ABBREVIATIONS

ABC	AGGREGATE BASE COURSE
AB	ANCHOR BOLT
AC	ALTERNATING CURRENT
ADD	ADDENDUM
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT
AGGR	AGGREGATE
AIRCOND	AIR CONDITIONING
AL	ALUMINUM
ALM	ALARM
ALT	ALTERNATE
AMT	AMOUNT
APPROX	APPROXIMATE
APVD	APPROVED
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ATCH	ATTACH
AUX	AUXILIARY
AVAIL	AVAILABLE
AVG	AVERAGE
BAF	BAFFLE
BAL	BALANCE
BC	BACK OF CURB
BD	BOARD
BDY	BOUNDARY
BEV	BEVELED
BITUM	BITUMINOUS
BKGD	BACKGROUND
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BRK	BRICK
BSMT	BASEMENT
BYP	BYPASS
CAP	CAPACITY
CIP	CAST IRON PIPE
CB	CATCH BASIN
CAV	CAVITY
CLG	CEILING
CEM	CEMENT
CTR	CENTER
CL	CENTER LINE
CTL	CENTRAL
CHMBR	CHAMBER
CHAM	CHAMFER
CHAN	CHANNEL
CHK	CHECK
CHK_PL	CHECKERED PLATE
CHEM	CHEMICAL
CIR	CIRCLE
CPL	CLAY PIPE
CO	CLEAN OUT
CLR	CLEAR
CW	CLOCK WISE
COL	COLUMN
CNCTRC	CONCENTRIC
CONC	CONCRETE
CONSTR	CONSTRUCTION
CJ	CONSTRUCTION JOINT
CONT	CONTINUOUS/CONTROL
CNVR	CONVEYOR
COR	CORNER
CORP	CORPORATION
CMP	CORRUGATED METAL PIPE
CCW	COUNTER CLOCK WISE
XSECT	CROSS SECTION
CU	CUBIC
CFS	CUBIC FEET PER SECOND
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CULV	CULVERT
CUR	CURRENT
DPG	DAMP PROOFING
DL	DEAD LOAD
DEC	DECIMAL
DK	DECK/DECKING
DEG	DEGREE
DELE	DELETE
DEP	DEPOSIT
DTCH	DETACH
DET	DETAIL
DEV	DEVELOPMENT
DIAG	DIAGONAL/DIAGRAM
DIA	DIAMETER
DIFF	DIFFERENCE
DIM	DIMENSION
DC	DIRECT_CURRENT
DIR	DIRECTION/DIRECT
DISC	DISCONNECT

DIST	DISTANCE
DV	DIVIDE
DNA	DOES_NOT_APPLY
DWL	DOWEL
DN	DOWN
DR	DRAIN
DWG	DRAWING
DUP	DUPLICATE
EA	EACH
EF	EACH FACE
EW	EACH WAY
E	EAST
ECC	ECCENTRIC
ELB	ELBOW
ELEC	ELECTRICAL
ELEV	ELEVATE
EL	ELEVATION
EMBD	EMBEDMENT
EMER	EMERGENCY
ENCMT	ENCASEMENT
ENCL	ENCLOSED/ENCLOSURE
EQ	EQUAL
EQPT	EQUIPMENT
EST	ESTIMATE
EXC	EXCAVATE
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
FAB	FABRICATE
FACIL	FACILITY
FD	FLOOR DRAIN
FDN	FOUNDATION
FHY	FIRE HYDRANT
FIG	FIGURE
FIL	FILLET
FL	FLOOR/FLASHING
FLD	FIELD
FLG	FLANGE
FLTR	FILTER
FLUOR	FLUORESCENT
FPS	FOOT PER SECOND
FR	FRONT
FT	FEET
LB	FOOT POUND
FTG	FOOTING
GAL	GALLON
GALV	GALVANIZED
GEN	GENERATOR
GENL	GENERAL
GL	GRADE LINE
GND	GROUND
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
GPS	GALLON PER SECOND
GR	GRADE
GRTG	GRATING
GSKT	GASKET
GUT	GUTTER
GVL	GRAVEL
HAZ	HAZARDOUS
HB	HOSE BIB
HCONN	HOSE CONNECTION
HCS	HIGH CARBON STEEL
HD	HEAD
HDW	HARDWARE
HEX	HEXAGONAL
HGR	HANGER
HGT	HEIGHT
HK	HOOK
HM	HOLLOW METAL
HNDRL	HANDRAIL
HOL	HOLLOW
HORIZ	HORIZONTAL
HPT	HIGH POINT
HR	HOUR
HST	HOIST
HTG	HEATING
HTS	HIGH TENSILE STEEL
HWL	HIGH WATER LEVEL
HYDR	HYDRAULIC
I/O	INPUT/OUTPUT
ID	INSIDE DIAMETER
IDX	INDEX
IN	INCH
IN LB	INCH POUND
INC	INCORPORATED
INCAND	INCANDESCENT
INCIN	INCINERATOR
INCL	INCLUDED
INCR	INCREMENT/INCREASE

