

The following document is a guide for the preparation of plan submittals and is intended to aid in consistent plan reviews.
Please note that site-specific conditions may warrant requirements that are not contained within this document.

Engineering Department Siteplan Review Check List

Project: _____
 Owner: _____
 Engineer: _____

YES	NO	N/A	GENERAL SUBMITTAL REQUIREMENTS	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	This checklist filled out and submitted with plans
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	Name of Project (w/ Phase # if applicable)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	PID# of parcel(s) within project boundaries and adjacent to the project.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	Name, address of Developer, and contact person with phone number.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	Name and address of design professional(s).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	Sheet size to be 24" x 36".
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	Date of Drawing / Revisions.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	Clear vicinity sketch (include adjacent streets and North arrow)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	Legend
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10	North Arrow (all applicable sheets).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11	Signature and seal of NC design professionals on every sheet.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12	Lot layout (building layout if multi-family) with dimensions.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13	A plan view is required for all profile drawings (on the same sheet).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14	The plan view is to be at the top and the profile is to be at the bottom of the sheet and shown in the same direction.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	Plan/Profile scale (no less than 1"=40' HORIZ., 1"=4' VERT).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	Elevations shall be labeled in 10' intervals on heavy lines (use 1' intermediate grid line intervals).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	Plan & profile view data must match.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18	Match lines (w/station numbers on each sheet).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19	Include overall utility plan sheet (with summary of w/s lines by size and length, # MH's & F/H's).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20	Include # of meters by size and type (domestic, irrigation, etc.) on overall utility plan sheet.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21	Bench mark location and datum to be described with true elevations (clearly label on overall plan sheet).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22	Show existing grade on all profiles.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23	All dimensions must be legible.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24	All labels shall be horizontal or vertical (bottom of label to bottom or right side of sheet).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25	Show all existing and proposed utility easements with dimensions.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26	Maintain proper horizontal separation between water, sanitary sewer, and other utilities.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	27	Other utility crossings shown in profile view with proper vertical separation (dimension separation @ crossings).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	28	Evaluate all water and sewer taps for utility crossing conflicts.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	29	Evaluate future practical maintenance access to utilities.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	30	Show 100 year flood plain data (fringe line, elevation, floodway, and FEMA panel number).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31	Show delineated wetlands.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32	Clearly indicate project phase lines (include gate valve, temporary blow-off, storm water BMP, temporary turn-around as required)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33	Include USPS cluster box location outside GDUE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	34	Include all relevant details.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36	Demo Plan
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37	Document is flattened and free of embedded layers or SHX/AutoCAD text

			NEW STREET INFORMATION	
YES	NO	N/A	DRIVEWAYS & PARKING LOTS	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	38	Label type of curbing and proposed surface type.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	39	Private roads, drives, streets and alleys designated as private on plans
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40	Street layout w/ names and width shown on plans. If street names are pending show as street A, street B, street C, etc.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41	Show typical design detail for private/public roads
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42	Ensure any and all sight distance requirements are met (vertical and horizontal).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	43	Dedicate minimum sight distance easements at all street intersections.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	44	Review stubs on public roads at property lines for future construction easements.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	45	Driveways 25' from R/W at intersections
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	46	Sidewalk location on plan view.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	47	Include signage plan (street signs, stop signs, no parking signs, etc)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48	Note on plat: Any public stub streets are provided for extensions to serve future development.
YES	NO	N/A	PUBLIC WATER LINE INFORMATION	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	49	Public water line located on the North and East sides of new public streets.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50	Public water line designed at minimum depth (36" if < 10" diameter, 42" otherwise)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51	Public water line deeper than 5' requires approval from Two Rivers Utilities on a case-by-case basis
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52	Provide plan/profile for all public waterlines regardless of size.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	53	Size & type of public water line in both plan and profile views.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	54	Evaluate the need for vertical and horizontal bends.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	55	Length of public main between fittings on plan view.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	56	List all fittings or appurtenances (size and type) on plan view with station number.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	57	Depth of public water line at correct depth (shown on profile).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	58	Show water meter locations.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	59	Dimension and depict public water line in proper location based upon the street section used.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	60	Reduction in waterline sizes to utilize reducer (in lieu of T/2 plug).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61	Proper fire hydrant spacing (must be within 400' of all exterior building walls)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62	Correct amount of gate valves @ all public intersections and out of pavement.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	63	Evaluate the need for air release valves (10' elevation change).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	64	Evaluate the need for pressure reducers at low elevations and high pressure zones.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	65	Blowoff needed if no fire hydrant is within 50' of end of line.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	66	Evaluate if blowoff is needed at sag on 12" line. Needed on sag for 16"+.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	67	Note if restraining or blocking will be utilized at T's and bends. Show lengths if restraining.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	68	Public water line crossings to have 12" verticle separation. Approved sealed alternative design other wise.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	69	Private fire hydrants to be painted yellow.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	70	Show DIP encasement pipe and restraint at bore. Ensure blocking at Tee doesn't encroach.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	71	Waterlines to have bends where radiuses are tighter than (PVC 1,200' - DIP<14" 250' - DIP 14"-36" 400' DIP>36 Engineer Reference)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	72	Provide water main calcs.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	73	GDUE to be provided for any public water lines and meters not within a public R/W.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	74	Commercial properties will require backflow preventors outside of the GDUE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	75	Polywrap required if within 10' of metal gas line.

