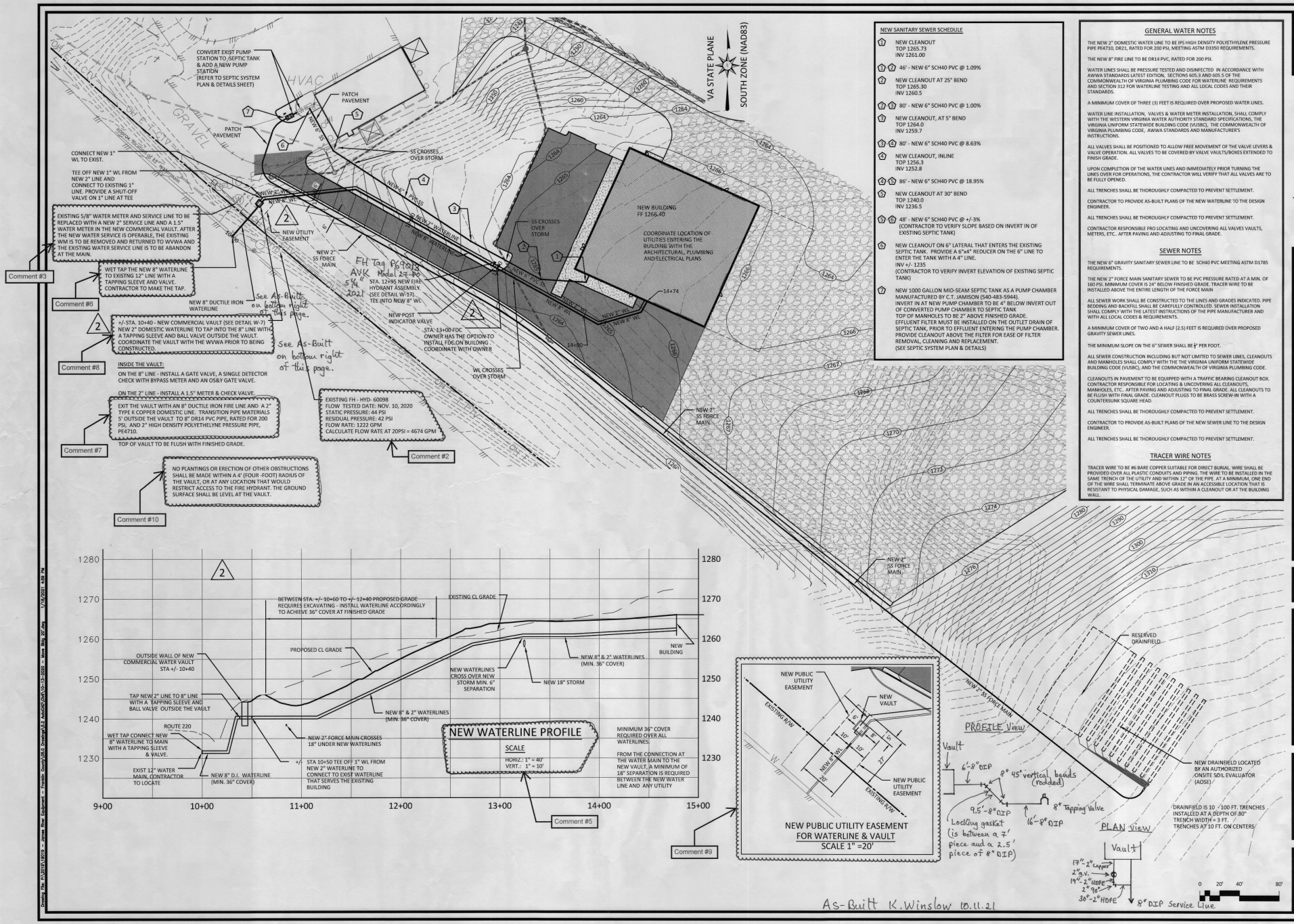

NEW SANITARY SEWER SCHEDULE

1. NEW CLEANOUT TOP 1265.73 INV 1261.00
1. 2. 46' - NEW 6" SCH40 PVC @ 1.09%
2. NEW CLEANOUT AT 25° BEND TOP 1265.30 INV 1260.5
2. 3. 80' - NEW 6" SCH40 PVC @ 1.00%
3. NEW CLEANOUT, AT 5° BEND TOP 1264.0 INV 1259.7
3. 4. 80' - NEW 6" SCH40 PVC @ 8.63%
4. NEW CLEANOUT, INLINE TOP 1256.3 INV 1252.8
4. 5. 86' - NEW 6" SCH40 PVC @ 18.95%
5. NEW CLEANOUT AT 30° BEND TOP 1240.0 INV 1236.5
5. 6. 48' - NEW 6" SCH40 PVC @ +/-3% (CONTRACTOR TO VERIFY SLOPE BASED ON INVERT IN OF EXISTING SEPTIC TANK)
6. NEW CLEANOUT ON 6" LATERAL THAT ENTERS THE EXISTING SEPTIC TANK. PROVIDE A 6"x4" REDUCER ON THE 6" LINE TO ENTER THE TANK WITH A 4" LINE. INV +/- 1235 (CONTRACTOR TO VERIFY INVERT ELEVATION OF EXISTING SEPTIC TANK)
7. NEW 1000 GALLON MID-SEAM SEPTIC TANK AS A PUMP CHAMBER MANUFACTURED BY C.T. JAMISON (540-483-5944). INVERT IN AT NEW PUMP CHAMBER TO BE 4" BELOW INVERT OUT OF CONVERTED PUMP CHAMBER TO SEPTIC TANK TOP OF MANHOLES TO BE 2" ABOVE FINISHED GRADE. EFFLUENT FILTER MUST BE INSTALLED ON THE OUTLET DRAIN OF SEPTIC TANK, PRIOR TO EFFLUENT ENTERING THE PUMP CHAMBER. PROVIDE CLEANOUT ABOVE THE FILTER FOR EASE OF FILTER REMOVAL, CLEANING AND REPLACEMENT. (SEE SEPTIC SYSTEM PLAN & DETAILS)

GENERAL WATER NOTES

THE NEW 2" DOMESTIC WATER LINE TO BE IPS HIGH DENSITY POLYETHYLENE PRESSURE PIPE PE4710, DR21, RATED FOR 200 PSI, MEETING ASTM D3350 REQUIREMENTS.

