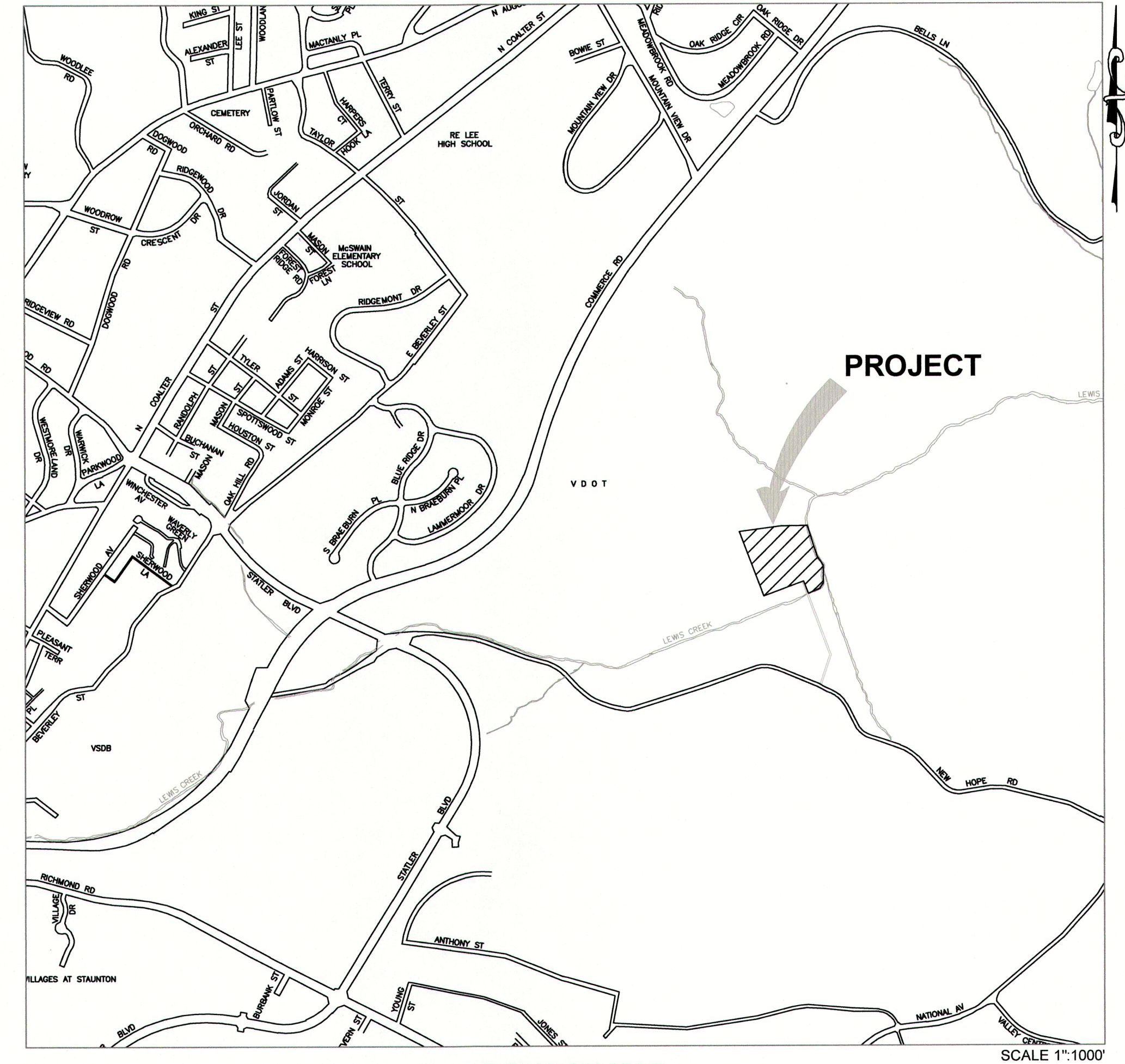


A vicinity map of the study area in southwestern Virginia. The map shows major roads including US Highway 81 running north-south, US Highway 64 running east-west, and US Highway 29 running north-south. Other roads shown are US Highway 340 and US Highway 400. Locations marked include Harrisonburg, Staunton, Grotoes, Charlottesville, Waynesboro, Lexington, Lynchburg, and Roanoke. A north arrow is located in the top left corner. The scale is 1 inch = 3000 feet.

