Access – 25 to 40-feet from Top of Bank to Top of Bank	5	Each		
102.	Temporary Stream Crossing – for Contractor Access – Over 40-feet from Top of Bank to Top of Bank	5	Each		
103.	Trench Excavation and Stabilization – as Ordered by the Construction Manager – Trench Stabilization with Suitable Earth Materials	500	C.Y.		
104.	Trench Excavation and Stabilization – as Ordered by the Construction Manager – Trench Stabilization with Crusher Run	300	C.Y.		
105.	Trench Excavation and Stabilization – as Ordered by the Construction Manager – Trench Stabilization with Crushed Stone (#57)	500	C.Y.		
106.	Trench Excavation and Stabilization – as Ordered by the Construction Manager –	50	C.Y.		

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ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
	Trench Stabilization with M-10 Sand				
107.	Trench Excavation and Stabilization – as Ordered by the Construction Manager – Trench Rock Excavation and Removal – Base Cost	250	C.Y.		
108.	Trench Excavation and Stabilization – as Ordered by the Construction Manager – Trench Rock Excavation and Removal – Premium Cost	250	C.Y.		
EASEMENT CLEARING AND GRUBBING					
109.	Easement Clearing and Grubbing – Clear 20-foot Wide Easement - Light	200	L.F.		
110.	Easement Clearing and Grubbing – Clear 20-foot Wide Easement – Medium	200	L.F.		
111.	Easement Clearing and Grubbing – Clear 20-foot Wide Easement - Heavy	100	L.F.		
DRIVEWAY AND ROAD REPAIR AND REPLACEMENT					
112.	Driveway and Road Repair and Replacement – Gravel Driveway Replacement	50	S.Y.		
113.	Driveway and Road Repair and Replacement – Asphalt Driveway Replacement	60	S.Y.		
114.	Driveway and Road Repair and Replacement – Concrete Driveway Replacement – Residential	100	S.Y.		
115.	Driveway and Road Repair and Replacement – Gravel Driveway Replacement - Commercial	100	S.Y.		
116.	Driveway and Road Repair and Replacement – Concrete Sidewalk	400	S.Y.		
117.	Driveway and Road Repair and Replacement – Concrete Curb and Gutter	200	S.Y.		
118.	Driveway and Road Repair and Replacement – Granite Curb	100	S.Y.		
119.	Driveway and Road Repair and Replacement – Asphalt Pavement Removal and Replacement (Type A Cut Repair)	200	S.Y.		

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ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
120.	Driveway and Road Repair and Replacement – Complete Fulton County Standard Utility Cut of Asphalt Pavement (Type C Cut Repair)	1,000	S.Y.		
121.	Driveway and Road Repair and Replacement – Road Surface Milling	3,000	S.Y.		
122.	Driveway and Road Repair and Replacement – Road Surface Overlay	3,000	S.Y.		
123.	Pavement Marking and Striping – 4- or 5-inch Std. DOT Striping - Thermoplastic	10	L.F.		
124.	Pavement Marking and Striping – 4- or 5-inch Std. DOT Striping – Paint	10	L.F.		
125.	Pavement Marking and Striping – Std. DOT Stop Bar - Thermoplastic	10	L.F.		
126.	Pavement Marking and Striping – Std. DOT Stop Bar - Paint	10	L.F.		
127.	Traffic Control – Std. DOT Concrete Barrier	100	L,F.		
128.	Traffic Control – MUTCD Std, Safety Barrel	20	Each /Day		
129.	Traffic Control – Police Cruiser	80	Hrs.		
130.	Traffic Control – Certified Flagman	80	Hrs.		
131.	Traffic Control – Light Plant	80	Hrs.		
132.	Traffic Control – Electronic Message Board	10	Days		
REMOVE AND REPLACE EXISTING FENCE					
133.	Remove and Replace Existing Fence – 4-foot High Chain Link Fence	20	L,F.		
134.	Remove and Replace Existing Fence – 6-foot High Chain Link Fence	20	L,F.		
135.	Remove and Replace Existing Fence – 6-foot High Wood Fence	20	L,F.		
CAST IN PLACE CONCRETE					
136.	Cast-in-Place Concrete – Structural Concrete	40	C.Y.		
137.	Cast-in-Place Concrete – Concrete Thrust Collars on 6-	40	C.Y.		

