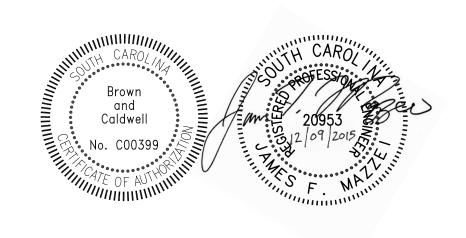
## ReWa RENEWABLE WATER RESOURCES RICHLAND CREEK TRUNK SEWER IMPROVEMENT

Project No. 144953

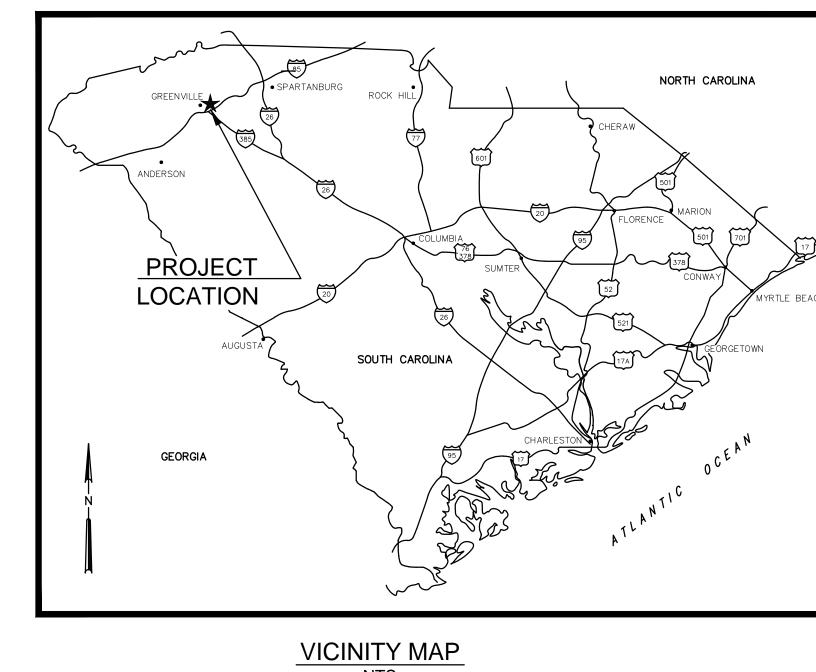


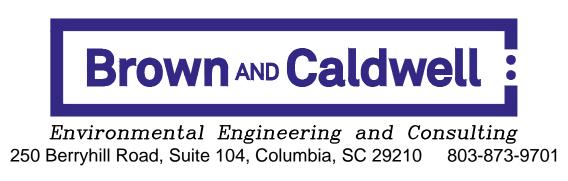


