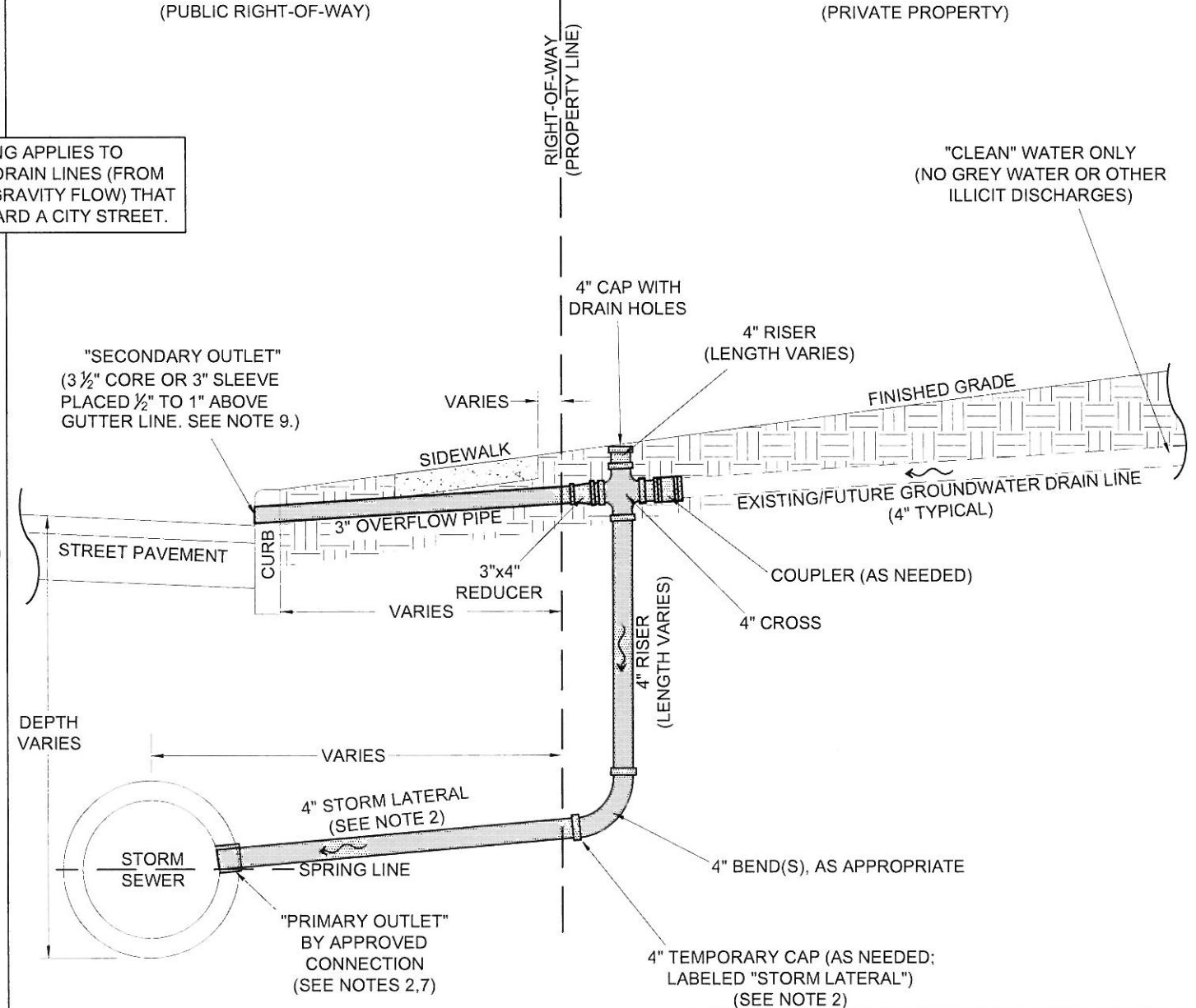
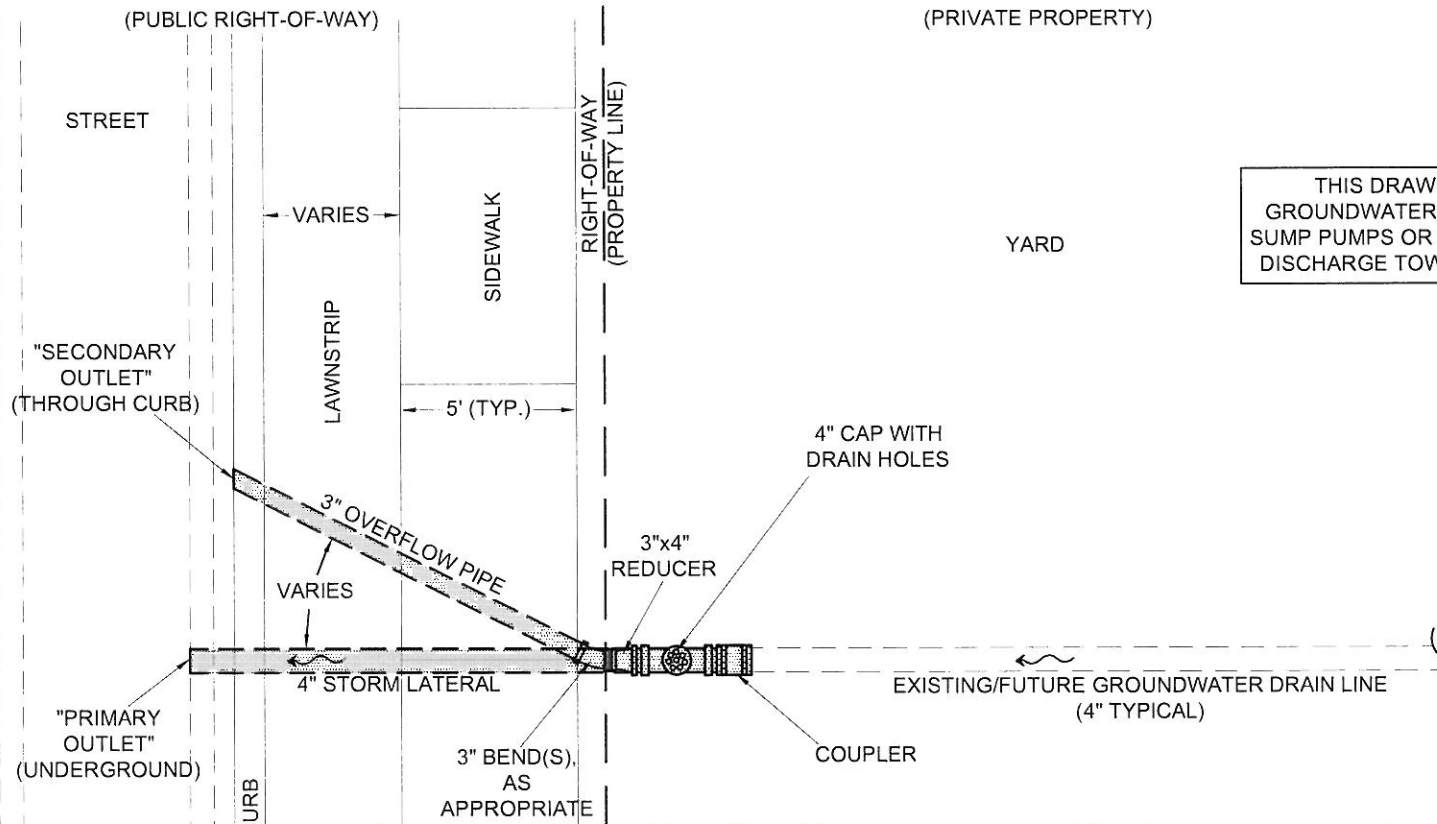


