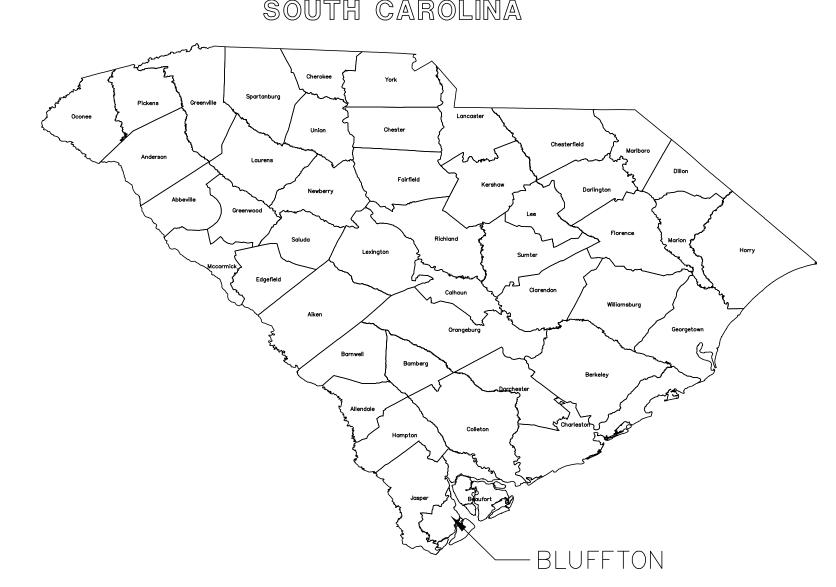
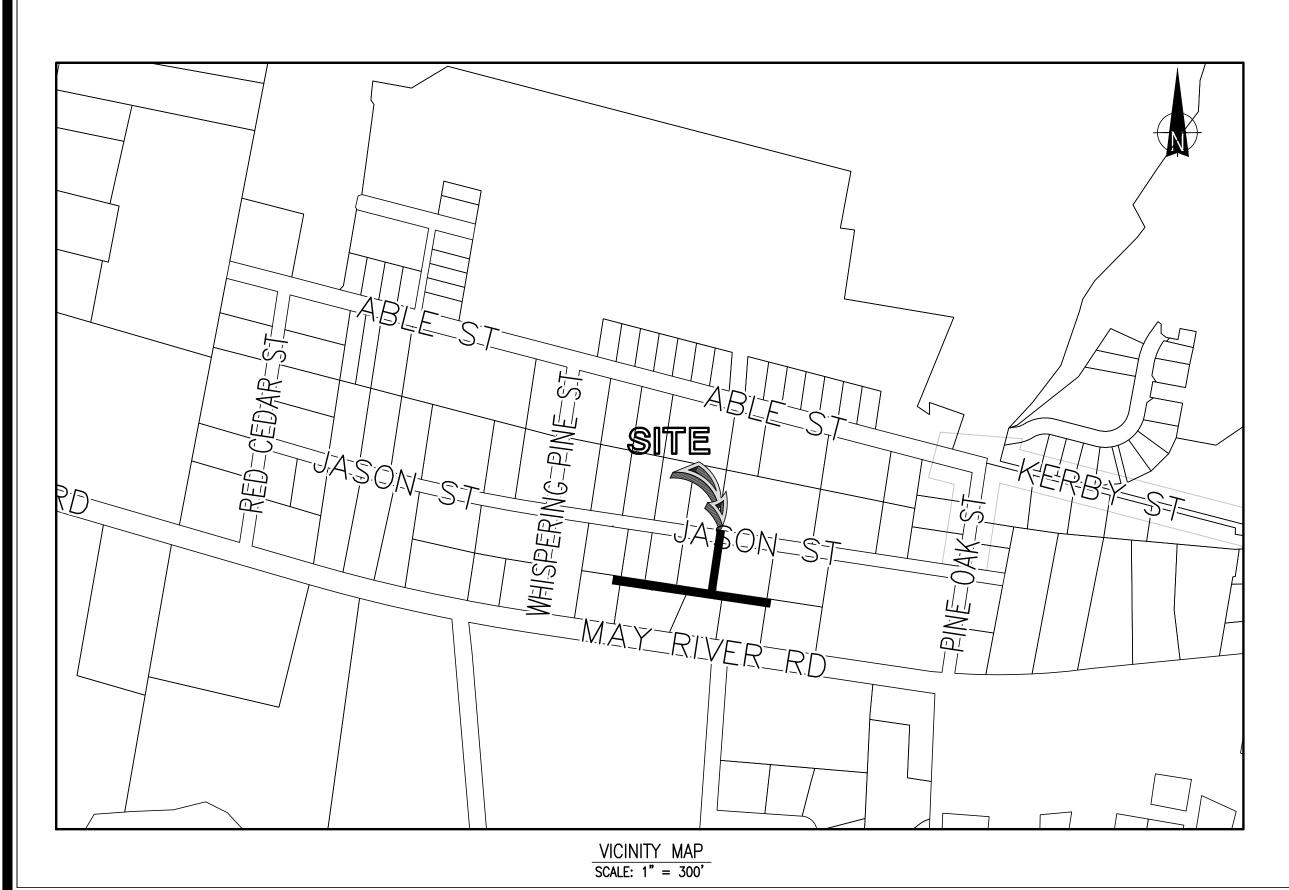
JASON STREET SEWER EXTENSION to 5 Lots on May River Road

BLUFFTON, SOUTH CAROLINA

FOR THE

BEAUFORT-JASPER WATER & SEWER AUTHORITY BJWSA PROJECT 1570













HUSSEY GAY BELL

Established 1958 —

329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626 SAVANNAH ATLANTA STATESBORO CHARLESTON • COLUMBIA NASHVILLE www.husseygaybell.com

S(CHEDULE	0F	DRAWINGS

01 - COVER

02 - CONSTRUCTION NOTES & LEGEND

03 - PLAN AND PROFILE

04 - PLAN AND PROFILE

05 - EROSION CONTROL DETAILS

06 - CONSTRUCTION DETAILS

ISSUED FOR BID

SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES ON THE DRAWINGS, OR IN THE FIELD PRIOR TO BEGINNING WORK OR DURING CONSTRUCTION, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER.

CONTRACTOR IS TO VERIFY ALL EXISTING SITE CONDITIONS AND REPORT ANY CONFLICTS TO THE

ENGINEER. A COMPLETE SET OF APPROVED DRAWINGS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UNDERGROUND UTILITIES PRIOR

TO CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE TO THEM DURING CONSTRUCTION, THERE MAY BE ADDITIONAL UTILITIES OTHER THAN THOSE DEPICTED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION/RELOCATION/PROTECTION OF UTILITIES

BY THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROLS ON THE

TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (SILT FENCES) SHALL BE PLACED AT ALL INLETS AND PIPES UNTIL SOIL STABILIZATION IS COMPLETE, TEMPORARY MEASURES SHALL BE REMOVED AFTER

STABILIZATION IS COMPLETE (INCLUDING SILT FENCE). THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF FEDERAL, STATE, COUNTY AND LOCAL MUNICIPALITIES/AUTHORITIES. ALL MATERIALS, METHODS AND DETAILS OF CONSTRUCTION SHALL CONFORM TO THE STANDARD

SPECIFICATIONS OF BEAUFORT COUNTY, S.C.D.O.T., THE TOWN OF BLUFFTON, BJWSA AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER TAKES PRECEDENCE.