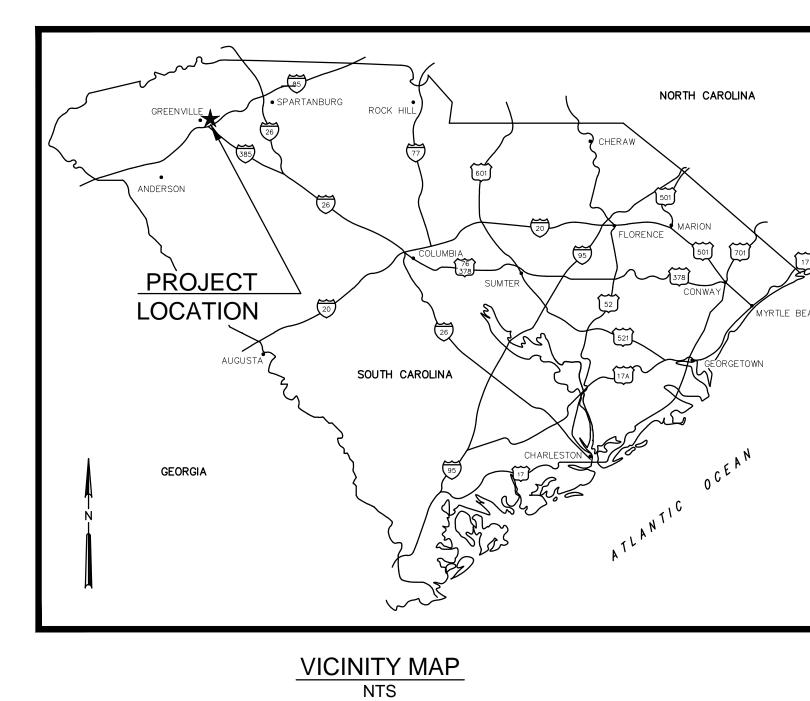
**DECEMBER 2015** 

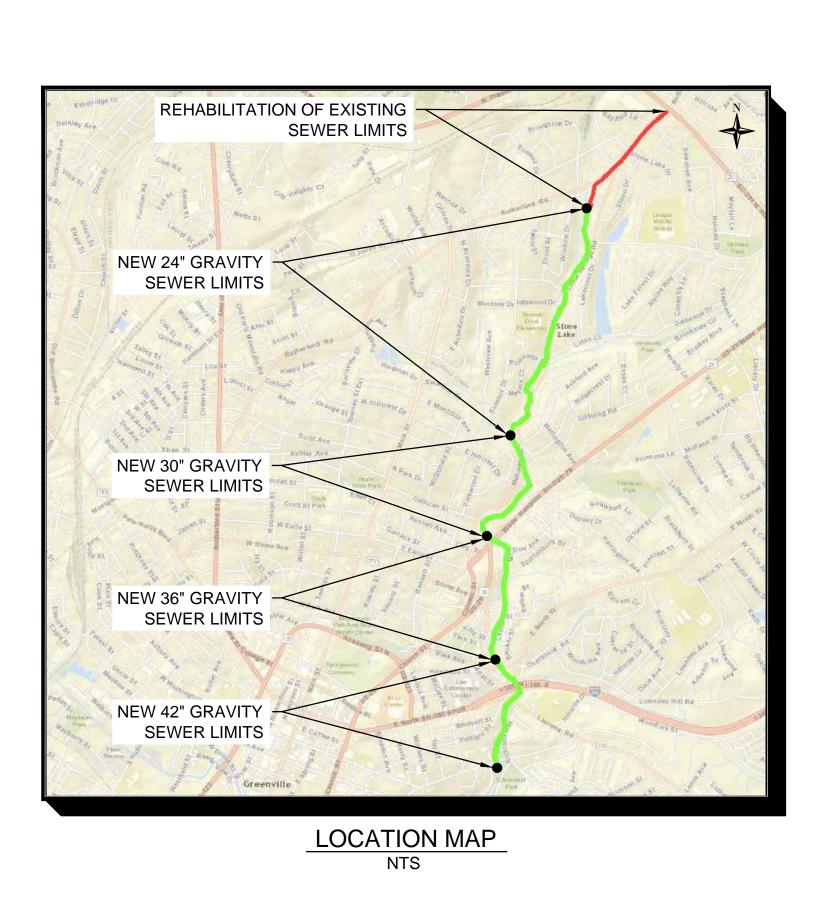
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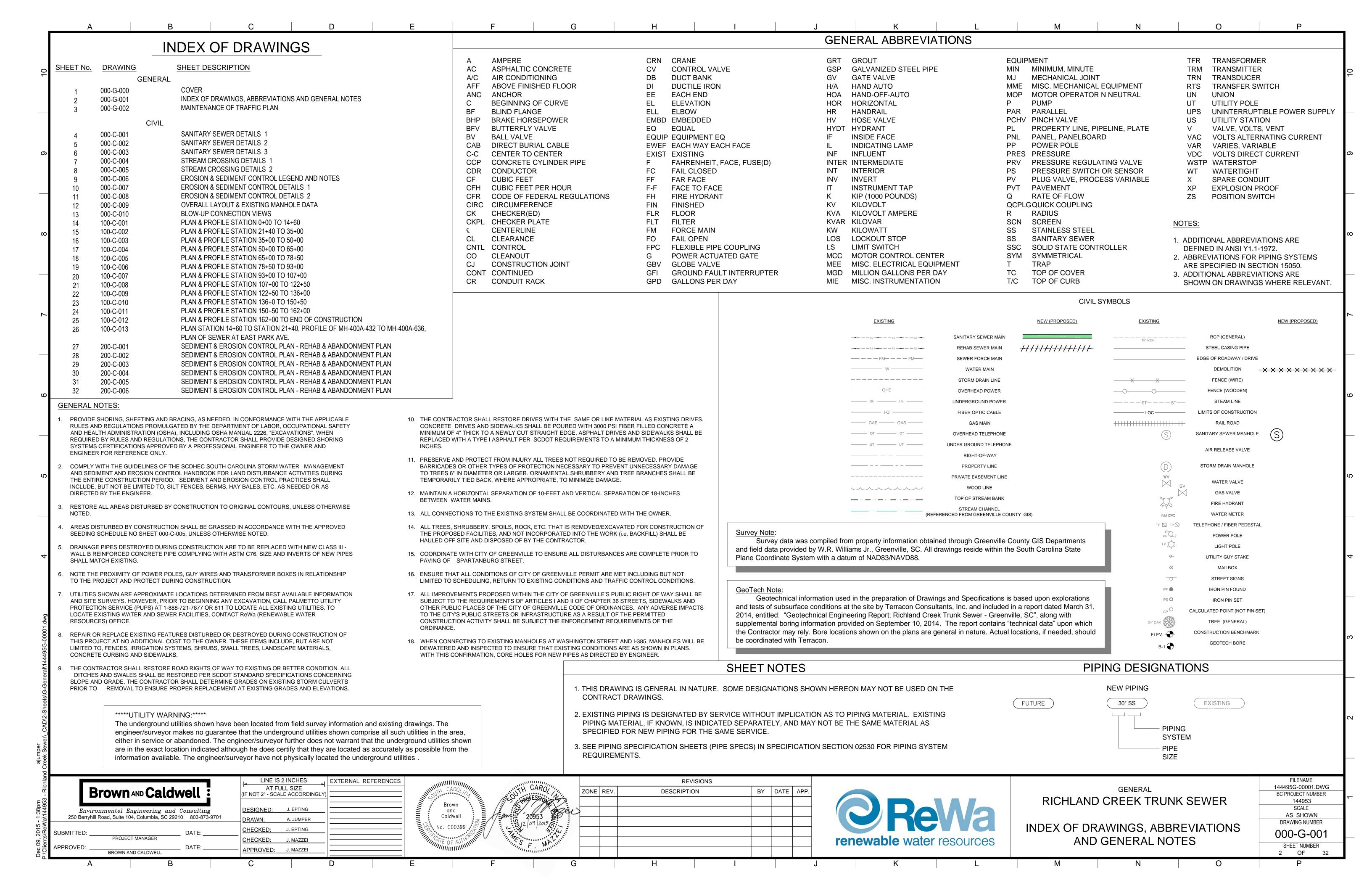


