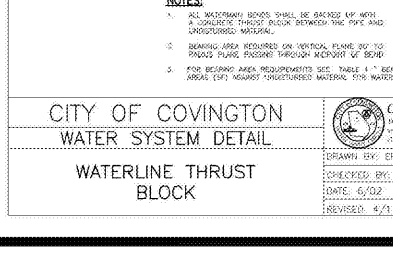
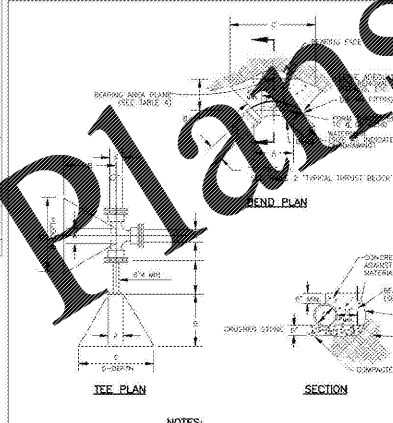
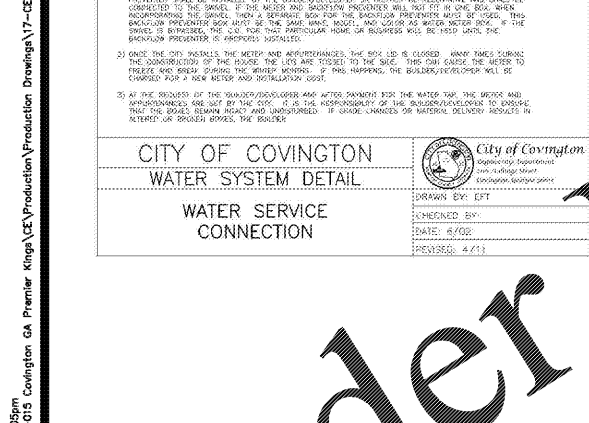
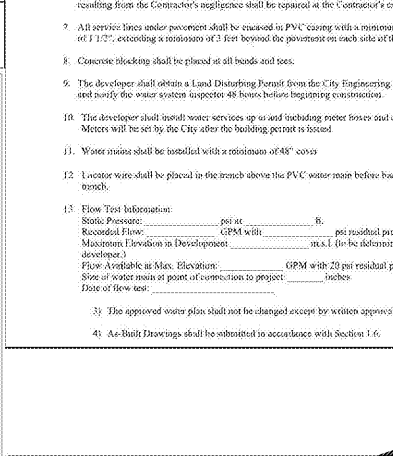
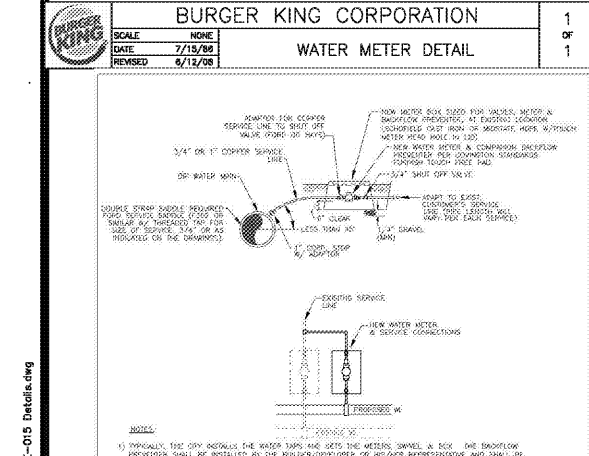


