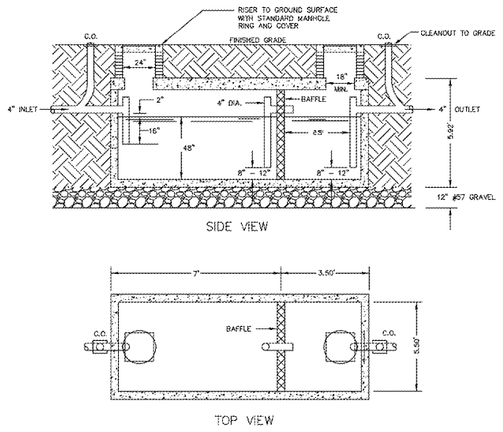
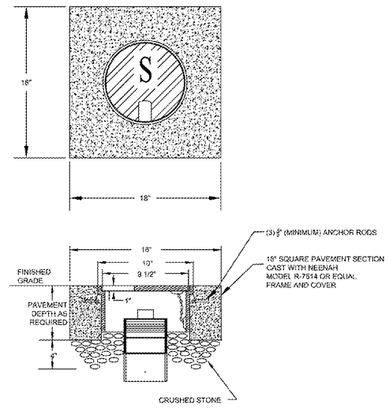


TYPICAL UNDERGROUND GREASE TRAP
1,500 GALLON

SEWER PANEL 7B

BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 02/04/09



NOTES:
1. ASSEMBLY TO BE USED IN ALL PAVED OR CONCRETE AREAS.
2. CASTING SHALL BE NEENAH MODEL R-7514 OR EQUAL.
3. EXPANSION JOINT MATERIAL TO BE PLACED AT JOINTS WHEN LOCATED IN CONCRETE SURFACES.

PAVEMENT CLEANOUT DETAIL
NOT TO SCALE

SEWER PANEL 1C

BERKELEY COUNTY WATER AND SANITATION
REVISED 05/03/10

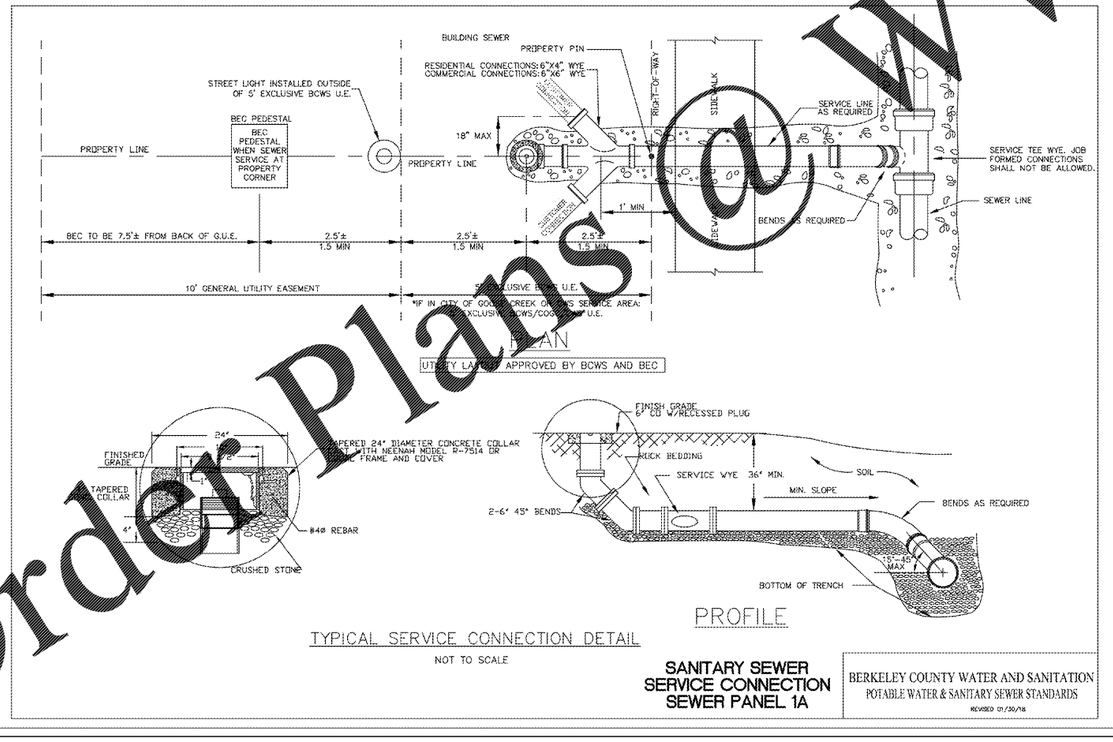
SEWER NOTES:

1. SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS," SC DHEC AND BCWS REGULATIONS.
2. ALL SANITARY SEWER SERVICES SHALL BE LAID ON A MINIMUM SLOPE OF 0.5% AND SHALL BE 6" PVC UNLESS INCIDENCES NOTED IN NOTE NO. 10 OCCUR, OR OTHERWISE SPECIFIED.
3. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH BCWS AT LEAST 72 HOURS PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND IN THE FIELD OR ON THE DRAWINGS PRIOR TO BEGINNING OR CONTINUING WORK. ANY DEVIATIONS FROM THE CONSTRUCTION PLANS SHALL NEED TO BE APPROVED IN WRITING BY BCWS.
5. CONNECTION TO EXISTING SEWER SYSTEM SHALL BE MADE IN THE PRESENCE OF BCWS INSPECTOR WITH AT LEAST 72 HOURS ADVANCED NOTICE.
6. CONTRACTOR SHALL PLACE 6" SERVICES AND STUB UP TO EXISTING GRADE. CONCRETE COLLARS SHALL BE PLACED AROUND 6" PLUGGED CLEAN OUT.
7. WATERTIGHT RINGS AND COVERS SHALL BE INSTALLED ON MANHOLES IN SIDEWALK AREAS AFFECTED BY STREET RUNOFF OR BELOW THE 50 YEAR FLOOD ELEVATION. MANHOLE COVER SHALL BE INSTALLED COMPLETELY WITHIN OR COMPLETELY OUT OF PAVED AREAS (INCLUDING SIDEWALKS).
8. MANHOLES RECEIVING FORCE MAIN DISCHARGE SHALL BE COATED WITH RAVEN 405 LINER.
9. ALL DUCTILE IRON PIPES, JOINTS AND FITTINGS SHALL BE LINED WITH PROTECTO 401 CERAMIC EPOXY COATING.
10. THICKNESS CLASS 52 DIP OR SDR-26 PVC IN STEEL OR HDPE CASING SHALL BE USED WHEN:
    - CROSSING BENEATH STORM DRAINAGE PIPE WITH LESS THAN 2' OF CLEARANCE)
    - CROSSING WATER MAIN WITHIN 18".
11. SELECTION OF PIPE MATERIALS SHALL COMPLY WITH THE FOLLOWING:
    - LESS THAN THREE (<3') OF COVER: CLASS 52 DIP;
    - GREATER THAN 3 FEET BUT LESS THAN 15 FEET (3'≤ BUT ≤15') IN DEPTH: SDR-26 PVC AND IN ACCORDANCE WITH CROSSING REQUIREMENTS LISTED ABOVE;
    - GREATER THAN 15 FEET BUT LESS THAN 24 FEET (15'≤ BUT ≤24') IN DEPTH: CLASS 52 DIP OR DR-18 PVC;
    - GREATER THAN 24 FEET (>24') IN DEPTH: CLASS 52 DIP.
12. SEWER SERVICE CONNECTIONS LOCATED AT DEPTHS GREATER THAN 15' SHALL BE MADE WITH DUCTILE IRON FITTINGS LINED WITH PROTECTO 401 COATING OR SCH 80 PVC OR DCI C900 FITTINGS.
13. CLEAN OUTS SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY OR GENERAL UTILITY EASEMENT (GUE) WITH A MINIMUM OF 1 FOOT SEPARATION FROM SIDEWALK. INSTALL CLEAN OUTS NO MORE THAN 10ft OFF OF THE COMMON PROPERTY CORNER UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS.
14. CONTRACTOR SHALL KEEP A RED-LINED SET OF CONSTRUCTION DRAWINGS ON SITE AT ALL TIMES.
15. UPON COMPLETION OF CONSTRUCTION OF THE SEWER SYSTEM, THE FOLLOWING APPROVAL PROCEDURES MUST BE FOLLOWED:
    A. THE CONTRACTOR SHALL REQUEST TESTS AND INSPECTIONS WITH BCWS AT LEAST 72 HOURS IN ADVANCE.
    B. THE CONTRACTOR SHALL CONDUCT A PRELIMINARY INSPECTION TO LOCATE ANY DEFECTS AND DETERMINE WHEN THE SEWER SYSTEM IS READY FOR TESTING AND FINAL INSPECTION. PRIOR TO INSPECTION, THE SEWER SYSTEM SHALL BE FLUSHED AND CLEANED OF DEBRIS.
    C. THE ENGINEER SHALL SCHEDULE LOW PRESSURE AIR TESTING AND DEFLECTION TEST WITH BCWS. DEFLECTION TEST SHALL BE CONDUCTED PRIOR TO PRESSURE AIR TEST.
    D. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER'S ENGINEER AN AS-BUILT SURVEY, INCLUDING THE SERVICE LATERAL LENGTH, FROM THE LOCATIONS WHICH SHALL HAVE BEEN STAKED IN THE FIELD.
    E. A SET OF PRELIMINARY RECORD DRAWINGS SHALL BE PROVIDED TO BCWS INSPECTOR FOR CCTV INSPECTION VIDEO REVIEW.
    F. CCTV INSPECTION VIDEOS SHALL BE SUBMITTED FOR BCWS REVIEW. ANY NECESSARY REPAIRS ARE TO BE COMPLETED PRIOR TO SCHEDULING A FINAL INSPECTION.
    G. THE ENGINEER'S ENGINEER SHALL SUBMIT THE TEST RESULTS, RECORD DRAWINGS, CONTINUITY TEST CERTIFICATION LETTER AND ALL OTHER REQUIREMENTS TO BCWS FOR REVIEW AND APPROVAL.
    H. THE ENGINEER SHALL SCHEDULE THE FINAL INSPECTION WITH BCWS AT LEAST 72 HOURS IN ADVANCE.
16. LIMESTONE IS NOT AN APPROVED EMBEDMENT MATERIAL. USE #57 GRANITE, AIR COOLED BLAST FURNACE SLAG OR APPROVED MATERIALS LISTED IN BCWS SPECIFICATIONS.

