

#### DEMOLITION NOTES-GENERAL

- CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING UTILITY STRUCTURES, NOT BEING DEMOLISHED, DURING DEMOLITION OPERATIONS. WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH SITE PLANS TO VERIFY NEW ELEVATIONS.
- DEMOLITION SHALL INCLUDE, UNLESS OTHERWISE NOTED ON DRAWINGS, REMOVAL OF EXISTING OBJECTS OR IMPROVEMENTS. WHETHER INDICATED ON THE DRAWINGS OR NOT, THAT WOULD IN THE OPINION OF THE OWNER, PREVENT OR INTERFERE WITH THE PROGRESS OR COMPLETION OF THE
- PERMITS. FEES AND LICENSES SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR, INCLUDING DISPOSAL CHARGES AS REQUIRED.
- WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING AUTHORITIES IN DEMOLITION OF EXISTING PAVEMENT, CURBS, GUTTERS, DRAINAGE STRUCTURES, FENCES AND OTHER UTILITIES AS
- ) ALL EXISTING FACILITIES OR OBJECTS BEING DEMOLISHED SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF BY THE CONTRACTOR IN A TIMELY MANNER. DEBRIS FROM DEMOLITION ACTIVITIES SHALL NOT BE USED AS FILL MATERIAL ON THE JOB SITE.
- CONTRACTOR SHALL COMPLETELY FILL BELOW GRADE AREAS, FOUNDATIONS ETC. AND VOIDS RESULTING FROM DEMOLITION OR REMOVAL OF STRUCTURES USING APPROVED SELECT MATERIAL.
- ) EXISTING INLETS, MANHOLES, VAULTS OR OTHER UTILITY STRUCTURES NOT INDICATED AS BEING REMOVED SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
- B) UNDERGROUND UTILITIES INDICATED HEREON ARE AS MARKED BY THE UNDERGROUND UTILITY LOCATOR SERVICE AND FROM FIELD SURVEY BY CALDWELL WHITE ASSOCIATES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES SHOWN PRIOR TO BEGINNING CONSTRUCTION.
- ) UTILITY SERVICES TO THIS PROJECT HAVE BEEN DISCONNECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY UTILITY SERVICES AS REQUIRED FOR DEMOLITION OF THE PROJECT. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AS REQUIRED AND SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SUPPLYING TEMPORARY UTILITIES. SERVICE LINES AND LATERALS MAY STILL BE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING/REMOVING THESE SERVICE LINES. REFERENCE PLAN SHEETS C-2 AND C-3 FOR UTILITY SERVICE LINES TO BE REMOVED.
- O) THE CONTRACTOR'SHALL BE REQUIRED TO COORDINATE ALL WORK ASSOCIATED WITH WATER AND SEWER SERVICES WITH THE WESTERN VIRGINIA WATER AUTHORITY. ALL WORK SHALL BE IN ACCORDANCE WITH WVWA STANDARDS.
- 1) S. JEFFERSON STREET HAS RECENTLY BEEN REPAYED BY THE CITY OF ROANOKE. THE CONTRACTOR SHALL BE REQUIRED TO REPAIR/REPLACE ASPHALT PAVEMENT IN S. JEFFERSON STREET AND RESERVE AVENUE DAMAGED BY DEMOLITION DEBRIS OR EQUIPMENT. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE CITY OF ROANOKE RIGHT-OF-WAY EXCAVATION AND RESTORATION STANDARDS'. ROANOKE CITY WILL REQUIRE ANY REPAIRS TO PAVEMENT IN S. JEFFERSON STREET TO BE ACCOMPLISHED BY MILLING EXISTING PAVEMENT AND CONSTRUCTING A NEW OVERLAY IN ACCORDANCE WITH ROANOKE CITY STANDARDS.
- 12) REFERENCE WATER VAULT DETAILS, SHEETS C-2 AND C-3, FOR TERMINATION OF EXISTING SERVICES AT WATER VAULT NUMBERS 1, 2 & 3.
- 13) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE AT ALL TIMES DURING DEMOLITION OPERATIONS.