CITY OF STAUNTON

City Engineer: Nickie D. Mills, P.E.
Phone: 540-332-3858



SCALE 1":1000'

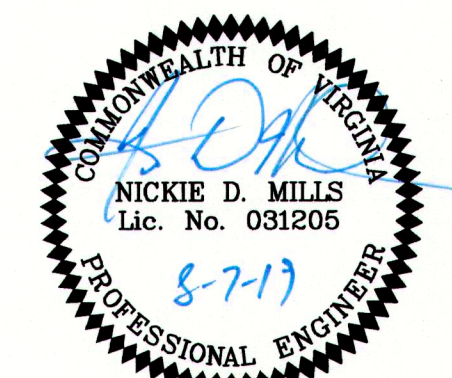
1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SPECIAL CONDITIONS, CITY OF STAUNTON DESIGN AND CONSTRUCTION STANDARDS, VDOT ROAD AND BRIDGE STANDARDS, HEALTH DEPARTMENT WATER WORKS AND SEWERAGE REGULATIONS AND ANY OTHER APPLICABLE STANDARDS.
2. ALL MATERIAL USED ON THIS PROJECT SHALL BE NEW AND COMPLY WITH THE LATEST REVISION OF THE APPLICABLE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM), AMERICAN WATERWORKS ASSOCIATION (AWWA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) & VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD & BRIDGE STANDARDS & SPECIFICATIONS UNLESS OTHERWISE NOTED.
3. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE AS THEY WERE KNOWN AT THE TIME THE PLANS WERE PREPARED. HOWEVER, NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS A GUARANTEE THAT SUCH UTILITIES ARE IN THE LOCATION INDICATED OR THAT THEY ACTUALLY EXIST, OR THAT OTHER UTILITIES ARE NOT IN THE AREA OF OPERATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATION OF SUCH LINES. THE CONTRACTOR SHALL PAY FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
CALL MISS UTILITY 48 HOURS IN ADVANCE OF DIGGING.
4. THE CONTRACTOR IS TO DIG & LOCATE EXISTING UTILITIES IN ADVANCE OF PIPE LAYING TO ALLOW FOR HORIZONTAL AND VERTICAL ALIGNMENT ADJUSTMENT.
5. UTILITY SERVICES SHALL BE UNINTERRUPTED UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER. THE CONTRACTOR IS REQUIRED TO HANG (CITY PROVIDED) NOTICES ON ALL BUSINESS CUSTOMER DOORS 48 HOURS PRIOR TO UTILITY SHUT-OFFS AND ALL OTHER CUSTOMER DOORS 24 HOURS PRIOR TO UTILITY SHUT-OFFS.
6. MAINTAIN 18" VERTICAL CLEARANCE AT ALL SANITARY SEWER CROSSINGS, AND 12" CLEARANCE AT ALL STORM SEWER CROSSINGS. MAINTAIN 10 FEET HORIZONTAL DISTANCE BETWEEN WATER LINES AND SANITARY SEWER LINES AND MANHOLES.
7. WATERLINE APPURTENANCES SHALL BE LOCATED AWAY FROM DRAINAGE PATTERNS.
8. ALL TOPSOIL, SEEDING & MULCHING OPERATIONS ARE TO FOLLOW IMMEDIATELY BEHIND PIPE LAYING OPERATIONS.
9. ALL PAVEMENT REPAIR IS TO BE KEPT UP WITH LINE INSTALLATION AS DIRECTED BY INSPECTOR.
10. ALL SALVAGE ITEMS REMOVED FROM THE PROJECT SHALL BE DEPOSITED AT THE CITY SALVAGE YARD.
11. ALL TRAFFIC CONTROL DEVICES MUST BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE VIRGINIA WORK AREA PROTECTION MANUAL.
12. EXISTING LINES ARE NOT TO BE ABANDONED UNTIL ALL SERVICES IN THE PROJECT AREA ARE CONNECTED TO NEW LINES.
13. CONTACTS FOR ASSOCIATED UTILITY COORDINATION ARE:

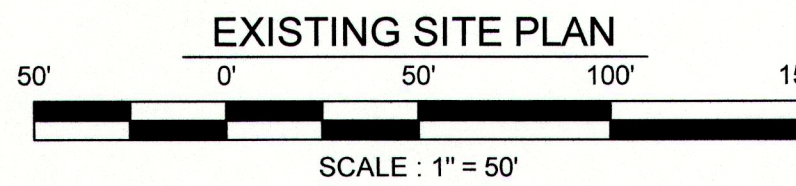
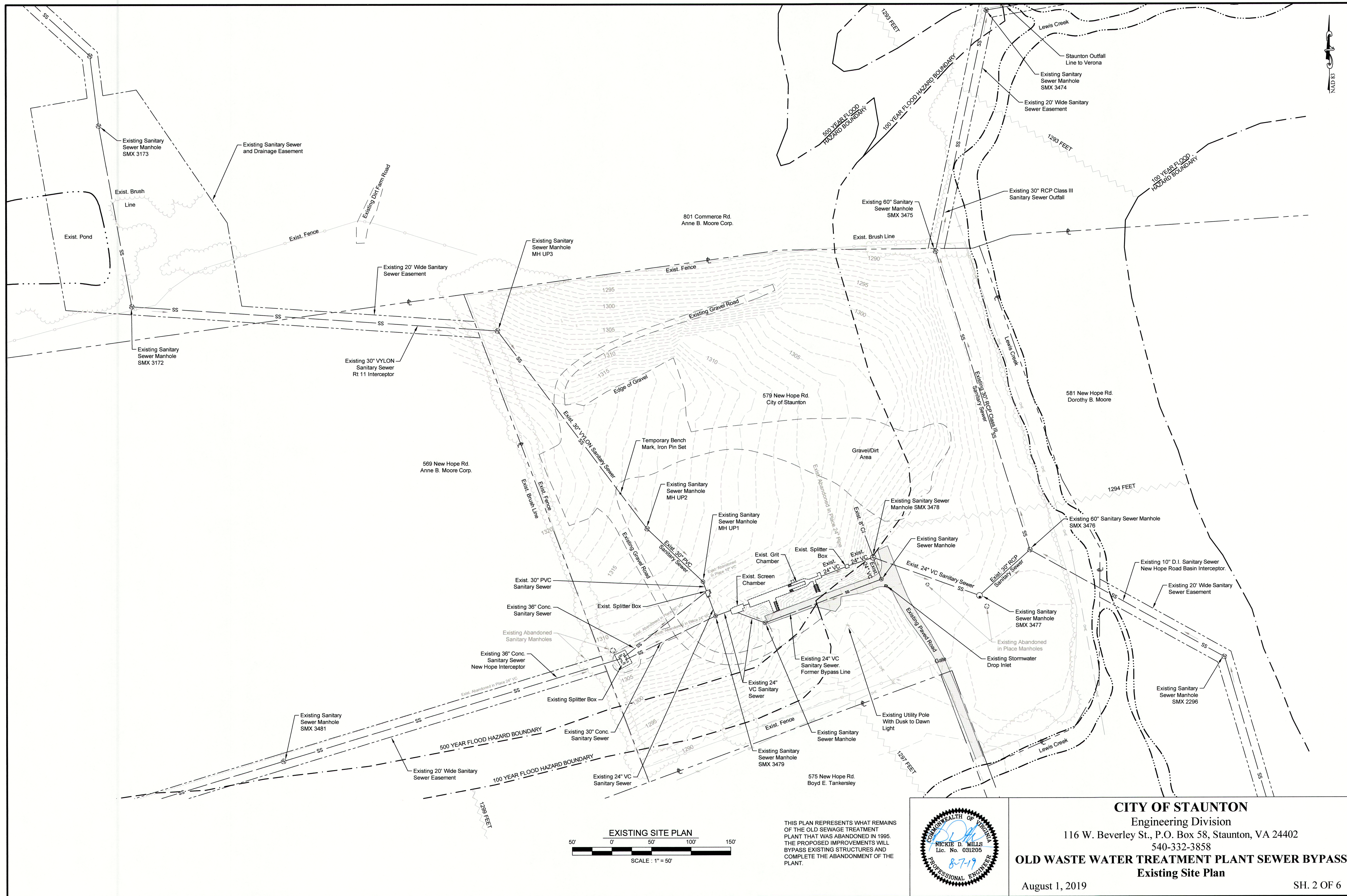
COLUMBIA GAS	TERRY HOWARD	290-0203
VIRGINIA POWER	RICH PARASKA	245-4121
COMCAST	ROB CROSIER	887-3461
VERIZON	CALVIN JOHNSON	434-841-8570
14. DRAWINGS FOR THESE PROJECTS ARE BASED ON AVAILABLE RECORDS, SUPPLEMENTED WITH A LIMITED AMOUNT OF FIELD SURVEY.
15. FIELD CHANGES SHALL BE APPROVED BY STAUNTON'S CITY ENGINEER PRIOR TO CONSTRUCTION.
16. CONTRACTOR SHALL CONTINUOUSLY MAINTAIN RECORD DRAWINGS DURING THE PROGRESS OF THE WORK.
17. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.
18. OPEN TRENCHES ARE LIMITED TO 100'. ALL TRENCHES SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY OR WHEN THE CONTRACTOR IS NOT ON SITE.
19. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED TO PRECLUDE THE PONDING OF WATER.
20. COORDINATE WITH STAUNTON'S CITY ENGINEER FOR EQUIPMENT STAGING AND STORAGE LOCATIONS PRIOR TO MATERIALS BEING DELIVERED TO THE SITE.

