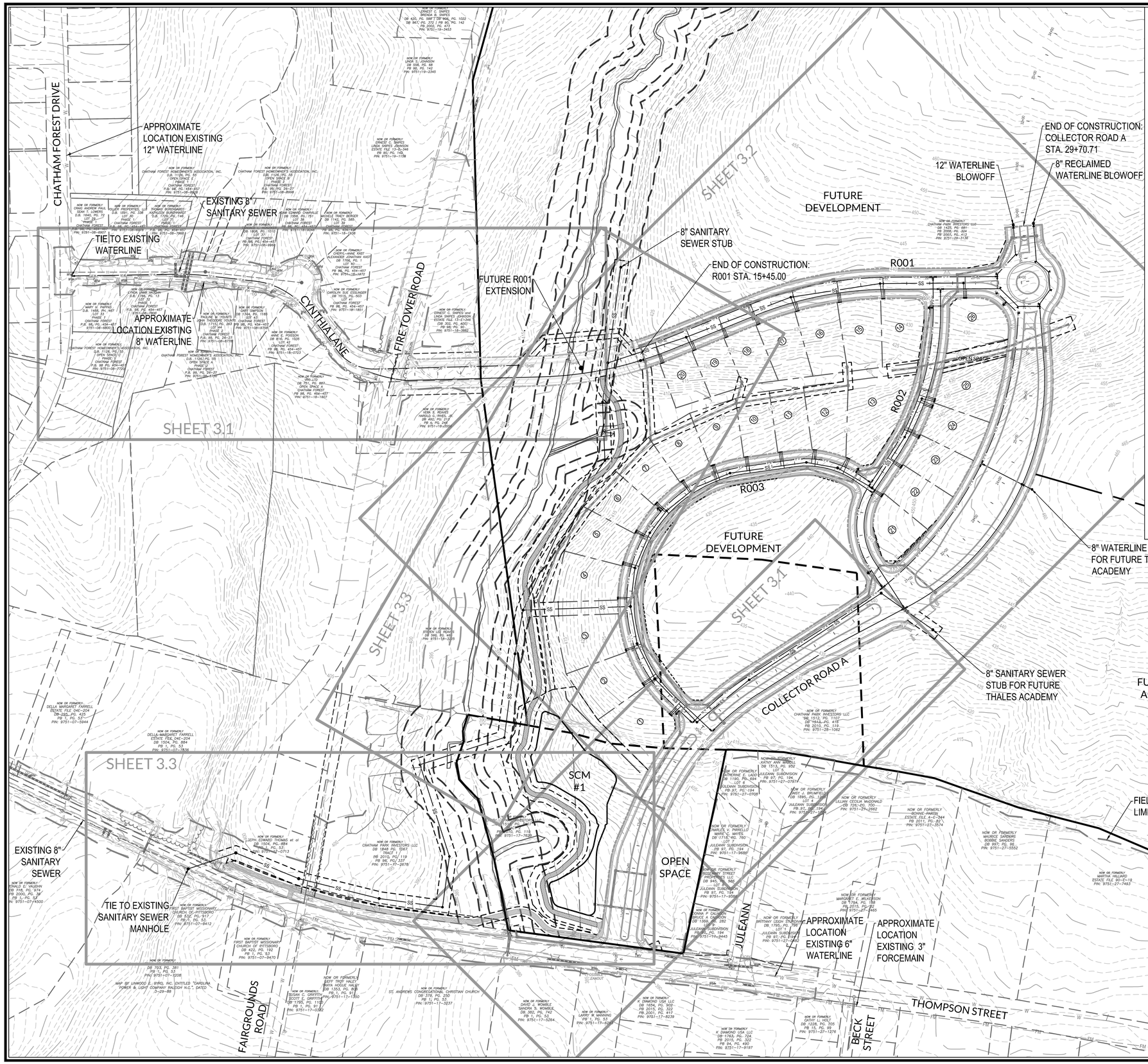

GENERAL UTILITY NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST TOWN OF PITTSBORO STANDARD SPECIFICATIONS AND DETAILS.
2. ALL CONSTRUCTION WITHIN THE NCDOT PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST NCDOT STANDARD SPECIFICATIONS.
3. ALL STORM DRAINAGE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED.
4. ALL UTILITY LINES SHALL HAVE 20' EASEMENTS CENTERED ON THE LINES UNLESS LOCATED COMPLETELY IN ROAD R/W.
5. WATERLINE SHALL BE 2' MINIMUM OFF EDGE OF PAVEMENT UNLESS SHOWN OTHERWISE. ALL WATER LINES SHALL BE DUCTILE IRON PIPE. WATERLINE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 3' FROM FINISHED GRADE.
6. A 3' - 5' CLEARANCE SHALL BE MAINTAINED AROUND ALL FIRE HYDRANTS, INCLUDING CLEARANCE FROM TREES AND SHRUBS.
7. WATERLINES SHALL BE LAID AT A MINIMUM OF 10 FEET LATERALLY MEASURED OUTSIDE EDGE TO OUTSIDE EDGE FROM EXISTING OR PROPOSED SANITARY SEWERS UNLESS THE ELEVATIONS OF THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER WITH A HORIZONTAL SEPARATION OF AT LEAST 3 FEET.
8. WHEN A WATER MAIN MUST CROSS OVER A SEWER MAIN, THE BOTTOM OF THE WATER MAIN SHALL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER MAIN. IF THIS SEPARATION CANNOT BE OBTAINED WHILE MAINTAINING THE REQUIRED COVER, BOTH THE WATER AND SEWER MAINS SHALL BE DUCTILE IRON PIPE, WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS, FOR 10 FEET ON EACH SIDE OF THE POINT CROSSING. A JOINT OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
9. WHEN A WATER MAIN MUST CROSS UNDER A SEWER MAIN, BOTH THE WATER AND SEWER MAINS SHALL BE DUCTILE IRON PIPE, WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS, FOR 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. VERTICAL SEPARATION BETWEEN THE TOP OF THE WATER MAIN AND THE BOTTOM OF THE SEWER MAIN SHALL BE MINIMUM 12 INCHES.
10. WHEN A WATER MAIN PIPE CROSSES OVER OR UNDER A STORM SEWER, VERTICAL SEPARATION BETWEEN THE PIPES SHALL BE MINIMUM 18 INCHES UNLESS BOTH PIPES ARE DUCTILE IRON OR ENCASED IN CONCRETE FOR 10 FEET EITHER SIDE OF THE CROSSING.
11. SANITARY SEWER MAINS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 24 INCHES BETWEEN STORM SEWERS WHEN THE HORIZONTAL SEPARATION IS 3 FEET OR LESS. WHERE SANITARY AND STORM SEWERS CROSS WITH A VERTICAL SEPARATION LESS THAN 24 INCHES THE SANITARY SEWER PIPE SHALL BE DUCTILE IRON PIPE WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS. A SECTION OF SANITARY SEWER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
12. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHOWN ON PLANS IS BASED ON BEST AVAILABLE INFORMATION BUT CAN BE CONSIDERED ONLY AS APPROXIMATE.
13. SEWER LINES AND SERVICES INSTALLED WITH A DEPTH OF COVER LESS THAN 3' OR OVER 20 FEET SHALL REQUIRE DUCTILE IRON PIPE FOR THE ENTIRE RUN BETWEEN MANHOLES OR CLEANOUTS.
14. ALL MANHOLES LOCATED OUTSIDE OF PAVED AREAS SHALL BE INSTALLED BETWEEN 2 AND 3 FEET ABOVE FINISHED GRADE. MANHOLES TALLER THAN 3 FEET ABOVE FINISHED GRADE SHALL BE CONSTRUCTED WITH STEPS CAST INTO THE EXTERIOR OF THE MANHOLE.
15. FOR 8"-12" SEWER LINES, 4' DIA MANHOLES SHALL BE USED FOR DEPTHS UP TO 12', 5' DIA MANHOLES FOR DEPTHS FROM 12' TO 20', AND 6' DIA MANHOLES FOR DEPTHS GREATER THAN 20'.

TOWN OF PITTSBORO UTILITY NOTIFICATION NOTES:

1. THE OWNER/CONTRACTOR SHALL NOTIFY THE TOWN OF PITTSBORO AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION. ONCE CONSTRUCTION HAS BEGUN, AT LEAST 48 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY SORT OF DISRUPTION TO THE TOWN'S SERVICES SUCH AS TAPPING WATER MAINS, OPERATING VALVES, CLOSING STREETS, PLUGGING SEWERS, ETC.
2. NOTIFICATION MUST BE PROVIDED BY DIRECT COMMUNICATION. VOICEMAIL OR EMAIL WILL NOT BE CONSIDERED PROPER NOTIFICATION UNLESS ADEQUATELY RESPONDED TO BY A TOWN OF PITTSBORO REPRESENTATIVE.
3. THE OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL CUSTOMERS AFFECTED BY SERVICES INTERRUPTIONS. THE TOWN OF PITTSBORO WILL NOT APPROVE SERVICE INTERRUPTIONS UNTIL PROOF THAT PROPER CUSTOMER NOTIFICATION HAS BEEN PROVIDED.
4. EXISTING VALVES SHALL BE OPERATED ONLY WITH A REPRESENTATIVE OF THE TOWN OF PITTSBORO PRESENT.

GRAPHIC SCALE
100 0 50 100 200
1 inch = 100 ft.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF PITTSBORO AND NCDOT STANDARD DETAILS AND SPECIFICATIONS, LATEST REVISIONS.

APPROVED FOR CONSTRUCTION

TOWN OF PITTSBORO

WithersRavenel
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CHATHAM PARK SECTION 5.1

PITTSBORO, CHATHAM COUNTY, NORTH CAROLINA

OVERALL UTILITY PLAN

Job No.	02150098.12	Drawn By	JCI
Date	11/07/16	Designer	JCI

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19802 JOHN C. INGRAM

PRELIMINARY
NOT APPROVED FOR CONSTRUCTION

Revisions

Sheet No.
3.0

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