14) CONTRACTOR SHALL PROVIDE THE FOLLOWING PROTECTIONS AT THE JOB SITE:

- A. MAKE NECESSARY ARRANGEMENTS FOR RELOCATING, DISCONNECTING, RE-ROUTING, ABANDONING OR SIMILAR ACTION NECESSARY, FOR ALL UTILITIES (OVERHEAD AND UNDERGROUND) PRIOR TO BEGINNING DEMOLITION. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ESTABLISHED POLICIES AND PROCEDURES, AND REGULATIONS OF THE UTILITY OWNER.
- B. ENSURE SAFE PASSAGE OF PERSONS AROUND ALL AREAS OF DEMOLITION. PARTICULAR CARE SHALL BE TAKEN ALONG S. JEFFERSON STREET.
- C. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES, VEHICLES IN S. JEFFERSON STREET AND RESERVE AVENUE, AND INJURY TO PERSONS.
- D. PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS TO CONDITIONS EXISTING PRIOR TO THE START OF WORK. CONTRACTOR SHALL PERFORM THESE
- OPERATIONS AT NO COST TO THE OWNER. E. PROTECT EXISTING UTILITIES WHICH ARE INDICATED TO REMAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. PREVENT INTERRUPTION OF EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES. EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS ACCEPTABLE TO GOVERNING AUTHORITIES.
- F. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. G. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST. DIRT. AND DEBRIS CAUSED BY
- DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO PRE-CONSTRUCTION CONDITION AS NEAR AS PRACTICAL.
- 15) THE CONTRACTOR SHALL SUBMIT A PROPOSED WORK PLAN TO THE OWNER FOR APPROVAL PRIOR TO STARTING DEMOLITION OPERATIONS. PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING: A. PROJECT SCHEDULE.
- B. LOCATION AND NAME OF DISPOSAL AREAS. C. DEMOLITION PHASING PLAN. PLAN SHALL INCLUDE MEASURES TO HANDLE STORM WATER RUNOFF AND WATER USED FOR DUST CONTROL, ETC. THE PLAN SHALL ADDRESS PROPOSED MEASURES TO FILTER CONCRETE DUST, ETC. FROM STORM WATER AND DUST CONTROL WATER PRIOR TO LEAVING THE SITE.
- 16) A STREET OPENING PERMIT IS REQUIRED FOR ALL WORK WITHIN ROANOKE CITY RIGHT-OF-WAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS PERMIT FROM ROANOKE CITY.

### GENERAL NOTES

ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE CONSTRUCTION AND DEVELOPMENT AND THE WESTERN VIRGINIA WATER AUTHORITY.

AN APPROVED SET OF PLANS AND ALL PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT THE JOB SITE. IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE THAT THE STREETS ARE IN A CLEAN, MUD. AND DUST FREE CONDITION AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND/OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC

THE OWNER AND/OR CONTRACTOR SHALL SUPPLY ALL UTILITY COMPANIES WITH COPIES OF THE APPROVED PLANS, ADVISING THEM THAT ALL GRADING AND INSTALLATION SHALL CONFORM TO THE APPROVED PLANS.

CONTRACTOR SHALL NOTIFY UTILITIES OF PROPOSED CONSTRUCTION AT LEAST TWO, BUT NOT MORE THAN TEN WORKING DAYS IN ADVANCE. AREA PUBLIC UTILITIES MAY BE NOTIFIED THROUGH MISS UTILITY AT (800) 552-7001.

NO CONSTRUCTION OR FIELD CHANGES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE CONSULTING ENGINEER AND THE CITY OF ROANOKE DEPARTMENT OF PLANNING BUILDING AND DEVELOPMENT.

OBSERVING EROSION CONTROL MEASURES. BOTH ON AND OFF THE SITE. REFER TO THE VIRGINIA

EXISTING FENCING, UTILITY LINES OR OTHER PHYSICAL FEATURES THAT REQUIRE DEMOLITION SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF ROANOKE. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING FEATURES THAT ARE TO BE

CONSTRUCTION DEBRIS SHALL BE CONTAINED IN ACCORDANCE WITH THE VIRGINIA LITTER

CONTROL ACT. NO LESS THAN ONE LITTER RECEPTACLE SHALL BE PROVIDED ON-SITE.