LEGEND	
SYMBOL	DESCRIPTION
	EXISTING OVERHEAD ELECTRIC
	EXISTING CREEK
	EXISTING GAS
	PROPERTY LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UTILITY POLE
	EXISTING GUY
	EXISTING LIGHT POST
	IRON PIN SET
	FLOOD HAZARD BOUNDARY
	FLOOD ELEVATION
	EXISTING 5' CONTOUR
	EXISTING 1' CONTOUR
	TREE/BRUSH LINE
	TREE
	EXISTING SANITARY SEWER PIPE
	EXISTING SANITARY MANHOLE
	EASEMENT
	EXISTING FENCE
	PROPOSED SANITARY SEWER PIPE
	PROPOSED SANITARY MANHOLE

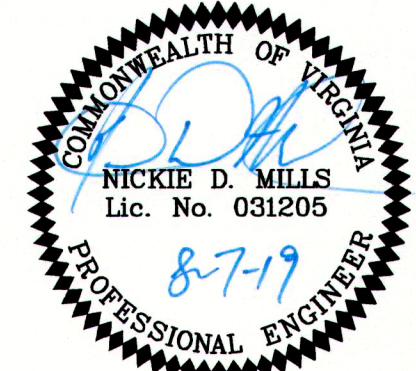
Data shown outside the limits of the actual field survey (outside subject parcel) was obtained from Staunton GIS Database.

SHEET 1	TITLE SHEET
SHEET 2	EXISTING SITE PLAN
SHEET 3	DEMOLITION AND ABANDONMENT PLAN
SHEET 4	SEWER BYPASS PLAN
SHEET 5	SEWER PLAN AND PROFILE
SHEET 6	SEWER PLAN AND PROFILE





THIS PLAN REPRESENTS WHAT REMAINS OF THE OLD SEWAGE TREATMENT PLANT THAT WAS ABANDONED IN 1995. THE PROPOSED IMPROVEMENTS WILL BYPASS EXISTING STRUCTURES AND COMPLETE THE ABANDONMENT OF THE PLANT.

