

GENERAL NOTES

1. THE LOCATION OF EXISTING UTILITIES, INCLUDING UNDERGROUND UTILITIES, IS INDICATED ON THE DRAWINGS INSOFAR AS THEIR EXISTENCE AND LOCATION WERE KNOWN AT THE TIME OF PREPARATION OF THESE DRAWINGS. HOWEVER, NOTHING IN THESE 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 WITHIN THE AREA OF OPERATIONS. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND DETERMINE ALL INVERTS PRIOR TO CONSTRUCTION TO ALLOW FOR ADJUSTMENTS DUE TO CONFLICTS WITH OTHER UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE VIRGINIA STATE WATER WORKS REGULATIONS, SECTION 12.05.03, AND THE VIRGINIA STATE SEWAGE COLLECTION AND TREATMENT REGULATIONS WHERE LINES CROSS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR SHALL HAVE A VALID MISS UTILITY TICKET PRIOR TO EXCAVATION. CONTACT MISS UTILITY AT 1-800-552-7001.
3. WATERLINES SHALL BE LAID TO LINES AND GRADES SHOWN ON THE DRAWINGS TO AVOID LOCAL HIGH POINTS AND LOW POINTS EXCEPT WHERE INDICATED.
4. HORIZONTAL AND VERTICAL DATUM IS VIRGINIA STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD 83.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE TECHNICAL SPECIFICATIONS. AN APPROVED SET OF PLANS, TECHNICAL SPECIFICATIONS, AND PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES. THE TECHNICAL SPECIFICATIONS INCLUDE THE APPLICABLE PORTIONS OF THE WESTERN VIRGINIA WATER AUTHORITY "WATER AND SEWER DESIGN & CONSTRUCTION STANDARDS".
6. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY) AVAILABLE AT WWW.WESTERNVAVATER.ORG OR BY CONTACTING THE AUTHORITY AT 540-853-5700. THE PROJECT SHALL ALSO COMPLY WITH THE GOVERNING JURISDICTION'S STANDARDS AND OTHER AGENCY STANDARDS (E.G., VDOT, DEQ, DCR, VDH, ETC.) WHERE APPLICABLE.
7. ALL CONNECTIONS TO EXISTING WATERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL PROVIDE FULL STAINLESS STEEL TAPPING SLEEVE(S) AND VALVE(S). THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING WATERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, CLEAN THE EXISTING WATERLINE, AND INSTALL THE TAPPING SLEEVE AND VALVE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT 540-853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.
8. ALL CONNECTIONS TO EXISTING SANITARY SEWERLINES SHALL BE PERFORMED BY THE AUTHORITY. THE CONTRACTOR SHALL EXCAVATE TO THE EXISTING SEWERLINE, SHORE THE TRENCH PER OSHA REQUIREMENTS, AND CLEAN THE EXISTING SEWERLINE PRIOR TO THE AUTHORITY PERFORMING THE TAP. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S UTILITY LINE SERVICES DIVISION AT 540-853-2792 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO REQUIRING THE CONNECTION.
9. THE CONTRACTOR SHALL PERFORM ALL MANHOLE CONNECTIONS. THE CORING AND BOOT INSTALLATION SHALL BE INSPECTED AND APPROVED BY AN AUTHORITY CONSTRUCTION INSPECTOR PRIOR TO ACTIVATING SEWER SERVICE. THE CONTRACTOR SHALL CONTACT THE AUTHORITY'S CONSTRUCTION INSPECTOR RESPONSIBLE FOR THE PROJECT AT LEAST ONE (1) DAY PRIOR TO INITIATING THE MANHOLE CONNECTION.
10. PRIOR TO CONSTRUCTION IN THE RIGHT-OF-WAY, ALL APPLICABLE PERMIT(S) FROM THE GOVERNING JURISDICTION AND/OR AGENCY MUST BE OBTAINED AND A COPY KEPT ON THE PROJECT SITE.