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ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
	to 12-inch Pipe				
138.	Cast-in-Place Concrete – Concrete Thrust Collars on 16- to 24-inch Pipe	40	C.Y.		
139.	Cast-in-Place Concrete – Concrete Thrust Blocking and / or Encasement	80	C.Y.		
140.	Cast-in-Place Concrete – Reinforcing Steel	1	Ton		
PROGRAMMABLE ELECTRONIC MARKING DEVICES					
141.	Programmable Electronic Marking Devices – Line Marker Balls – 3M 1423-XR-ID	300	Hrs.		
UTILITY LOCATION – EXCAVATION AND BACKFILL					
142.	Utility Location – Excavation and Backfill – Soft Dig Hydro Excavation	60	Hrs.		
143.	Utility Location – Excavation and Backfill – Exploratory Excavation	200	C.Y.		
WATER LINE MAINTENANCE SIGN					
144.	Water Line Maintenance Sign	10	Each		
EMERGENCY SERVICES – AS DIRECTED BY CONSTRUCTION MANAGER					
<p>The following labor and equipment are included for when the County needs manpower or additional equipment to assist in making emergency repairs other than those specified above as unit price items. Hourly rate items below shall NOT apply when work is performed under non-emergency conditions. The Notice to Proceed for each project will indicate emergency or non-emergency project status. On emergency projects the contractor shall have a representative on site within 2 hours of notification to assess the work to be performed and have emergency work crews on site with the proper equipment within 4 hours of the original notification.</p>					
145.	Water Superintendent with Pickup Truck	80	Hrs.		
146.	Water Crew Truck - Fully Equipped with tools and repair parts including but not limited to pipe saw, wacker-packer, chain saw, and miscellaneous hand tools, including water foreman and three laborers.	80	Hrs.		
147.	Rubber Tired Front End Loader With Trailer and Operator	80	Hrs.		