IND	INDICATE/INDICATOR
INL	INLET
INS	INSIDE
INSTM	INSTRUMENTATION
INTK	INTAKE
INTK	INTERCHANGE
INTRCHNG	INTERNAL
INTSCT	INTERSECT/INTERSECTION
INVT	INVERT
IP	IRON POINT
IPS	INCH PER SECOND
IR	INSIDE RADIUS
J	JOIST
JB	JUNCTION BOX
JCT	JUNCTION
JT	JOINT
KB	KNEE BRACE
KO	KNOCK OUT
KPL	KICK PLATE
KWY	KEYWAY
LAD	LADDER
LAT	LATITUDE
LATL	LATERAL
LB	POUND
LBL	LABEL
LCL	LOCAL
LDR	LEADER
LFT	LIFTING
LG	LENGTH
LIM	LIMIT
LIN	LINEAR
LL	LIVE LOAD
LNTL	LINTEL
LQD	LIQUID
LOA	LENGTH OVER ALL
LONG	LONGITUDE
LP	LOW POINT
LR	LADDER RUNG
LT	LIGHT
LTG	LIGHTING
LTR	LETTER
LVL	LEVEL
LVR	LOUVER
LWL	LOW WATER LINE
LYR	LAYER
MAG	MAGNETIC
MAINT	MAINTENANCE
MH	MANHOLE
MNL	MANUAL
MFR	MANUFACTURER
MO	MASONRY OPENING
MATL	MATERIAL
MAX	MAXIMUM
MAX CAP	MAXIMUM CAPACITY
MHW	MEAN HIGH WATER
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
MEAS	MEASURE
MECH	MECHANICAL
MBR	MEMBER
MET	METAL
MEZZ	MEZZANINE
MDL	MIDDLE
MI	MILE
MIN	MINIMUM
MXG	MIXING
MXT	MIXTURE
MOD	MODIFY
MLD	MOLDED
MOT	MOTOR
MTD	MOUNTED
MWL	MAX WATER LEVEL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NUM	NUMERAL/NUMERICAL
NWG	NATIONAL WIRE GAGE
NEG	NEGATIVE
NT WT	NET WEIGHT
NWL	NOMINAL WATER LEVEL
OBJ	OBJECT
OC	ON CENTER
OCT	OCTAGONAL
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE

OPR	OPERATE/OPERATOR
OR	OUTSIDE RADIUS
OUT	OUTLET
OVFL	OVERFLOW
OVHD	OVERHEAD
OXY	OXYGEN
OZ	OUNCE
PNL	PANEL
PATT	PATTERN
PEN	PENETRATION
PERF	PERFORATED
PERM	PERMANENT
PERMB	PERMEABILITY
PERP	PERPENDICULAR
PH	PHASE
PLG	PILING
PLCS	PLACES
PLK	PLANK
PL	PLATE/PROPERTY LINE
PLATF	PLATFORM
PLMB	PLUMBING
PLYWD	PLYWOOD
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
LB	POUND
LB FT	POUND FEET
LB IN	POUND INCH
PCF	POUND PER CUBIC FOOT
PRELIM	PRELIMINARY
PRMLD	PREMOLDED
PG	PRESSURE GAGE
PROP	PROPERTY
PB	PULL BOX
PO	PUSH-ON JOINT
QT	QUART
QTR	QUARTER
QDRNT	QUADRANT
R	RISER
R/W	RIGHT OF WAY
RAD	RADIUS
RCP	REINFORCED CONC. PIPE
RD	ROAD/ROOF DRAIN
RDCR	REDUCER
RDG	RIDGE
RDL	RADIAL
REC	RECESS
REF	REFERENCE
REINF	REINFORCING
RELOC	RELOCATE
REM	REMOVABLE
REPL	REPLACE
REQD	REQUIRED
REV	REVISE/REVIEW/REVISION
RFG	ROOFING
RIB	RIBBED
RM	ROOM
RMV	REMOVE
RND	ROUND
RNDM	RANDOM
ROT	ROTATE
RPR	REPAIR
R/R	RAIL ROAD
RST	REINFORCING STEEL
RT ANG	RIGHT ANGLE
RTN	RETURN
RTNG	RETAINING
RVS	REVERSE
RVT	RIVET
S	SOUTH
SAN	SANITARY
SBM	SUBMERSIBLE
SC	SCALE
SCHED	SHEDULE
SCHEM	SCHEMATIC
SCR	SCREW
SCRN	SCREEN
SECT	SECTION
SEG	SEGMENT
SEL	SELECT/SELECTOR
SEP	SEPARATE
SEQ	SEQUENCE
SER NO	SERIAL NUMBER
SEW	SEWER/SEWAGE
SFT	SHAFT
SH	SHEET
SL	SEA LEVEL
SLD	SEALED
SLTD	SLOTTED
SLV	SLEEVE
SNDPRF	SOUNDPROOF
SOL	SOLID
SP	SPACE
SPEC	SPECIFICATIONS

SPLY	SUPPLY
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STG	STAGE
STIF	STIFFENER
STIR	STIRRUP
STL	STEEL
STOR	STORAGE
STRU	STRUCTURAL
STRUCT	STRUCTURE
SUBMG	SUBMERGED
SUBST	SUBSTITUTE
SUCT	SUCTION
SUPERST	SUPERSTRUCTURE
SW	SWITCH
SYM	SYMBOL
SYS	SYSTEM
T&B	TOP AND BOTTOM
TAN	TANGENT
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPORARY/TEMPERATURE
TGL	TOGGLE
THD	THREAD
THK	THICK
THRU	THROUGH
TMB	THIMBLE
TMBR	TIMBER
TNL	TUNNEL
TNSN	TENSION
TOL	TOLERANCE
TOT	TOTAL
TPG	TAPPING
TPR	TAPER
TRANSV	TRANSVERSE
TRIB	TRIBUTARY
TRNGL	TRIANGLE
TRTMT	TREATMENT
TS	TENSILE STRENGTH
TYP	TYPICAL
XMT	TRANSMIT
XMTR	TRANSMITTER
UGND	UNDERGROUND
UH	UNIT HEATER
ULT	ULTIMATE
UN	UNION
UND	UNDER
UNIV	UNIVERSAL
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
UWT	UNIT WEIGHT
UWTR	UNDERWATER
V	VALVE
VAC	VACUUM
VAP	VAPOR
VAR	VARIABLE/VARIES
VB	VALVE BOX
VENT	VENTILATOR
VERT	VERTICAL
VOL	VOLUME
W	WEST
W/O	WITHOUT
WC	WATER CLOSET
WD	WIDTH
WI	WROUGHT IRON
WL	WATER LEVEL/LEVEL
WLD	WELDED
WM	WIRE MESH
WP	WALL PIPE
WPG	WATER PROOFING
WRG	WIRING
WS	WATER SURFACE
WT	WEIGHT
WTHRPRF	WEATHER PROOF
WTRPRF	WATER PROOF
WTRTT	WATER TIGHT
WV	WALL VENT
XBAR	CROSS BAR
XCONN	CROSS CONNECTION
XMTR	TRANSMITTER
XSECT	CROSS SECTION
YD	YARD
YR	YEAR
Z	ZONE