PLAN VIEW
NOT TO SCALE

PROFILE VIEW
NOT TO SCALE



THIS DRAWING APPLIES TO GROUNDWATER DRAIN LINES (FROM SUMP PUMPS OR GRAVITY FLOW) THAT DISCHARGE TOWARD A CITY STREET.

ITEMS, MATERIALS, AND QUANTITIES PER RESIDENTIAL GROUNDWATER DRAIN LINE CONNECTION			
ITEM	MATERIAL TYPE	QUANTITY	UNIT
3" OVERFLOW PIPE	PVC SCH. 40 (707.43 OR 707.45)	VARIES	FT.
3"x4" REDUCER	PVC (707.43 OR 707.45) OR HDPE (707.32 OR 707.33)	1	EACH
APPROVED CONNECTION	(SEE NOTE 5)	1	EACH
4" STORM LATERAL	PVC (SDR 35; 707.45) OR HDPE (707.33) WITH BELL AND SPIGOT RUBBER-GASKETED JOINTS	VARIES	FT.
4" TEMPORARY CAP (AS NEEDED)	PVC (707.43 OR 707.45) OR HDPE (707.32 OR 707.33)	1	EACH
3" & 4" BENDS	PVC (707.43 OR 707.45) OR HDPE (707.32 OR 707.33)	VARIES	EACH
4" RISER	PVC (707.43 OR 707.45) OR HDPE (707.32 OR 707.33)	VARIES	FT.
4" CROSS	PVC (707.43 OR 707.45) OR HDPE (707.32 OR 707.33)	1	EACH
4" CAP WITH DRAIN HOLES	PVC (707.43 OR 707.45) OR HDPE (707.32 OR 707.33)	1	EACH
COUPLER (AS NEEDED)	NEOPRENE WITH STAINLESS STEEL CLAMPS	1	EACH

