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Hutchinson Square Improvements Phase II

BID SET - ROAD

January 24, 2018 Project Number: 178420699



	PROJECT CONTACT
SUBJECT	MUNICIPALITY / UTILITY PROVIDER
PARKS DEPARTMENT PLANNING & ZONING ROADS AND DRAINAGE WATER SEWER ELECTRICAL POWER NPDES LAND DIST.	TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE TOWN OF SUMMERVILLE SUMMERVILLE CPW SUMMERVILLE CPW SCE&G SCDHEC – OCRM



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This drawing is not to be used for construction purposes unless signed and sealed by the Engineer of Record and stamped "Approved For Construction." Use of this drawing for quantity take-offs and pricing is preliminary until all applicable permits have been obtained

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GENERAL NOTES:

TOWN OF SUMMERVILLE DOYLE BEST

515 W. BOUNDARY ST SUMMERVILLE, SC 29485 TEL: (843) 851–5211

2. ENGINEER: STANTEC CONSULTING SERVICES, INC JOSHUA J. LILLY, P.E. 4969 CENTRE POINTE DR. SUITE 200 NORTH CHARLESTON, SC 29418 TEL: (843) 740–7700

3. VERTICAL DATUM USED WAS NAVD 88.

TOPOGRAPHIC INFORMATION AND ALL EXISTING CONDITIONS ARE BASED ON TOPOGRAPHIC SURVEY BY CORNERSTONE SURVEYING AND ENGINEERING, DATED DECEMBER, 2015. WETLANDS, CRITICAL AREAS, OTHER INDICATED ENVIRONMENTALLY SENSITIVE AREAS AND UNDISTURBED BUFFERS SHALL NOT BE DISTURBED EXCEPT WHERE SPECIFICALLY INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS AND/OR AS AUTHORIZED BY THE USACE AND SCDHEC-OCRM.

5. THIS PROPERTY IS NOT LOCATED WITHIN A FEMA FLOOD ZONE F.E.M.A. INSURANCE RATE MAP (F.I.R.M.) PANEL NUMBER 450073005D.

6. CONTRACTOR IS TO VERIFY ALL INFORMATION CONTAINED HEREIN PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OR OWNER OF ANY DISCREPANCY PRIOR TO CONSTRUCTION.

7. CONTRACTOR TO COORDINATE WITH OWNER AND ENSURE ALL APPLICABLE CONSTRUCTION AND LAND DISTURBANCE PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING ANY WORK.

8. CONTRACTOR AND/OR OWNER IS RESPONSIBLE FOR COORDINATING CONSTRUCTION WITH UTILITY COMPANIES, ADJACENT LAND DEVELOPMENTS OR OTHER EFFECTED THIRD PARTIES.

9. CONSULT WITH ARBORIST FOR ALL UTILITY AND CONDUIT INSTALLATION WITHIN THE DRIPLINE OF GRAND TREES TO DETERMINE AREAS THAT REQUIRE HAND DIGGING/ TRENCHING TO LIMIT DISTURBANCE TO GRAND TREE ROOT ZONES. CONSULT WITH ARBORIST FOR ANY ROOT CUTTING OVER 1 $\frac{1}{2}$ " IN DIAMETER.

SHOP AND SUBMITTALS DRAWINGS:

1.0 SUBMITTALS

- A. SCALE AND MEASUREMENTS: MAKE SHOP DRAWINGS ACCURATELY TO A SCALE SUFFICIENTLY LARGE TO SHOW ALL PERTINENT ASPECTS OF THE ITEM AND ITS METHOD OF CONNECTION TO THE WORK.
- B. LARGE PRINTS (11" X 17" OR LARGER):
- SUBMIT SHOP DRAWINGS IN THE FORM OF WHITE COPIES. 2. BLUEPRINTS WILL NOT BE ACCEPTABLE.
- C. MANUFACTURER'S LITERATURE:
- 1. WHERE CONTENTS OF SUBMITTED LITERATURE FROM MANUFACTURERS INCLUDES DATA NOT PERTINENT TO THE SUBMITTAL, CLEARLY SHOW WHICH PORTIONS OF THE CONTENTS ARE BEING SUBMITTED FOR REVIEW. CROSS OUT OR STRIKE THROUGH ALL DATA NOT PERTINENT TO THE SUBMITTAL
- 2. SUBMIT THE NUMBER OF COPIES WHICH ARE REQUIRED TO BE RETURNED, PLUS FOUR COPIES OF ELECTRICAL AND THREE COPIES OF ALL OTHER SUBMITTALS WHICH WILL BE RETAINED BY THE ENGINEER.
- D. NUMBER OF COPIES:
- 1. SUBMIT THE NUMBER OF COPIES WHICH ARE REQUIRED TO BE RETURNED, PLUS THREE COPIES WHICH WILL BE RETAINED BY THE FNGINFFR.
- 2. ELECTRICAL SHOP DRAWINGS: SUBMIT THE NUMBER OF COPIES WHICH ARE REQUIRED TO BE RETURNED, PLUS FOUR COPIES WHICH WILL BE RETAINED BY THE ENGINEER.
- E. DO NOT BEGIN FABRICATION OF EQUIPMENT OR MATERIALS PRIOR TO ENGINEER'S APPROVAL OF SHOP DRAWINGS.