11. FOR PROJECTS REQUIRING TRAFFIC CONTROL IN THE CITY OF ROANOKE, NOTIFY MANAGER OF TRANSPORTATION, MARK JAMISON, AT 540-853-5471 AT LEAST TWO WEEKS IN ADVANCE OF REQUIRING TRAFFIC CONTROL. FOR A LANE CLOSURE PERMIT IN THE CITY OF ROANOKE, CONTACT THE TRAFFIC ENGINEER, GARY BOWMAN, AT 540-853-5834. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE MOST RECENT MUTCD MANUAL AND THE VDOT WORK AREA PROTECTION MANUAL UNLESS OTHERWISE SPECIFIED BY THE CITY.
12. THE CONTRACTOR SHALL NOTIFY THE AUTHORITY'S ENGINEERING COORDINATOR, CHUCK CLARK, AT 540-537-3243 AT LEAST THREE (3) DAYS PRIOR TO CONSTRUCTION.
13. A PRE-CONSTRUCTION CONFERENCE SHALL BE SCHEDULED AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION.
14. CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT.
15. SITE IS LOCATED IN A RESIDENTIAL AREA AND EXISTING RESIDENCES ARE LOCATED IMMEDIATELY ADJACENT TO SITE. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO MINIMIZE DISTURBANCES TO ADJACENT PROPERTIES, INCLUDING PREVENTION OF DUST/DEBRIS INTRUSION ONTO PROPERTIES.
16. CONTRACTOR SHALL PROTECT EXISTING TREES FROM DAMAGE, UNLESS OTHERWISE ALLOWED BY OWNER IN WRITING. NO TREES SHALL BE REMOVED WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER.
17. CONTRACTOR SHALL PROVIDE THE AUTHORITY WITH A PLAN TO MAINTAIN WATER SERVICE TO ALL CUSTOMERS WITH MINIMUM DISRUPTION PRIOR TO START OF CONSTRUCTION. NOTIFICATION TO AFFECTED CUSTOMERS SHALL BE COORDINATED WITH AUTHORITY AND GIVEN 24 HOURS PRIOR TO DISRUPTION WHEN POSSIBLE.
18. THE "OWNER" IS THE WESTERN VIRGINIA WATER AUTHORITY (AUTHORITY). THE TERMS "OWNER" AND "AUTHORITY" ARE USED INTERCHANGEABLY IN THESE CONTRACT DOCUMENTS.
19. THE USE OF TEMPORARY ABOVE GROUND LINES WILL BE ALLOWED TO FACILITATE INSTALLATION OF THE NEW LINES. THESE LINES SHALL BE PROTECTED DURING USE AND REMOVED WHEN NO LONGER NEEDED. COST OF ANY TEMPORARY LINES SHALL BE INCLUDED IN THE UNIT COST OF THE WATERLINE.
20. LOCATION OF EXISTING UTILITIES IS APPROXIMATE AND FIELD ADJUSTMENTS TO PROPOSED WATERLINE SHALL BE MADE TO MAINTAIN PROPER CLEARANCES AND PROTECT OTHER UTILITIES. FIELD CHANGES SHALL BE APPROVED BY THE AUTHORITY'S ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION. ALL WORK SHALL BE MAINTAINED WITHIN EXISTING STREET RIGHT OF WAY.
21. CONTRACTOR SHALL OBTAIN REQUIRED PERMITS FROM CITY OF ROANOKE AND DEPARTMENT OF CONSERVATION AND RECREATION.
22. PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH ROANOKE CITY STANDARDS.
23. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE ACCESS TO ALL PROPERTIES DURING CONSTRUCTION AND SHALL MAINTAIN SAFE ACCESSIBILITY TO FIRE HYDRANTS AT ALL TIMES.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES AFTER PAVING. MANHOLE RIMS SHALL BE INSTALLED TO GRADE AND FLUSH WITH THE FINAL PAVEMENT.
25. UNREPAIRED ROADWAYS OPENED TO TRAFFIC SHALL HAVE, AT A MINIMUM, COMPACTED AGGREGATE MATERIAL VDOT 21A OR 21B FLUSH WITH THE ADJACENT ROADWAY SURFACE AND SHALL BE INSPECTED AND REPAIRED ON A DAILY BASIS. SOME AREAS WILL REQUIRE A TEMPORARY PATCH UNTIL FINAL PAVING CAN BE COMPLETED.
26. THE CONTRACTOR SHALL NOT EXCAVATE MORE TRENCH LENGTH THAN CAN BE RESTORED WITHIN THE SAME WORK TRENCHES SHALL BE BACKFILLED OR PLATED AT THE END OF EACH WORK DAY OR WHEN THE CONTRACTOR IS NOT ON SITE.
27. THE CONTRACTOR SHALL SUPPLY THE AUTHORITY WITH CORRECT AS-BUILT PLANS BEFORE SUBSTANTIAL COMPLETION WILL BE GRANTED.