NOTES

GENERAL CONSTRUCTION / SANITARY SEWER NOTES

1. CONTRACTOR SHALL NOTIFY THE CITY OF WILSON'S PUBLIC WORKS DEPARTMENT (MR. KYLE MANNING, ASSISTANT DIRECTOR OF PUBLIC WORKS: 252-296-3416) AND/OR GREEN ENGINEERING (LEO GREEN, III - 252-230-4381) AND NORTH CAROLINA 811 A MINIMUM OF 3 DAYS (72 HOURS) PRIOR TO MOBILIZING TO THE PROJECT AREA AND PRIOR TO ANY EXCAVATION ACTIVITIES.
2. NO CONSTRUCTION ACTIVITIES (PIPE / MANHOLE INSTALLATION) SHALL COMMENCE UNTIL THE FOLLOWING HAVE TAKEN PLACE:
   - PRECONSTRUCTION CONFERENCE.
   - MATERIAL SUBMITTALS / SHOP DRAWINGS HAVE BEEN SUBMITTED AND APPROVED BY THE ENGINEER.
   - TEMPORARY BYPASS PUMPING SYSTEM SUBMITTAL HAS BEEN SUBMITTED AND APPROVED BY THE ENGINEER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
   - ALL SEDIMENTATION AND EROSION CONTROL MEASURES / DEVICES HAVE BEEN INSTALLED PER THE CONSTRUCTION PLANS.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS, CONTRACT DOCUMENTS, PERMIT CONDITIONS AND THE CITY OF WILSON'S MANUAL OF SPECIFICATIONS STANDARDS AND DESIGN, LATEST EDITION.
4. EXISTING OR NEW OPERABLE MANHOLES OR WETWELLS QUALIFY AS "CONFINED" AND REQUIRE COMPLIANCE WITH OSHA "CONFINED ACCESS ENTRY" REQUIREMENTS. CERTIFIED EQUIPMENT, PROPER NOTIFICATION AND OTHER APPLICABLE EQUIPMENT AND/OR DEVICES MAY BE NECESSARY TO PROTECT WORKERS, AFTER SYSTEM IS OPERATIONAL, FROM HYDROGEN-SULFIDE GAS BUILD-UP OR AN OTHERWISE OXYGEN-LESS ENVIRONMENT.
5. THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS ALL PERMIT APPROVALS ON THE JOB SITE AT ALL TIMES FOR THE DURATION OF THE PROJECT.
6. ALL KNOWN EXISTING UTILITIES HAVE BEEN LOCATED FROM INFORMATION AVAILABLE AS SHOWN ON THE CONSTRUCTION DRAWINGS. THESE LOCATIONS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE BOTH HORIZONTALLY AND VERTICALLY ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION (NORTH CAROLINA 811). ALL COSTS ASSOCIATED WITH ANY DAMAGE TO KNOWN OR UNKNOWN EXISTING UTILITIES RESULTING FROM THE CONTRACTOR'S FAILURE TO ADEQUATELY LOCATE AND PROTECT THE EXISTING UTILITIES DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
7. PROPERTY LINE REFERENCES WERE OBTAINED FROM ACTUAL FIELD SURVEYS. FIELD SURVEY DATA WAS COLLECTED BY GREEN ENGINEERING. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. THE CONTRACTOR, AT THEIR SOLE EXPENSE, SHALL HIRE A NC LICENSED PROFESSIONAL LAND SURVEYOR TO REESTABLISH ANY AND ALL DISTURBED PROPERTY MONUMENTATION AND OTHER ESTABLISHED POINTS OF REFERENCE.
8. ALL CLEARING AND GRUBBING ACTIVITIES SHALL TAKE PLACE WITHIN THE PROJECT CONSTRUCTION LIMITS AS IDENTIFIED ON THE CONSTRUCTION DRAWINGS AND/OR THE EASEMENT PLATS. ALL CONSTRUCTION LIMITS LINES SHALL BE SURVEYED AND FLAGGED PRIOR TO CLEARING AND GRUBBING ACTIVITIES. CLEARING AND GRUBBING ACTIVITIES THROUGH WETLAND AND NEUSE RIVER BUFFER AREAS SHALL BE HELD TO A MINIMUM AND IN ACCORDANCE WITH THE PERMIT CONDITIONS.
9. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED AHEAD OF THE CLEARING AND GRUBBING ACTIVITIES WHERE POSSIBLE. WHERE THIS IS NOT POSSIBLE THE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY AFTER THE AREAS HAVE BEEN GRUBBED. ALL PLANT PROTECTION FENCING, WHERE REQUIRED, SHALL BE MAINTAINED UNTIL ALL THE WORK HAS BEEN COMPLETED AND THE FINAL INSPECTION HAS OCCURRED. UPON APPROVAL FROM ENGINEER, CONTRACTOR SHALL REMOVE TREE PROTECTION FENCING AND REPAIR ANY AREAS DAMAGED DURING FENCE REMOVAL.
10. POSITIVE DRAINAGE ACROSS THE PROJECT'S ALIGNMENT SHALL BE PROVIDED FOR ALL AREAS THROUGHOUT THE CONSTRUCTION PERIOD.
11. ALL EXCAVATED MATERIAL SHALL BE PLACED WITHIN THE LIMITS OF CONSTRUCTION / DISTURBANCE DURING INSTALLATION OF THE PROPOSED UTILITY. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SEDIMENT AND EROSION CONTROL MEASURES TO CONTROL RUN-OFF. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED LEGALLY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CLEARED AND GRUBBED DEBRIS EITHER BY BURNING ONSITE OR HAULING FOR OFFSITE DISPOSAL. ALL PERMITS REQUIRED FOR THIS ACTIVITY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. ALL GRAVITY SEWER PIPE INSTALLATION SHALL BEGIN AT THE DOWNSTREAM MOST MANHOLE ALONG EACH INDIVIDUAL ALIGNMENT.
14. ALL HORIZONTAL BORES SHALL BE MADE PRIOR TO THE INSTALLATION OF ANY GRAVITY SEWER PIPE UPSTREAM OF THE HORIZONTAL BORES. ANY AND ALL HORIZONTAL BORES INSTALLED AND NOT MATCHING THE DESIGN GRADES UPON COMPLETION OF THE BORE, WITHIN TOLERANCE, SHALL EITHER BE RE-BORED IN AN ADJACENT LOCATION APPROVED BY THE ENGINEER / CITY OF WILSON OR ADJUSTMENTS IN THE UPSTREAM SEWER INVERTS WILL BE MADE IF THIS IS POSSIBLE WITHOUT AFFECTING THE FUNCTION OF THE PROPOSED LINE(S). EITHER WAY THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COST INCURRED BY THE CITY OF WILSON, THE PROJECT ENGINEER AND ANY OTHER VESTED PARTY AS A RESULT OF THE INCORRECTLY INSTALLED CASING.
15. DUE TO THE NATURE OF THIS PROJECT IT WILL BE NECESSARY FOR CERTAIN INDIVIDUAL SEGMENTS TO BE CONSTRUCTED, TESTED, CERTIFIED AND PLACED INTO OPERATION PRIOR TO ANOTHER PROJECT COMPONENT BEING CONSTRUCTED. THIS IS ADDRESSED FURTHER IN THE **RECOMMENDED CONSTRUCTION SEQUENCE** NOTES.
16. DEWATERING ALONG THE PROJECT ALIGNMENT IS ANTICIPATED FOR THE INSTALLATION OF THE GRAVITY SEWER LINE(S). ACTUAL SUBSURFACE CONDITIONS MAY VARY ALONG THE LENGTH OF THE PROJECT. THE COST OF DEWATERING, IF ANTICIPATED BY THE CONTRACTOR, SHALL BE INCLUDED IN THE UNIT PRICE FOR PIPE INSTALLATION. ANY AND ALL DEWATERING DISCHARGES SHALL BE PUMPED DIRECTLY BACK INTO THE EXISTING GRAVITY SEWER COLLECTION SYSTEM. NO DEWATERING DISCHARGE INTO THE OPEN ENVIRONMENT WILL BE ALLOWED.