.O. CONTRACTOR SHALL VERIFY THAT ALL NECESSARY CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF THE PROJECT. 1. THE CONTRACTOR IS REQUIRED TO MEET ALL APPLICABLE FEDERAL, OSHA, STATE & LOCAL

2. TRANSFER OF SITE BENCHMARKS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL ONLY BE DONE BY A S.C. LICENSED LAND SURVEYOR.

REGULATIONS CONCERNING PROJECT SAFETY AND ASSUMES FULL RESPONSIBILITY FOR SAFETY ON THE

3. GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS. .4. IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE OR OTHER UTILITY LINES, THE

CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS. 15. A SET □F APPR□∨ED □CRM DRAWINGS MUST BE □N-SITE AT ALL TIMES; □CRM PLACARD MUST BE CLEARLY DISPLAYED AT ALL TIMES.

16. ALL PROPERTY/RIGHT-OF-WAY LINES ARE APPROXIMATE, UNLESS MONUMENT OR PIN LOCATIONS ARE

7. ALL PROPERTY MONUMENTS AND RIGHT-OF-WAY MONUMENTS THAT ARE DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED SURVEYOR, CONCRETE MONUMENT MARKERS SHALL BE A MINIMUM OF 4"X4"X30". 18. ALL WORK SHALL BE PERFORMED IN A MANNER AS TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST

AMOUNT OF INCONVENIENCE POSSIBLE. AT LEAST ONE TRAVEL LANE MUST REMAIN OPEN AT ALL TIMES. ALL TRAFFIC CONTROL DEVICES, SIGNS, STRIPING AND FLAGGING SHALL BE FURNISHED BY THE CONTRACTOR.

19. ALL EXISTING DRIVES SHALL BE PROVIDED INGRESS/EGRESS ROUTES AT ALL TIMES DURING

CONSTRUCTION ACTIVITIES. 20, THE CONTRACTOR SHALL NOT LEAVE DRAINAGE DITCHES BLOCKED. EXCEPT FOR A BRIEF TIME DURING ACTUAL INSTALLATION OF INFRASTRUCTURE. PROVIDE TEMPORARY BYPASS DRAINAGE AS REQUIRED TO HAVE PROPERLY FUNCTIONING DRAINAGE AT ALL TIMES. THE DITCHES SHALL BE CLEAR OF DBSTRUCTIONS CREATED BY CONSTRUCTION AT THE END OF EACH WORKING DAY,

?1. REMO∨E AND REPLACE DRIVEWAYS AND CULVERTS AS REQUIRED FOR PIPE INSTALLATION, OR IF NECESSARY REPLACE ANY DAMAGED CULVERTS DURING PIPE INSTALLATION. ALL REPLACED ITEMS SHALL BE REPLACED TO PRE-CONSTRUCTION CONDITION AT A MINIMUM.

22.ALL MATERIALS WHICH ARE TO BE REMOVED AND ARE NOT SHOWN TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

23.IF PIPE TRENCH IS LOCATED WITHIN 10^{\prime} OF POWER POLES, CONTRACTOR MUST NOTIFY THE POWER COMPANY AND TAKE ALL PRECAUTIONS AS REQUIRED BY THE POWER COMPANY. BACKFILLING AND COMPACTION REQUIRED THE SAME DAY AS EXCAVATION OCCURS, ALL GUY WIRE RELOCATIONS OR TEMPORARY UTILITY DISCONNECTIONS AND ASSOCIATED FEES SHALL BE COORDINATED AND PROVIDED BY THE CONTRACTOR WITH THE APPROPRIATE UTILITY.

24.CONTRACTOR SHALL PAY SPECIAL ATTENTION TO ANY UNDERGROUND TELEPHONE, FIBER OPTIC CABLES, GAS MAINS, WATER MAINS, OVERHEAD POWER, ETC. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION AS NECESSARY FOR SAFETY IN AREAS WHERE CONSTRUCTION ACTIVITIES REQUIRE SUCH. THE CONTRACTOR SHALL HAVE UTILITY COMPANY WRAP LINES, SUPPORT POLES, ETC. THE CONTRACTOR SHALL PAY ALL FEES TO THE APPROPRIATE UTILITY FOR THEIR WORK.

25, ALL EXISTING WATER SERVICE LINES SHALL REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROMPTLY REPAIR ANY WATER SERVICE LINE THAT IS INADVERTENTLY DAMAGED. IF TEMPORARY WATER SERVICE DISCONNECTION CANNOT BE AVOIDED, THE CONTRACTOR SHALL NOTIFY THE PROPER AUTHORITY A MINIMUM OF 24 HOURS IN ADVANCE.

26. THE CONTRACTOR SHALL SCHEDULE AND ACCOMPLISH THE WORK SO AS TO MINIMIZE ANY INCONVENIENCE TO PROPERTY OWNERS. 27. ALL LATERAL LOCATIONS ARE SCHEMATIC, THE CONTRACTOR SHALL FIELD DETERMINE THE MOST

PRACTICAL LOCATION OF LATERALS TO SERVE LOTS. 28.SURVEY DATUM: VERTICAL: NGVD 29, HORIZONTAL: SOUTH CAROLINA STATE PLANE COORDINATES: NAD83.

29. UTILITY LOCATIONS ARE SHOWN BY SURFACE MARKINGS BY OTHERS, THEREFORE LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UTILITIES PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.

30. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF ALL EXISTING UTILITIES, BEFORE ANY WORK NEAR AN EXISTING UTILITY, THE CONTRACTOR SHALL CONTACT THE OWNER OF THE SUBJECT UTILITY AND COORDINATE CONSTRUCTION AND NECESSARY PRECAUTIONS FOR PROTECTION OF THE SUBJECT UTILITY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

31. ALL EXCAVATION WITHIN 5' OF THE PAVED SCDOT ROADWAY (SIMMONSVILLE ROAD) SHALL BE BACKFILLED WITH FLOWABLE FILL. IN AREAS OF ASPHALT PAVING, FLOWABLE FILL SHALL BE USED TO WITHIN TWO INCHES OF THE FINISHED SURFACE WHERE SCOOT TYPE 'B' HOT MIXED ASPHALT SHALL BE USED FOR THE WEARING SURFACE.

2. IN LOCATIONS WHERE IT IS NECESSARY FOR THE CONTRACTOR TO OPEN CUT THE EXISTING SCDOT ROADWAY (SIMMONSVILLE ROAD), THE CONTRACTOR SHALL MILL ONE LANE WIDTH (12' WIDE) FOR 100 L.F. IN ADDITION TO THE DISTURBED AREA (50 L.F. FROM THE EDGE OF DISTURBED ROADWAY. EACHWAY) 2" DEEP AND REPAVE THE ENTIRE AREA WITH SCOOT TYPE "B" ASPHALT, CONTRACTOR SHALL COORDINATE THE EXTENT OR LIMITS OF THE ASPHALT SURFACE COURSE IN THE SCOOT ROAD RIGHT OF WAY.

33. FORCEMAINS AND ASSOCIATED APPURTENANCES SHOWN ON THESE PLANS ARE NOT FIELD LOCATED. THEY ARE SHOWN ACCORDING TO RECORD DRAWING INFOMRAITON PROVIDED BY BJWSA.

4. TREE PROTECTION IS SHOWN FOR GENERAL GUIDEANCE. PRIOR TO LAND DISTURBANCE, THE CONTRACTOR SHALL CONTACT THE TOWN FOR A SITE WALK THROUGH TO DETERMINE WHERE TREE PROTECTION IS REQUIRED.

OWNER INFORMATION: TOWN OF BLUFFTON

C/O JOHN HUTCHINSON P.D. BDX 386 20 BRIDGE STREET

BLUFFTON, SOUTH CAROLINA 29910 PHDNE: 843/706-4500

<u>PAVING. GRADING AND DRAINAGE PLAN NOTES:</u> SEE GENERAL NOTES.