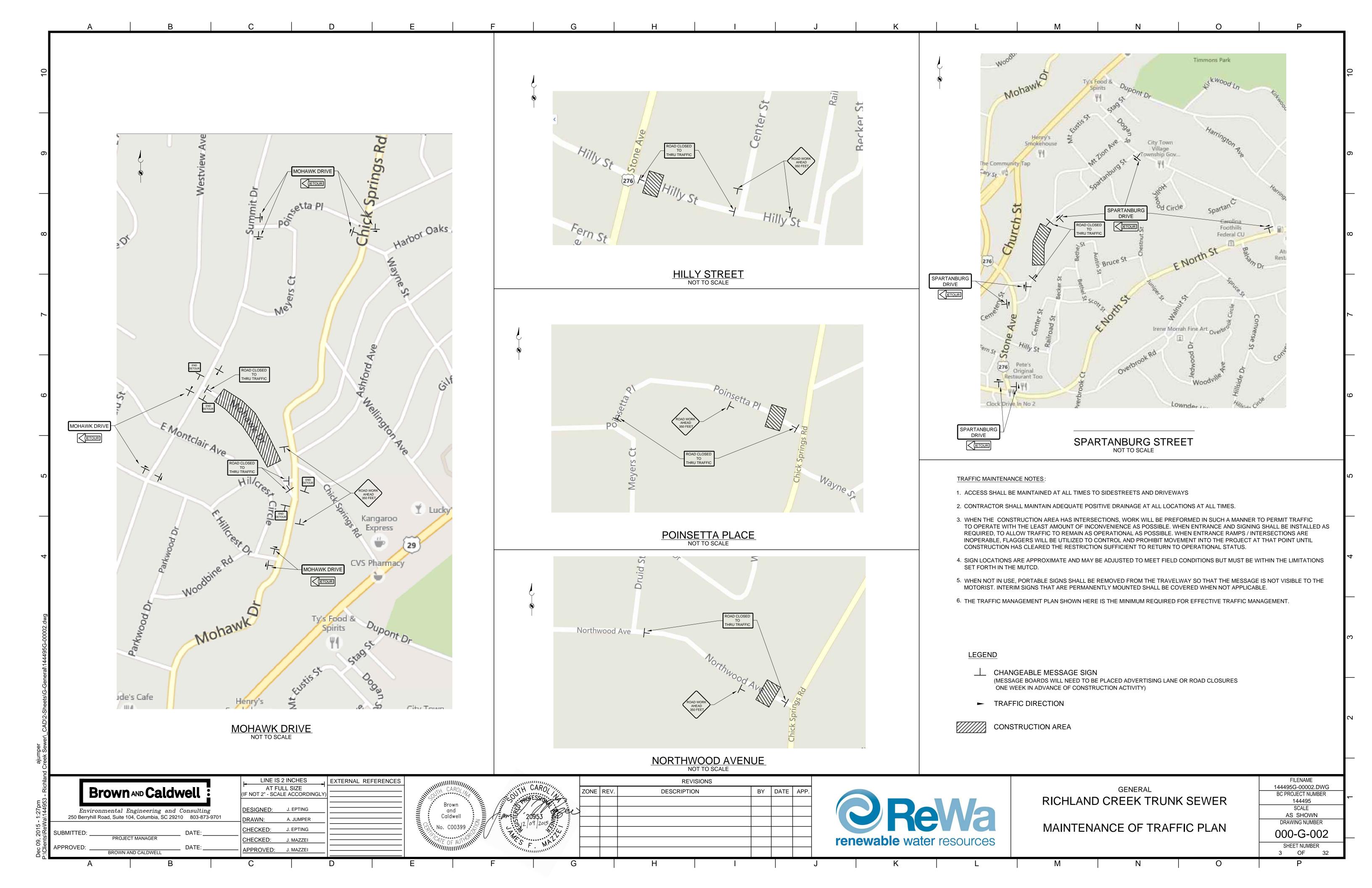


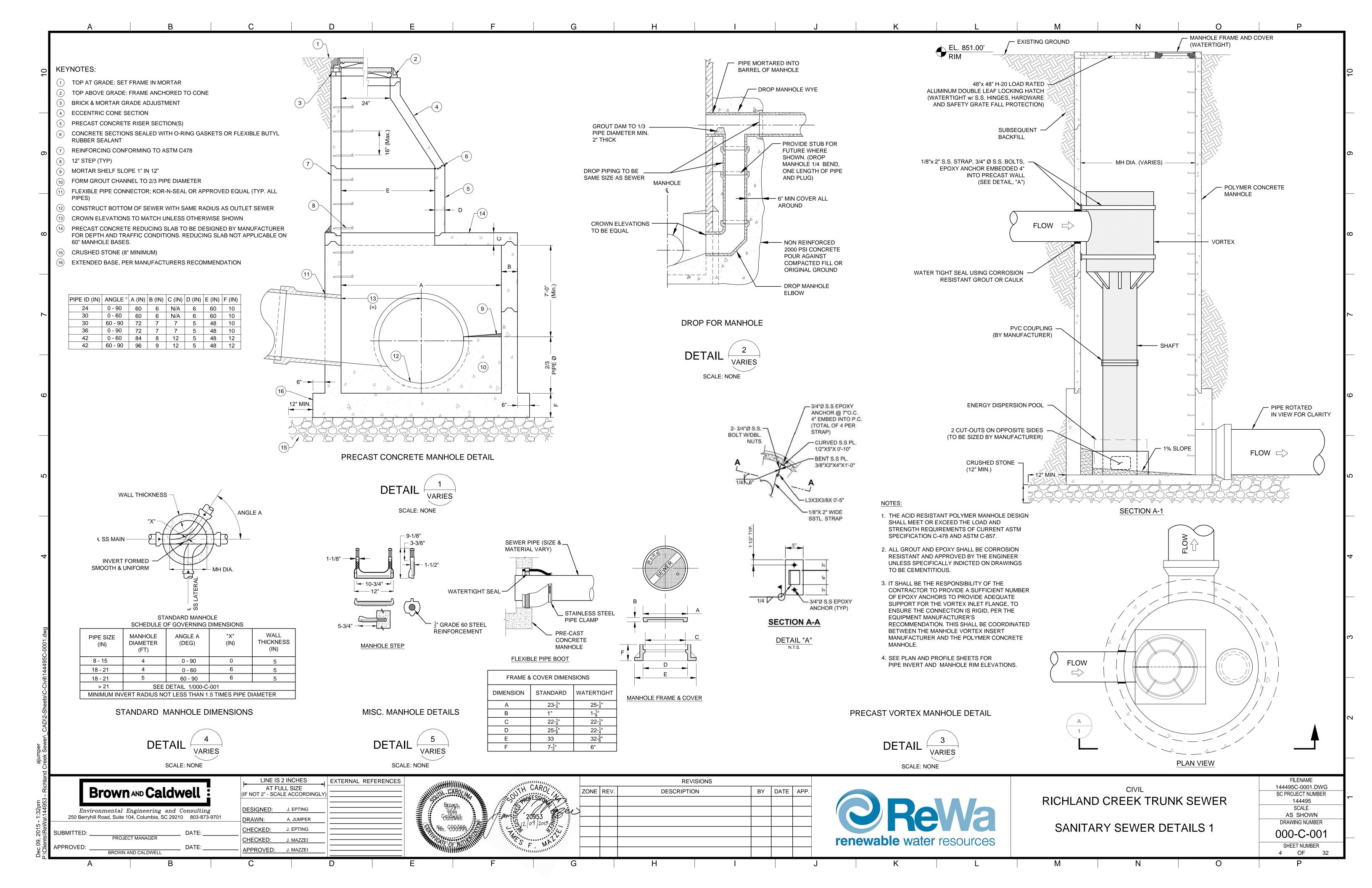


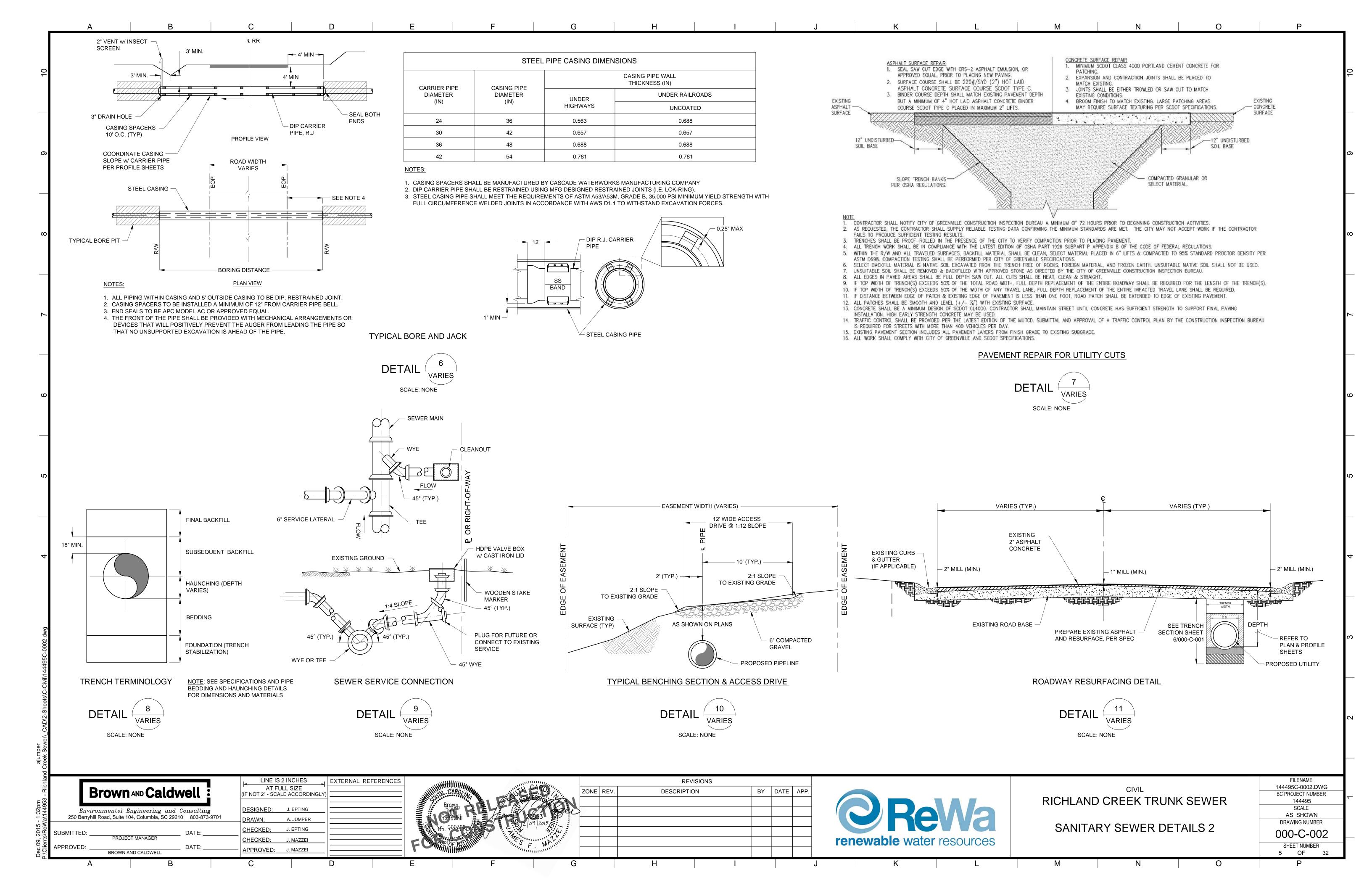


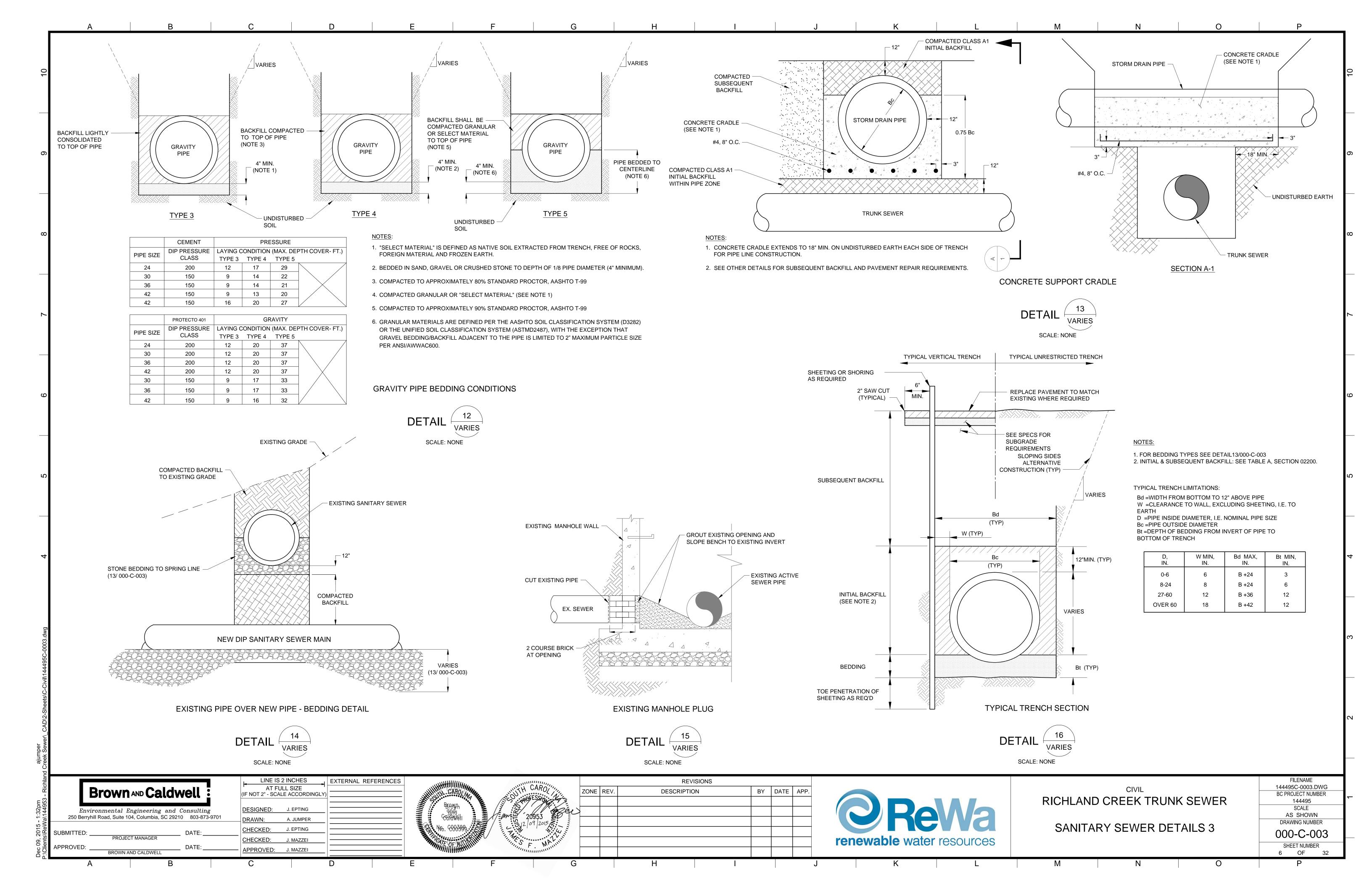


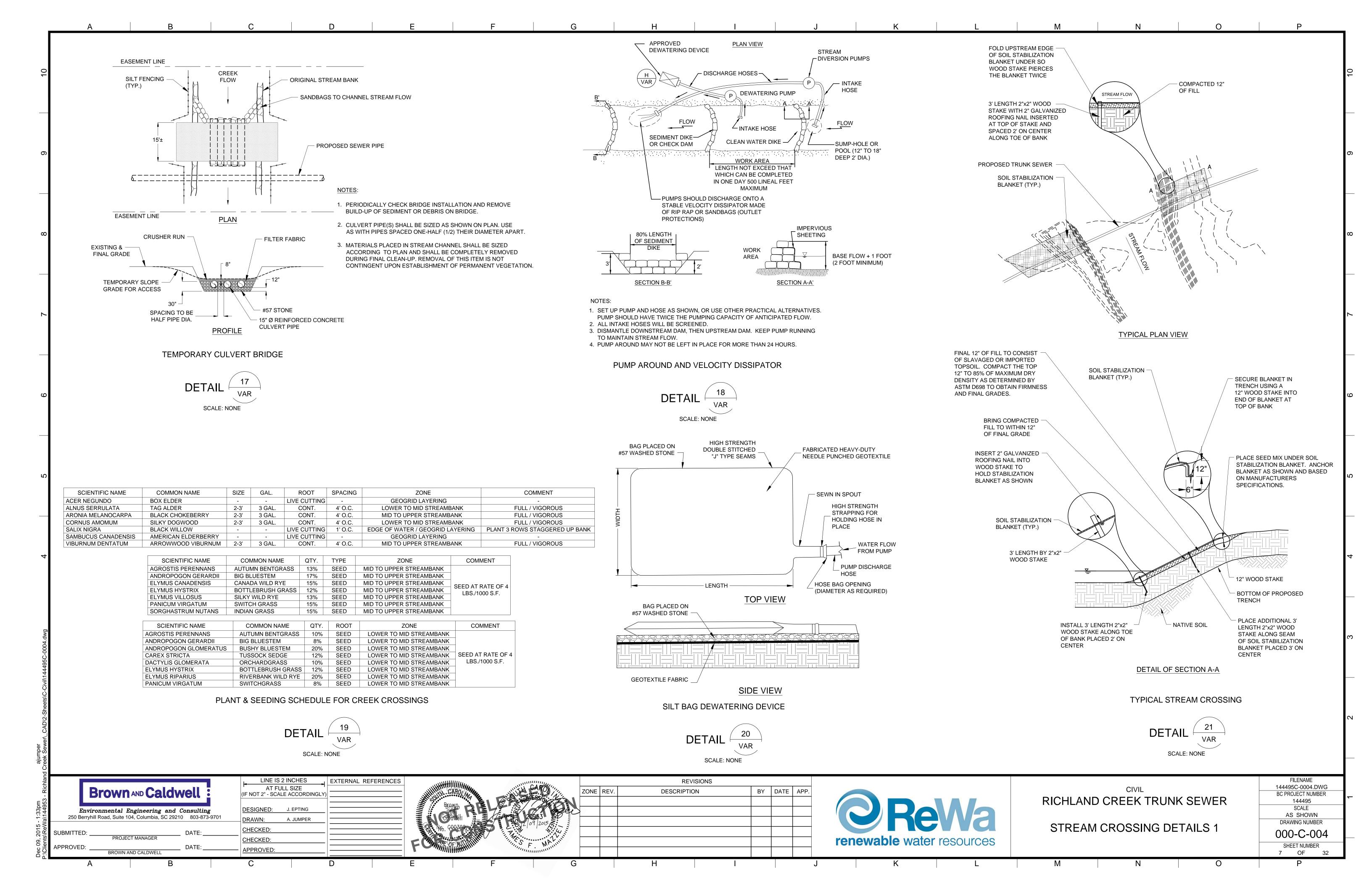


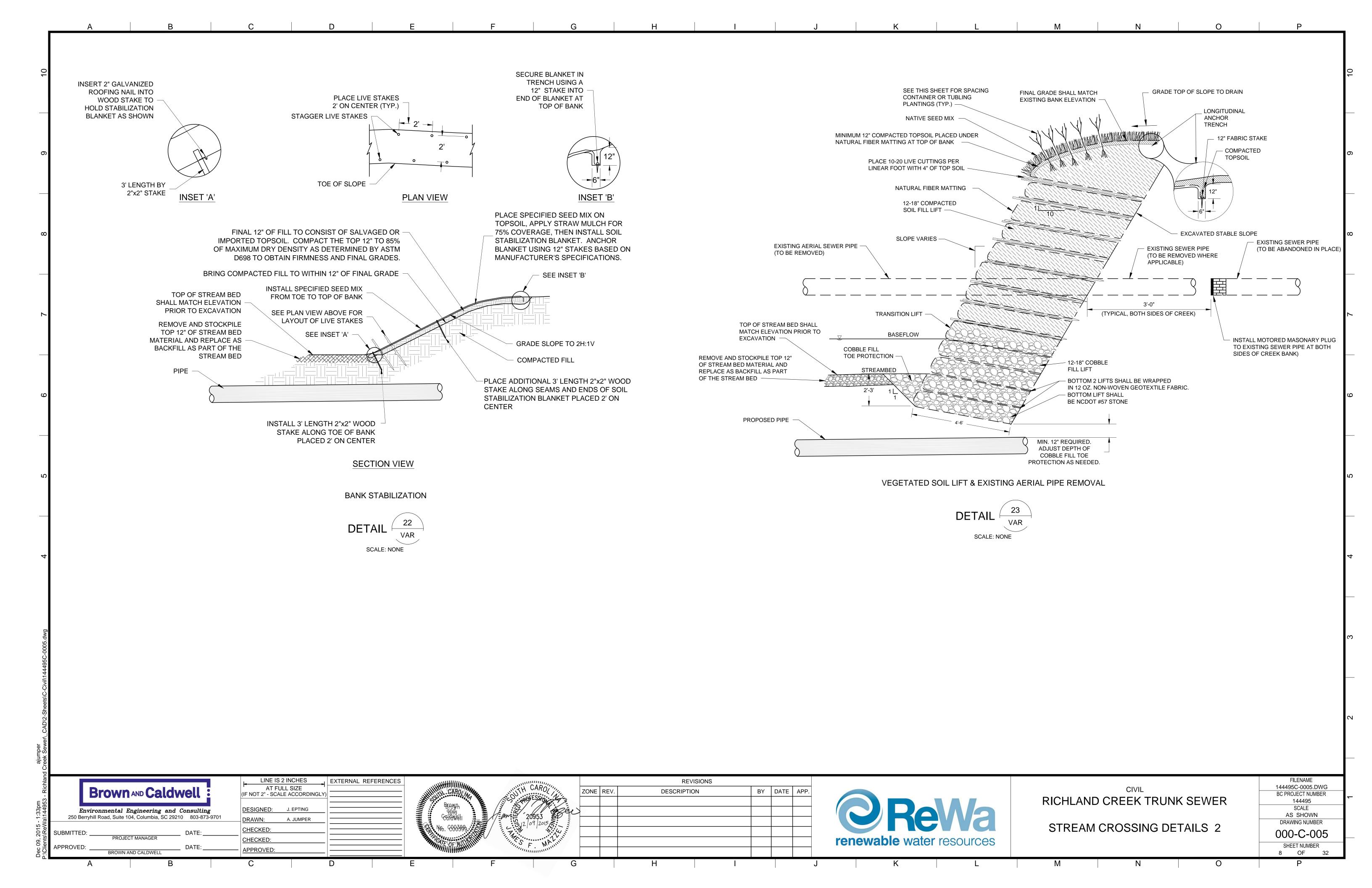












CHECKED:

**APPROVED** 

BROWN AND CALDWELL

2. ONE WEEK PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE SWPP PREPARER TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY OF GREENVILLE CONSTRUCTION INSPECTION BUREAU. THE PURPOSE OF THIS MEETING WILL BE TO REVIEW THE

3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, EXCAVATION, OR FILLING, EXCEPT THOSE

4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE "STORM WATER MANAGEMENT BMP HANDBOOK," PUBLISHED BY THE SOUTH CAROLINA DHEC, PUBLISHED JULY

5. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER IF DEEMED NECESSARY BY THE ENGINEER OR CITY OF GREENVILLE INSPECTOR.