THE NEW 8" FIRE LINE TO BE DR14 PVC, RATED FOR 200 PSI.

WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS LATEST EDITION, SECTIONS 605.3 AND 605.5 OF THE COMMONWEALTH OF VIRGINIA PLUMBING CODE FOR WATERLINE REQUIREMENTS AND SECTION 312 FOR WATERLINE TESTING AND ALL LOCAL CODES AND THEIR STANDARDS.

A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER PROPOSED WATER LINES.

WATER LINE INSTALLATION, VALVES & WATER METER INSTALLATION, SHALL COMPLY WITH THE WESTERN VIRGINIA WATER AUTHORITY STANDARD SPECIFICATIONS, THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC), THE COMMONWEALTH OF VIRGINIA PLUMBING CODE, AWWA STANDARDS AND MANUFACTURER'S INSTRUCTIONS.

ALL VALVES SHALL BE POSITIONED TO ALLOW FREE MOVEMENT OF THE VALVE LEVERS & VALVE OPERATION. ALL VALVES TO BE COVERED BY VALVE VAULTS/BOXES EXTENDED TO FINISH GRADE.

UPON COMPLETION OF THE WATER LINES AND IMMEDIATELY PRIOR TURNING THE LINES OVER FOR OPERATIONS, THE CONTRACTOR WILL VERIFY THAT ALL VALVES ARE TO BE FULLY OPENED.

ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT.

CONTRACTOR TO PROVIDE AS-BUILT PLANS OF THE NEW WATERLINE TO THE DESIGN ENGINEER.

ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT.

CONTRACTOR RESPONSIBLE FRO LOCATING AND UNCOVERING ALL VALVES VAULTS, METERS, ETC.. AFTER PAVING AND ADJUSTING TO FINAL GRADE.

SEWER NOTES

THE NEW 6" GRAVITY SANITARY SEWER LINE TO BE SCH40 PVC MEETING ASTM D1785 REQUIREMENTS.