YES	NO	N/A		PUBLIC SEWER LINE INFORMATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	76	Size & type of sewer line in both plan and profile views.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	77	Grade of sewer line in profile view (minimum 0.6%, maximum 10.0%).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	78	Invert elevations in profile view.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	79	Manholes shown by manhole and station numbers in plan and profile views.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	80	Length of main between manholes in plan and profile views, (Max 350' unless outfall)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	81	Manhole rim elevations in plan and profile view.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	82	Minimum drop "across" manhole of 0.2'.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	83	Sewer inverts of different diameters shall match crowns.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	84	Minimum ground cover of 36" for all types of sewer line other than ductile iron.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	85	Minimum ground cover of 30" if Ductile Iron and in roadway.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	86	Outside drop manholes required for drops over 2.5'.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	87	"Shade" DIP on profiles.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	88	Manhole depths greater than 14' require 5' diameter manhole sections (label in plan/profile).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	89	Show sanitary sewer tap locations.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	90	If piers are required, city standard detail cited.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	91	Location of piers by stations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	92	Top of footing to be located a minimum of 1' below the invert of the creek (label elevation).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	93	"Show" piles in profile view.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	94	Flows the 25 year event under the aerial.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	95	Show location, size, length, type, and depth of force main.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	96	Force Main to be designed at 5' depth and 5' off edge of pavement where applicable.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	97	Label all sealed manholes, show vents in profile view with vent elevation (2' above 100 year elevation).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	95	All manholes to be 2' above 100 year flood elevation unless sealed.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	96	Minimum 30' GDUE required for SS outside of street R/W. Additional may be required for excessive depth.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	97	Depths over 20' require DIP. Depths over 14' in street require all DIP (mainline, taps, etc)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	98	DIP for sewer in fill sections.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	99	Include sanitary sewer pipe sizing calculations for more than 2,500 bedrooms.

YES	NO	N/A		STORM DRAIN AND EROSION CONTROL INFORMATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	Show phase II stormwater as required - Coordinate with Gaston County Natural Resources
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	101	Evaluate downstream of storm outlet to minimize impacts
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	102	Submit storm calcs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	103	Pipe and structure plans to be shown on grading sheets and utility sheets.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	104	Show BMP access easement
YES	NO	N/A		FLOOD STUDY INFORMATION
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	105	Completed FEMA application form MT1/2.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	106	Narrative on project and submittal explaining any adjustments, revisions, or omissions to any models.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	107	Hydrologic computations along with digital files of computer models.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	108	Hydraulic computations along with digital files of Duplicate Effective, Corrected Effective, and Proposed models used.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	109	Certified topographic map with floodplain, floodway, and cross-section delineations.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	110	Annotated FEMA FIRM and/or FBFM to reflect changes due to project.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	111	Engineers "no-rise" certification.
YES	NO	N/A		MINIMUM GRADING DESIGN STANDARDS (see current grading policy)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	112	Detailed grading plan utilizing 1' contours.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	113	Show building pads (or building envelopes) with proposed pad elevation or FFE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	114	Retaining walls \leq 8 ft in height.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	115	Safety rail/fence specified for all retaining walls \geq 30 inches in height.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	116	Grading should not create any sheet or concentrated run off onto adjacent properties creating potential hazards.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	117	Provide spot elevations at all intersections.