6. GRASSING FOR DISTURBED AREA STABILIZATION WILL BE PERFORMED AS NOTED IN THE "STORM WATER MANAGEMENT BMP HANDBOOK," PUBLISHED BY THE SOUTH CAROLINA DHEC. GRASSING FOR TEMPORARY AND PERMANENT SEEDING SHALL BE AS SPECIFIED ACCORDING TO PAGES 8-10 AND 25-27 RESPECTIVELY OF THE ABOVE REFERENCED MANUAL.

7. ALL TEMPORARY AND PERMANENT DIVERSIONS SHALL BE SEEDED, FERTILIZED AND LINED WITH FIBER FABRIC IMMEDIATELY UPON COMPLETION OF THE CHANNEL. WITH THE EXCEPTION OF TEMPORARY AND PERMANENT DIVERSIONS. ALL DISTURBED AREAS EXPOSED FOR MORE THAN

8. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AT THE INTERVAL SPECIFIED IN THE SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND AS OUTLINED IN THE SWPP. ANY NEEDED REPAIRS WILL BE MADE

9. SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS AND BLOCK AND GRAVEL INLET PROTECTION DEVICES WHEN STORAGE CAPACITY HAS REACHED 50%. GRAVEL SHALL BE REPLACED WHEN THE DEVICE NO LONGER

10. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE ONCE IT HAS ACCUMULATED TO A DEPTH OF 0.5 FT AT THE FENCE. SILT FENCE SHALL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.

11. TEMPORARY AND FINAL SEEDING SHALL BE APPLIED, RE-APPLIED AS NECESSARY, CONTROL DEVISED, ANY RESULTING EXPOSED AREAS SHALL BE

12. AFTER EARTH DISTURBING ACTIVITIES HAVE CEASED AND ALL EXPOSED SOIL HAS BEEN STABILIZED WITH A VEGETATIVE COVER, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED. FOLLOWING REMOVAL OF THE TEMPORARY EROSION CONTROL DEVICES. ANY RESULTING EXPOSED AREAS SHALL BE STABILIZED.

13. SEE SECTION 02270 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL

SEEDING SCHEDULE FOR AREAS IN THE UPPER STATE OF SOUTH CAROLINA

## FROM AUGUST 15 - MARCH 14 50 LBS. KENTUCKY 31 FESCUE

30 LBS. COMMON BERMUDA (HULLED) 50 LBS. SERICEA LESPEDEZA (SCARIFIED) 10 LBS. WEEPING LOVEGRASS 80 LBS. SERICEA LESPEDEZA (UNHULLED)

TEMPORARY VEGETATION SCHEDULE (PER ACRE)

APRIL 1 - AUGUST 15 APRIL 1 - AUGUST 15 AUGUST 16 - MARCH 31

