

QUANTITIES:
 PIPE:
 8" C900 PVC - 882'
 8" DIP - 12.4'
 VALVES:
 8" - 1
 HYDRANT:
 NEW - 0
 SERVICES:
 LONG - 8
 SHORT - 5

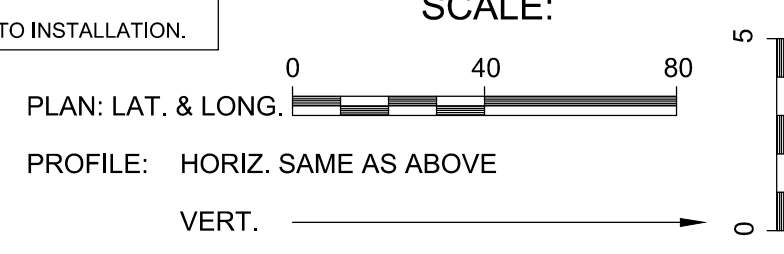
NOTES:
 1. CURED-IN-PLACE PIPING SHALL BE INSTALLED.
 2. DESIGN OF CIPP SHALL INCLUDE THE FOLLOWING:
 THE CURED-IN-PLACE PIPE (CIPP) MATERIAL SHALL CONFORM TO THE FOLLOWING STRUCTURAL PROPERTIES:
 MINIMUM PHYSICAL PROPERTIES:

PROPERTY	TEST METHOD	MIN. RESIN PER	RESIN WITH
MODULUS OF ELASTICITY	ASTM D790 (SHORT TERM)	300,000 PSI	400,000 PSI
FLEXURAL STRESS	ASTM D790	4,500 PSI	4,500 PSI

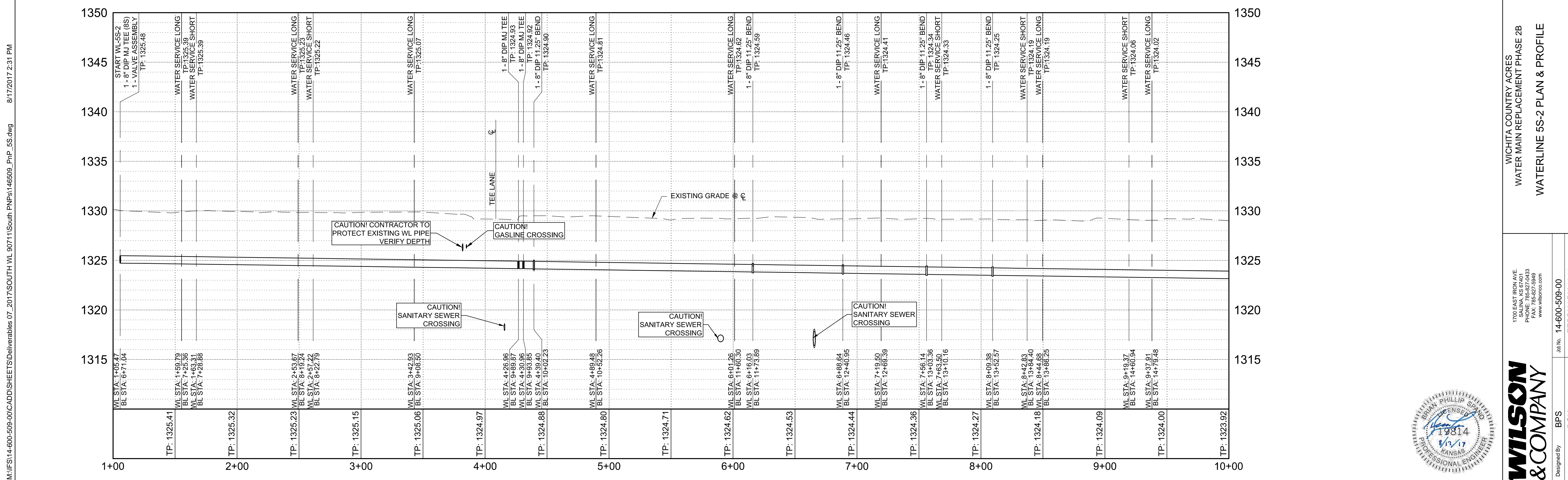
 THE REQUIRED STRUCTURAL CIPP WALL THICKNESS SHALL BE BASED, AS A MINIMUM, ON THE ABOVE PHYSICAL PROPERTIES AND IN ACCORDANCE WITH THE DESIGN EQUATIONS IN APPENDIX X1 OF THE ASTM F 1216 AND THE DESIGN PARAMETERS AS FOLLOWS:

DESIGN SAFETY FACTOR	= 2.0
RETENTION FACTOR FOR LONG-TERM FLEXURAL MODULUS TO BE USED IN DESIGN	= 50%
QUALITY (TO BE VERIFIED BY PRE-INSTALLATION VIDEO TAPES)	= 2%
GROUNDWATER DEPTH (ASSUME GROUNDWATER DEPTH = TOP OF PIPE)	= SEE MANHOLE DEPTHS
SOIL DEPTHS (ABOVE CROWN)	= SEE MANHOLE DEPTHS
SOIL MODULUS WITH LIVE LOAD OR FOR PIPES AT A DEPTH 10-20 FEET	= 1,000 PSI
SOIL MODULUS WITH LIVE LOAD OR PIPES AT A DEPTH LESS THAN 10 FEET	= 700 PSI
SOIL DENSITY	= 120 PCF
LIVE LOAD	= H20 HIGHWAY
DESIGN CONDITION	= FULLY DETEIORATED

 3. CONTRACTOR SHALL SUBMIT DESIGN OF CIPP TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.

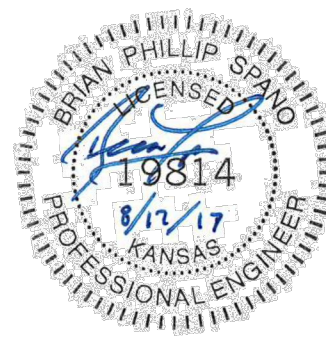


WATERLINE 5S-2



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WICHITA COUNTRY ACRES
 WATER MAIN REPLACEMENT PHASE 2B
 WATERLINE 5S-2 PLAN & PROFILE
 CITY OF WICHITA PROJECT NO. 448-90711



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Designed By: BPS
 Drawn By: DCK
 Job No.: 14-600-509-00
 Date: FEBRUARY 2016
 SHEET 18