

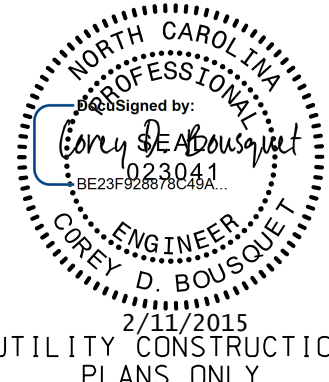
OWNER'S DETAILS (CLTWater)

NOT TO SCALE



License No. C-2639
7520 E. Independence Blvd., Suite 230 Charlotte, NC 28227

PROJECT REFERENCE NO.	SHEET NO.
R-2248G	UC-3B
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	2/11/2015
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY



CMUD PUBLIC FIRE HYDRANTS

PRIVATE FIRE HYDRANTS

COLOR:	SHADE:
OSHA SAFETY YELLOW	YELLOW
OSHA SAFETY BLUE	BLUE
OSHA SAFETY PURPLE	PURPLE
OSHA SAFETY RED	RED
OSHA SAFETY GREEN	GREEN
OSHA SAFETY WHITE	WHITE

FIRE HYDRANT CLASSIFICATION	BARREL	SQUARE TOP / BONNET	STORZ PUMPER NOZZLE	IRON PUMPER NOZZLE	IRON HOSE NOZZLE
1 - FIRE PROTECTION	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY RED	OSHA SAFETY YELLOW
2 - FIRE PROTECTION / MUDDY FLOW	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY RED	OSHA SAFETY RED
3 - AIR RELEASE	OSHA SAFETY BLUE	OSHA SAFETY BLUE	NOT PAINTED	OSHA SAFETY BLUE	OSHA SAFETY BLUE
3 - BLOW-OFF	OSHA SAFETY BLUE	OSHA SAFETY BLUE	NOT PAINTED	OSHA SAFETY BLUE	OSHA SAFETY BLUE
4 - REUSE / RECLAIM	OSHA SAFETY PURPLE	OSHA SAFETY PURPLE	NOT PAINTED	OSHA SAFETY PURPLE	OSHA SAFETY PURPLE

CLASSIFICATION	BARREL	TOP / BONNET	STORZ PUMPER NOZZLE	IRON PUMPER NOZZLE	IRON HOSE NOZZLE
5 - PRIVATE THROUGH WATER METER	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY GREEN	OSHA SAFETY GREEN
6 - PRIVATE via METER AND FIRE BOOSTER PUMP	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY WHITE	OSHA SAFETY WHITE
7 - PRIVATE (6-INCH AND SMALLER MAIN OR LIMITED SUPPLY)	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY BLUE	OSHA SAFETY BLUE
8 - PRIVATE (2-INCH OUTLET YARD HYDRANT)	OSHA SAFETY RED	OSHA SAFETY RED	N/A	N/A	OSHA SAFETY RED

CLASSIFICATION	FLOW CAPACITY (GPM AT 20 PSI RESIDUAL)	BARREL	TOP / BONNET	PUMPER NOZZLE	HOSE NOZZLE
CLASS AA	1500 OR GREATER	CHROME YELLOW	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE
CLASS A	1000 TO 1499	CHROME YELLOW	GREEN	GREEN	GREEN
CLASS B	500 TO 999	CHROME YELLOW	ORANGE	ORANGE	ORANGE
CLASS C	LESS TO 500	CHROME YELLOW	RED	RED	RED

NOTES:
A. PUBLIC FIRE HYDRANTS ARE (1) CONNECTED DIRECTLY TO CMUD WATER DISTRIBUTION SYSTEM, (2) OWNED AND MAINTAINED BY CMUD, AND (3) LOCATED WITHIN THE ROAD RIGHT-OF-WAY OR CMUD WATER MAIN EASEMENT.
B. PRIVATE FIRE HYDRANTS ALL NON-PUBLIC FIRE HYDRANTS, INCLUDING HYDRANTS (1) SERVED VIA CMUD WATER METER, (2) SERVED VIA PRIVATE WATER SYSTEM, AND ARE (3) LOCATED OUTSIDE THE ROAD RIGHT-OF-WAY AND (4) PRIVATELY OWNED AND MAINTAINED.

UTILITY CONSTRUCTION

MANUFACTURERS:

SOUTHERN METER C.H. 5/8" x 3/4" METER BOX BODY
BROOKS #36MB METER BOX BODY
OLDCASTLE #MB36 METER BODY
BES #C09W METER BOX BODY
CHRISTY B9 METER BOX BODY

NOTES:

A. METER BOX SHALL ACCOMMODATE COMPANION PLASTIC METER BOX LID - SEE STANDARD DETAIL.
B. MINOR DIMENSION VARIATIONS ARE PERMITTED, BASED ON MANUFACTURER'S PRODUCT LINES, PROVIDED THE CMUD STANDARD PLASTIC LID FITS PROPERLY.
C. CONCRETE SHALL BE MINIMUM f'c = 3000 PSI COMPRESSIVE STRENGTH.
D. DESIGN SHALL CONFORM TO ASTM C858-SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
E. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C 857.
F. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82.

PLAN VIEW: 19 3/4" x 14 5/8" with 1 3/8" and 3 3/8" radii.

SECTION VIEW A-A: 14 1/4" x 12" with 1 3/4" height.

SECTION VIEW B-B: 7 7/8" x 10 1/2" with 3" height.