IF HYDROSEEDED USE 13 LBS. PER 1000 SQ. FT. OF LOW SALT FORMULATION OF 19-19-19 INSTEAD 10-10-10 TO

LIQUID LIME IS NOT A SUBSTITUTE FOR AGRICULTURAL LIME. A FEW GALLONS OF LIQUID LIME RAISES SOIL PH ONE POINT, BUT THIS EFFECT IS VERY TEMPORARY - USUALLY 45-50 WEEKS. LIQUID LIME MAY BE USED WITH AGRICULTURAL LIME TO GIVE QUICK RESULTS TOGETHER WITH THE LONG TERM BENEFITS OF AGRICULTURAL

GRAIN STRAW MULCH IS THE MOST IMPORTANT INGREDIENT IN THESE SEEDING RECOMMENDATIONS AND IS 90% OF THE REASON FOR SUCCESS. PAPER AND OTHER SYNTHETIC MULCHES MAY BE SUBSTITUTED FOR GRAIN STRAW WHEN A HYDROSEEDER IS USED, BUT NOT ON STEEP AREAS, AREAS WITH CONCENTRATED WATER RUNOFF, OR ON DEEP SANDY SOILS. (ALL SLOPES STEEPER THAN 2:1 MUST BE HYDROSEEDED AND MULCHED WITH GRAIN STRAW USING AN APPROVED ANCHOR- ING METHOD SUCH AS GLUE TACKIFIER OR TRACTOR AND

AROUND OFFICE BUILDINGS AND WITHIN SUBDIVISIONS USE 4 TO 6 OZ. CENTIPEDE SEED FOR 1000 SQ. FT.

