

THE CONTRACTOR SHALL BE FAMILIAR WITH THE FOLLOWING WESTERN VIRGINIA WATER AUTHORITY (WVWA) DETAILS:

- S-01 4" STANDARD MANHOLE - 2 TOTAL
- S-08 SANITARY SEWER LATERALS - 8 TOTAL (450 LF TOTAL)
- S-25/G01 STONE BEDDING - 250 TONS
- S-17 CONCRETE PIER - (POSSIBLE)

OTHER GENERAL ITEMS INCLUDE THE FOLLOWING ITEMS:

- DIRECTIONAL DRILLING OF LATERALS
- WORKING IN CLOSE PROXIMITY TO EXISTING WATERLINES
- TREE REMOVAL & DISPOSAL
- TREE ROOT PROTECTION

GENERAL NOTES:

- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE BASED UPON FIELD LOCATIONS OF "MISS UTILITY" MARKINGS. THE CONTRACTOR SHALL ANTICIPATE ENCOUNTERING UNDERGROUND ELECTRIC, TELEPHONE, CABLE LINES, EXISTING WATERLINES, AND GAS LINES. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" PRIOR TO ANY EXCAVATION.
- PAVEMENT RECONSTRUCTION IS NOT ANTICIPATED, HOWEVER, SHOULD PAVEMENT RECONSTRUCTION OCCUR, THE CONTRACTOR SHALL PROVIDE A NEAT, VERTICAL SAW CUT ALONG THE PAVEMENT EDGE TO BE REMOVED. THE CONTRACTOR SHALL PROTECT THE SAW CUT FOR THE PAVEMENT RECONSTRUCTION PROCESS IN ACCORDANCE WITH VDOT AND THE WESTERN VIRGINIA WATER AUTHORITY (WVWA).
- REFERENCE IS DIRECTED TO THE BENCHMARKS SHOWN ON THE PLAN. THESE BENCHMARKS ARE BASED ON A PROJECT DATUM. SEE COVER FOR CORRELATION BETWEEN PROJECT DATUM AND NGVD' 29 DATUM. AN ACTUAL FIELD SURVEY WAS PERFORMED TO LOCATE EXISTING FEATURES AND GRADES WITHIN THE SANITARY SEWER ALIGNMENT. CONTOURS SHOWN WITHIN THE SANITARY SEWER ALIGNMENT ARE BASED ON ACTUAL FIELD SURVEYS.
- REFERENCE IS DIRECTED TO THE ASSOCIATED PROFILE SHOWING ADDITIONAL CONSTRUCTION ITEMS.
- REFERENCE IS DIRECTED TO THE REQUIRED EROSION CONTROL MEASURES FOR THE SANITARY SEWER INSTALLATION. REFERENCE IS DIRECTED TO THE "EROSION CONTROL NARRATIVE & DETAILS" FOR ADDITIONAL INFORMATION AND QUANTITIES.

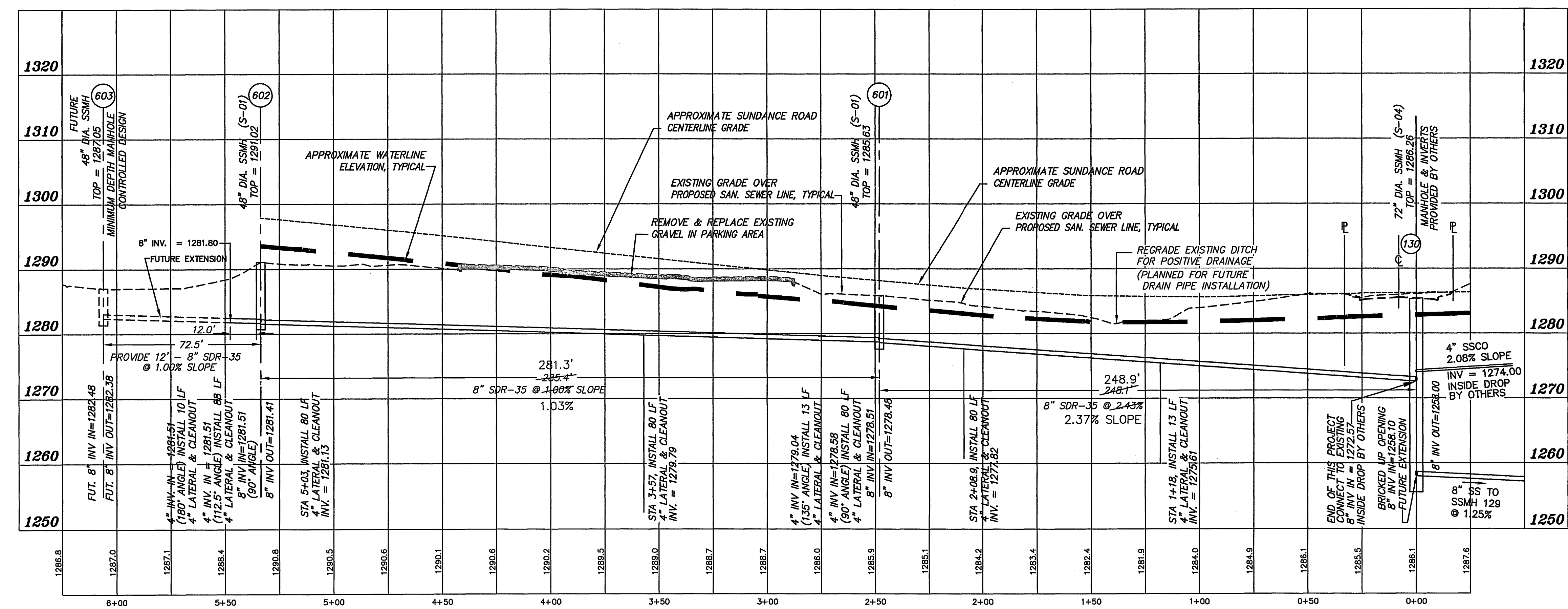
EXISTING TREE DESCRIPTIONS:

| T-1  | DOUBLE 10" POPULAR  | T-16 | CRETE MYRTLE     |
|------|---------------------|------|------------------|
| T-2  | 10" MAPLE           | T-17 | 14" WHITE PINE   |
| T-3  | 12" MAPLE           | T-18 | 6" APPLE TREE    |
| T-4  | 12" MAPLE           | T-19 | 18" CHESTNUT OAK |
| T-5  | 16" POPULAR         | T-20 | 20" RED OAK      |
| T-6  | 22" RED OAK         | T-21 | 18" RED OAK      |
| T-7  | DOUBLE 5" MAPLE     | T-22 | 12" PEAR         |
| T-8  | 10" POPULAR         | T-23 | 22" RED OAK      |
| T-9  | QUAD 12" COTTONWOOD | T-24 | 8" MAPLE         |
| T-10 | QUAD 12" COTTONWOOD | T-25 | 10" MAPLE        |
| T-11 | BOXWOOD             | T-26 | 17" MAPLE        |
| T-12 | TRIPLE 24" RED OAK  | T-27 | 12" PEAR         |
| T-13 | 24" RED OAK         | T-28 | 4" ROSE BUD      |
| T-14 | 12" WHITE PINE      | T-29 | 24" MAPLE        |
| T-15 | WHITE OAK CLUSTER   | T-30 | 12" MAPLE        |

SITE NOTES:

- THIS PROJECT REQUIRES THE INSTALLATION OF SANITARY SEWER MAIN AND SANITARY SEWER LATERALS. FIVE (5) PROPOSED LATERALS CROSS SUNDANCE ROAD. THIS INSTALLATION ANTICIPATES THE USE OF DIRECTIONAL DRILL INSTALLATION TO AVOID THE RECONSTRUCTION OF SUNDANCE ROAD. ACTUAL LENGTH OF DIRECTIONAL DRILL IS AT THE DISCRETION OF THE CONTRACTOR. THE TOTAL MAXIMUM LATERAL INSTALLATION FOR THESE FIVE (5) LATERALS IS 410 LF.
- THE CONTRACTOR SHALL INSTALL THE PROPOSED SANITARY SEWER MAIN FROM MANHOLE 130 (PROVIDED BY OTHERS), INSTALLING THE MAIN TO MANHOLE 602 AND PROVIDING UP TO A 12" STUB TOWARD FUTURE MANHOLE 603. THIS PROJECT INCLUDES ALL WORK NECESSARY TO INSTALL THE SEWER MAIN, MANHOLES, AND LATERALS AS SHOWN.
- THE WVWA DOES NOT PROVIDE CONSTRUCTION STAKEOUT OF MANHOLES AS PART OF THIS PROJECT. T. P. PARKER & SON CAN PROVIDE CONSTRUCTION STAKEOUT AND CONSTRUCTION "CUT" SHEETS FOR THE FOLLOWING PRICES:
  - A) STAKEOUT OF MANHOLES & CLEANOUTS & PROVIDE CONSTRUCTION SHEETS = \$ 500.
  - B) PROVIDE 10" INCREMENTAL CONTROL POINTS FOR DIRECTION DRILLING & CONSTRUCTION "CUT" SHEETS = \$700.
  - C) AS-BUILT VERIFICATION & PLAN REVISION = \$1,000
- THE CONTRACTOR SHALL PROVIDE EROSION & SEDIMENT CONTROL MEASURES AS REQUIRED TO CONSTRUCT THE SANITARY SEWER MAIN, LATERALS, AND MANHOLES. THE MINIMUM REQUIRED EROSION CONTROL MEASURES ARE SHOWN ON THIS PLAN.
- THE SEWER MAIN TRAVELS THROUGH AN EXISTING GRAVEL PARKING AREA. THE CONTRACTOR SHALL ANTICIPATE THE REMOVAL OF EXISTING STONE AND REPLACEMENT OF 170 TONS OF VDOT #21B IN THE EXISTING PARKING AREA. THE CONTRACTOR SHALL ANTICIPATE HAULING OFF THE EXISTING STONE DURING CONSTRUCTION.
- SEE "LATERAL PROFILES" FOR APPROXIMATE UTILITY CONFLICTS AND LATERAL SLOPES.

GRAPHIC SCALE: 1" = 30'



SANITARY SEWER LINE EXTENSION FROM SANITARY SEWER MANHOLE 130 TO 601 TO 602 TOWARD FUTURE 603  
SCALE: HORIZ: 1" = 30', VERT. : 1" = 10'

AS-BUILT SURVEY OF

PLAN & PROFILE SHEET OF  
SANITARY SEWER MAIN EXTENSION  
FOR  
WESTERN VIRGINIA WATER AUTHORITY  
SITUATE: SUNDANCE ROAD (VA. SEC. RTE. 1160)  
CATAWBA MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA  
REV: 01 JUNE 2006 SCALE: 1" = 30'

DESIGNED BY: P.J. BROWN  
DRAWN BY: PJB  
CHECKED BY: PJB  
W.O. #: 05-0519  
N.B.: CH-1  
TAX NO.: VARIOUS

COMMISSIONED BY: PAUL J. BROWN  
CERTIFICATE NO. 036148  
6-1-06  
PROFESSIONAL ENGINEER

T. P. PARKER & SON  
818 Boulevard  
Post Office Box 39  
Salem, Virginia 24153  
Telephone: 540-387-1153  
FAX: 540-388-5787  
04-0071 TOWN/05-0519-WVWA-TOPO.DWG