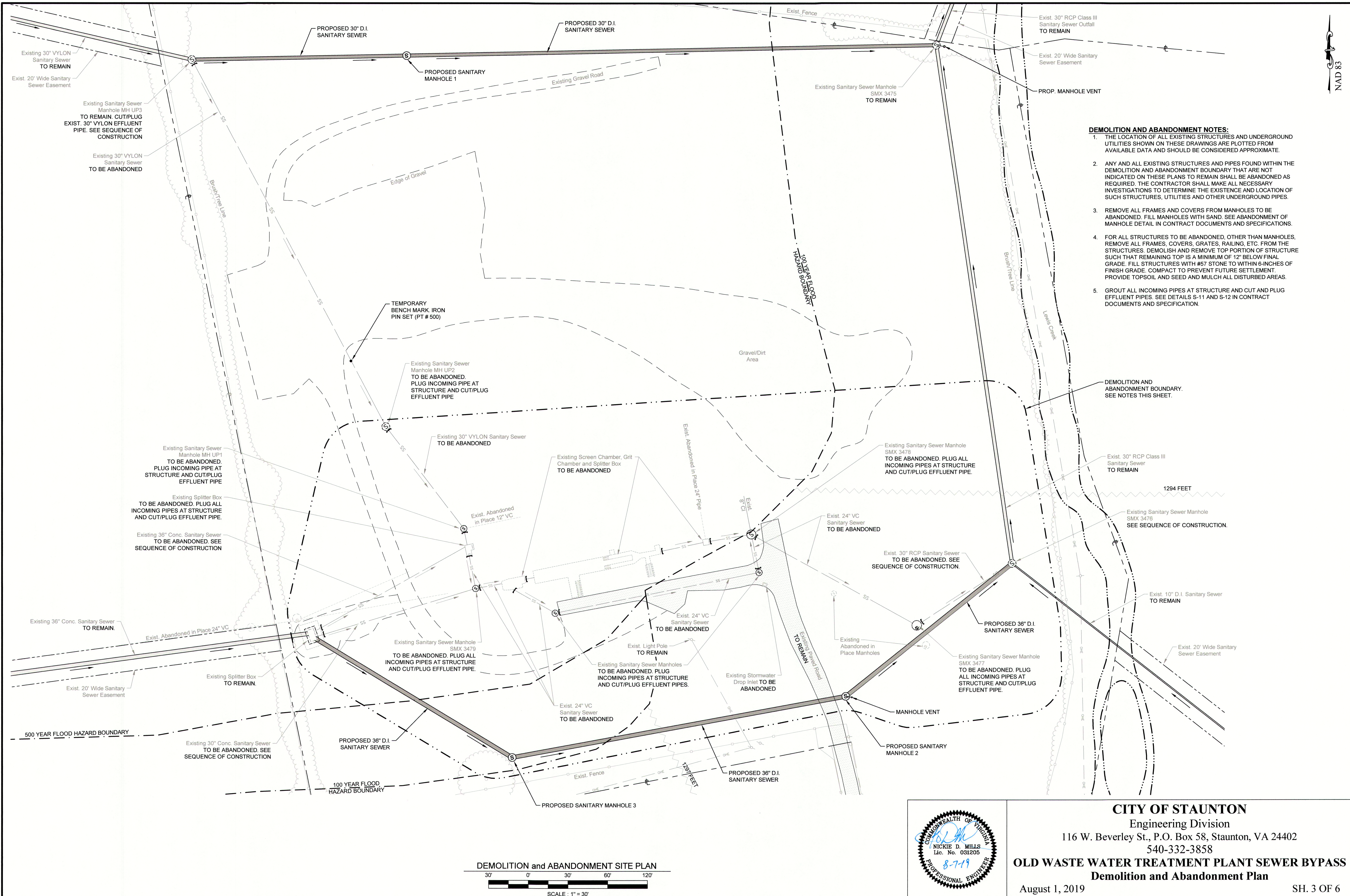


CITY OF STAUNTON
Engineering Division
116 W. Beverley St., P.O. Box 58, Staunton, VA 24402
540-332-3858

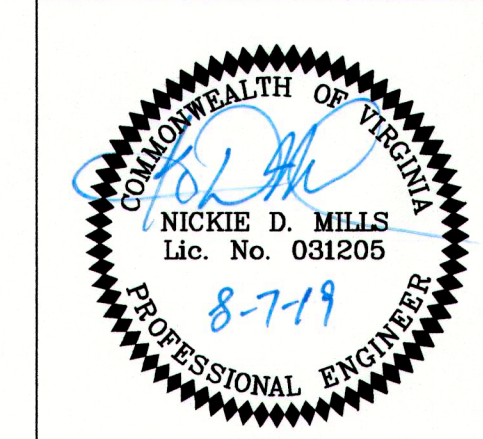
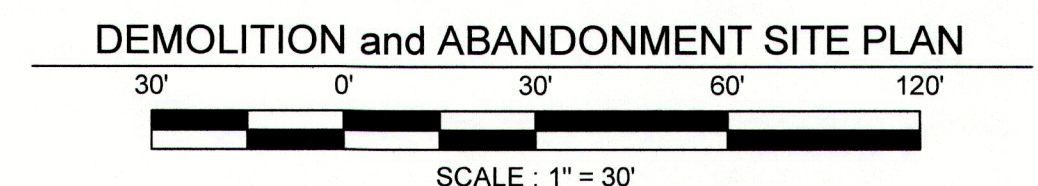
OLD WASTE WATER TREATMENT PLANT SEWER BYPASS
Existing Site Plan