THE CONTRACTOR SHALL REMOVE ALL STRIPPING, DEBRIS AND EXCESS EXCAVATED MATERIALS FROM

THE CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATIONS AND GRADING INCLUDING FURNISHING OFF-SITE BORROW AS REQUIRED TO MEET PLAN GRADES.

IF UNSUITABLE SUBGRADE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT (FROM OFF-SITE BORROW MATERIAL) OF ALL UNSUITABLE MATERIAL TO MEET COMPACTION REQUIREMENTS UNDER PAVED SURFACES, UNSUITABLE MATERIALS ARE THOSE CLASSIFIED AS MH, CH, DH, DL AND PEAT IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, UNLESS APPROVED IN WRITING BY THE PROJECT MANAGER. THE SITE ENGINEER AND PROJECT MANAGER SHALL BE NOTIFIED IMMEDIATELY UPON ENCOUNTERING UNSUITABLE SUBGRADE MATERIAL.

GRADE ALL DISTURBED AREAS TO PROVIDE POSITIVE DRAINAGE TO EXISTING OR NEW DRAINAGE FACILITIES. NO COLLECTION "POCKETS" SHALL BE CREATED BY WORK SHOWN IN THESE PLANS. ALL FINISHED SURFACES SHALL BE FREE FROM SURFACE IRREGULARITIES.

LOCATIONS AND TOP/INVERT ELEVATIONS OF INLETS/PIPES AND STRUCTURES WILL BE ADJUSTED IN THE FIELD BY THE CONTRACTOR WHERE NECESSARY AND SHALL BE APPROVED BY THE ENGINEER AND OWNER PRIOR TO MAKING FIELD ADJUSTMENTS.

CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES. DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO WETLAND AREAS. SETTLING BASINS AND SILT FENCING/SILT BAGS SHALL BE UTILIZED TO PREVENT DISCHARGE OF SILTS INTO THESE AREAS. INVERTS SHOWN ON THE PLAN ARE PIPE INVERTS.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (SILT FENCES) SHALL BE PLACED AT ALL INLETS AND PIPES UNTIL SOIL STABILIZATION IS COMPLETE.

ANY SUBSTITUTION FOR MATERIALS OR PROCEDURES MUST HAVE PRIOR WRITTEN APPROVAL OF PROJECT ENGINEER OR OWNER. 2. EACH PARCEL SHALL HAVE ITS YARD, LANDSCAPING, DRIVEWAY, ETC. REESTABLISHED UPON THE COMPLETION OF INFRASTRUCTURE FOR THAT PARTICULAR PARCEL.

WATER AND SEWER PLAN NOTES:

SEE GENERAL NOTES. 2. GENERAL CONTRACTOR SHALL OVERSEE INSTALLATION OF UTILITIES AND COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS. 3. IN THE EVENT OF A CONFLICT WITH WATER, SEWER, DRAINAGE OR OTHER UTILITY LINES, THE CONTRACTOR

SHALL COORDINATE WITH THE ENGINEER PRIOR TO MAKING FIELD ADJUSTMENTS. 4. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE CONNECTION OF NEW UTILITIES TO EXISTING WATER AND SEWER SYSTEMS.

CONTRACTOR SHALL NOTIFY ENGINEER TEN DAYS IN ADVANCE OF BEGINNING ANY UTILITY CONSTRUCTION TO ALLOW FOR PROPER S.C.D.H.E.C. NOTIFICATION. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AS NECESSARY TO MEET REQUIRED EXCAVATIONS AND GRADES, DEWATERING OPERATIONS SHALL NOT DISCHARGE DIRECTLY INTO MARSH OR WETLAND AREAS, SETTLING

AREAS. CONTRACTOR SHALL VERIFY EXISTING DEPTH, MATERIALS AND LOCATION OF EXISTING WATER MAINS BEING TIED INTO, PRIOR TO CONSTRUCTION.

BASIN(S) AND SILT FENCING/SILT BAGS SHALL BE UTILIZED TO PREVENT DISCHARGE OF SILTS INTO THESE

CONSTRUCTION OF THE WATER SYSTEM AND CONNECTION TO THE EXISTING WATER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF BEAUFORT-JASPER WATER AND SEWER AUTHORITY

ALL WATER LINES SHALL HAVE 36" MINIMUM (42" IN DOT R/W) COVER FROM FINISHED GRADE. CONTRACTOR SHALL USE A SECTION OF DUCTILE IRON PIPE SURROUNDED BY STONE AT ANY CROSSING OF POTABLE WATER LINE AND STORM DRAINAGE PIPE OR BOTTOM OF DRAINAGE STRUCTURE, OR SANITARY SEWER LINE WITH LESS THAN 18" VERTICAL (OUTSIDE TO OUTSIDE) OR 10' HORIZONTAL SEPARATION (OUTSIDE TO OUTSIDE). ALONG WITH D.I.P. PIPE, TWO D.I.P. - PVC ADAPTERS OR APPROVED EQUAL WILL BE CONSTRUCTED AT BOTH ENDS OF D.I.P.

CONTRACTOR SHALL USE BENDS AS SHOWN ON THE PLANS, AT A MINIMUM, MANUFACTURER'S ALLOWABLE DEFLECTION AND MINOR BENDS AS NEEDED TO LAY WATER MAIN AS SHOWN. ALL BENDS SHALL BE D.I.P. COSTS FOR ALL BENDS SHALL BE INCLUDED IN THE BID PRICE.

12. CONTRACTOR SHALL VERIFY EXISTING INVERT ELEVATIONS, MATERIALS AND LOCATION OF EXISTING SANITARY SEWER LINES AND MANHOLES BEING TIED INTO, PRIOR TO CONSTRUCTION. 13. CONSTRUCTION OF THE SANITARY SEWER SYSTEM AND CONNECTION TO THE EXISTING SEWER SYSTEM SHALL MEET THE REQUIREMENTS OF AND SHALL BE INSTALLED UNDER THE DIRECTION OF BEAUFORT-JASPER WATER AND

SEWER AUTHORITY. 14. SANITARY SEWER LINES NOT HAVING 36" (42" IN DOT R/W) OF COVER SHALL BE ENCASED IN DUCTILE IRON PIPE, CONTRACTOR SHALL EVALUATE DITCH CROSSINGS AND STORM DRAIN CROSSINGS, IF A MINIMUM OF 36" OF COVER AND A MINIMUM VERTICAL SEPARATION OF 18" (OUTSIDE TO OUTSIDE) OR 10' HORIZONTAL SEPARATION (OUTSIDE TO OUTSIDE) CAN NOT BE MAINTAINED. THE CARRIER PIPE SHALL BE ENCASED IN DIP AND SURROUNDED BY STONE.