GROWTH OF RYE MUST BE MOWED IN EARLY SPRING TO ENCOURAGE GROWTH OF THE PERMANENT GRASSES

O

LEGEND AND NOTES

renewable water resources

FILENAME

144495C-0006.DWG

**BC PROJECT NUMBER** 

144495 SCALE

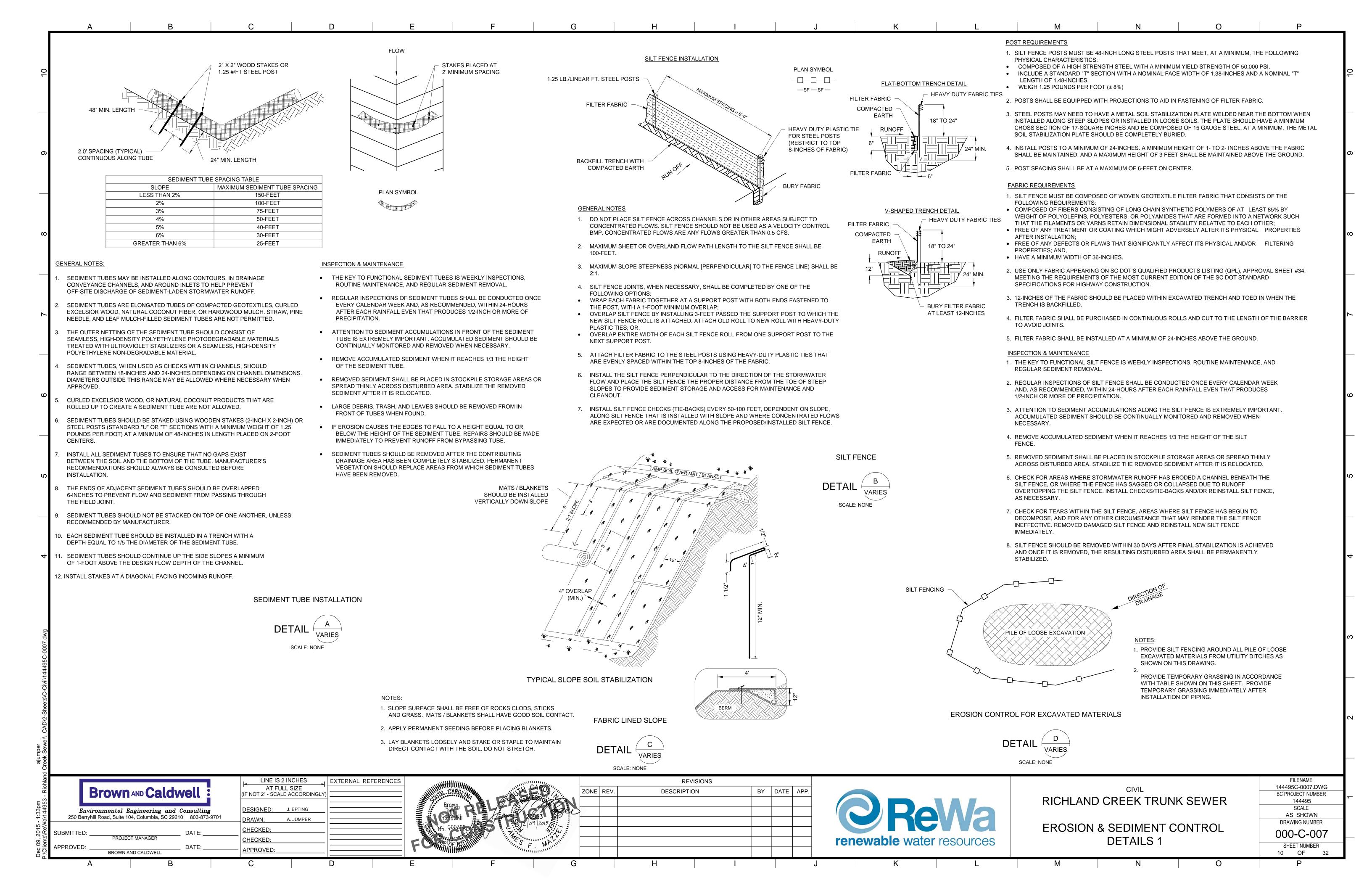
AS SHOWN

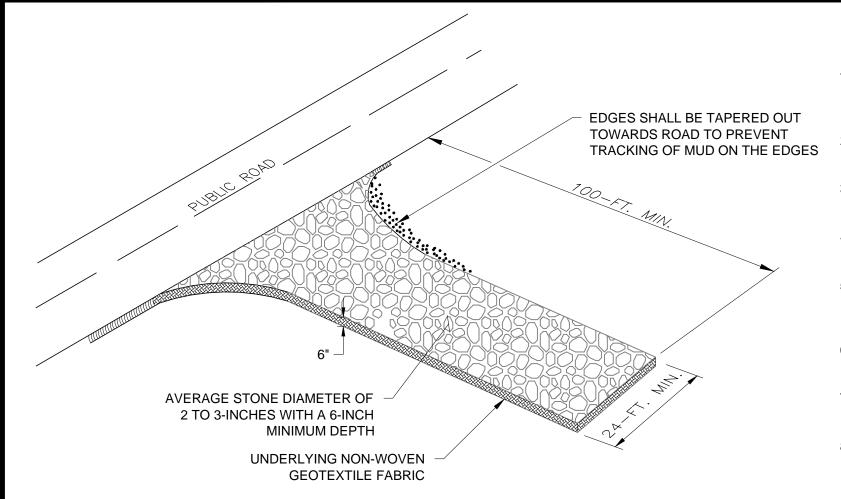
DRAWING NUMBER

000-C-006

SHEET NUMBER

9 OF 32





SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

## **GENERAL NOTES**

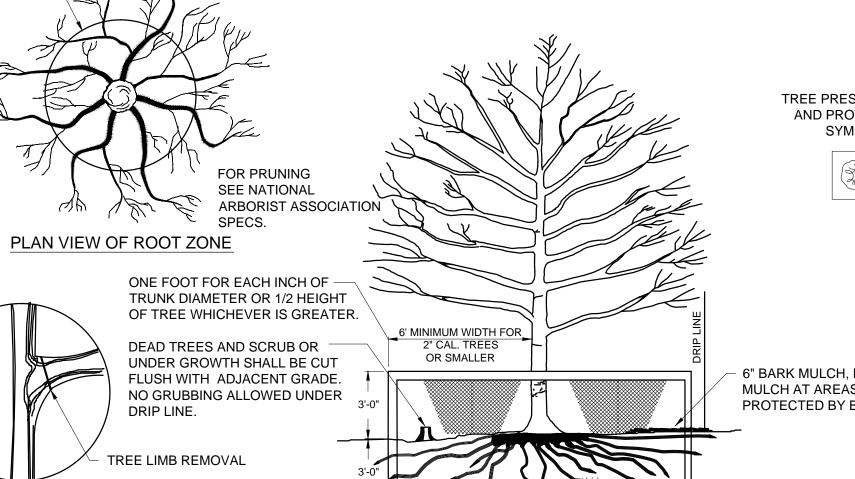
- 1. STABILIZED CONSTRUCTION ENTRANCES SHOULD BE USED AT ALL POINTS WHERE TRAFFIC WILL EGRESS/INGRESS A CONSTRUCTION SITE ONTO A PUBLIC ROAD OR ANY IMPERVIOUS SURFACES, SUCH AS PARKING LOTS.
- 2. INSTALL A NON-WOVEN GEOTEXTILE FABRIC PRIOR TO PLACING ANY
- 3. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE WHEN NEEDED TO PROVIDE POSITIVE DRAINAGE.
- 4. THE ENTRANCE SHALL CONSIST OF 2-INCH TO 3-INCH D50 STONE PLACED AT A MINIMUM DEPTH OF 6-INCHES.
- 5. MINIMUM DIMENSIONS OF THE ENTRANCE SHALL BE 15-FEET WIDE BY 20-FEET LONG, AND MAY BE MODIFIED AS NECESSARY TO ACCOMMODATE SITE CONSTRAINTS.
- 6. THE EDGES OF THE ENTRANCE SHALL BE TAPERED OUT TOWARDS THE ROAD TO PREVENT TRACKING AT THE EDGE OF THE ENTRANCE.
- 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN OR OTHER SEDIMENT TRAPPING STRUCTURE.
- 8. LIMESTONE MAY NOT BE USED FOR THE STONE PAD.

## **INSPECTION & MAINTENANCE**

- 1. THE KEY TO FUNCTIONAL CONSTRUCTION ENTRANCES IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- 2. REGULAR INSPECTIONS OF CONSTRUCTION ENTRANCES SHALL BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, WITHIN 24-HOURS AFTER EACH RAINFALL EVEN THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- 3. DURING REGULAR INSPECTIONS, CHECK FOR MUD AND SEDIMENT BUILDUP AND PAD INTEGRITY. INSPECTION FREQUENCIES MAY NEED TO BE MORE FREQUENT DURING LONG PERIODS OF WET WEATHER.
