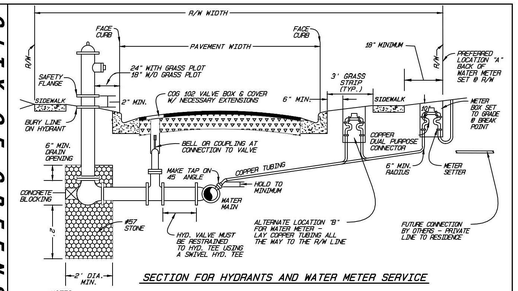
CITY OF GREENSBORO

HOUSE CONNECTION AND HYDRANT SETTING DETAIL

STD.NO. 101 | REV. 12-12, 03-15, 05-16, 09-19

SHEET 1 OF 3



SECTION FOR HYDRANTS AND WATER METER SERVICE

NOTES:

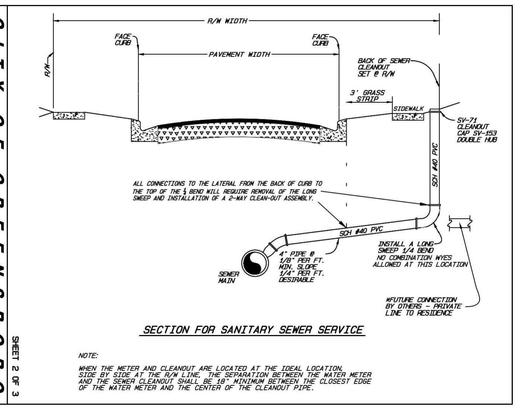
1. TWO MEG-A-LUGS BETWEEN VALVE & HYDRANT MAY BE USED INSTEAD OF CONCRETE BLOCKING.
2. THE WATER METER SHALL BE INSTALLED IN LOCATION "A" UNLESS DETERMINED BY THE INSPECTOR TO NOT BE FEASIBLE. THE WATER METER AND SEWER CLEANOUT SHOULD BE SIDE BY SIDE AT THE R/W LINE WITH A MINIMUM 18" SEPARATION BETWEEN THE CLOSEST EDGE OF THE WATER METER AND THE CENTER OF THE SEWER CLEANOUT.
3. IF LOCATION "A" IS NOT FEASIBLE, THE WATER METER SHALL BE PLACED AT LOCATION "B" IN THE GRASS STRIP WITH THE CLEANOUT REMAINING AT THE R/W LINE.
4. IF THE INSPECTOR DETERMINES THAT NEITHER LOCATION "A" NOR "B" IS FEASIBLE, THE INSPECTOR WILL DECIDE WHAT IS THE BEST LOCATION.
5. THE BURY LINE ON THE HYDRANT SHOULD BE AS CLOSE AS FEASIBLE TO 0.2 FT ABOVE THE TOP OF CURB GRADE.

CITY OF GREENSBORO

HOUSE CONNECTION AND HYDRANT SETTING DETAIL

STD.NO. 101 | REV. 12-12, 03-15, 05-16, 09-19

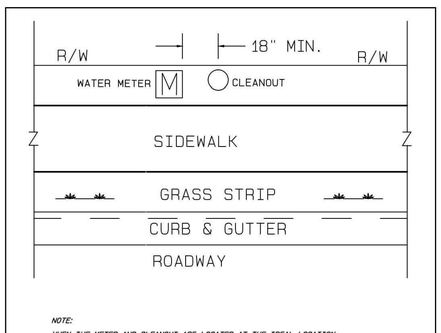
SHEET 2 OF 3



SECTION FOR SANITARY SEWER SERVICE

NOTE:

WHEN THE METER AND CLEANOUT ARE LOCATED AT THE IDEAL LOCATION, SIDE BY SIDE AT THE R/W LINE, THE SEPARATION BETWEEN THE WATER METER AND THE SEWER CLEANOUT SHALL BE 18" MINIMUM BETWEEN THE CLOSEST EDGE OF THE WATER METER AND THE CENTER OF THE CLEANOUT PIPE.