- NOTES:**
- FOR CITY PROJECTS: ONE GROUNDWATER DRAIN LINE CONNECTION SHALL BE PROVIDED FOR EACH LOT AS DIRECTED BY THE CITY ENGINEER. APPROPRIATE QUANTITIES, PAY ITEMS, AND NOTES SHALL BE PROVIDED ON THE CONSTRUCTION PLANS.
 - FOR NEW SUBDIVISIONS: ONE GROUNDWATER DRAIN LINE CONNECTION SHALL BE PROVIDED FOR EACH LOT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. THE CONTRACTOR/DEVELOPER SHALL PROVIDE APPROVED CONNECTION FOR PRIMARY OUTLET, 4" STORM LATERAL, AND 4" TEMPORARY CAP ONLY. THE LOCATION OF THE 4" TEMPORARY CAP SHALL BE INDICATED BY A STAKE IN THE GROUND LOCATED VERTICALLY ABOVE THE CAP AND CLEARLY MARKED SHOWING STORM LATERAL DEPTH. APPROPRIATE SKETCHES, QUANTITIES, PAY ITEMS, AND NOTES SHALL BE PROVIDED ON THE CONSTRUCTION PLANS. REMAINING PORTIONS OF CONFIGURATION ARE THE RESPONSIBILITY OF THE HOME OWNER/BUILDER. ALL MATERIALS AND WORK SHALL BE AT THE DEVELOPER'S EXPENSE.
 - FOR PRIVATE WORK: THE CONFIGURATION SHOWN IS RECOMMENDED UNLESS OTHERWISE REQUIRED BY THE CITY ENGINEER AS A CONDITION FOR ISSUING APPLICABLE PERMITS OR ADDRESSING RESIDENTIAL GROUNDWATER DISCHARGES DEEMED TO BE A PUBLIC NUISANCE BY THE CITY ENGINEER. ALL MATERIALS AND WORK SHALL BE AT THE OWNER'S EXPENSE.
 - FOR NEW OR VACANT LOTS, THE LOCATION OF THE GROUNDWATER DRAIN LINE CONNECTION SHOULD BE NEAR THE LOWEST CORNER OF THE LOT ALONG THE FRONTAGE. EXCEPTIONS MAY BE APPROVED BY THE CITY ENGINEER.
 - ALL PIPE AND COMPONENTS OF GROUNDWATER DRAIN LINE SYSTEM ARE PRIVATELY OWNED AND MAINTAINED.
 - THE PRIMARY OUTLET PREFERRED CONNECTION IS TO THE BACK OF A CATCH BASIN OR STORM MANHOLE (WHEN AVAILABLE ALONG FRONTAGE) AND SHALL BE MADE BY AN APPROVED CORE-AND-SEAL BOOT. FOR PRIMARY OUTLET DIRECT CONNECTION TO STORM SEWER, CONNECT 4" STORM LATERAL ABOVE SPRING LINE OF STORM SEWER USING MANUFACTURED WYE OR TEE, A SADDLE, OR CORE-AND-SEAL BOOT CONNECTION AS APPROVED BY THE CITY ENGINEER. GROUNDWATER DRAIN LINE MAY BE MODIFIED TO DISCHARGE DIRECTLY TO A DITCH OR CREEK IF AVAILABLE IN LIEU OF A STORM SEWER, CATCH BASIN, OR MANHOLE.
 - ONLY THE 3" OVERFLOW PIPE AND THE 4" STORM LATERAL SHALL BE WITHIN PUBLIC RIGHT-OF-WAY. ALL REMAINING ITEMS TO BE LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
 - WHEN SIDEWALK IS PRESENT/PROPOSED AND WHEN THE 3" OVERFLOW PIPE WILL BE WITHIN THE CONCRETE OF THE SIDEWALK, THE CONTRACTOR SHALL INSTALL A CONTROL JOINT IN THE SIDEWALK OVER SAID PIPE. THE THICKNESS OF THE CONCRETE SIDEWALK OVER THE DOWNSPOUT SHALL NOT BE LESS THAN 2".
 - IF CURB IS NOT AVAILABLE FOR SECONDARY OUTLET, CONSTRUCT SECONDARY OUTLET TO DISCHARGE OVERLAND PER CITY STANDARD DRAWING NO. 22.
 - A "STREET OPENING PERMIT" IS REQUIRED FROM THE ENGINEERING DEPARTMENT FOR ANY EXCAVATION WITHIN CITY RIGHT-OF-WAY OR OTHER CITY-OWNED PROPERTY (REF. CODIFIED ORDINANCE CHAPTER 909).
 - A "SEWER CONNECTION PERMIT" IS REQUIRED FROM THE ENGINEERING DEPARTMENT FOR ANY DIRECT OR INDIRECT CONNECTION OF PIPE TO A CITY-OWNED STORM SEWER, CATCH BASIN, OR MANHOLE.
 - MODIFICATIONS TO THE CONFIGURATION, ITEMS, AND MATERIALS SHOWN MAY BE ALLOWED OR REQUIRED BY THE CITY ENGINEER.
 - FOR OUTLET CONFIGURATIONS OF DOWNSPOUTS THAT DO NOT DISCHARGE GROUNDWATER, SEE CITY STD. DWGS. NO. 22 AND 23.



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APPROVED DATE: MAR. 2012
APPROVED BY: CDB, RMB
DRAWING FILE NAME: ce_24.dwg

REVISIONS		
DESCRIPTION	DATE	BY
REVISIONS	6/4/12	CDB
REVISIONS	7/24/12	CDB

STANDARD DRAWING NO. 24
GROUNDWATER DRAIN LINE CONNECTION