- NOTE:**
- ALL PVC PIPE SHALL BE SCHEDULE 40 AND MINIMUM SIZE OF 1 1/2" (1" MINIMUM DIAMETER).
 - CONCRETE BLOCKING SHALL BE PLACED AT ALL DEAD-END WATER MAINS.
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- City of Covington**
Sanitary Sewer System Construction
General Notes
- All sanitary sewer system construction shall follow the current City of Covington Water & Sewer Standards and Specifications.
 - For 18" P.V.C. sewer lines, the minimum wall thickness for 18" - 24" diameter pipe shall be Pressure Class 150 (minimum wall thickness for 18" - 24" diameter pipe shall be Pressure Class 200, minimum wall thickness for pipe larger than 24" in diameter shall be Pressure Class 150. Wall thickness greater than the minimums called for above may be required due to project specific engineering requirements. Contact the Engineer for the minimums allowed.
 - All Polyvinyl Chloride (PVC) pipe 18" to 24" in diameter shall meet the requirements for minimum wall thickness as specified under SDW 85 to ASTM D2634. Jointed pipe shall be 18" to 24" in diameter shall be Pressure Class 150. Wall thickness greater than the minimums called for above may be required due to project specific engineering requirements. Contact the Engineer for the minimums allowed.
 - Standard Pipe (P.C.P.) is required for sanitary sewer lines:
 - 1) 18" to 24" diameter
 - 2) Crossing water main
 - 3) Under all streets crossings
 - 4) Under all roads and intersections and under all other crossings
 - 5) Where verticality is more than 10 feet
 - 6) In all other locations specified by the City
 - Information regarding underground utilities on these plans is not guaranteed as to accuracy or completeness. Prior to beginning work, the Contractor shall request a field location through the utility protection center and any utility owners thought to have facilities in the area. The Contractor shall promptly compare these field-located facilities with the project plans and then notify the Designer of any anticipated problems or need for contract changes. It is the Contractor's responsibility to determine the exact location of any utility crossings and other critical locations well in advance of the work under this contract. Damage to existing utilities resulting from the Contractor's negligence shall be repaired at the Contractor's expense.
 - All service lines under pavement shall be encased in PVC casing with a minimum diameter of 1 1/2" and extending a minimum of 3 feet beyond the pavement on each side of the road.
 - Concrete blocking shall be placed at all bends and tees.
 - The developer shall obtain a Land Disturbing Permit from the City Engineering Department and notify the water system inspector 48 hours before beginning construction.
 - The developer shall install water services up and including meter boxes and curb stops. Meters will be set by the City after the building permit is issued.
 - Water mains shall be installed with a minimum of 48" cover.
 - Locusts shall be placed in the trench above the PVC water main before backfilling trench.
 - Flow Test Information:
 - Static Pressure: _____ psi at _____ ft.
 - Recorded Flow: _____ GPM with _____ psi residual pressure.
 - Maximum Elevation in Development: _____ ft. (to be determined by developer).
 - Flow Available at Max. Elevation: _____ GPM with 20 psi residual pressure.
 - Size of water main at point of connection to project: _____ inches.
 - Date of flow test: _____
 - The approved water plan shall not be changed except by written approval of the City.
 - As-Built Drawings shall be submitted in accordance with Section 1.6.

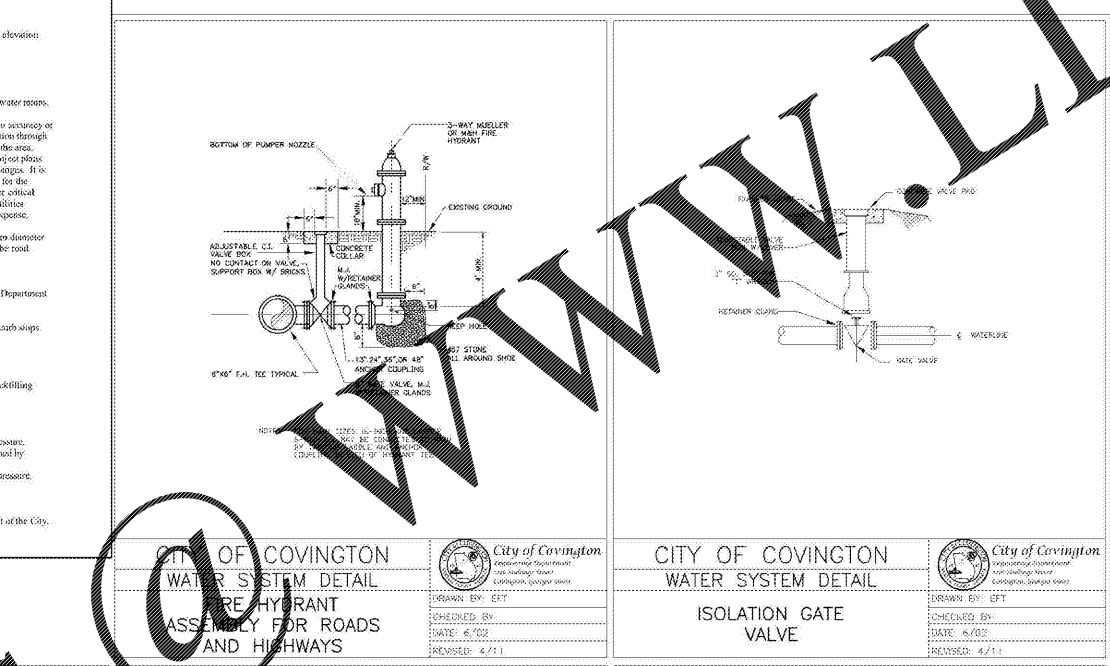
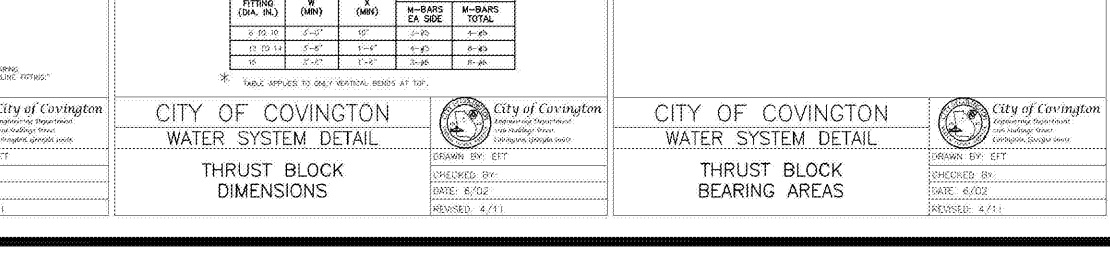