17. ALL LINE CONNECTIONS TO EXISTING SANITARY SEWER MANHOLES SHALL BE INSTALLED BY CORE DRILLING THE EXISTING MANHOLE AT THE ELEVATION(S) SHOWN ON THE CONSTRUCTION DRAWINGS.
18. BYPASS PUMPING OF SANITARY SEWER WILL BE REQUIRED FOR THIS PROJECT. ALL BY-PASS PUMPING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH THE ENGINEER AND THE CITY OF WILSON PRIOR TO THE COMMENCEMENT OF THESE ACTIVITIES. ALL BY-PASS PUMPING SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN SPECIFICATIONS.
19. THE CONTRACTOR SHALL PROVIDE ALL PROPER OIL POLLUTION PREVENTION MEASURES TO MINIMIZE THE IMPACT OF DIESEL AND ALL OTHER FUELS TO THE ENVIRONMENT. MEASURES SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL REGULATIONS/ LAWS.
20. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S LATEST REGULATIONS GOVERNING SUCH ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ACTIVE SHORING AND SHALL SUBMIT SEALED CALCULATIONS AND DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL WHERE REQUIRED.
21. THE CONTRACTOR SHALL REPAIR ALL POINTS OF ACCESS, PAVED OR UNPAVED, TO EXISTING OR BETTER CONDITIONS IF DISTURBED DURING CONSTRUCTION. THE COST OF THESE REPAIRS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
22. SITE ACCESS LOCATIONS FOR THE PROJECT SHALL BE AS FOLLOWS:
    - CONTENTNEA CREEK PUMP STATION ACCESS DRIVE OFF FOREST HILLS ROAD. (SHEETS 4 & 5 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED OFF MARBLE COURT. (SHEET 6 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED OFF SLATE COURT. (SHEET 6 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED OFF FELDSPAR COURT. (SHEET 6 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED OFF OF BOYETTE DRIVE SE (SHEET 7 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED OFF WIDGON STREET SW. (SHEET 8 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED ADJACENT TO / BEHIND GREENFIELD SCHOOL. (SHEET 9 OF 22)
    - EXISTING 30' CITY OF WILSON UTILITY EASEMENT LOCATED ON THE SOUTH SIDE OF NC HWY 42 BETWEEN TRACE DRIVE AND OLD DAM DRIVE.
    - THE CONTRACTOR MAY OBTAIN ADDITIONAL ACCESS LOCATIONS FROM PRIVATE PROPERTY OWNERS AT THEIR DISCRETION; HOWEVER, WRITTEN PERMISSION FROM THE PROPERTY OWNER PROVIDING SUCH ACCESS SHALL BE PROVIDED BY THE CONTRACTOR TO THE CITY OF WILSON AND GREEN ENGINEERING PRIOR TO UTILIZING SUCH ACCESS.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ACCESS ENTRANCES TO THE PROJECT AREA. ALL ENTRANCES SHALL HAVE A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. UPON COMPLETION OF THE PROJECT ALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE REMOVED AND THE AREA SEEDED AND MULCHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODICALLY, OR AS DEEMED NEEDED BY THE CITY OF WILSON OR GREEN ENGINEERING, SWEEPING/BROOMING ALL PAVED SURFACES ADJACENT TO ALL CONSTRUCTION ENTRANCES.