PLASTIC LID: 15 3/8" x 10 1/8" with 1 3/4" depth.

BODY: 19 3/4" x 14 5/8" x 12" with 1 3/4" height.

WEIGHT - 70 LB. (MIN.) - 85 LB. (MAX.)

CMUD PUBLIC FIRE HYDRANTS

PRIVATE FIRE HYDRANTS

COLOR:	HATCH TYPE:
OSHA SAFETY YELLOW	SOLID YELLOW
OSHA SAFETY BLUE	SOLID BLUE
OSHA SAFETY PURPLE	SOLID PURPLE
OSHA SAFETY RED	SOLID RED
OSHA SAFETY GREEN	SOLID GREEN
OSHA SAFETY WHITE	SOLID WHITE

FIRE HYDRANT CLASSIFICATION	BARREL	SQUARE TOP / BONNET	STORZ PUMPER NOZZLE	IRON PUMPER NOZZLE	IRON HOSE NOZZLE
1 - FIRE PROTECTION	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY RED	OSHA SAFETY YELLOW
2 - FIRE PROTECTION / MUDDY FLOW	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY RED	OSHA SAFETY RED
3 - AIR RELEASE	OSHA SAFETY BLUE	OSHA SAFETY BLUE	NOT PAINTED	OSHA SAFETY BLUE	OSHA SAFETY BLUE
3 - BLOW-OFF	OSHA SAFETY BLUE	OSHA SAFETY BLUE	NOT PAINTED	OSHA SAFETY BLUE	OSHA SAFETY BLUE
4 - REUSE / RECLAIM	OSHA SAFETY PURPLE	OSHA SAFETY PURPLE	NOT PAINTED	OSHA SAFETY PURPLE	OSHA SAFETY PURPLE

CLASSIFICATION	BARREL	TOP / BONNET	STORZ PUMPER NOZZLE	IRON PUMPER NOZZLE	IRON HOSE NOZZLE
5 - PRIVATE THROUGH WATER METER	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY GREEN	OSHA SAFETY GREEN
6 - PRIVATE via METER AND FIRE BOOSTER PUMP	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY WHITE	OSHA SAFETY WHITE
7 - PRIVATE (6-INCH AND SMALLER MAIN OR LIMITED SUPPLY)	OSHA SAFETY YELLOW	OSHA SAFETY YELLOW	NOT PAINTED	OSHA SAFETY BLUE	OSHA SAFETY BLUE
8 - PRIVATE (2-INCH OUTLET YARD HYDRANT)	OSHA SAFETY RED	OSHA SAFETY RED	N/A	N/A	OSHA SAFETY RED

CLASSIFICATION	FLOW CAPACITY (GPM AT 20 PSI RESIDUAL)	BARREL	TOP / BONNET	PUMPER NOZZLE	HOSE NOZZLE
CLASS AA	1500 OR GREATER	CHROME YELLOW	LIGHT BLUE	LIGHT BLUE	LIGHT BLUE
CLASS A	1000 TO 1499	CHROME YELLOW	GREEN	GREEN	GREEN
CLASS B	500 TO 999	CHROME YELLOW	ORANGE	ORANGE	ORANGE
CLASS C	LESS TO 500	CHROME YELLOW	RED	RED	RED

NOTES:
A. PUBLIC FIRE HYDRANTS ARE (1) CONNECTED DIRECTLY TO CMUD WATER DISTRIBUTION SYSTEM, (2) OWNED AND MAINTAINED BY CMUD, AND (3) LOCATED WITHIN THE ROAD RIGHT-OF-WAY OR CMUD WATER MAIN EASEMENT.
B. PRIVATE FIRE HYDRANTS ALL NON-PUBLIC FIRE HYDRANTS, INCLUDING HYDRANTS (1) SERVED VIA CMUD WATER METER, (2) SERVED VIA PRIVATE WATER SYSTEM, AND ARE (3) LOCATED OUTSIDE THE ROAD RIGHT-OF-WAY AND (4) PRIVATELY OWNED AND MAINTAINED.

UTILITY CONSTRUCTION

MANUFACTURERS:

SOUTHERN METER #C.H. 2 METER BOX BODY
BROOKS #65MB METER BOX BODY
OLDCASTLE PRECAST #MB65 METER BOX BODY

NOTES:

A. METER BOX SHALL ACCOMMODATE COMPANION PLASTIC METER BOX LID - SEE STANDARD DETAIL.
B. MINOR DIMENSION VARIATIONS ARE PERMITTED BASED ON MANUFACTURER'S PRODUCT LINES, PROVIDED THE CMUD STANDARD PLASTIC LID FITS PROPERLY.
C. CONCRETE SHALL BE MINIMUM f'c = 3000 PSI COMPRESSIVE STRENGTH.
D. DESIGN SHALL CONFORM TO ASTM C858-SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
E. STEEL REINFORCING DESIGN SHALL CONFORM TO ASTM C 857.
F. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 AND A 82.

PLAN VIEW: 32 3/4" x 20 3/4" with 1 11/32" and 4 1/4" radii.

SECTION VIEW A-A: 26" x 12" with 1 3/4" height.

SECTION VIEW B-B: 14" x 16 1/2" with 1 3/4" height.

PLASTIC LID: 26 7/8" x 15 1/4" with 1 7/8" depth.

BODY: 32 3/4" x 20 3/4" x 12" with 1 3/4" height.

WEIGHT - 150 LB. (MIN.) - 170 LB. (MAX.)