STANDARDS AND SPECIFICATIONS OF THE CITY OF ROANOKE DEPARTMENT OF PLANNING BUILDING

FIELD CONSTRUCTION SHALL HONOR PROPOSED GRADES AS SHOWN ON PLANS.

THE SITE WORK AND LANDSCAPING CONTRACTOR(S) SHALL COMPLY WITH LOCAL CODES IN UNIFORM CODING SYSTEM CONTAINED IN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION, FOR DETAILS AND SPECIFICATIONS OF EROSION CONTROL ITEMS SHOWN ON THESE PLANS.

DEMOLISHED AND WHERE NEW CONSTRUCTION JOINS THE EXISTING.

OFF-SITE AREAS: THE CONTRACTOR HOLDING THE LAND DISTURBING PERMIT FOR THIS PROJECT IS REQUIRED TO PROVIDE TO THE CITY OF ROANOKE DEPARTMENT OF PLANNING BUILDING AND DEVELOPMENT, THE LOCATION OF ALL OFF-SITE BORROW/FILL AREAS ASSOCIATED WITH THIS PROJECT. AN EROSION CONTROL PLAN MAY BE REQUIRED FOR THOSE AREAS.

> ALL DENUDED AREAS SHALL BE PERMANENTLY SEEDED WITHIN SEVEN (7) DAYS OF REACHING FINAL GRADE. TEMPORARY SEEDING SHALL BE APPLIED, WITHIN SEVEN (7) DAYS, TO DENUDED AREAS NOT AT FINAL GRADE BUT THAT WILL REMAIN UNDISTURBED FOR MORE THAN 30 DAYS.

CITY OF ROANOKE CONSTRUCTION PROCEDURE REQUIREMENTS

Construction Procedure Requirements

easements), a right-of-way excavation permit shall be applied for and obtained by

Land Disturbance Permit — An approved erosion and sediment control plan for any borrow/fill sites associated with the project must be submitted prior to the issuance

<u>Plans and Permits</u> — A copy of the plans as approved by the City (signed by the

Location of Utilities — The contractor shall verify the location of all existing utilities

for all construction related to egress from the site. Size and composition of

6. Streets to Remain Clean — It shall be the responsibility of the contractor to insure

Barricades/Ditches — The contractor shall maintain the integrity of all excavated

dirt, dust, and/or any type of construction materials or litter at all times.

8. Sewer and Pavement Replacement - Construction of sanitary sewers and the

replacement of pavement shall be in accordance with approved standards and

specifications of the City of Roanoke and the Western Virginia Water Authority.

Approved Plans/Construction Changes — Any change or variation from construction

10. Final Acceptance/City — The owner or developer shall furnish the City of Roanoke's

GENERAL SITE & UTILITY NOTES

Planning Building and Development Department with a final correct set of as-built

design as shown on the officially approved plans shall be approved by the erosion and

sediment control agent prior to said changes or variation in construction being made.

that the public street adjacent to the construction entrance remains free of mud,

ditches and shall furnish and ensure that all barricades proper and necessary for the

Construction Entrance — The contractor shall install an adequate construction entrance

proper City officials) and all permits issued by the City shall be available at the

Right-of-Way Excavation Permit - Prior to the commencement of any digging,

alteration or construction within the public right-of-way (streets, alleys, public

FAILURE TO COMPLY WITH THE CONSTRUCTION PROCEDURE REQUIREMENTS LISTED BELOW MAY RESULT IN THE COSTLY REMOVAL OF STRUCTURES, TIME DELAYS OR THE ISSUANCE OF A STOP

Notice: All Landowners, Developers and Contractors

the contractor from the City of Roanoke.

construction site at all times of ongoing construction.

construction entrance shall be as shown on the plans.

prior to the commencement of any construction.

safety of the public are in place.

plans prior to final acceptance by the City.

ANY SOIL STOCKPILED ON-SITE SHALL BE STABILIZED OR PROTECTED WITH SILT FENCE OR OTHER PROTECTIVE MEASURES.

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.

THE GENERAL CONTRACTOR SHALL CONTACT "MISS UTILITY" PRIOR TO BEGINNING CONSTRUCTION.