2.0 VARIATIONS

- A. WITH EACH SUBMITTAL, PROVIDE SPECIFIC WRITTEN NOTICE OF ANY VARIATIONS, THAT THE SHOP DRAWING OR SAMPLE MAY HAVE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THIS NOTICE SHALL BE BOTH A WRITTEN COMMUNICATION SEPARATE FROM THE SHOP DRAWINGS OR SAMPLE SUBMITTAL; AND, IN ADDITION, BY A SPECIFIC NOTATION MADE ON EACH SHOP DRAWING OR SAMPLE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL OF EACH SUCH VARIATION.
- B. PROVIDE AN EXPLANATION OF WHY THE ITEM(S) SUBMITTED ARE CONSIDERED TO BE EQUAL TO THE ITEM(S) SPECIFIED.
- C. FAILURE TO SUBMIT A WRITTEN NOTICE WILL RESULT IN REJECTION OF THE SUBMITTAL.

3.0 SAMPLES

- A. PROVIDE SAMPLE OR SAMPLES IDENTICAL TO THE PRECISE ARTICLE PROPOSED TO BE PROVIDED. IDENTIFY AS DESCRIBED UNDER "IDENTIFICATION OF SUBMITTALS" BELOW.
- B. NUMBER OF SAMPLES REQUIRED:
- UNLESS OTHERWISE SPECIFIED, SUBMIT SAMPLES IN THE QUANTITY WHICH IS REQUIRED TO BE RETURNED, PLUS ONE WHICH WILL BE RETAINED BY THE ENGINEER. 2. BY PREARRANGEMENT IN SPECIFIC CASES, A SINGLE SAMPLE MAY BE SUBMITTED FOR REVIEW AND, WHEN APPROVED, BE INSTALLED IN THE WORK AT A LOCATION AGREED UPON BY THE ENGINEER.
- 4.0 COLORS AND PATTERNS
- A. UNLESS THE PRECISE COLOR AND PATTERN IS SPECIFICALLY CALLED OUT IN THE CONTRACT DOCUMENTS, AND WHENEVER A CHOICE OF COLOR OR PATTERN IS AVAILABLE IN THE SPECIFIED PRODUCTS, SUBMIT ACCURATE COLOR AND PATTERN CHARTS TO THE ENGINEER FOR SELECTION.

5.0 CONTRACTOR'S REVIEW OF SUBMITTALS

- A. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL, CONTRACTOR SHALL:
- 1. DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE AND DESIGN CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS, AND SIMILAR INFORMATION WITH RESPECT THERETO. 2. DETERMINE AND VERIFY THE SUITABILITY OF ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY, AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK 3. REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF
- CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF CONTRACTOR. 4. APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT. 5. STAMP AND SIGN EACH SUCH SUBMISSION BEFORE SUBMITTING IT.
- B. SHOP DRAWINGS AND RELATED MATERIALS SHALL BE RETURNED WITH COMMENTS PROVIDED THAT EACH SUBMISSION HAS BEEN SPECIFIED AND IS STAMPED BY THE CONTRACTOR.
- C. SHOP DRAWINGS OR MATERIAL NOT SPECIFIED OR WHICH HAVE NOT BEEN APPROVED BY THE CONTRACTOR SHALL BE RETURNED WITHOUT COMMENT.
- D. ENGINEER'S REVIEW AND APPROVAL SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS COMPLIED WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS AND ENGINEER HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED IN OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE. ENGINEER'S REVIEW AND APPROVAL SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLYING WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS.

6.0 IDENTIFICATION OF SUBMITTALS

- A. CONSECUTIVELY NUMBER ALL SUBMITTALS.
- 1. WHEN MATERIAL IS RESUBMITTED FOR ANY REASON, TRANSMIT UNDER A NEW LETTER OF TRANSMITTAL AND WITH A NEW TRANSMITTAL NUMBER. 2. ON RESUBMITTALS, CITE THE ORIGINAL SUBMITTAL NUMBER FOR REFERENCE.
- B. ACCOMPANY EACH SUBMITTAL WITH A LETTER OF TRANSMITTAL SHOWING ALL INFORMATION REQUIRED FOR IDENTIFICATION AND CHECKING.
- C. ON AT LEAST THE FIRST PAGE OF EACH SUBMITTAL, AND ELSEWHERE AS REQUIRED FOR POSITIVE IDENTIFICATION, SHOW THE SUBMITTAL NUMBER IN WHICH THE ITEM WAS INCLUDED.
- D. MAINTAIN AN ACCURATE SUBMITTAL LOG FOR THE DURATION OF THE WORK, SHOWING CURRENT STATUS OF ALL SUBMITTALS AT ALL TIMES. MAKE THE SUBMITTAL LOG AVAILABLE TO THE ENGINEER FOR HIS REVIEW UPON REQUEST.
- A. UNLESS OTHERWISE SPECIFIED, MAKE SUBMITTALS IN GROUPS CONTAINING ALL ASSOCIATED ITEMS TO ASSURE THAT INFORMATION IS AVAILABLE FOR CHECKING EACH ITEM WHEN IT IS RECEIVED.
- 1. PARTIAL SUBMITTALS MAY BE REJECTED AS NOT COMPLYING WITH THE PROVISIONS OF THE CONTRACT.