THE NEW 2" FORCE MAIN SANITARY SEWER TO BE PVC PRESSURE RATED AT A MIN. OF 160 PSI. MINIMUM COVER IS 24" BELOW FINISHED GRADE. TRACER WIRE TO BE INSTALLED ABOVE THE ENTIRE LENGTH OF THE FORCE MAIN

ALL SEWER WORK SHALL BE CONSTRUCTED TO THE LINES AND GRADES INDICATED. PIPE BEDDING AND BACKFILL SHALL BE CAREFULLY CONTROLLED. SEWER INSTALLATION SHALL COMPLY WITH THE LATEST INSTRUCTIONS OF THE PIPE MANUFACTURER AND WITH ALL LOCAL CODES & REQUIREMENTS.

A MINIMUM COVER OF TWO AND A HALF (2.5) FEET IS REQUIRED OVER PROPOSED GRAVITY SEWER LINES.

THE MINIMUM SLOPE ON THE 6" SEWER SHALL BE ½" PER FOOT.

ALL SEWER CONSTRUCTION INCLUDING BUT NOT LIMITED TO SEWER LINES, CLEANOUTS AND MANHOLES SHALL COMPLY WITH THE THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC), AND THE COMMONWEALTH OF VIRGINIA PLUMBING CODE.

CLEANOUTS IN PAVEMENT TO BE EQUIPPED WITH A TRAFFIC BEARING CLEANOUT BOX. CONTRACTOR RESPONSIBLE FOR LOCATING & UNCOVERING ALL CLEANOUTS, MANHOLES, ETC.. AFTER PAVING AND ADJUSTING TO FINAL GRADE. ALL CLEANOUTS TO BE FLUSH WITH FINAL GRADE. CLEANOUT PLUGS TO BE BRASS SCREW-IN WITH A COUNTERSUNK SQUARE HEAD.

ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT.

CONTRACTOR TO PROVIDE AS-BUILT PLANS OF THE NEW SEWER LINE TO THE DESIGN ENGINEER.

ALL TRENCHES SHALL BE THOROUGHLY COMPACTED TO PREVENT SETTLEMENT.

TRACER WIRE NOTES

TRACER WIRE TO BE #6 BARE COPPER SUITABLE FOR DIRECT BURIAL. WIRE SHALL BE PROVIDED OVER ALL PLASTIC CONDUITS AND PIPING. THE WIRE TO BE INSTALLED IN THE SAME TRENCH OF THE UTILITY AND WITHIN 12" OF THE PIPE. AT A MINIMUM, ONE END OF THE WIRE SHALL TERMINATE ABOVE GRADE IN AN ACCESSIBLE LOCATION THAT IS RESISTANT TO PHYSICAL DAMAGE, SUCH AS WITHIN A CLEANOUT OR AT THE BUILDING WALL.

NEW WATERLINE PROFILE

SCALE
HORIZ.: 1" = 40'
VERT.: 1" = 10'

MINIMUM 36" COVER REQUIRED OVER ALL WATERLINES.

FROM THE CONNECTION AT THE WATER MAIN TO THE NEW VAULT, A MINIMUM OF 18" SEPARATION IS REQUIRED BETWEEN THE NEW WATER LINE AND ANY UTILITY

Comment #5
Comment #9

NEW PUBLIC UTILITY EASEMENT FOR WATERLINE & VAULT
SCALE 1" =20'

RESERVED DRAINFIELD

NEW DRAINFIELD LOCATED BY AN AUTHORIZED ONSITE SOIL EVALUATOR (AOSE)

DRAINFIELD IS 10 -100 FT. TRENCHES INSTALLED AT A DEPTH OF 30" TRENCH WIDTH = 3 FT. TRENCHES AT 10 FT. ON CENTERS

As-Built K. Winslow 10.11.21

DATE: June 26, 2020
REVISIONS
1 Oct. 15, 2020
2 Dec. 29, 2020

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NEW FACILITY
JAMES RIVER EQUIPMENT
74 TAYLORS ROAD BOONES MILL, VA

DRAWN BY: xxx
CHECKED BY: xxx

SITE UTILITY PLAN

COMMONWEALTH OF VIRGINIA
06/26/2020
MARK JOHN AYLES
Lic. No. 034160
PROFESSIONAL ENGINEER

COMMISSION No. 19019
SHEET C-11

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