15, CONTRACTOR SHALL ENCASE THE CARRIER PIPE IN DUCTILE IRON PIPE AT ANY CROSSING OF SANITARY SEWER LINE AND STORM DRAINAGE PIPE OR BOTTOM OF DRAINAGE STRUCTURE, OR POTABLE WATER LINE WITH LESS THAN 18" VERTICAL (OUTSIDE TO OUTSIDE) OR 10' HORIZONTAL SEPARATION (OUTSIDE TO OUTSIDE). 16. ALL SEWER LINE TIES INTO MANHOLES WILL HAVE A MINIMUM ANGLE OF 90 DEGREES TO DOWNSTREAM SEWER

LINE, UNLESS OTHERWISE SHOWN. 17. PROPOSED SANITARY SEWER MANHOLE TOP ELEVATIONS ARE APPROXIMATE AND SHALL BE ADJUSTED IN FIELD TO BE SET 0.2 FEET ABOVE FINISHED GRADE IN GRASSED AREAS AND FLUSH IN PAVED AREAS.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH INSPECTION AND TESTING OF WATER AND SEWER LINES AND APPURTENANCES. 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND COSTS ASSOCIATED WITH TEMPORARY WATER SERVICE IF REQUIRED. TEMPORARY CONNECTIONS OR HYDRANT CONNECTIONS SHALL BE UTILIZED IN STRICT ADHERENCE TO THE CURRENT UTILITY GUIDELINES. FAILURE TO FOLLOW SAID GUIDELINES COULD RESULT IN

FINES BY THE UTILITY FOR WHICH CONTRACTOR IS FULLY RESPONSIBLE. 20. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS CONSTRUCTED RECORD DRAWINGS WHICH MEET ALL APPLICABLE UTILITY REQUIREMENTS. THE ENGINEER SHALL BE PROVIDED A COPY OF ALL RECORD DRAWING INFORMATION.

21. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH INVERT ELEVATIONS OF THE STEEL CASING FOR THE JACK AND BORES (VERIFIED BY A S.C. LICENSED SURVEYOR) BEFORE INSTALLING CARRIER PIPE. THE CONTRACTOR SHALL NOT INSTALL CARRIER PIPE IN THE JACK AND BORES UNTIL AUTHORIZED TO DO SO, IN WRITING, BY THE ENGINEER. IF THE CASING IS NOT INSTALLED AT THE SLOPE SPECIFIED (AT A MINIMUM) THE CONTRACTOR SHALL INCUR ALL COSTS ASSOCIATED WITH CORRECTLY INSTALLING THE CASING.

22. CONTRACTOR SHALL PROVIDE LOCATIONS OF ALL CLEANOUTS, STUBS, VALVES, BENDS, ETC. WITH A MEASURED DISTANCE BETWEEN TWO KNOWN, PERMANENT FEATURES (LIGHT POLES, SEWER MANHOLES, PROPERTY MONUMENTS,

23. CONTRACTOR SHALL LABEL ALL WATER & SEWER MAINS WITH LENGTH (BETWEEN FITTINGS), SIZE, MATERIAL, & SLOPE (IF APPLICABLE) AND SUPPLY INFORMATION TO THE ENGINEER. SAID INFORMATION WILL BE PROVIDED TO BJWSA IN THE RECORD DRAWINGS.

24 ALL RECORD DRAWING INFORMATION SHALL MEET REQUIREMENTS SET FORTH BY BJWSA & OTHER REGULATING AGENCIES, RECORD DRAWINGS SHALL INCLUDE MOST RECENT 911 ADDRESS FOR ALL PARCELS ON PLANS. SEDIMENTATION AND EROSION CONTROL NOTES:

PROJECT NARRATIVE: PROJECT CONSISTS OF CONSTRUCTION OF SEWER MAIN EXTENSIONS AND SERVICE CONNECTIONS AS WELL AS WATER MAIN EXTENSIONS AND SERVICE CONNECTIONS. THE SITE WILL BE RESTORED TO ITS PRE CONSTRUCTION STATE WITH THE EXCEPTION OF THE IMPROVED DRIVES.

1. SEE GENERAL NOTES. 2. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHALL BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION, TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PORTION OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS.

4. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, IF SITE INSPECTIONS IDENTIFY BMPS THAT ARE DAMAGED OR ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL OR AS REASONABLY POSSIBLE AND BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE.

5. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION, ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHALL BE FILTERED, BY DEVICES SUCH AS SILT BAGS OR OTHER APPROVED METHODS, TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

6. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.

7. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES, INCLUDING SILT FENCE AND TREE PROTECTION FENCE, SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

8. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY (OR MORE OFTEN IF NECESSARY) REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.

9. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ.

10. TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT LADEN WATER TO APPROPRIATE

TRAPS OR STABLE OUTLETS. 11. APPRO∨ED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING OR OTHER LAND-DISTURBING ACTIVITIES, EXCEPT THOSE OPERATIONS REQUIRED TO INSTALL SUCH MEASURES. THE CONTRACTOR SHALL OBTAIN TOWN OF BLUFFTON EROSION CONTROL ACCEPTANCE

BY THE GROWTH MANAGEMENT DEPARTMENT'S OFFICE OF CONSTRUCTION AND COMPLIANCE. 12. WHEN ACCESSING SITE, PROVIDE A 50' LONG BY 20' WIDE (MIN) TEMPORARY CONSTRUCTION EXIT STABILIZED WITH GEDTEXTILE FABRIC AND 6" THICK GRAVEL SURFACE COURSE, CONSTRUCTION EXIT SHALL BE RELOCATED

AS PROJECT PROGRESSES. 13. TEMPORARY SEDIMENT TRAPS SHALL BE ACCEPTED WITH THE UNDERSTANDING THAT MASONRY INLETS SHALL BE

LEFT LOW ENOUGH, DURING CONSTRUCTION, FOR WATER TO ENTER. 14. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES MAY RESULT IN CONSTRUCTION BEING HALTED.

15. SEE SEEDING SCHEDULE FOR TEMPORARY STABILIZATION

AND SCR100000.

16. SEE DETAIL SHEETS FOR EROSION CONTROL DETAILS. 17. MAINTENANCE RESPONSIBILITY OF ALL STORM DRAINAGE PIPING AND STRUCTURES SHALL REMAIN WITH THE GENERAL CONTRACTOR DURING CONSTRUCTION.

18. LITTER, CONSTRUCTION DEBRIS, DILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN THE STORM WATER DISCHARGES.

PROCESS OF FUELING EQUIPMENT. FUEL TRUCKS/TRAILERS ARE ONLY ALLOWED ON SITE WHILE IN THE ACT OF FUELING EQUIPMENT 20. ALL WATERS OF THE STATE (WoS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER

CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WoS. A 10-FOOT BUFFER SHOULD BE MAINTAINED

19. NO TEMPORARY FUEL TANKS, PERMITTED OR NOT, WILL BE ALLOWED TO BE ON SITE UNLESS IT IS IN THE

SEEDING SCHEDULE <u>WINTER/SPRING</u> <u>SPECIES</u> RYE (GRAIN) RATE (LB/ACRE) ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN), KOREAN IN MOUNTAINS

COMMON BERMUDA (HILLED) OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE. - AB□VE 2500 FT: FEB. 15 - MAY 1

BELOW 2500 FT: FEB. 1 - MAY 1

PIEDMONT - JAN.1 - MAY 1

MOUNTAINS- AUG. 15 -DEC. 15

LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

FLOOD ZONE NOTE:

100-YR. (ZONE "C")

SEQUENCE OF CONSTRUCTION:

CLEAR AND GRUB AS REQUIRED.

STABILIZATION

INSTALL EROSION CONTROL DEVICES AS SHOWN ON PLANS. INSTALL STABILIZED CONSTRUCTION ENTRANCES AS REQUIRED.

REMOVE EROSION CONTROL DEVICES & TREE BARRICADES AFTER SOIL

INSTALL GRAVITY SEWER LINES AND STRUCTURES.

MODIFY WATER LINES AND STRUCTURES.

FINE GRADING, LANDSCAPING AND GRASSING.