August 1, 2019

SH. 2 OF 6



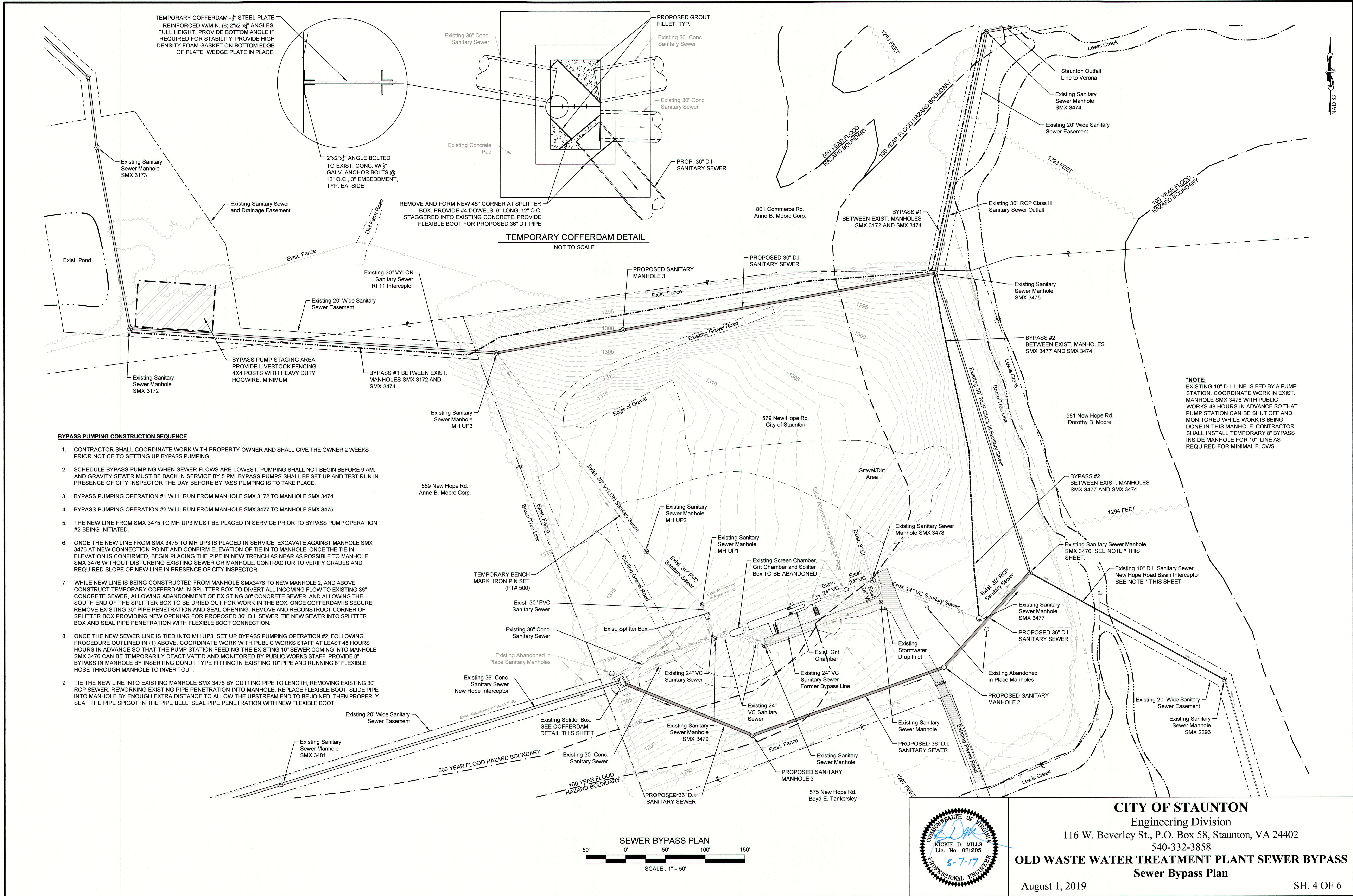
- DEMOLITION AND ABANDONMENT NOTES:**
1. THE LOCATION OF ALL EXISTING STRUCTURES AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE PLOTTED FROM AVAILABLE DATA AND SHOULD BE CONSIDERED APPROXIMATE.
 2. ANY AND ALL EXISTING STRUCTURES AND PIPES FOUND WITHIN THE DEMOLITION AND ABANDONMENT BOUNDARY THAT ARE NOT INDICATED ON THESE PLANS TO REMAIN SHALL BE ABANDONED AS REQUIRED. THE CONTRACTOR SHALL MAKE ALL NECESSARY INVESTIGATIONS TO DETERMINE THE EXISTENCE AND LOCATION OF SUCH STRUCTURES, UTILITIES AND OTHER UNDERGROUND PIPES.
 3. REMOVE ALL FRAMES AND COVERS FROM MANHOLES TO BE ABANDONED. FILL MANHOLES WITH SAND. SEE ABANDONMENT OF MANHOLE DETAIL IN CONTRACT DOCUMENTS AND SPECIFICATIONS.
 4. FOR ALL STRUCTURES TO BE ABANDONED, OTHER THAN MANHOLES, REMOVE ALL FRAMES, COVERS, GRATES, RAILING, ETC. FROM THE STRUCTURES. DEMOLISH AND REMOVE TOP PORTION OF STRUCTURE SUCH THAT REMAINING TOP IS A MINIMUM OF 12" BELOW FINAL GRADE. FILL STRUCTURES WITH #57 STONE TO WITHIN 6-INCHES OF FINISH GRADE. COMPACT TO PREVENT FUTURE SETTLEMENT. PROVIDE TOPSOIL AND SEED AND MULCH ALL DISTURBED AREAS.
 5. GROUT ALL INCOMING PIPES AT STRUCTURE AND CUT AND PLUG EFFLUENT PIPES. SEE DETAILS S-11 AND S-12 IN CONTRACT DOCUMENTS AND SPECIFICATION.