#### GENERAL SANITARY SEWER NOTES

WITHIN 18" VERTICALLY, CONCRETE PIERS SHALL BE PROVIDED.

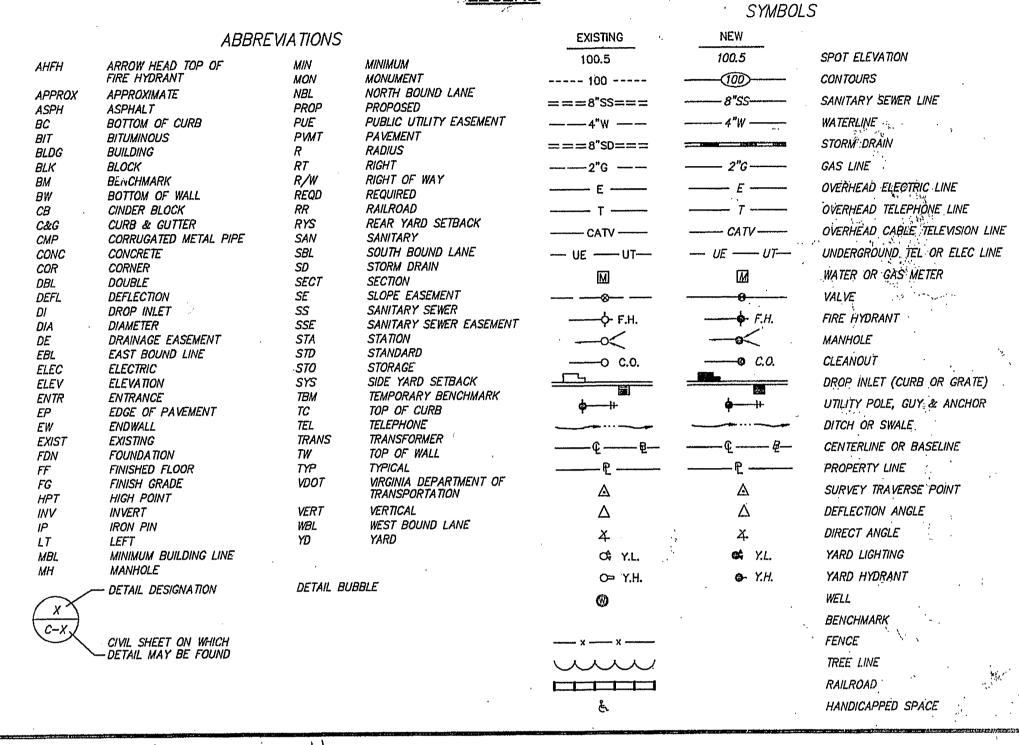
- ALL NEW SANITARY SEWER PIPE, CLEANOUTS, FITTINGS, ETC. TO BE INSTALLED BY OPEN CUT METHODS. SHALL BE SDR-35 UNPLASTICIZED POLYVINYL CHLORIDE.
- 2) ALL NEW SANITARY SEWER TO BE INSTALLED BY JACK AND BORE METHOD SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) IN CONFORMANCE WITH THE WESTERN VA. WATER AUTHORITY STANDARDS.
- THE SLOPE OF THE ALL NEW SANITARY SEWER PIPE SHALL BE UNIFORM BETWEEN MANHOLES AND/OR CLEAN-OUTS. SEE SANITARY SEWER PLAN AND PROFILE SHEET(S) FOR SIZE AND SLOPE OF ALL NEW SANITARY SEWER PIPES.
- 4) WHERE SANITARY SEWER AND WATER LINES ARE WITHIN 10' HORIZONTALLY AND/OR 18" VERTICALLY THE SANITARY SEWER PIPE SHALL BE AWWA WATER-CLASS PIPE. SEE SANITARY SEWER PLAN AND PROFILE SHEET FOR PIPE LENGTHS AND MATERIAL TYPE. IN ALL LOCATIONS WHERE A PROPOSED SANITARY SEWER LINE CROSSES A STORM DRAIN LINE
- BACKFILL OF SANITARY SEWER TRENCHES UNDER EXISTING OR PROPOSED ASPHALT OR CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS. BACKFILL OF SANITARY SEWER IN ALL OTHER AREAS SHALL BE TO 95% OF STANDARD PROCTOR.