NOTE:

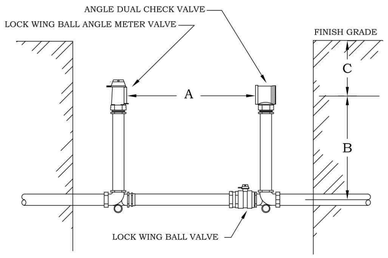
WHEN THE METER AND CLEANOUT ARE LOCATED AT THE IDEAL LOCATION, SIDE BY SIDE AT THE R/W LINE, THE SEPARATION BETWEEN THE WATER METER AND THE SEWER CLEANOUT SHALL BE 18" MINIMUM BETWEEN THE CLOSEST EDGE OF THE WATER METER AND THE CENTER OF THE CLEANOUT PIPE.

SHEET 3 OF 3

CITY OF GREENSBORO

HOUSE CONNECTION AND HYDRANT SETTING DETAIL

STD.NO. 101 | REV. 12-12, 03-15, 05-16, 09-19



SETTER DIMENSIONS

	A	B	C
1 1/2" METER	13 1/4"	15"	10"
2" METER	17 1/4"	15"	10"

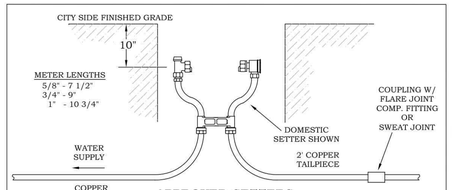
METER BOXES
USE 24" W x 36" L x 30" D BOX & COVER
SEE **GSO-10**

APPROVED METER BOXES
- CDR / QUAZITE AS MFG. BY HUBBELL POWER SYSTEMS
- HIGHLINE PRODUCTS

APPROVED SETTERS

	MUELLER	FORD	A.Y. McDONALD	CAMBRIDGE
1 1/2"	B-2423-2-01	VBHH76-12B-11-66-NL	20B-612WDFF665	6020-615F6F6-UQNB
2"	B-2423-2-01	VBHH77-12B-11-77-NL	20B-712WDFF775	6020-715F7F7-UQNB

CITY OF GREENSBORO WATER RESOURCES DEPARTMENT	STANDARD 1 1/2" & 2" METER INSTALLATIONS	GSO-4 REVISED 4-16-15



APPROVED SETTERS

(W/COMPRESSION CONNECTIONS FOR COPPER TUBING)

DOMESTIC - VERTICAL INLET & OUTLET WITH DUAL CHECK FEATURE

	MUELLER	FORD	A.Y. McDONALD	CAMBRIDGE
5/8" x 3/4"	B-2474-2A	VBHH82W-44-33-G-FP	32-2--JD2233	6040-207B3B3-UQN
3/4"	B-2474-2A	VBHH83W-44-33-G-FP	32-3--JD2233	6040-309B3B3-UQN
1"	B-2474-2A	VBHH84W-44-44-G-FP	32-4--JD2244	6040-412B4B4-UQN

IRRIGATION ONLY- HORIZ. INLET & OUTLET

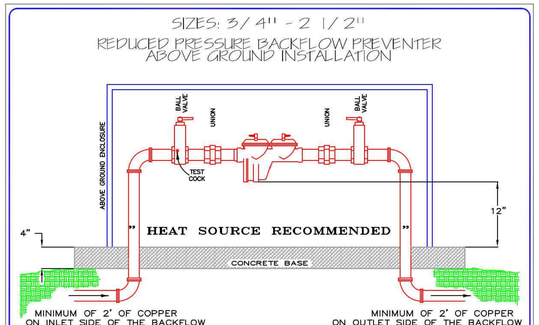
	MUELLER	FORD	A.Y. McDONALD	CAMBRIDGE
5/8" x 3/4"	B-2470	VB72-7W-44-33-G-FP	22-207WX2233	6020-207B3B3-UO
3/4"	B-2470	VB73-8W-44-33-G-FP	22-307WX2233	6020-309B3B3-UO
1"	B-2470	VB74-10W-44-44-G-FP	22-409WX2244	6020-412B4B4-UO

APPROVED BOXES

5/8" x 3/4" & 3/4" METERS - USE MB-1 PLASTIC METER BOXES WITH LOCKING LIDS AS MANUFACTURED BY SOUTHEASTERN DISTRIBUTORS OR APPROVED EQUAL. SEE DWG. GSO-8.