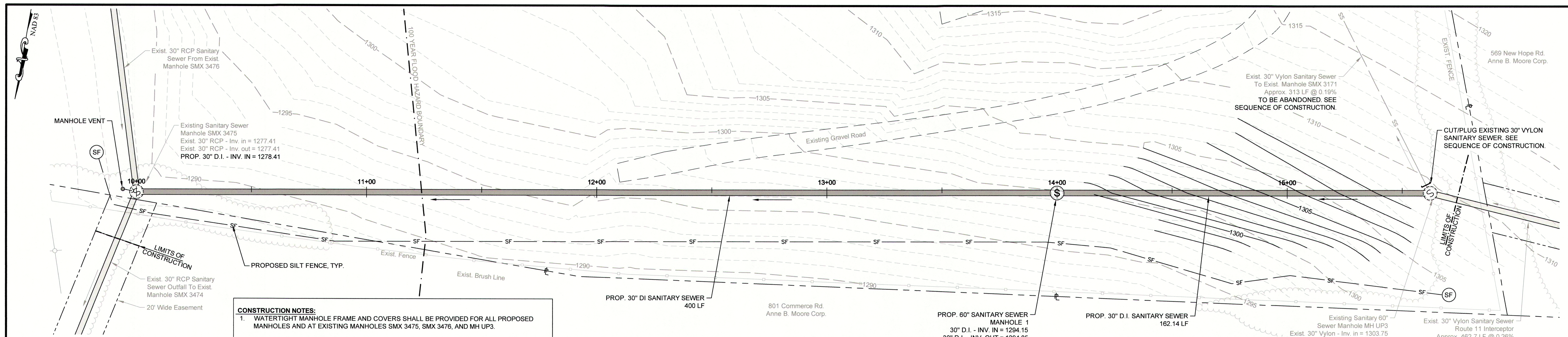


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 540-332-3858

OLD WASTE WATER TREATMENT PLANT SEWER BYPASS
Demolition and Abandonment Plan

August 1, 2019 SH. 3 OF 6



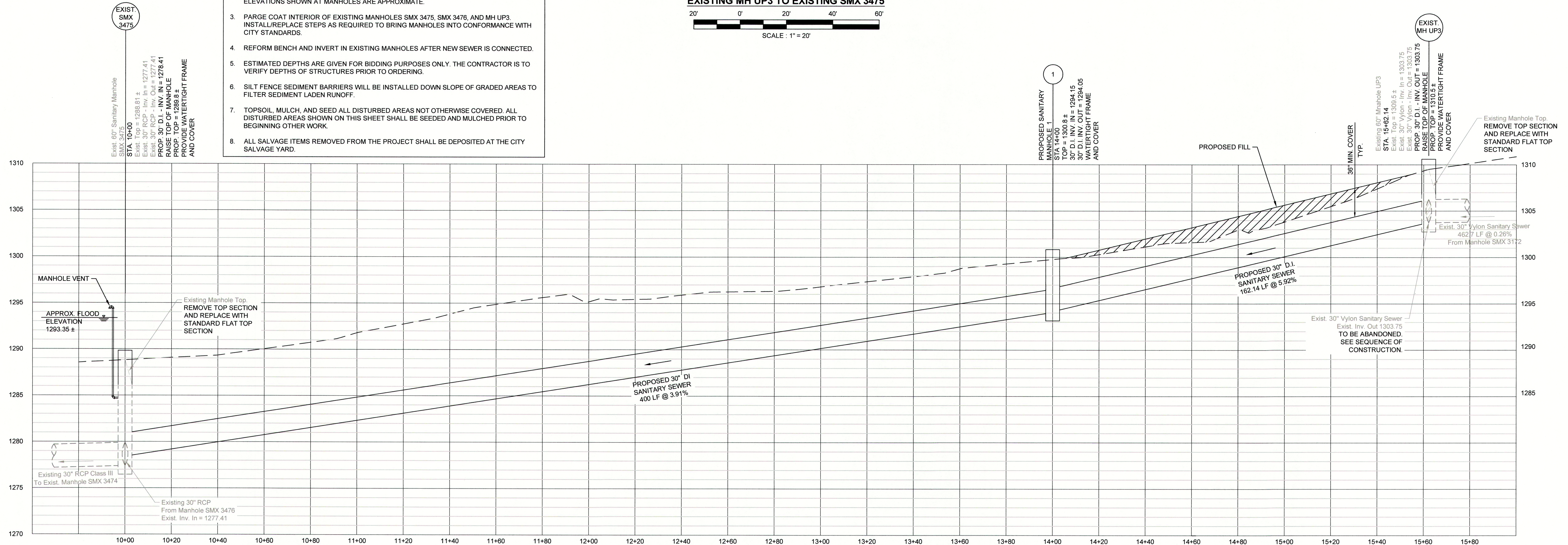


- CONSTRUCTION NOTES:**
1. WATERTIGHT MANHOLE FRAME AND COVERS SHALL BE PROVIDED FOR ALL PROPOSED MANHOLES AND AT EXISTING MANHOLES SMX 3475, SMX 3476, AND MH UP3.
 2. THE TOP ELEVATION OF PROPOSED MANHOLES AND EXISTING MANHOLES SMX 3475, SMX 3476, AND MH UP3 SHALL BE RAISED 1 FOOT ABOVE HIGHEST ADJACENT GRADE. THE TOP ELEVATIONS SHOWN AT MANHOLES ARE APPROXIMATE.
 3. PARGE COAT INTERIOR OF EXISTING MANHOLES SMX 3475, SMX 3476, AND MH UP3. INSTALL/REPLACE STEPS AS REQUIRED TO BRING MANHOLES INTO CONFORMANCE WITH CITY STANDARDS.
 4. REFORM BENCH AND INVERT IN EXISTING MANHOLES AFTER NEW SEWER IS CONNECTED.
 5. ESTIMATED DEPTHS ARE GIVEN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR IS TO VERIFY DEPTHS OF STRUCTURES PRIOR TO ORDERING.