THE FOLLOWING CONSTRUCTION SEQUENCES FOR THE LATERAL CONNECTIONS ARE RECOMMENDATIONS BY THE ENGINEER

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
MARBLE COURT LATERAL TO 24" MAIN LINE

1. THE CONTRACTOR SHALL ESTABLISH BY-PASS PUMPING OPERATIONS, IF REQUIRED, PRIOR TO CONNECTING THE EXISTING 8" DIAMETER SEWER LINE TO PROPOSED SSMH #7.
2. INSTALL 24" DIAMETER SEWER LINE FROM EXISTING MANHOLE #21442 (STA 0+00.00) UP TO AND INCLUDING SSMH#7.
3. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLUDING SSMH #7. PROVIDE ENGINEER WITH DOCUMENTATION FOR PARTIAL SYSTEM CERTIFICATION.
4. INSTALL BYPASS PUMP(S) TO PUMP THE SEWER FLOW FROM EXISTING MANHOLE #3003 TO THE NEWLY INSTALLED SSMH #7 EFFLUENT LINE, IF REQUIRED.
5. DEPENDING ON THE EXISTING FLOW OUT OF MANHOLE #3003 THE CONTRACTOR MAY BE ABLE TO PLUG THE EXISTING 8" LINE AT MANHOLE #3003 WHILE THE CONNECTION TO SSMH #7 IS BEING MADE.
6. CONTRACTOR SHALL TEST THE MANHOLES AND NEW LINES INSTALLED. PROVIDE ALL DOCUMENTATION TO ENGINEER FOR PARTIAL SYSTEM CERTIFICATION.
7. BYPASS PUMPING EFFORTS MAY BE REMOVED ONCE ALL CONNECTIONS HAVE BEEN MADE BETWEEN MARBLE COURT AND SMH #7.

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
SLATE COURT LATERAL TO 24" MAIN LINE

1. BYPASS PUMPING MEASURES, IF REQUIRED, ARE TO BE INSTALLED BETWEEN EXISTING SSMH #1423 AND THE NEWLY INSTALLED SSMH #7 SUCH THAT PROPOSED SSMH #8 CAN BE INSTALLED.
2. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLUDING MANHOLE 8. PROVIDE ENGINEER WITH DOCUMENTATION FOR PARTIAL SYSTEM CERTIFICATION.
3. ONCE THE CONTRACTOR HAS SUCCESFULLY INSTALLED AND TESTED BOTH THE DOWNSTREAM 24" GRAVITY SEWER LINES AND MANHOLES, INCLUDING SSMH #8, THE SLATE COURT LATERAL MAY BE INSTALLED.
4. THE CONTRACTOR SHALL INSTALL PROPOSED DOGHOUSE MANHOLE #28 AND THE 8" SEWER LINE TO SSMH #8.
5. CONTRACTOR SHALL TEST THE MANHOLES AND NEW LINES INSTALLED. PROVIDE ALL DOCUMENTATION TO ENGINEER FOR PARTIAL SYSTEM CERTIFICATION.
6. ONCE THE LATERAL LINES AND MAHNOLE(S) HAVE BEEN SUCCESSFULLY TESTED THE LINE MAY BECOME OPERATIONAL.

