GENERAL NOTES:

23. CONTRACTOR SHALL MAINTAIN A MEANS FOR ACCESS TO EACH PROPERTY, RESIDENCE, AND BUSINESS 1. ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, AND ALL NECESSARY AT ALL TIMES. 24. DURING CONSTRUCTION, EMERGENCY VEHICLE APPARATUS ACCESS AND ACCESS TO FIRE HYDRANTS SHALL BE MAINTAINED AT ALL TIMES. OWNER OR THEIR REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE. 25. ALL CONSTRUCTION SHALL BE LIMITED TO STREET RIGHTS-OF-WAY AND OBTAINED EASEMENTS. WHERE THE CONTRACTOR DETERMINES THAT ENCROACHMENT ONTO PRIVATE PROPERTY IS NECESSARY AND AN EASEMENT HAS NOT BEEN PROVIDED, THE CONTRACTOR SHALL CONTACT INDIVIDUAL PROPERTY OWNERS AND ENCOUNTERED THAT VARY FROM THE INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. OBTAIN WRITTEN APPROVAL FOR THAT ENCROACHMENT. SUCH APPROVALS SHALL BE PROVIDED TO THE UTILITY OWNER. NCDOT. AND THE ENGINEER. **DOCUMENT NOT CONSIDERED FINAL** UNLESS ALL SIGNATURES COMPLETED 26. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENNANTS AT LEAST 7 DAYS PRIOR TO 8. PIPE ALIGNMENT SHOWN IS BASED ON STANDARD DUCTILE IRON MECHANICAL JOINT FITTINGS. CONSTRUCTION THAT CONSTRUCTION ACTIVITY WILL TAKE PLACE IN THEIR AREA. FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO JOINT DEFLECTIONS SHALL NOT EXCEED 75 PERCENT OF MANUFACTURER'S RECOMMENDED DEFLECTION. ENSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONTRACTOR SHALL ADJUST PIPELINE ALIGNMENT AND DEFLECT JOINTS AS NECESSARY TO 27. CONTRACTOR SHALL REMOVE AND REPLACE ALL CONFLICTING MAIL BOXES, CULVERTS, HEADWALLS, CONSTRUCTION SIGNAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND ACCOMMODATE THE STANDARD BENDS SHOWN. ORNAMENTAL STRUCTURES, SIGNS, HARDSCAPING, ETC. WITHIN THE RIGHT OF WAY OR PERMANENT EASEMENT UNLESS OTHERWISE SHOWN ON THE PLANS OR IN THE CONTRACT DOCUMENTS. CONFLICTING TREES WITHIN NCDOT. 9. DETECTABLE WARNING TAPE AND TRACER WIRE IS REQUIRED FOR ALL BURIED PIPE AND SHALL THE RIGHT OF WAY SHALL BE REMOVED AND NOT REPLANTED. BEAR THE APPROPRIATE AWPA COLORING AND TEXT FOR THE APPLICABLE UTILITY. INSULATED 14GA TRACER WIRE SHALL BE INSTALLED ALONG ALL PIPELINES AND SHALL BE ACCESSIBLE FROM THE 28. THE CONTRACTOR SHALL INSTALL ALL SIGNS AS REQUIRED BY NCDOT ALONG STATE ROADWAYS AND AS FINISHED GRADE WITHIN ALL VALVE BOXES, MANHOLES, AND OTHER END POINTS OF TRACER WIRE. REQUIRED BY CITY OF GOLDSBORO ALONG CITY STREETS AND PUBLIC PARKING AREAS. SPLICES IN TRACER WIRE SHALL BE MADE WITH SPLICE CONNECTORS DESIGNED FOR THE INTENDED PURPOSE AND IN ACCORDANCE WITH TRACER WIRE MANUFACTURER'S RECOMMENDATIONS. 29. LANE AND SHOULDER CLOSURES SHALL BE IN ACCORDANCE WITH NCDOT REQUIREMENTS. 10. ALL MANHOLE COVERS AND VALVE BOX LIDS FOR WATER SHALL READ "WATER", ALL MANHOLE 30. TRENCHES AND EXCAVATIONS SHALL BE BACKFILLED OR COVERED WITH ROAD PLATES AT THE END OF START OF CONSTRUCTION. OR AS OTHERWISE SPECIFIED HEREIN. CITY OF GOLDSBORO CONSTRUCTION COVERS AND VALVE BOX LIDS FOR SEWER SHALL READ "SEWER", AND ALL SHALL BE IN ACCORDANCE EACH WORK DAY. OPEN ENDS OF INSTALLED LINE SHALL BE CAPPED WITH A WATERTIGHT CAP DESIGNED WITH NCDOT AND APPLICABLE UTILITY OWNER STANDARDS AND DETAILS. FOR THE INTENDED USE. RESPECTIVELY. 11. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO 31. CONTRACTOR SHALL PATCH ALL ROADWAY PAVEMENT DISTURBANCES TO RECEIVE TRAFFIC BY THE END FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO OF EACH WEEK. TEMPORARY PATCHES OF COMPACTED AGGREGATE BASE COURSE (ABC) OR COMPACTED THE ATTENTION OF THE OWNER(S) AND ENGINEER. ASPHALT MILLINGS SHALL BE PROVIDED DAILY AND MAINTAINED FLUSH WITH ADJACENT PAVEMENT UNTIL PAVEMENT PATCH IS PROVIDED. EROSION CONTROL SHALL BE PROVIDED AS NECESSARY FOR TEMPORARY 8. THE CONTRACTOR SHALL PROVIDE ALL STAKEOUT SURVEY. ANY EXISTING STAKEOUT OR BENCHMARKS 12. EXISTING WATER SERVICES SHALL REMAIN IN SERVICE AT ALL TIMES UNTIL THE PROPOSED MAIN PATCH AREAS. SHALL NOT BE RELIED UPON BY THE CONTRACTOR. IS TESTED AND PHASED INTO SERVICE. 32. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL REMOVE FROM THE SITE ALL TOOLS, 9. COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON THE NORTH CAROLINA STATE PLANE COORDINATE APPLIANCES, CONSTRUCTION EQUIPMENT AND MACHINERY, SURPLUS MATERIALS, AND DEBRIS AND SHALL ASBESTOS CEMENT PIPE NOTES: RESTORE TO ORIGINAL CONDITION OR BETTER ALL PROPERTY NOT DESIGNATED FOR ALTERATION BY THE 1. CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS FOR CONTRACT DOCUMENTS. 10. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR SAFELY CUTTING, DEMOLISHING, AND DISPOSING OF ASBESTOS CEMENT PIPE. PROFILE BY THE UTILITY OWNER PRIOR TO CONSTRUCTION. 33. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR ALL UTILITY CONSTRUCTION PRIOR TO PLACING 2. CONTRACTOR SHALL TAKE ANY PRECAUTIONS NECESSARY TO AVOID EXPOSING WORKERS OR THE THE PIPELINE(S) IN SERVICE. PUBLIC TO ASBESTOS FIBERS. CONTRACTOR TO DETERMINE THE SIZE, DEPTH, MATERIAL AND LOCATION OF ALL EXISTING UNDERGROUND 3. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CUTTING, DEMOLISHING, OR DISPOSING UTILITY NOTES: PROTECTION. THE ENGINEER HAS ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THE OF ASBESTOS CEMENT PIPE. 1. UTILITY SEPARATION REQUIREMENTS: PLANS; HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER A. DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR 4. CONTRACTOR SHALL FOLLOW ALL NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES AND THE OWNER(S) ASSUME NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING PRIOR TO DIGGING ON AND OFF SITE, THE CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED BY "NC 811" REQUIREMENTS DURING CONSTRUCTION. WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM LOCATED BY "NC 811" FOR EXACT LOCATION OF THEIR UTILITIES PRIOR TO STARTING CONSTRUCTION. IT 5. CONTRACTOR SHALL FOLLOW ALL OSHA ASBESTOS REQUIREMENTS DURING CONSTRUCTION. SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL. SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ANY AND ALL B. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN DAMAGE MADE TO UTILITIES BY THE CONTRACTOR TO PRECONSTRUCTION CONDITION OR BETTER AT THE 6. ALL ASBESTOS PIPE DISPOSAL SHALL CONFORM WITH ALL FEDERAL AND STATE REQUIREMENTS. UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONTRACTOR'S EXPENSE. CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE 7. ASBESTOS PIPE ABANDONED IN PLACE SHALL BE FILLED WITH FLOWABLE FILL. ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY 12. DEPTH AND LOCATION OF BURIED DATA AND TELECOMMUNICATIONS CABLES (FIBER OPTICS AND THE OWNER. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER. CONVENTIONAL) ARE KNOWN TO VARY DUE TO INSTALLATION TECHNIQUES. CONTRACTOR SHALL COORDINATE GENERAL SEQUENCE: C. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER ITS WORK WITH CONFLICTING CABLES AS NECESSARY FOR INSTALLATION OF THE PROPOSED WATER AND PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF 1. FOR EACH WATER LINE AND SEWER LINE RELOCATION. THE CONTRACTOR SHALL PROVIDE THE SEWER. COORDINATION WITH EXISTING UTILITIES SHALL BE INCLUDED IN THE PROJECT SCHEDULE. CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. UTILITY OWNER WITH A DETAILED INSTALLATION, CONNECTION, AND SERVICE INTERRUPRTION PLAN COORDINATION AND PHASING RELATED TO EXISTING UTILITIES ARE INCLUSIVE TO THE PROJECT AND NO D. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & FOR APPROVAL AT LEAST SEVEN (7) DAYS PRIOR TO THE RELOCATION. AT A MINIMUM, EACH PLAN SPECIFIC OR ADDITIONAL PAYMENT SHALL BE MADE. STORM SEWER FACILITIES. UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER. SHALL ADDRESS THE FOLLOWING: E. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS ANY SUPPORT CROSSINGS: MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN A. SEQUENCE OF CONSTRUCTION OPERATIONS. CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, DIP MATERIALS & A CONCRETE SUCH WORK SHALL BE PAID BY THE CONTRACTOR. CRADLE IN ACCORDANCE WITH DETAIL 6/UC-3A SHALL BE INSTALLED. B. PROCEDURE FOR FLUSHING, TESTING, AND DISINFECTION OF ALL AFFECTED PIPING AND F. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" VALVES, AS REQUIRED BY THE UTILITY OWNER. 14. THE CONTRACTOR SHALL VERIFY THE VOLTAGES OF ALL ELECTRICAL UTILITIES AND FOLLOW THE MIN. VERTICAL SEPARATION REQUIRED. APPROPRIATE OSHA STANDARDS WHEN WORKING IN THEIR VICINITY. C. PHASING AND SCHEDULE FOR ALL CONNECTIONS, INCLUDING PLANNED SERVICE OUTAGES, 2. MINIMUM PIPE COVER FOR DISTRIBUTION WATER MAINS SHALL BE 4 FEET AND TRANSMISSION DURATION, AND CONTINGENCY PLAN. 15. UNLESS OTHERWISE INDICATED, ALL GRADE ELEVATIONS SHOWN ARE ALONG THE PIPE CENTERLINE. WATER MAINS SHALL BE 5 FEET, UNLESS DUCTILE IRON PIPE IS USED AND LESS COVER IS SPECIFICALLY SHOWN ON DRAWINGS OR AS APPROVED BY THE UTILITY OWNER OR ENGINEER. 2. NO INTERRUPTION OF SERVICE WILL BE PERMITTED UNTIL THE FOREGOING PLAN HAS BEEN 16. UTILITY OWNERS WILL FURNISH DESCRIPTIONS OF EASEMENTS UPON REQUEST. APPROVED BY THE UTILITY OWNER. THE UTILITY OWNER'S PERSONNEL SHALL OPERATE THE UTILITY 3. TRENCHES SHALL BE IN STRICT ACCORDANCE WITH DETAIL 5/UC-3D. UNLESS OTHERWISE OWNER'S EXISTING FACITLITIES INVOLVED IN THE INTERRUPTIONS OF SERVICE. SPECIFIED BEDDING AND BACKFILL SHALL BE IN STRICT ACCORDANCE WITH BEDDING TYPE B (SEE 3. PLANNED SERVICE CONNECTION INTERRUPTIONS SHALL LAST NO LONGER THAN 8 HOURS UNLESS DETAIL 2/UC-3D). OTHERWISE APPROVED BY THE UTILITY OWNER. ALL INTERRUPTIONS OF SERVICES SHALL BE 18. TRAFFIC ISLANDS, CURBS, CONCRETE DRIVEWAYS, AND OTHER CONCRETE SURFACINGS SHALL BE 4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING CUSTOMERS COORDINATED WITH AND SCHEDULED AT TIMES ACCEPTABLE TO THE UTILITY OWNER. REPLACED TO THE FIRST EXPANSION JOINT BEYOND THE TRENCH EXCAVATION LIMITS AND TO THE FULL THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE COORDINATION WITH AND TAKE PLACE AT A TIME AND DATE ACCEPTABLE TO THE UTILITY OWNER. A 4. WRITTEN WATER SERVICE INTERRUPTION NOTICES SHALL BE PROVIDED TO ALL AFFECTED 72 HOUR ADVANCE NOTICE SHALL BE PROVIDED TO AFFECTED CUSTOMERS. CUSTOMERS AT LEAST 72 HOURS PRIOR TO EACH PLANNED INTERRUPTION. 5. ALL WATERLINE FOR THIS PROJECT SHALL BE MATERIAL AND SIZE AS NOTED ON THE PROFILE DRAWINGS. SHORING SHALL BE INSTALLED AS REQUIRED TO PROTECT EXISTING UTILITIES. 6. ALL PRESSURIZED FITTINGS SHALL BE DUCTILE IRON RESTRAINED MECHANICAL JOINT WITH PRESSURE RATING EQUAL TO OR HIGHER THAN HOST PIPE, UNLESS OTHERWISE SHOWN ON THE DRAWINGS. 7. ALL MECHANICAL JOINTS SHALL BE FITTED WITH WEDGE-TYPE MECHANICAL RESTRAINT ACCESSORY KITS DESIGNED FOR THE INTENDED USE AND MATERIAL, AS APPROVED BY UTILITY OWNER. RESTRAINED JOINT PIPING SHALL BE INSTALLED TO THE NEXT FULL JOINT BEYOND THE STATIONS SHOWN ON THE PROFILE DRAWINGS AT MINIMUM.

LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT ITS EXPENSE, UNLESS PREVIOUSLY OBTAINED BY THE OWNER(S) AND PROVIDED AT THE PRECONSTRUCTION CONFERENCE. 2. DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR WRITTEN CONSENT OF THE UTILITY 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY FIELD CONDITIONS BE 4. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE UTILITY OWNER(S) AND PUBLIC. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE 5. ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM TO NCDEQ REGULATIONS, AND TO CURRENT UTILITY OWNER REGULATIONS, STANDARDS, AND SPECIFICATIONS. CONTRACTOR SHALL OBTAIN FROM EACH UTILITY OWNER AND ENGINEER APPROVED SUBMITTALS FOR ALL MATERIALS PROPOSED TO BE INCORPORATED IN THE WORK PRIOR TO ORDERING ANY MATERIALS OR COMMENCING UTILITY CONSTRUCTION. 6. CONTRACTOR SHALL COORDINATE ALL WORK WITH UTILITY OWNERS LEAST 48 HOURS PRIOR TO THE INSPECTORS JOHNATHAN PERRY AND JOHN HEATH CAN BE REACHED AT 919-580-4317 AND 919-580-4368, 7. ALL PIPE LENGTHS ARE MEASURED ALONG A HORIZONTAL PLANE. SANITARY SEWER LINES ARE MEASURED TO CENTER OF MANHOLE. SYSTEM (NAD 83). 11. LOCATIONS OF EXISTING SHOWN UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE UTILITIES PRIOR TO CONSTRUCTION AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR 1-800-632-4949. THE CONTRACTOR SHALL CONTACT ANY UTILITY OWNER WHOSE UTILITIES ARE NOT OF EXISTING UTILITY POLES OR OTHER ITEMS AS REQUIRED FOR TRENCH EXCAVATION. ALL COSTS OF 17. ALL PAVEMENT CUTS SHALL BE SAWCUT OR MILLED ALONG A CONTINUOUS STRAIGHT LINE AND REPAVED PER NCDOT REQUIREMENTS AND AS SPECIFIED HEREIN. WIDTH. ALL CONCRETE WORK SHALL MATCH EXISTING. 19. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SHEETING AND/OR ACTIVE SHORING REQUIRED FOR THE INSTALLATION OF THE UTILITY. ALL EXCAVATIONS SHALL BE KEPT WITHIN THE DESIGNATED EASEMENT WIDTHS. EXCAVATION WITHIN PAVED AREAS SHALL BE KEPT TO A MINIMUM. SHEETING AND/OR ACTIVE 20. PLACED RIP-RAP SHALL HAVE A MINIMUM DEPTH OF 1.5 TIMES THE MAXIMUM STONE DIAMETER AND SHALL HAVE A LAYER OF TYPE II GEOTEXTILE SEPARATOR PLACED BETWEEN THE SOIL AND STONE. 21. ALL MATERIAL CLEARED AND GRUBBED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK, SUCH AS TREES, VEGETATION, ETC., SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE AT A STATE APPROVED DISPOSAL SITE. 22. IMMEDIATELY PRIOR TO DISTURBANCE, CONTRACTOR SHALL OBTAIN DIGITALLY RECORDED VIDEO OF THE UTILITY ALIGNMENTS INCLUDING EACH DRIVEWAY, SIDEWALK, SIGN, LANDSCAPING, ETC., TO BE

DISTURBED. EACH SHALL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER. VIDEO SHALL BE SUBMITTED TO THE UTILITY OWNER(S) AND THE ENGINEER PRIOR TO WORK.

	PROJECT REFERENCE NO.	SHEET NO.
Kimley »Horn	U-5724	UC-3
	UTILITY DESIGN ENGINEER	
421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601	WITH CARO	
RIGHT-OF-WAY REV.	i de Ession	
CONST. REV.	StoAlsigned by O450400 il Hatevey 2AFEOFADD88840D NELL NELL HILL 16/2020	