EROSION & SEDIMENT CONTROL NOTES:

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION & SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS & SPECIFICATIONS OF THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK & VIRGINIA REGULATIONS VR 625-02-00 EROSION & SEDIMENT CONTROL REGULATIONS.
- ES-2: PRIOR TO COMMENCING WORK, THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER SHALL OBTAIN AN EROSION AND SEDIMENT CONTROL PERMIT FOR THE PROJECT FROM THE LOCAL GOVERNING JURISDICTION AND DCR (IF REQUIRED). ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
- ES-3: ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION & SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-5: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES & DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-6: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ES-7: THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING ALL VEHICLES AND EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE STREETS ARE KEPT IN A CLEAN, MUD- AND DUST-FREE CONDITION AT ALL TIMES.

SEEDING NOTES:

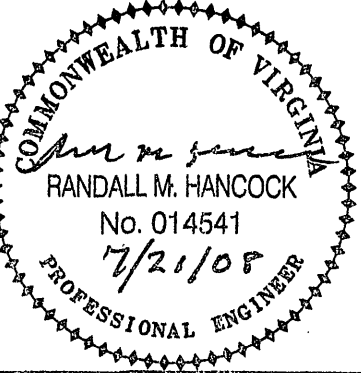
1. SEEDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
2. WHEN PERMANENT SEEDING CANNOT OCCUR AT THE PROPER TIME, TEMPORARY SEEDING WILL BE PERFORMED TO BE FOLLOWED BY PERMANENT SEEDING.

WATER METER INSTALLATION:

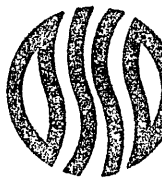
1. WATER SERVICE CONNECTIONS SHALL INCLUDE CONNECTION TO NEW WATER LINE, SERVICE LINE, AND NEW METER BOX ASSEMBLY. CONTRACTOR SHALL INSTALL NEW WATER SERVICES INCLUDING THE METER SETTER AND VAULT. THE AUTHORITY WILL INSTALL ALL NEW WATER METERS AND REMOVE ALL EXISTING WATER METERS. CONTRACTOR SHALL MAKE CONNECTION TO EXISTING SERVICE LINE ON CUSTOMER SIDE OF METER AFTER NEW WATER SYSTEM, INCLUDING SERVICE LINE, HAS BEEN TESTED, DISINFECTED, AND APPROVED FOR SERVICE. CONTRACTOR SHALL THEN DEMOLISH THE EXISTING WATER METER SETTER AND VAULT. THE WORK ALSO INCLUDES ASSOCIATED BACKFILL AND RESTORATION.
2. CONTRACTOR SHALL COORDINATE EXISTING METER REMOVAL AND NEW METER INSTALLATION DIRECTLY WITH THE AUTHORITY. CONTRACTOR SHALL PROVIDE AT LEAST THREE (3) BUSINESS DAYS ADVANCE NOTICE TO THE AUTHORITY PRIOR TO NEEDING METER INSTALLATIONS. CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITY TO PROVIDE A SERIES OF AT LEAST TEN (10) SERVICES THAT ARE READY TO RECEIVE NEW METERS BEFORE CONTACTING THE AUTHORITY FOR METER REPLACEMENT.