 6. SILT FENCE SEDIMENT BARRIERS WILL BE INSTALLED DOWN SLOPE OF GRADED AREAS TO FILTER SEDIMENT LADEN RUNOFF.
 7. TOPSOIL, MULCH, AND SEED ALL DISTURBED AREAS NOT OTHERWISE COVERED. ALL DISTURBED AREAS SHOWN ON THIS SHEET SHALL BE SEEDED AND MULCHED PRIOR TO BEGINNING OTHER WORK.
 8. ALL SALVAGE ITEMS REMOVED FROM THE PROJECT SHALL BE DEPOSITED AT THE CITY SALVAGE YARD.

PROPOSED SANITARY SEWER PLAN
EXISTING MH UP3 TO EXISTING SMX 3475

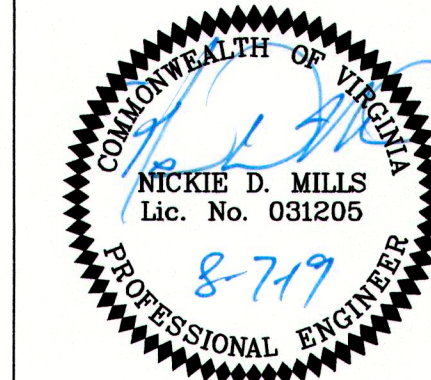
20' 0' 20' 40' 60'

SCALE : 1" = 20'



SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'

PROPOSED SANITARY SEWER PROFILE
EXISTING MH UP3 TO EXISTING SMX 3475

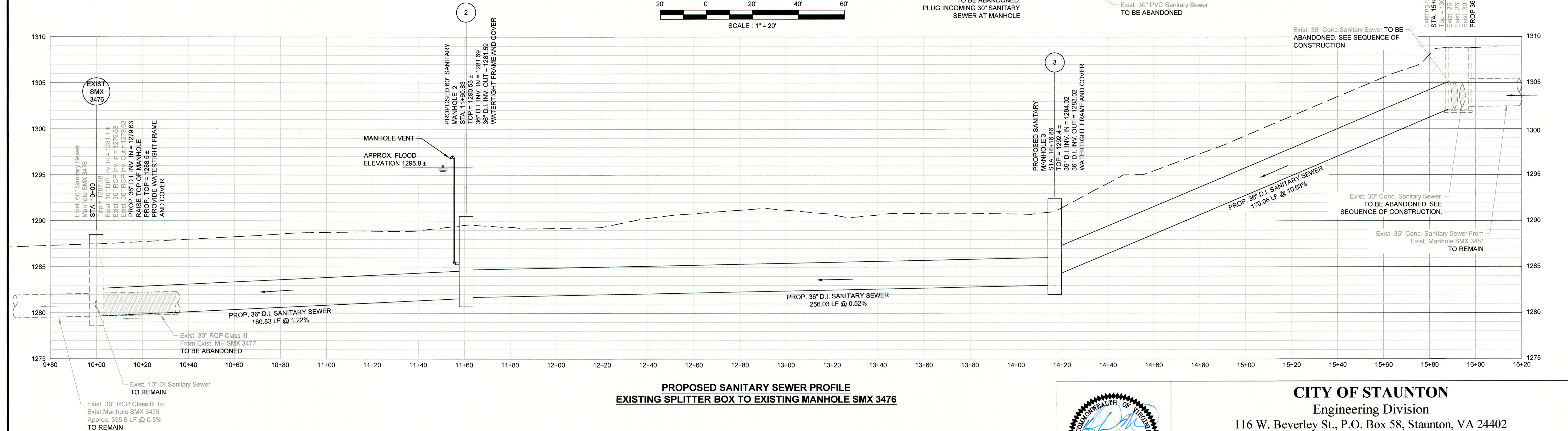


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OLD WASTE WATER TREATMENT PLANT SEWER BYPASS
Sanitary Sewer Plan and Profile

August 1, 2019

SH. 5 OF 6



SCALE: HORIZ. 1" = 20'
VERT. 1" = 5'

NOTE:
SEE CONSTRUCTION NOTES ON SHEET 5.



540-532-3858
OLD WASTE WATER TREATMENT PLANT SEWER BYPASS
Sanitary Sewer Plan and Profile
August 1, 2019

SH. 6 OF 6