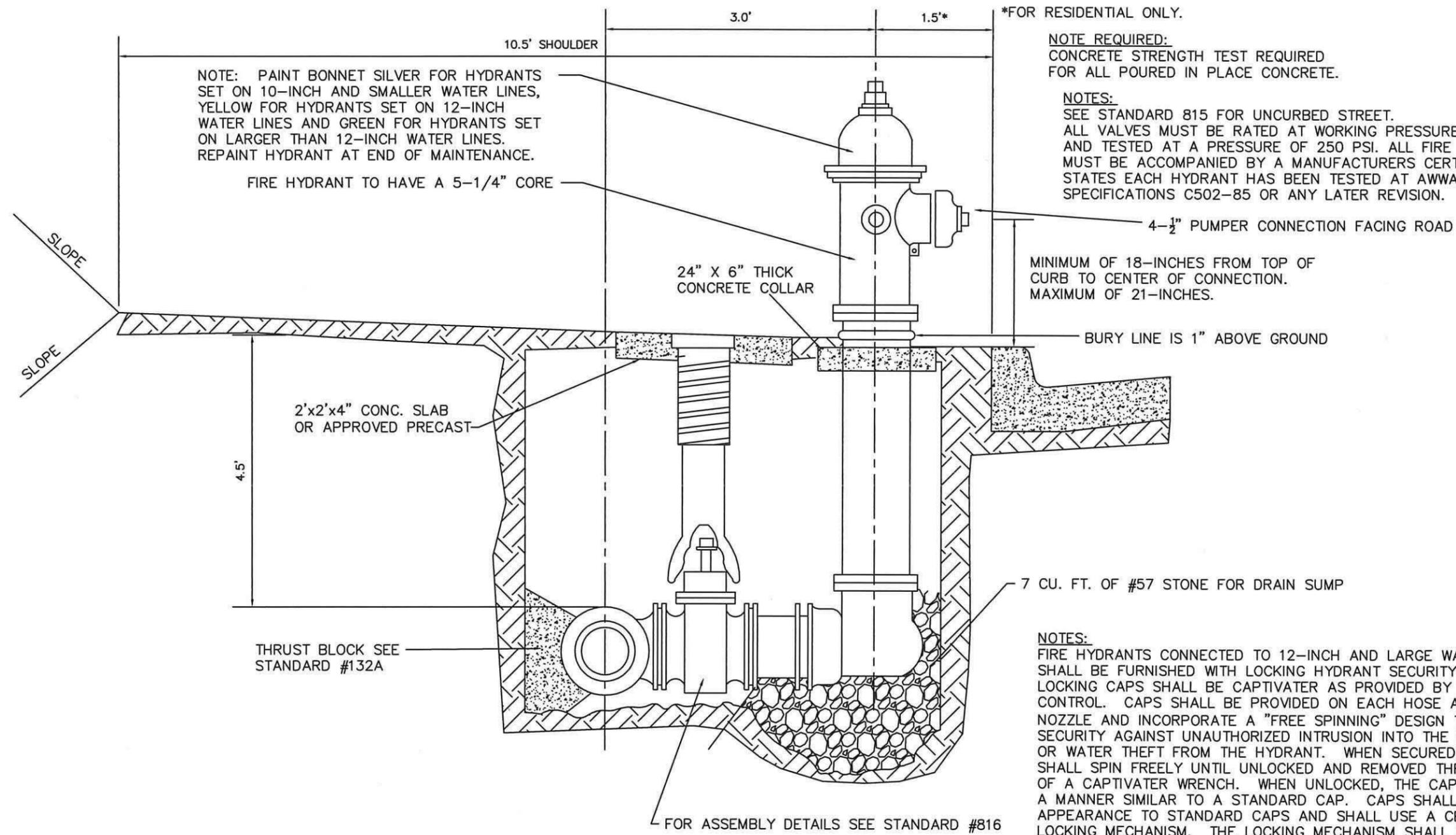
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148.	Rubber Tired Backhoe With Trailer and Operator	80	Hrs.		
ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL PRICE
149.	Excavator With Trailer and Operator	80	Hrs.		
150.	Trench Compactor With Operator	80	Hrs.		
151.	Mobile Air Compressor With Hoses and Air Tools (Jackhammer, Pavement Breaker, Clay Spade, etc.)	80	Hrs.		
152	Dump Truck(Tri-axle or tandem dump trucks)	80	Hrs.		
CONTRACTOR MOBILIZATION / DEMOBILIZATION					
153.	Contractor Mobilization / Demobilization for each Project less than \$25,000	5	Each	\$500	\$500.00
154.	Contractor Mobilization / Demobilization for each Project \$25,000 to \$75,000	10	Each	\$1,000	\$1,000.00
155.	Contractor Mobilization / Demobilization for each Project more than \$75,000	7	Each	\$1,500	\$1,500.00
OWNER CONTROLLED CONTINGENCY					
156.	Owner Controlled Contingency – Soils, Concrete, Asphalt, Materials, and Water Quality Testing; Utility Conflict Resolution; Large Tree Removal (18-inch Diameter and Above; Preblast Survey / Inspection and Blast Monitoring; Additional Landscaping	1	L.S.	\$90,000	\$90,000.00
	TOTAL BASE BID AMOUNT (lines 1-158)				

The full name and addresses of persons or parties interested in the foregoing Bid, as principals, are as follows:

Name	Address
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

END OF SECTION



NOTE: PAINT BONNET SILVER FOR HYDRANTS SET ON 10-INCH AND SMALLER WATER LINES, YELLOW FOR HYDRANTS SET ON 12-INCH WATER LINES AND GREEN FOR HYDRANTS SET ON LARGER THAN 12-INCH WATER LINES. REPAINT HYDRANT AT END OF MAINTENANCE.

FIRE HYDRANT TO HAVE A 5-1/4" CORE

*FOR RESIDENTIAL ONLY.

NOTE REQUIRED:
CONCRETE STRENGTH TEST REQUIRED FOR ALL POURED IN PLACE CONCRETE.

NOTES:
SEE STANDARD 815 FOR UNCURBED STREET. ALL VALVES MUST BE RATED AT WORKING PRESSURE OF 200 PSI AND TESTED AT A PRESSURE OF 250 PSI. ALL FIRE HYDRANTS MUST BE ACCOMPANIED BY A MANUFACTURERS CERTIFICATE THAT STATES EACH HYDRANT HAS BEEN TESTED AT AWWA SPECIFICATIONS C502-85 OR ANY LATER REVISION.

4-1/2" PUMPER CONNECTION FACING ROAD

MINIMUM OF 18-INCHES FROM TOP OF CURB TO CENTER OF CONNECTION. MAXIMUM OF 21-INCHES.