MJ SLEEVES OR APPROVED ADAPTERS SHALL BE USED TO TRANSITION BETWEEN PVC AND DIP. FERNCO OR SIMILAR COUPLINGS ARE NOT ALLOWED.

SEWER PANEL 8

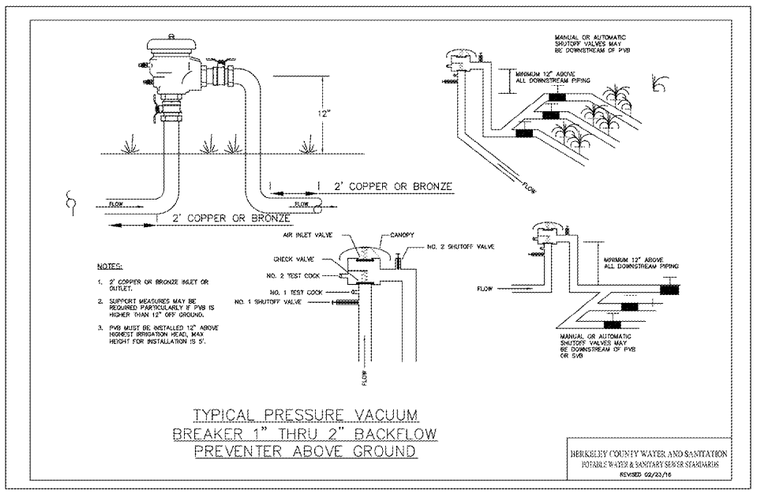
BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
6/15/15



TYPICAL SERVICE CONNECTION DETAIL
NOT TO SCALE

SANITARY SEWER
SERVICE CONNECTION
SEWER PANEL 1A

BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 07/30/16



NOTES:
1. 2" COPPER OR BRONZE INLET OR OUTLET.
2. SUPPORT MEASURES MAY BE REQUIRED PARTICULARLY IF PVB IS HIGHER THAN 12" OFF GROUND.
3. PVB MUST BE INSTALLED 12" ABOVE HIGHEST IRRIGATION HEAD. MAX HEIGHT FOR INSTALLATION IS 5'.

TYPICAL PRESSURE VACUUM
BREAKER 1" THRU 2" BACKFLOW
PREVENTER ABOVE GROUND

BERKELEY COUNTY WATER AND SANITATION
POTABLE WATER & SANITARY SEWER STANDARDS
REVISED 02/23/16

UTILITY DETAILS
2 OF 2

◇ PRE BID SET ISSUE DATE △ POST BID SET ISSUE DATE

REVISIONS	BY
◇ 1-22-19 ADDRESS COUNTY REVIEW COMMENTS	DAC

FREELAND and KAUFFMAN, INC.
Engineers • Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
864-233-5497

SOUTH CAROLINA — FREELAND & KAUFFMAN, INC. — No. C00995 — CERTIFICATE OF AUTHORIZATION

Parker's kitchen
17 W. MCDONOUGH STREET
SAVANNAH, GA 31401

CANE BAY (PH1006)

DRAWN	CRD
CHECKED	BTS
DATE	1/22/2019
SCALE	AS NOTED
DRAWING	8

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