IN MY OPINION, IN ACCORDANCE WITH FIRM MAP NO.450025-0085-D, REVISED

SEPTEMBER 29,1986, THIS PROPERTY DOES NOT FALL WITHIN THE LIMITS OF THE

COASTAL PLAIN - DEC.1 - APR.15 SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH NCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. RATE (LB/ACRE) COMMON BERMUDA (HULLED) IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE SEWER LATERAL (SINGLE)

SFEDING DATES:
MOUNTAINS - MAY 15 - AUG. 15 PIEDMONT - MAY 1 - AUG. 15 COASTAL PLAIN - APR. 15 - AUG. 15

COIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL. MAINTENANCE: RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

RATE (LB/ACRE) COMMON BERMUDA (HILLED) SEEDING DATES!

COASTAL PLAIN & PIEDMONT- AUG. 15 - DEC. 30 AND - APR. 15 - AUG. 15 SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

MAINTENANCE

REPAIR AND RE-FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

LEGEND: EXISTING ASPHALT PAVING CONCRETE PAVING EARTH DRIVE STORM DRAINAGE PIPE ______ ----SAN----SANITARY SEWER PIPE \bigcirc SANITARY SEWER MANHOLE WATER MAIN ____10"W____ WATER VALVE $-\!\!-\!\!\otimes\!\!-\!\!-$ FIRE HYDRANT MAINTENANCE:

RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH WATER METER WATER LATERAL WATER LATERAL (DOUBLE) SEWER LATERAL (DOUBLE) ----GAS----GAS MAIN GAS VALVE U/G TELECOMUNICATIONS ——UGT——

CONTOURS

POWER POLE

SPOT ELEVATION DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING TEMPORARY SEDIMENT BARRIER SILT FENCE, TYPE "A"

TELECOMMUNICATIONS BOX

OVERHEAD POWER

DITCH CHECK - CHECK DAM

WETLANDS

SOIL TYPE

Ds2 Ds3 (Sd1-S)(Cd 9" * - * - \forall \forall \forall <u>* _ + _ + _ _ </u> Sw

——ОНР----

JG DATE: OCTOBER 2019 JOB NO. 118208826 SCALE: AS SHOWN

2No. 25049

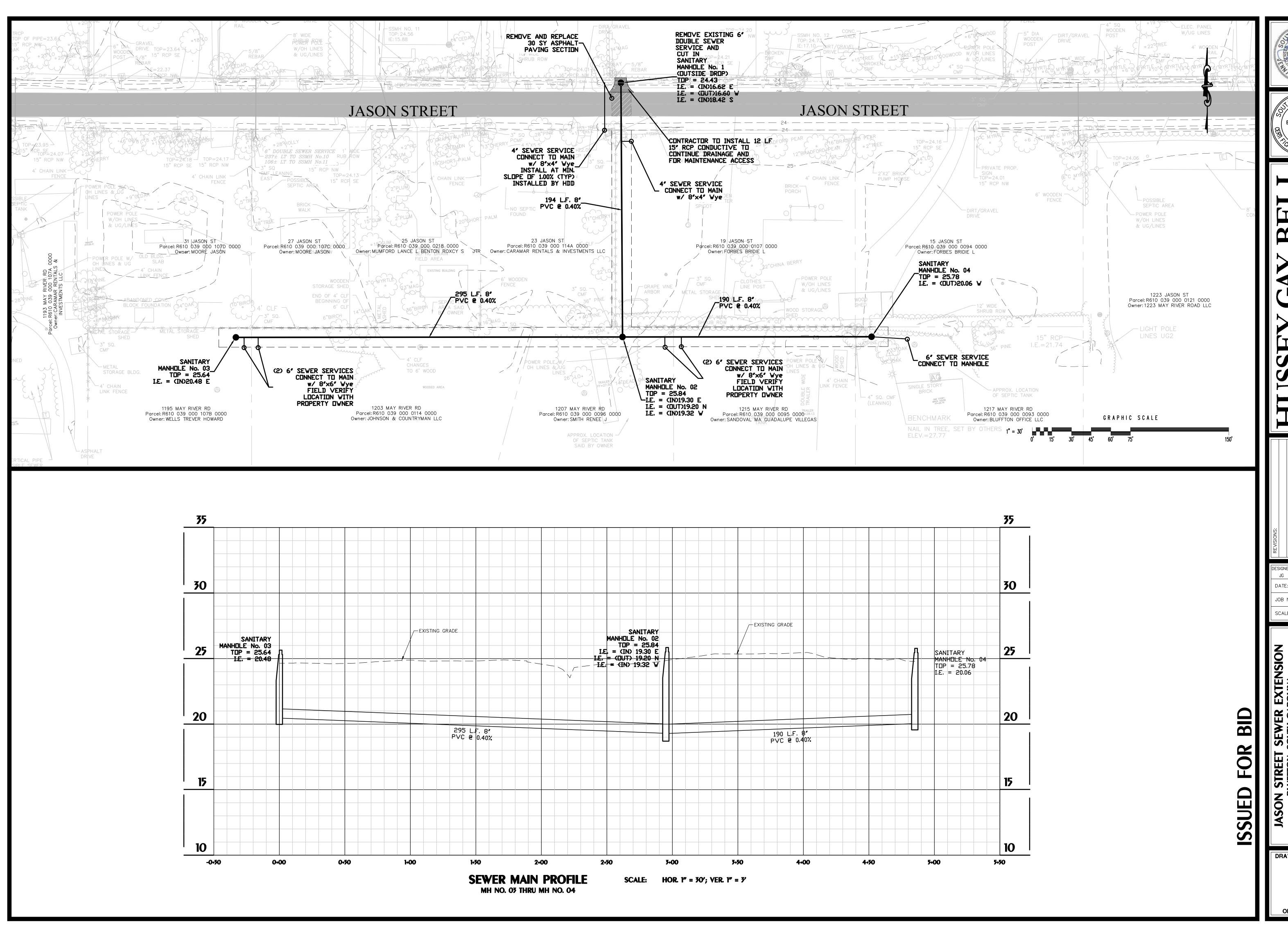
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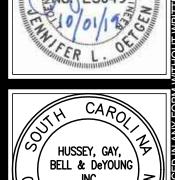
HUSSEY, GAY,