BURY LINE IS 1" ABOVE GROUND

2'x2'x4" CONC. SLAB OR APPROVED PRECAST

4.5'

THRUST BLOCK SEE STANDARD #132A

7 CU. FT. OF #57 STONE FOR DRAIN SUMP

NOTES:
FIRE HYDRANTS CONNECTED TO 12-INCH AND LARGE WATER MAINS SHALL BE FURNISHED WITH LOCKING HYDRANT SECURITY CAPS. LOCKING CAPS SHALL BE CAPTIVATOR AS PROVIDED BY AMERICAN FLOW CONTROL. CAPS SHALL BE PROVIDED ON EACH HOSE AND PUMPER NOZZLE AND INCORPORATE A "FREE SPINNING" DESIGN THAT PROVIDES SECURITY AGAINST UNAUTHORIZED INTRUSION INTO THE FIRE HYDRANT, OR WATER THEFT FROM THE HYDRANT. WHEN SECURED, THE CAP SHALL SPIN FREELY UNTIL UNLOCKED AND REMOVED THROUGH THE USE OF A CAPTIVATOR WRENCH. WHEN UNLOCKED, THE CAP SHALL OPEN IN A MANNER SIMILAR TO A STANDARD CAP. CAPS SHALL BE SIMILAR IN APPEARANCE TO STANDARD CAPS AND SHALL USE A CENTER PLACED LOCKING MECHANISM. THE LOCKING MECHANISM SHALL BE HARDENED STAINLESS STEEL AND SHALL BE PROTECTED FROM THE ELEMENTS. CAPS USING MAGNETIC LOCKS ARE UNACCEPTABLE. ALL CAPTIVATOR WRENCHES SHALL HAVE UNIQUE SERIAL NUMBERS. WRENCHES SHALL SHIP DIRECT TO OWNER.

FOR ASSEMBLY DETAILS SEE STANDARD #816

FULTON COUNTY STANDARD DETAIL 814
HYDRANT LOCATION DETAIL FOR
CURB & GUTTER STREETS

DATE	REVISIONS	DATE	REVISIONS
8/08	NRR		
7/16	TPM		
10/16	TPM		

DGS/DRN/CHKD: REB
APPROVED: REW
DATE: 12-2-05



FULTON COUNTY PUBLIC WORKS
141 PRYOR ST. ATLANTA, GA. 30303
404-612-7400 FAX: 404-224-0498

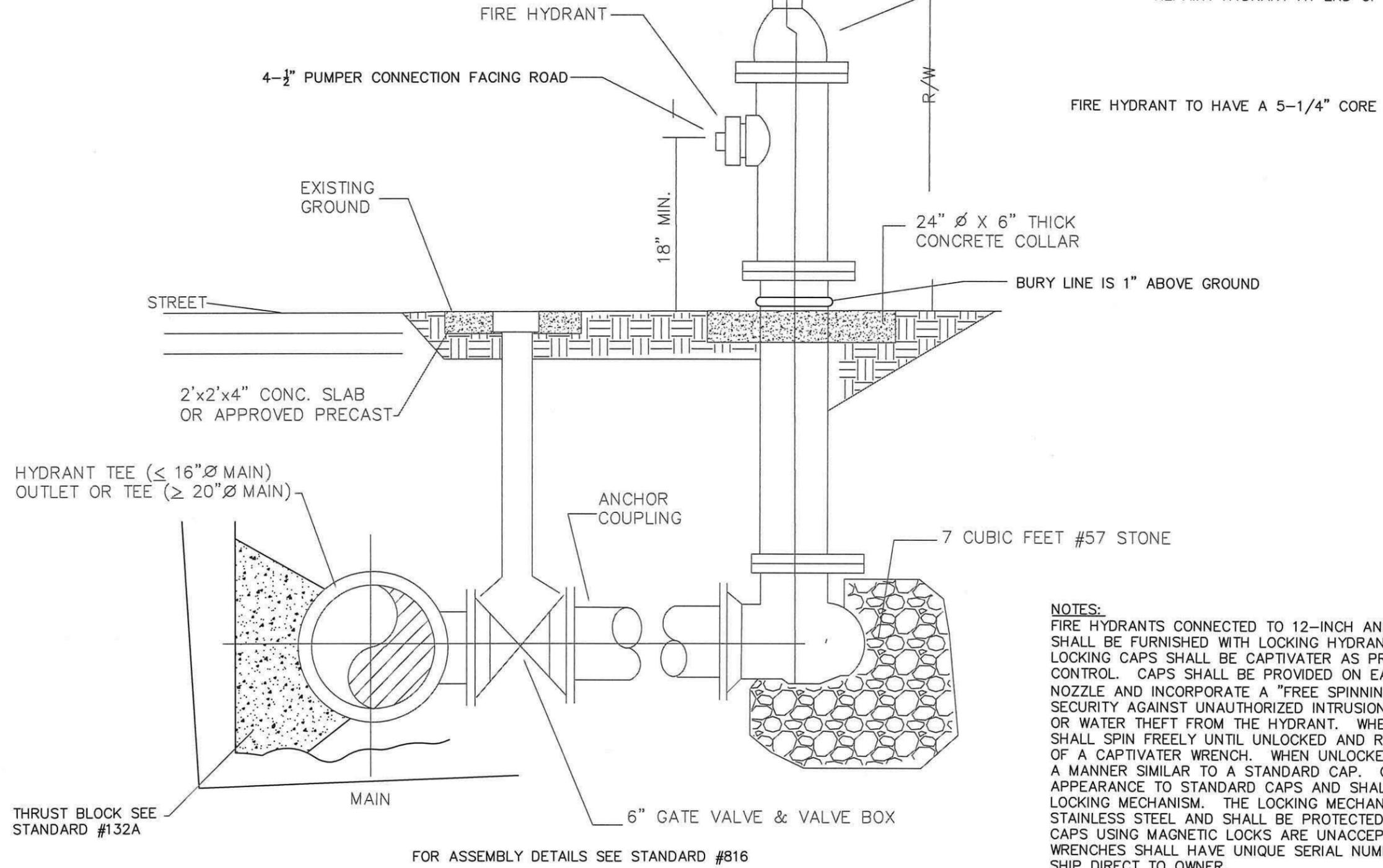
DRAWING NO.