# SHEET INDEX TITLE

C-1TITLE SHEET SANITARY SEWER PLAN & PROFILE, STA. 0+00 TO STA. 4+30.0 SANITARY SEWER PLAN & PROFILE, STA. 4+30.0 TO STA. 8+10± C-3STANDARD W.V.W.A. UTILITY DETAILS and CIVIL SITE DETAILS C-4

EROSION & SEDIMENT CONTROL NOTES AND DETAILS

LEGEND



contractors As-Builts turned in: 1/30/14

SHEET #

project substantial completion: 08/14/2013 (as-built date)

APPROVED FOR CONSTRUCTION

WESTERN VIRGINIA WATER AUTHORITY

NAME OF DEVELOPMENT 1700 JEFFERSON STREET SEWER PROJECT

LOCATION

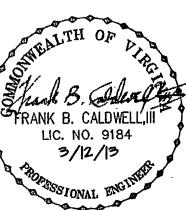
1700 SOUTH JEFFERSON STREET CITY OF ROANOKE, VA.

OWNER

WESTERN VIRGINIA WATER AUTHORITY 601 SOUTH JEFFERSON STREET ROANOKE, VA. 24011

DEVELOPER

SAME AS OWNER



CALDWELL WHITE ASSOCIATES

ENGINEERS / SURVEYORS / PLANNERS 4203 MELROSE AVENUE, N.W. P.O. BOX 6260 ROANOKE, VIRGINIA 24017 (540) 366-3400 FAX: (540) 366-8702

## GENERAL SEWER NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING ALL MANHOLES FOLLOWING COMPLETION OF WORK. MANHOLE TOPS SHALL BE ADJUSTED TO GRADE AS NECESSARY.

ALL EXISTING UTILITIES MAY NOT BE SHOWN, OR MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH STATE WATER WORKS REGULATIONS, SECTION 12.05.03,

ALL SANITARY SEWER CONSTRUCTION/ABANDONMENT SHALL ADHERE TO THE WESTERN VIRGINIA WATER AUTHORITY DESIGN AND CONSTRUCTION STANDARDS.

#### ENGINEER'S NOTES

CALDWELL WHITE ASSOCIATES ASSUMES NO RESPONSIBILITY FOR ADEQUACY OF PLANS OR FOR INFORMATION ON PLANS UNTIL SUCH PLANS HAVE BEEN APPROVED BY THE REQUIRED PUBLIC AGENCIES.

ANY WORK COMMENCED ON A PROJECT PRIOR TO PLAN APPROVAL IS AT THE SOLE RISK OF THE CALDWELL WHITE ASSOCIATES DOES NOT GUARANTEE THE COMPLETION OR QUALITY OF PERFORMANCE OF THE CONTRACTS BY CONTRACTORS OR OTHER THIRD PARTIES.

DATED: OCTOBER 30, 2009 BOUNDARY DATA SHOWN IS FROM FIELD SURVEY BY CALDWELL WHITE ASSOCIATES DATED: OCTOBER 30. 2009

SOURCE OF TOPOGRAPHIC MAPPING IS FROM FIELD SURVEY BY CALDWELL WHITE ASSOCIATES

THESE PLANS ARE BASED ON BENCHMARKS ESTABLISHED ON THE NGVD 29 DATUM. THERE ARE CURRENTLY OTHER CIVIL CONSTRUCTION PLANS IN THIS VICINITY THAT UTILIZE THE NAVD 88 DATUM. THE FOLLOWING CORRECTION SHALL BE USED FOR ANY COORDINATION EFFORTS BETWEEN THESE PLANS AND THOSE.

NGVD 29 Elev - 0.63' = NAVD 88 Elev

REVISIONS Designed By: \_\_JWK\_\_\_ Remarks Date Drawn By: \_\_\_JWK\_\_\_\_ 2-22-10 CITY OF ROANOKE COMMENTS 2 3-4-11 CITY OF ROANOKE COMMENTS Date: JAN. 26, 2010 JVJ 3 3-12-13 W.V.W.A. COMMENTS W.O. # <u>09-0070</u> N.B. # CARILION-11