BELL & DeYOUNG

No. C00539

DRAWING NUMBER





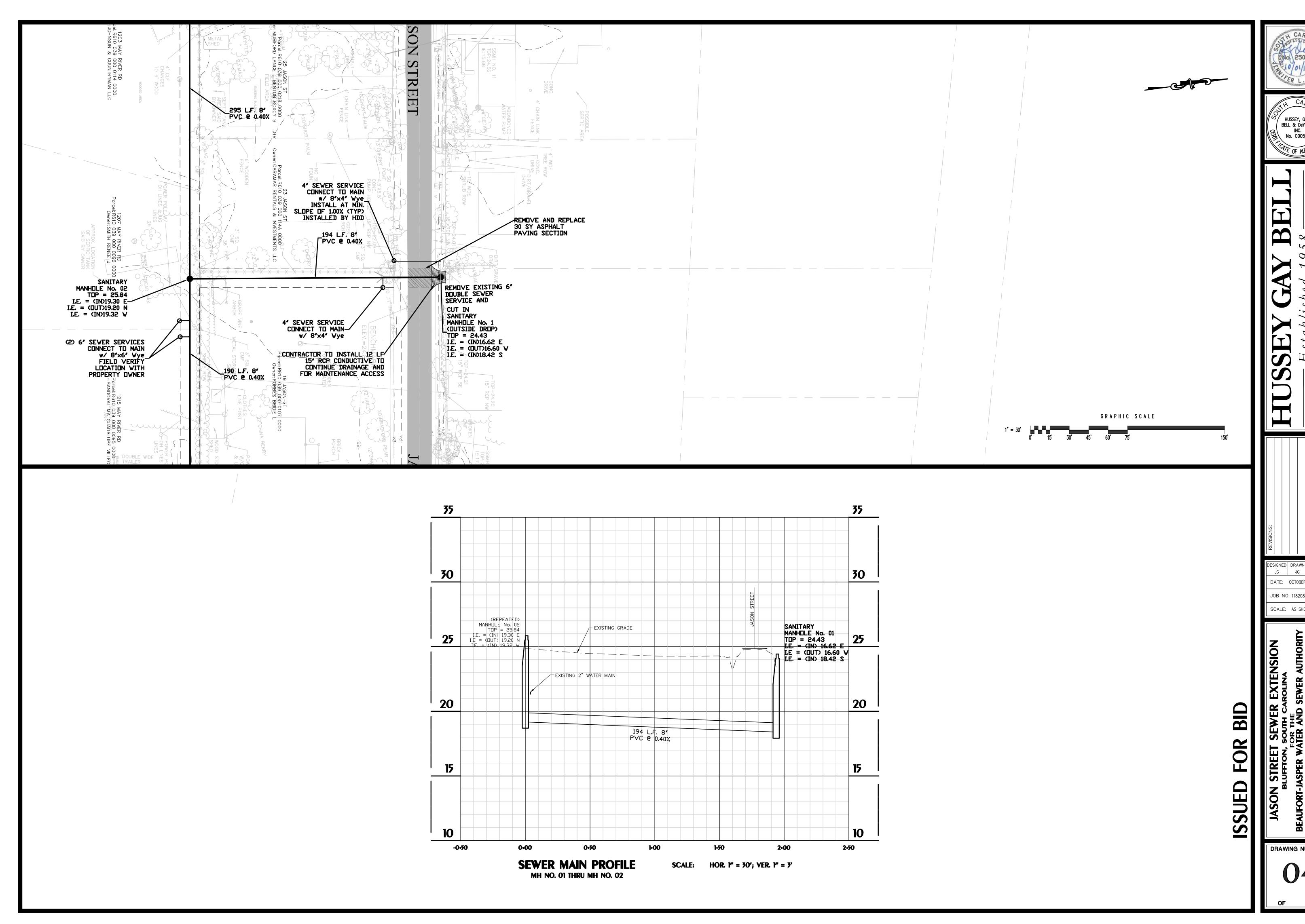


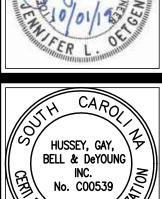
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SIGNED DRAWN CHECKED