814

MINIMUM OF 18-INCHES FROM
GROUND TO CENTER OF CONNECTION.
MAXIMUM OF 21-INCHES.

NOTE REQUIRED:
CONCRETE STRENGTH TEST REQUIRED
FOR ALL POURED IN PLACE CONCRETE.

NOTE: PAINT BONNET SILVER FOR HYDRANTS
SET ON 10-INCH AND SMALLER WATER LINES,
YELLOW FOR HYDRANTS SET ON 12-INCH
WATER LINES AND GREEN FOR HYDRANTS SET
ON LARGER THAN 12-INCH WATER LINES.
REPAINT HYDRANT AT END OF MAINTENANCE.



NOTES:
FIRE HYDRANTS CONNECTED TO 12-INCH AND LARGER WATER MAINS
SHALL BE FURNISHED WITH LOCKING HYDRANT SECURITY CAPS.
LOCKING CAPS SHALL BE CAPTIVATOR AS PROVIDED BY AMERICAN FLOW
CONTROL. CAPS SHALL BE PROVIDED ON EACH HOSE AND PUMPER
NOZZLE AND INCORPORATE A "FREE SPINNING" DESIGN THAT PROVIDES
SECURITY AGAINST UNAUTHORIZED INTRUSION INTO THE FIRE HYDRANT,
OR WATER THEFT FROM THE HYDRANT. WHEN SECURED, THE CAP
SHALL SPIN FREELY UNTIL UNLOCKED AND REMOVED THROUGH THE USE
OF A CAPTIVATOR WRENCH. WHEN UNLOCKED, THE CAP SHALL OPEN IN
A MANNER SIMILAR TO A STANDARD CAP. CAPS SHALL BE SIMILAR IN
APPEARANCE TO STANDARD CAPS AND SHALL USE A CENTER PLACED
LOCKING MECHANISM. THE LOCKING MECHANISM SHALL BE HARDENED
STAINLESS STEEL AND SHALL BE PROTECTED FROM THE ELEMENTS.
CAPS USING MAGNETIC LOCKS ARE UNACCEPTABLE. ALL CAPTIVATOR
WRENCHES SHALL HAVE UNIQUE SERIAL NUMBERS. WRENCHES SHALL
SHIP DIRECT TO OWNER.

FULTON COUNTY STANDARD DETAIL 815
FIRE HYDRANT STREET UNCURBED

DATE	REVISIONS	DATE	REVISIONS
8/08	NRR		
10/16	TPM		

DGS/DRN/CHKD: REB
APPROVED: REW
DATE: 12-2-05



FULTON COUNTY PUBLIC WORKS
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DRAWING NO.
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