YES	NO	N/A		OTHER ITEMS:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	118	Land Development application submitted.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	119	All utility applications submitted (water/sewer/contract, etc.). TRU tap application submitted.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	120	Approved Erosion Control Plan and permit.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	121	Temporary construction and/or off-site easement deeds submitted.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	122	R/W documentations for all off-site street improvements.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	123	NCDOT driveway permit and encroachment applications.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	124	Private utility encroachments as required. (Duke Power, AT&T, PSNC, Bell South, Colonial, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	125	Submit sealed engineering design tables and calculations. These must match the plans.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	126	Wetlands delineation map and associated permit(s).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	127	Legible storm drainage area map and associated calculations (24"x36", areas, structure #'s).
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	128	Include digital copy of the construction documents (with "final" submittal).
YES	NO	N/A		COVER SHEET NOTES:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	129	In case of conflict, City of Gastonia specifications and details shall prevail and the City Engineer or their representative shall be the final arbiter of said conflict.
	<input type="checkbox"/>	<input type="checkbox"/>	130	As-Builts and certifications must be submitted and approved by City prior to issuance of COC.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	131	All deeds and easements required by the City of Gastonia must be recorded prior to issuance of Certificate of Compliance.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	132	Authorization to construct is not valid until pre-construction meeting has been held with City of Gastonia staff.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	133	Site Plan approval does not authorize any grading on adjacent properties.
				GENERAL PUBLIC STORM DRAINAGE SYSTEM NOTES
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	134	MAXIMUM INTERNAL VELOCITY IN RCP SYSTEMS SHALL BE 10 FT./SEC. AND 5FT./SEC. AT OUTLET
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	135	THE FIELD INSPECTOR, WITH APPROVAL FROM THE CITY ENGINEER, SHALL HAVE THE AUTHORITY TO REQUIRE ADDITIONAL RIP-RAP ALONG DRAINAGE AREAS WHERE WARRANTED BY POSSIBLE EROSION OR WHERE DRAINAGE AREAS CROSS OTHER UTILITIES.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	136	THE FIELD INSPECTOR, WITH APPROVAL FROM THE CITY ENGINEER, SHALL HAVE THE AUTHORITY TO REQUIRE EXTENSIONS FROM THE PROPOSED STORM DRAINAGE SYSTEMS WHERE FIELD CONDITIONS SO WARRANT.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	137	STORM DRAINAGE SYSTEMS SHALL BE DESIGNED TO TERMINATE SO AS NOT TO REQUIRE TAIL DITCHES WITHIN THE 100 YEAR FLOOD PLAIN AREA. IF EXTENUATING CIRCUMSTANCES EXIST, ANY TAIL DITCHING WITHIN THE 100 YEAR FLOOD PLAIN SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	138	OPEN DRAINAGE SYSTEMS RECEIVING GREATER THAN ONE (1) ACRE OF DRAINAGE AREA SHALL NOT BE ALLOWED TO DISCHARGE OVER THE STREET CURB WITHOUT A STORM DRAINAGE SYSTEM DESIGNED IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. OPEN DRAINAGE SYSTEMS OF GREATER THAN ONE (1) ACRE OF DRAINAGE AREA SHALL BE PIPED WITH STORM DRAINAGE SYSTEMS, IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS, BEHIND THE RIGHT-OF-WAY, OR AS POLICY MAY DICTATE AT THE REAR PROPERTY LINE.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	139	THE DEVELOPER'S ENGINEER SHALL BE REQUIRED TO ASSURE IN AREAS BEING DEVELOPED, THAT ADEQUATE DRAINAGE FACILITIES WILL BE INSTALLED, AS PER CITY STANDARDS AND SPECIFICATIONS, AT ALL STREET INTERSECTIONS SO AS TO PREVENT PONDING OF WATER IN THE STREET INTERSECTION CURBS.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	140	NOTE: Construction <u>SHALL NOT</u> begin prior to a preliminary construction inspection of the site. Contact the Construction Engineer / Right-of-Way Administrator at (704) 866-6015 at least one (1) working day prior to beginning construction. All construction to conform to a site plan approved by the City Engineer and Planning Director.

YES	NO	N/A		ADD NOTES:
			141	All water and sewer taps to be installed by developer's utility contractor with approval of Two Rivers Utilities / City of Gastonia.
			142	Submit tap application and tap materials to Two Rivers Utilities for review after plans are approved. Tap application and tap materials approval must be obtained before pre-construction meeting is scheduled and/or taps are installed. Tap materials should be submitted separate from water & sewer main construction materials. Do not submit materials sheets for items selected from the Approved Materials Checklist.
				SEWER
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	143	Contractor to provide video of completed sanitary sewer as required by the COG.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	144	Contractor is to provide compaction testing for the installation of all sanitary sewer lines in fill areas.
				WATER
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	145	10" or smaller diameter water to be placed at 36" depth. Water 12" or greater in diameter to be placed at 42" depth. (typical)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	146	Pipe deflection at joints is limited to 1/2 the manufacturer's recommended degree of deflection.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	147	All backflows must be tested by a certified backflow tester upon installation and yearly thereafter. Submit passing test reports to Two Rivers Utilities

CityStaff: Move to applicable Master Project if relevant

Reviewed By: _____

Date: _____