- 4. RESHAPE THE STONE PAD AS NECESSARY FOR DRAINAGE AND RUNOFF
- 5. WASH OR REPLACE STONES AS NEEDED AND AS DIRECTED BY SITE INSPECTOR. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE THE AMOUNT OF MUD BEING CARRIED OFF-SITE BY VEHICLES. FREQUENT WASHING WILL EXTEND THE USEFUL LIFE OF STONE PAD.
- 6. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO ADJACENT IMPERVIOUS SURFACES BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED WHEN THE WATER CAN BE DISCHARGED TO A SEDIMENT TRAP OR BASIN.
- 7. DURING MAINTENANCE ACTIVITIES, ANY BROKEN PAVEMENT SHOULD BE REPAIRED IMMEDIATELY.
- 8. CONSTRUCTION ENTRANCES SHOULD BE REMOVED AFTER THE SITE HAS REACHED FINAL STABILIZATION. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH CONSTRUCTION ENTRANCES HAVE BEEN REMOVED, UNLESS AREA WILL BE CONVERTED TO AN IMPERVIOUS SURFACE TO SERVE POST-CONSTRUCTION.

NOTES:

- 1. REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.
- 2. SEDIMENT & EROSION CONTROL PLANS SHALL SHOW THE LOCATIONS OF ALL TREE PROTECTION FENCES



TREE PRESERVATION AND PROTECTION SYMBOL

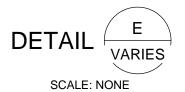
- 6" BARK MULCH, PLACE BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.

TREE PROTECTION

SCALE: NONE

CONSTRUCTION ENTRANCE

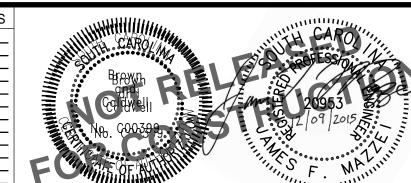
PLAN SYMBOL



2"x4" STANDARDS + 1"x4" RAILS OR

ORANGE SAFETY FENCING MAY BE

LINE IS 2 INCHES EXTERNAL REFERENCES AT FULL SIZE Brown AND Caldwell F NOT 2" - SCALE ACCORDINGLY Environmental Engineering and Consulting
250 Berryhill Road, Suite 104, Columbia, SC 29210 803-873-9701 A. JUMPER



	REVISIONS						
	ZONE	REV.	DESCRIPTION	BY	DATE	APP.	
M							
0							



SEE APPROVED TREE PRESERVATION PLAN

FOR REQUIRED RADIUS OF TREE BARRIER

RICHLAND CREEK TRUNK SEWER

**EROSION & SEDIMENT CONTROL DETAILS 2** 

144495C-0008.DWG BC PROJECT NUMBER 144495 SCALE AS SHOWN DRAWING NUMBER 000-C-008 SHEET NUMBER 11 OF 32