GENERAL LEGEND

EXISTING	LEGEND	PROPOSED
---1000---	CONTOURS	---1000---
x 1561.3	GROUND ELEVATION	FC 1528.3 TO 1528.3
	TREE LINE	N/A
	STREAM	N/A
	LIMITS OF CLEARING	N/A
	DECIDUOUS TREE	N/A
	CONIFEROUS TREE	N/A
	SHRUB	N/A
	FENCE	N/A
	PROPERTY LINE/ROW	N/A
	IRON ROD FOUND	N/A
	IRON ROD SET	N/A
	MONUMENT FOUND	N/A
	MONUMENT SET	N/A
	EASEMENT	N/A
	100 YEAR FLOOD ZONE	N/A
	LIMITS OF CONSTRUCTION	N/A
	BENCHMARK	N/A
	BUILDING	N/A
	HEAVY DUTY PAVEMENT	N/A
	STANDARD DUTY PAVEMENT	N/A
	CONCRETE	N/A
	DEMOLITION	N/A
	DEMOLITION KEY	N/A
	SIGN	N/A
	BOLLARD	N/A
	BOREHOLE	N/A
	METAL POST	N/A
	WOOD POST	N/A
	TEST PIT	N/A
	STORM SEWER	N/A
	STORM CLEANOUT	N/A
	STORM MANHOLE	N/A
	STORM DRAINAGE INLET	N/A
	STORM STRUCTURE KEY	N/A
	SANITARY SEWER	N/A
	FORCE MAIN	N/A
	SANITARY CLEANOUT	N/A
	SANITARY MANHOLE	N/A
	SANITARY STRUCTURE KEY	N/A
	UNDERGROUND ELECTRIC	N/A
	OVERHEAD POWER	N/A
	LIGHT POLE	N/A
	ELECTRIC POLE	N/A
	ELECTRIC MANHOLE	N/A
	WATER	N/A
	WATER VALVE	N/A
	POST INDICATOR VALVE	N/A
	AIR RELEASE VALVE	N/A
	BLOW OFF VALVE	N/A
	GATE VALVE	N/A
	BUTTERFLY VALVE	N/A
	B.F. VALVE w/OPERATOR	N/A
	SIAMESE CONNECTION	N/A
	FIRE HYDRANT	N/A
	HOSE BIB	N/A
	WATER METER	N/A
	WATER MANHOLE	N/A
	WELL	N/A
	GENERIC COMMUNICATION	N/A
	UNDERGROUND COMMUNICATION	N/A
	OVERHEAD COMMUNICATIONS	N/A
	FIBER OPTICS	N/A
	FIBER OPTICS MANHOLE	N/A
	FIBER OPTICS PEDESTAL	N/A
	CABLE TV	N/A
	CABLE TV MANHOLE	N/A
	CABLE TV PEDESTAL	N/A
	TELEPHONE LINE	N/A
	OVERHEAD TELEPHONE	N/A
	UNDERGROUND TELEPHONE	N/A
	TELEPHONE BOX	N/A
	TELEPHONE MANHOLE	N/A
	TELEPHONE PEDESTAL	N/A
	TELEPHONE POLE	N/A
	GAS LINE	N/A
	GAS DRIP	N/A
	GAS METER	N/A
	GAS MANHOLE	N/A
	GAS VALVE	N/A



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LEGEND SHEET
DEYERLE AREA PHASE 1 WATERLINE REPLACEMENT
WESTERN VIRGINIA WATER AUTHORITY
CITY OF ROANOKE, VIRGINIA

REVISIONS

DESIGNED BY: RMH
DRAWN BY: DLD
CHECKED BY: RMH
SCALE: N/A
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