DATE: OCTOBER 2019 JOB NO. 118208826 SCALE: AS SHOWN

DRAWING NUMBER

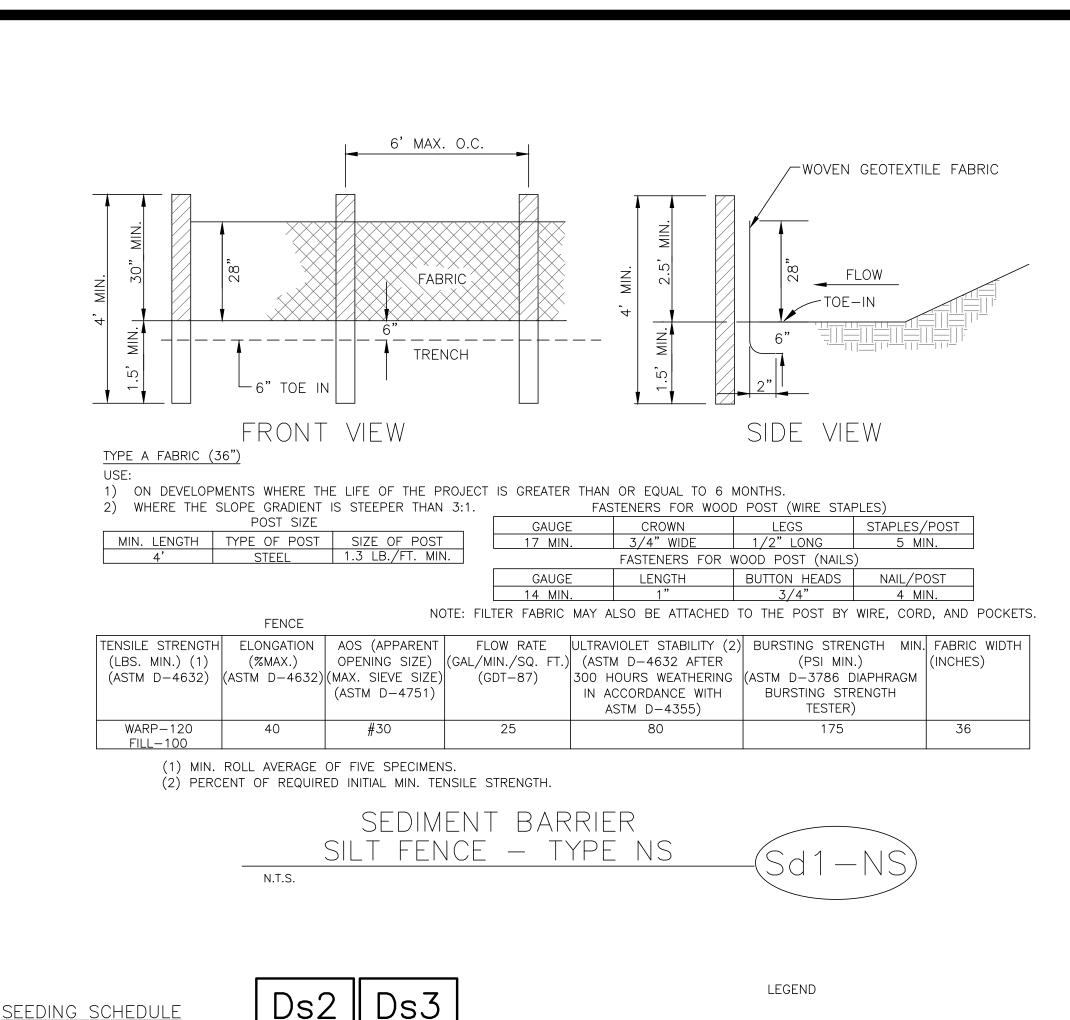


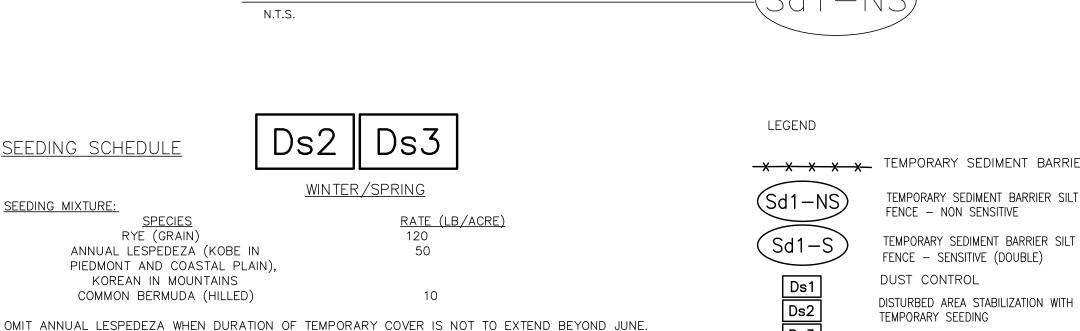


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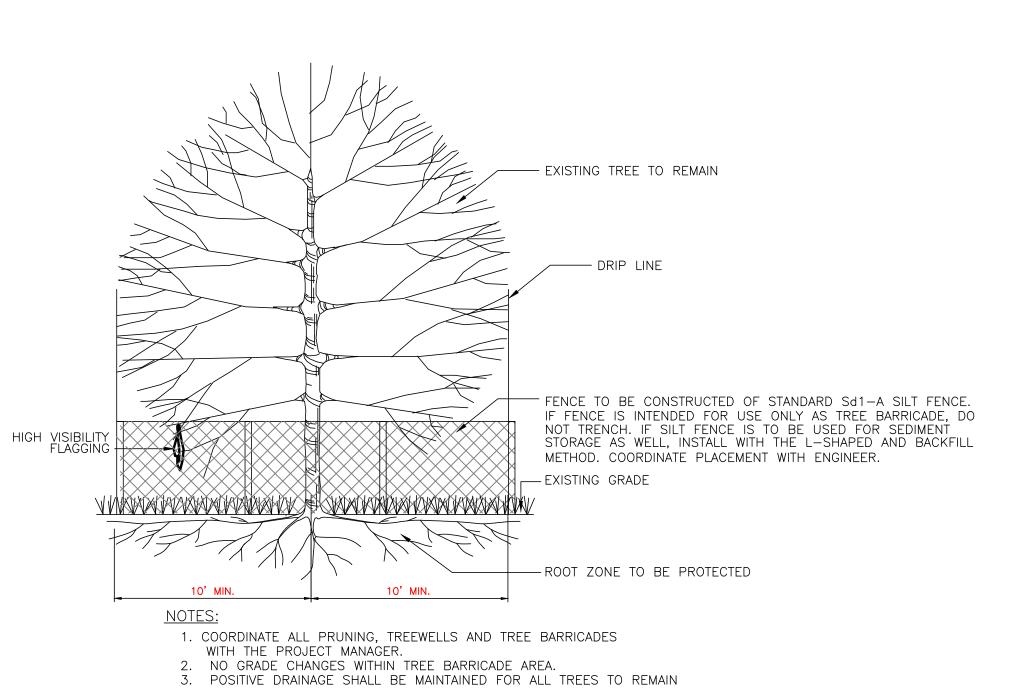
DATE: OCTOBER 2019 JOB NO. 118208826

DRAWING NUMBER





PROTECTIVE TREE BARRICADE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1' FOR EACH ADDITIONAL 1" DBH ALL WORK DONE WITHIN PROTECTIVE BARRICADES MAINTAIN TREE BARRICADES AT ALL TIMES, ALL ROOTS TO BE REMOVED DURING DEVELOPMENT SHALL BE SEVERED CLEAN AND A 2" LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS DURING DEVELOPMENT. NO VARIANCE FROM SPECIFIED MATERIALS SHALL BE PERMITTED FOR TREE BARRICADE WITHOUT PRIOR APPROVAL FROM THE PROJECT MANAGER. A DECREASE IN GRADE SHALL ONLY BE ALLOWED WITH THE USE OF APPROVED RETAINING WALLS OR THE INSTALLATION OF UTILITIES THROUGH A PROTECTION ZONE MAY BE ALLOWED WITH PRIOR APPROVAL BY BORING OR TUNNELING AS APPROVED BY THE PROJECT MANAGER TRENCHING WILL BE ALLOWED WITHIN THE TREE PROTECTION ZONE ONLY WITH PROJECT MANAGER'S APPROVAL. IMPERVIOUS SURFACE MATERIALS ON RIGID FOUNDATIONS ARE NOT ALLOWED WITHIN THE TREE PROTECTION ZONE. BUILDING FOUNDATIONS AND OTHER SUBGRADE BUILDING ELEMENTS ARE NOT ALLOWED WITHIN THE TREE PROTECTION ZONE. AREAS REMOTE FROM LAND DISTURBANCE SHALL UTILIZE PASSIVE FORMS OF TREE PROTECTION DURING DEVELOPMENT ACTIVITIES. THESE AREAS MUST BE SURROUNDED WITH CONTINUOUS ROPE OR FLAGGING (HEAVY MILL, MINIMUM TWO INCH WIDTH). ALL PASSIVE TREE PROTECTION MUST BE ACCOMPANIED BY "KEEP OUT" OR "TREE PROTECTION AREA" SIGNAGE.



- WOVEN GEOTEXTILE FABRIC

BURSTING STRENGTH | MIN. FABRIC WIDTH

36

(PSI MIN.)

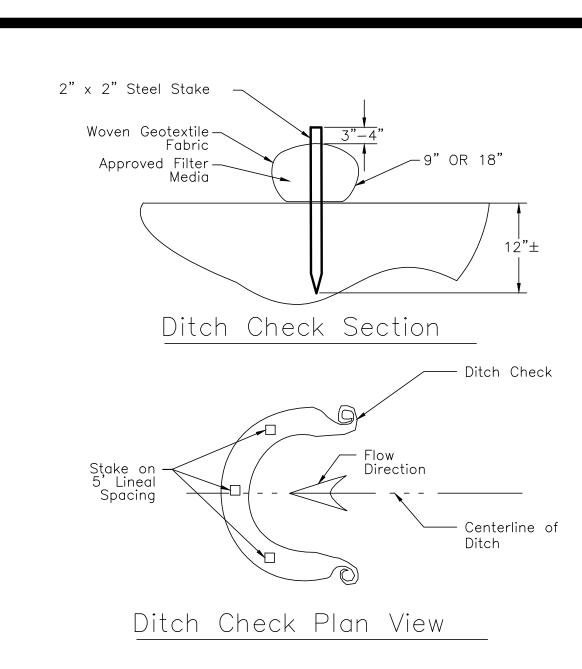
(ASTM D-3786 DIAPHRAGM

BURSTING STRENGTH

TESTER)

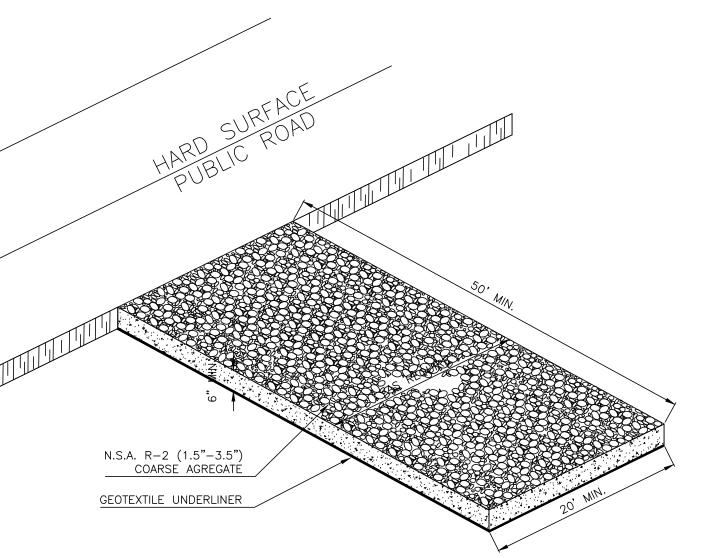
175

PROTECTION



- 1. All material to meet manufacturers specifications.
- 2. Filter/media fill to meet application requirements. 3. BMP depicted is for minimum slopes. Greater slopes
- may require larger socks per the Engineer. 4. Compost material to be dispersed on site, as determined by
- 5. Geotextile fabric shall meet manufacturers specifications.
- 6. Filter media/compost shall meet manufacturers
- 7. Ditch Check products shall be Filtrex Ditch Chexx, Erosion Eels, BioD-SiltCheck, or other approved device.