TABLE 2
TYPICAL BLOCK THRUST SIZES

DIAMETER & TEES	1	2	3	4	5
18"	18" x 18"	18" x 24"	24" x 24"	24" x 30"	30" x 30"
24"	24" x 24"	24" x 30"	30" x 30"	30" x 36"	36" x 36"
30"	30" x 30"	30" x 36"	36" x 36"	36" x 42"	42" x 42"
36"	36" x 36"	36" x 42"	42" x 42"	42" x 48"	48" x 48"
42"	42" x 42"	42" x 48"	48" x 48"	48" x 54"	54" x 54"
48"	48" x 48"	48" x 54"	54" x 54"	54" x 60"	60" x 60"
54"	54" x 54"	54" x 60"	60" x 60"	60" x 66"	66" x 66"
60"	60" x 60"	60" x 66"	66" x 66"	66" x 72"	72" x 72"
66"	66" x 66"	66" x 72"	72" x 72"	72" x 78"	78" x 78"
72"	72" x 72"	72" x 78"	78" x 78"	78" x 84"	84" x 84"
78"	78" x 78"	78" x 84"	84" x 84"	84" x 90"	90" x 90"
84"	84" x 84"	84" x 90"	90" x 90"	90" x 96"	96" x 96"
90"	90" x 90"	90" x 96"	96" x 96"	96" x 102"	102" x 102"
96"	96" x 96"	96" x 102"	102" x 102"	102" x 108"	108" x 108"

TABLE 3
DIMENSIONS AND REINFORCING FOR GRAVITY THRUST BLOCK CONSTRUCTION

FITTING (DIA. IN.)	W (MIN.)	X (MIN.)	MAIN REIN.	
			M-BARS EA. SIDE	M-BARS TOTAL
18"	18"	18"	4 #6	8 #6
24"	24"	24"	4 #8	8 #8
30"	30"	30"	4 #8	8 #8
36"	36"	36"	4 #8	8 #8
42"	42"	42"	4 #8	8 #8
48"	48"	48"	4 #8	8 #8
54"	54"	54"	4 #8	8 #8
60"	60"	60"	4 #8	8 #8
66"	66"	66"	4 #8	8 #8
72"	72"	72"	4 #8	8 #8
78"	78"	78"	4 #8	8 #8
84"	84"	84"	4 #8	8 #8
90"	90"	90"	4 #8	8 #8



- Discharges of dredged or fill materials into the creek shall be avoided or minimized through use of other permitted alternatives.
- Discharges of fill in wetland areas during spawning season shall be avoided.
- Discharges of fill shall not restrict or impede the movement of aquatic species indigenous to the waters or the passage of normal or expected high flows or cause the relocation of the water within the primary purpose of the fill to be improved water.
- Discharges of fill in wetland areas shall be avoided.
- Heavy equipment shall be avoided.
- Discharging fill into floating areas for regulatory water flow shall be avoided.
- All temporary fills shall be removed in their entirety.
- No person shall commence, perform, or engage in blasting or in excavating with mechanized excavating equipment on any tract or parcel of land in this county until the person planning the blasting or excavating has given 48 hours' notice by submitting a notice to the utility protection center, beginning the next business day after such notice is provided, including hours during days other than business days. Any notice request received by the utility protection center after business hours shall be deemed to have been received by the utility protection center the next business day.
- Discharges of fill shall not restrict or impede the movement of aquatic species indigenous to the waters or the passage of normal or expected high flows or cause the relocation of the water within the primary purpose of the fill to be improved water.
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Order Plans

CITY OF COVINGTON
WATER SYSTEM DETAIL
WATERLINE THRUST BLOCK

CITY OF COVINGTON
WATER SYSTEM DETAIL
THRUST BLOCK DIMENSIONS

CITY OF COVINGTON
WATER SYSTEM DETAIL
THRUST BLOCK BEARING AREAS