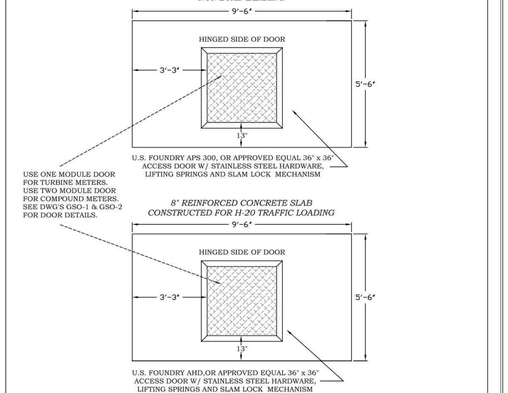
1" METERS - USE MB-2 PLASTIC METER BOXES WITH LOCKING LIDS AS MANUFACTURED BY SOUTHEASTERN DISTRIBUTORS, OR APPROVED EQUAL. SEE DWG. GSO-9.

CITY OF GREENSBORO WATER RESOURCES DEPARTMENT	STANDARD METER INSTALLATION FOR 5/8" x 3/4", 3/4" & 1" METERS	GSO-5 REVISED 2-9-21

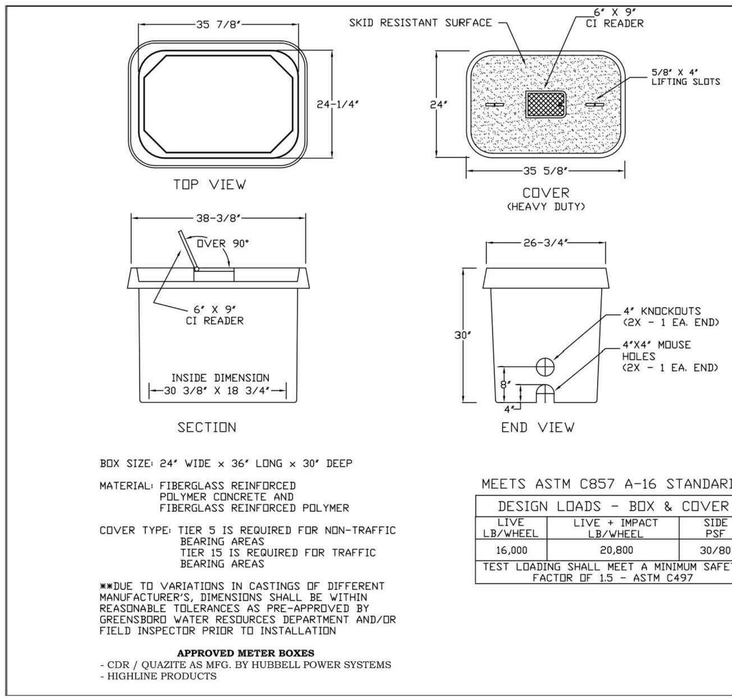


1. THE BACKFLOW DEVICE SHALL BE WITHIN 10' OF AND ON THE PROPERTY SIDE OF THE METER – FOR DOMESTIC IRRIGATION THE BACKFLOW DEVICE SHALL WILL BE WITHIN 25' OF THE METER OR AT THE FIRST POINT OF CONTACT INSIDE OF THE BUILDING WITH PRIOR APPROVAL FROM THE CROSS CONNECTION COORDINATOR.
2. ALL REDUCED PRESSURE BACKFLOW DEVICES SHALL BE INSTALLED ABOVE GROUND, IN A HORIZONTAL POSITION.
3. SHUT OFF VALVES SHALL BE FULL PORT, LINE SIZE, LEVER TYPE, AND 1/4 TURN BRONZE BALL VALVES.
4. BACKFLOW DEVICES SHALL HAVE TWO RESILIENT SEAT BRONZE UNIONS BETWEEN THE SHUT OFF VALVES FOR REMOVAL OF THE DEVICE, EXCEPT 3/4"–2" WILKINS #375 SERIES.
5. THE BACKFLOW DEVICE SHALL HAVE 4 TEST COCKS WITH ONE BEING INSTALLED ON THE CITY SIDE OF THE INLET BALL VALVE.
6. FOR A LIST OF APPROVED BACKFLOW DEVICES CALL METER SERVICES AT (336)373–2071
7. APPROVED ABOVE GROUND ENCLOSURES: HUBBELL POWER SYSTEMS "HOT BOX" OR POLY–EZ BOX, HYDROCOWL, SAFE–T–COVER, SMI (MODEL #B–30–SZD, B41–SZD, B51–SZD) OR BFP PRODUCTS (MODEL #232–APD, 322–APD, 65–APD) ENCLOSURE DESIGN SHALL BE A TWO PIECE DESIGN ASSEMBLY WITH A HINGE AND LOCKING HASP. ALL ENCLOSURES SHALL HAVE A DRAIN.
8. A FLOOR DRAIN IS REQUIRED IF BACKFLOW IS INSTALLED INSIDE OF A BUILDING.
9. TANDEM BACKFLOWS ARE REQUIRED IF SERVICE CANNOT BE INTERRUPTED.