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
FELDSPAR COURT LATERAL TO 24" MAIN LINE

1. THE CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE 24" GRAVITY SEWER LINE UP TO PROPOSED SSMH #9.
2. BYPASS PUMPING MEASURES, IF REQUIRED, SHALL BE INSTALLED BETWEEN EXISTING MANHOLE #1446 AND SSMH #8 AND SSMH #9 SHALL BE INSTALLED.
3. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLUDING SSMH #9. PROVIDE ENGINEER WITH DOCUMENTATION FOR PARTIAL SYSTEM CERTIFICATION.
4. SSMH #29 SHALL BE INSTALLED INCLUDING THE 8" LINE BETWEEN SSMH #9 AND SSMH #29. ONCE INSTALLED AND TESTED THE LINE MAY BECOME OPERATIONAL.

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
BOYETTE DRIVE SW LATERAL TO 24" MAIN LINE

1. THE CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE 24" GRAVITY SEWER LINE UP TO PROPOSED SSMH #12.
2. BYPASS PUMPING MEASURES, IF REQUIRED, SHALL BE INSTALLED BETWEEN EXISTING MANHOLE #1627 AND SSMH #11 AND SSMH #12 SHALL BE INSTALLED.
3. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLUDING SSMH #12. PROVIDE ENGINEER WITH DOCUMENTATION FOR PARTIAL SYSTEM CERTIFICATION.
4. DOGHOUSE SSMH #30 SHALL BE INSTALLED INCLUDING THE 8" LINE BETWEEN SSMH #12 AND SSMH #30. ONCE INSTALLED AND TESTED THE LINE MAY BECOME OPERATIONAL.

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
MILLBROOK TOWNHOMES LATERAL TO 24" MAIN LINE

1. THE CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE 24" GRAVITY SEWER LINE UP TO PROPOSED SSMH #13.
2. BYPASS PUMPING MEASURES, IF REQUIRED, SHALL BE INSTALLED BETWEEN EXISTING MANHOLE #2207 AND SSMH #12 AND SSMH #13 SHALL BE INSTALLED.
3. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLUDING SSMH #13. PROVIDE ENGINEER WITH DOCUMENTATION FOR PARTIAL SYSTEM CERTIFICATION.
4. MAKE 8" DIAMETER PIPE CONNECTION FROM EXISTING 8" SEWER LINE TO SSMH #13. ONCE INSTALLED AND TESTED THE LINE MAY BECOME OPERATIONAL.

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
WIDGEON DRIVE SW LATERAL TO 24" MAIN LINE

1. THE CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE 24" GRAVITY SEWER LINE UP TO PROPOSED SSMH #15.
2. BYPASS PUMPING MEASURES, IF REQUIRED, SHALL BE INSTALLED BETWEEN EXISTING MANHOLE #1801 AND SSMH #13 AND SSMH #15 SHALL BE INSTALLED.
3. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLUDING SSMH #13. PROVIDE ENGINEER WITH DOCUMENTATION FOR PARTIAL SYSTEM CERTIFICATION.
4. MAKE 8" DIAMETER PIPE CONNECTION FROM EXISTING 8" SEWER LNE TO SSMH #15. ONCE INSTALLED AND TESTED THE LINE MAY BECOME OPERATIONAL.

RECOMMENDED UTILITY CONSTRUCTION SEQUENCE
GREENFIELD SCHOOL LATERAL TO 24" MAIN LINE

5. THE CONTRACTOR SHALL COMPLETE THE INSTALLATION OF THE 24" GRAVITY SEWER LINE UP TO PROPOSED SSMH #20. BYPASS PUMPING MEASURES, IF REQUIRED, SHALL BE INSTALLED BETWEEN EXISTING MANHOLE #1897 AND SSMH #19 AND SSMH #20 SHALL BE INSTALLED.
6. CONTRACTOR SHALL PROVIDE ASBUILTS AND PERFORM ALL MANHOLE AND LINE TESTING AT THIS TIME FOR VERIFICATION OF THE SYSTEM UP TO AND INCLU