CRUSHED STONE CONSTRUCTION EXIT NOT TO SCALE

l JG

DATE: OCTOBER 2019

JOB NO. 118208826

SCALE: AS SHOWN

HUSSEY, GAY, BELL & DeYOUNG

No. C00539

DRAWING NUMBER

APR. 15 - AUG. 15 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER. APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING **MAINTENANCE:** REPAIR AND RE-FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

WINTER/SPRING

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE

TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING

RATE (LB/ACRE)

RATE (LB/ACRE)

ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH

SEEDING MIXTURE:

SOIL AMENDMENTS:

SEEDING MIXTURE:

OPOL50 LB/ACRE.

<u>SEEDING DATES:</u>

SOIL AMENDMENTS:

SEEDING MIXTURE:

SEEDING DATES:

RYE (GRAIN)

PIEDMONT - JAN.1 - MAY 1

COASTAL PLAIN - DEC.1 - APR.15

LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

GERMAN MILLET

COMMON BERMUDA (HULLED)

MOUNTAINS - MAY 15 - AUG. 15

COASTAL PLAIN - APR. 15 - AUG. 15

COMMON BERMUDA (HILLED)

COASTAL PLAIN & PIEDMONT- AUG. 15 - DEC. 30 AND

MOUNTAINS- AUG. 15 -DEC. 15

PIEDMONT - MAY 1 - AUG. 15

AND 750 LB/ACRE 10-10-10 FERTILIZER.

FOLLOWING EROSION OR OTHER DAMAGE.

ANNUAL LESPEDEZA (KOBE IN

PIEDMONT AND COASTAL PLAIN), KOREAN IN MOUNTAINS

COMMON BERMUDA (HILLED)

MOUNTAINS - ABOVE 2500 FT: FEB. 15 - MAY 15

BELOW 2500 FT: FEB. 1 - MAY 1

XXXX TEMPORARY SEDIMENT BARRIER TEMPORARY SEDIMENT BARRIER SILT DISTURBED AREA STABILIZATION WITH PERMANENT SEEDING

TREE PROTECTION NOTES:

GREATER THAN 10" DBH.

IS TO BE DONE BY HAND.

TERRACING PLANS.

- 4. ALL PRUNING OF PROTECTED TREES AND GRAND
- TREES SHALL BE DONE BY A QUALIFIED TREE SERVICE DURING DEVELOPMENT ACCORDING TO THE NATIONAL ARBORISTS ASSOCIATION, PRUNING STANDARDS FOR
- 5. USE TREE PROTECTION AS DIRECTED BY THE TOWN OF BLUFFTON PROJECT MANAGER.

4' MAX. O.C.

ŴŎŶĔŃ×ŴĬŔĔ FÉNCE BACKING

TRENCH

STEEL

FLOW RATE

(GAL/MIN./SQ. FT.)

(GDT-87)

1. USE 36" D.O.T. APPROVED FABRIC USE STEEL POSTS ONLY.

2. WHEN DOUBLE ROW OF SILT FENCE IS REQUIRED, PLACE ROWS WITH 30" OF SEPARATION.

SILT FENCE - TYPE S

USE: WHERE FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20 FEET AND THE SLOPE

SIZE OF POST

1.3 LB./FT. MIN.

(1) MIN. ROLL AVERAGE OF FIVE SPECIMENS.

ULTRAVIOLET STABILITY (2)

(ASTM D-4632 AFTER

300 HOURS WEATHERING

IN ACCORDANCE WITH

ASTM D-4355)

(2) PERCENT OF REQUIRED INITIAL MIN. TENSILE STRENGTH.

FRONT VIEW

GRADIENT IS STEEPER THAN 3:1.

TENSILE STRENGTH ELONGATION

OPENING SIZE)

(ASTM D-4751)

MIN. LENGTH | TYPE OF POST

TYPE C FABRIC (36")

ELONGATION AOS (APPARENT

(ASTM D-4632) (MAX. SIEVE SIZE)

6" TOE IN

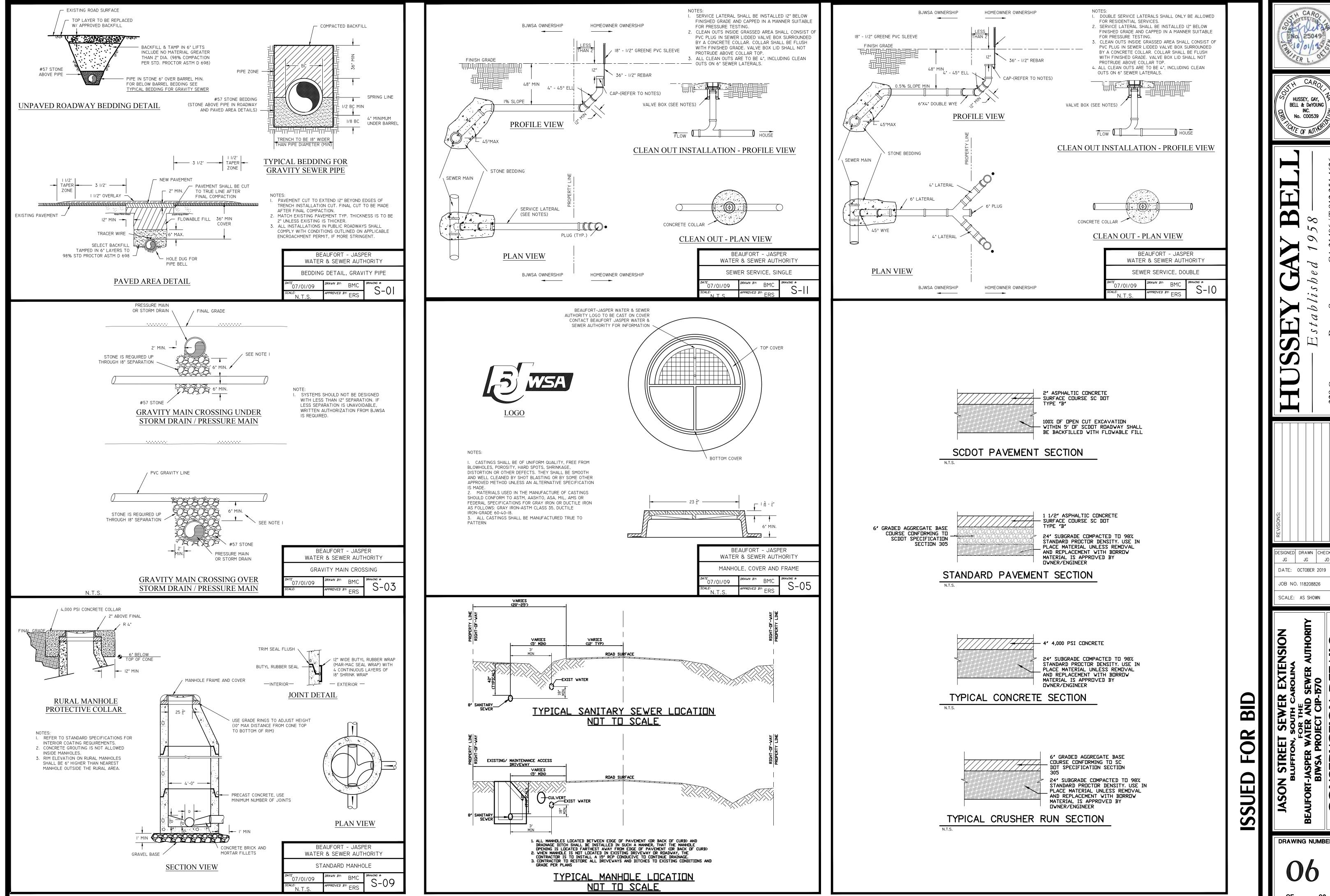
FENCE

TENSILE STRENGTH

(LBS. MIN.) (1)

(ASTM D-4632)

WARP-260



DRAWING NUMBER

HUSSEY, GAY,

No. C00539