DATE: 6–15–88	REDUCED PRESSURE BACKFLOW PREVENTER	CITY OF GREENSBORO	GSO-12
REVISED: 4–15–20	TYPE: 3/4" – 2 1/2"	WATER RESOURCES DEPARTMENT	SCALE: NOT TO SCALE



CITY OF GREENSBORO WATER RESOURCES DEPT.	VAULT TOP SPECIFICATIONS	GSO-16 REVISED 10-24-06



BOX SIZE: 24" WIDE x 36" LONG x 30" DEEP

MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE AND FIBERGLASS REINFORCED POLYMER

COVER TYPE: TIER 5 IS REQUIRED FOR NON-TRAFFIC BEARING AREAS
TIER 15 IS REQUIRED FOR TRAFFIC BEARING AREAS

**DUE TO VARIATIONS IN CASTINGS OF DIFFERENT MANUFACTURER'S, DIMENSIONS SHALL BE WITHIN REASONABLE TOLERANCES AS PRE-APPROVED BY GREENSBORO WATER RESOURCES DEPARTMENT AND/OR FIELD INSPECTOR PRIOR TO INSTALLATION

APPROVED METER BOXES
- CDR / QUAZITE AS MFG. BY HUBBELL POWER SYSTEMS
- HIGHLINE PRODUCTS

MEETS ASTM C857 A-16 STANDARDS

DESIGN LOADS - BOX & COVER		
LIVE LB/WHEEL	LIVE + IMPACT LB/WHEEL	SIDE PSF
16,000	20,800	30/80
TEST LOADING SHALL MEET A MINIMUM SAFETY FACTOR OF 1.5 - ASTM C497		

GSO-10 REVISED 3-9-15	Meter Box and Cover for 1 1/2" and 2" Meters	City of Greensboro Water Resources Department

McADAMS
The John R. McAdams Company, Inc.
2905 Meridian Parkway
Durham, NC 27713

phone 919. 361. 5000
fax 919. 361. 2269
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BIRMINGHAM, ALABAMA
PHONE: 205.263.4589

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STARBUCKS - BURLINGTON RD
MINOR SITE PLAN SUBMITTAL
6405 BURLINGTON ROAD
WHITSETT, NORTH CAROLINA 27377

Lauren Micallef
2021.10.01 11:29 AM

REVISIONS

NO.	DATE	
1	08. 10. 2021	REVISED PER STARBUCKS & COUNTY COMMENTS
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

PLAN INFORMATION

PROJECT NO.	CGB-20050
FILENAME	CGB20050-CVR+DETAILS
CHECKED BY	LAW
DRAWN BY	LAM
SCALE	N/A
DATE	03. 25. 2021

SHEET

WATER DETAILS

C8.03

M:\Projects\CGBuchalter\CGB-20050\04-Production\Engineering\Construction Drawings\Current Drawings\CGB20050-CVR+DETAILS.dwg, 8/10/2021 11:02:16 AM, Micallef, Lauren

PRELIMINARY DRAWING - NOT RELEASED FOR CONSTRUCTION