2. THE CONTRACTOR MAY BE HELD LIABLE FOR DELAYS SO OCCASIONED.

8.0 TIMING OF SUBMITTALS

7.0 GROUPING OF SUBMITTALS

- MAKE SUBMITTALS FAR ENOUGH IN ADVANCE OF SCHEDULED DATES FOR INSTALLATION TO PROVIDE TIME REQUIRED FOR REVIEWS, FOR SECURING NECESSARY APPROVALS, FOR POSSIBLE REVISIONS AND RESUBMITTALS, AND FOR PLACING ORDERS AND SECURING DELIVERY.
- B. IN SCHEDULING, ALLOW AT LEAST TWENTY-FIVE WORKING DAYS FOR REVIEW BY THE ENGINEER FOLLOWING HIS RECEIPT OF THE SUBMITTAI
- 9.0 RESUBMITTAL SCHEDULE

ORIGINAL SHEET - ARCH D

- A. FOR SUBMITTALS MARKED "FURNISH AS CORRECTED" BY THE ENGINEER, RESUBMITTAL SHALL BE WITHIN NINETY (90) DAYS OF THE REVIEW DATE SHOWN ON THE ENGINEER'S SHOP DRAWING REVIEW STAMP.
- B. FOR SUBMITTALS MARKED "REVISE AND RESUBMIT", "SUBMIT SPECIFIED ITEM", OR "REJECTED", RESUBMITTAL SHALL BE WITHIN THIRTY (30) DAYS OF THE REVIEW DATE SHOWN ON THE ENGINEER'S SHOP DRAWING REVIEW STAMP.

TOWN OF SUMMERVILLE STANDARD NOTES

- DESIGNATED AREA THAT IS ACCESSIBLE TO THE INSPECTORS.
- 2. SWPPP SHOULD INCLUDE A CONCRETE WASHOUT STAGING AREA FOR SITE AND BUILDING CONSTRUCTION AND ALL OTHER PURPOSES OF THE DEVELOPMENT TO INCLUDE BUT NOT BE LIMITED TO PAINTERS.
- 3. A CERTIFIED STORMWATER AS-BUILT MUST BE SUBMITTED TO DCPW PRIOR TO LETTER OF OCCUPANCY,
- DOCUMENTS ÁRE UPDATED BY THE ORIGINAL SWPPP PREPARER, OTHERWISE PERMITS AND APPROVALS WILL BE INVALIDATED.

CLEARING AND DEMOLITION:

- CONSTRUCTION. DISTURBED AREAS WILL BE SEEDED, MULCHED, SODDED OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL IMMEDIATELY FOLLOWING CONSTRUCTION. SITE DESIGNATED BY THE OWNER OR THE OWNER'S ENGINEER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER. THE REMAINING EARTHWORK THAT RESULTS FROM CLEARING AND GRUBBING OR SITE EXCAVATION IS TO BE UTILIZED ON-SITE IF REQUIRED, PROVIDED THAT THE MATERIAL IS DEEMED SUITABLE FOR CONSTRUCTION BY THE OWNER'S SOILS TESTING COMPANY. EXCESS MATERIAL IS TO BE EITHER STOCKPILED ON THE SITE AS DIRECTED BY THE OWNER OR OWNER'S ENGINEER, OR REMOVED FROM THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING EXCESS EARTHWORK FROM THE SITE. ACCORDANCE WITH APPLICABLE REGULATORY AGENCY REQUIREMENTS OR AS DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER.
- 1. THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR 2. THE TOP 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A 3. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN

DRAINAGE

- AND DETAILS INCORPORATED IN THIS PLAN.
- SUBMITTAL OF BID
- CONTRACTOR TO NOTIFY THE
- 8" THICK.
- 8. MORTAR SHALL BE TYPE S OR M.
- SPECIFICATIONS.
- STEP STANDARD DRAWING 719-16.
- APPROVED SUPPLIERS.
- MEANS TO RETAIN THE GRATE IN THE FRAME.
- THE DIRECTION OF FLOW IF PRACTICAL.
- AS SHOWN BY DRAWING.
- OTHERWISE SHOWN ON PLANS (SUMP).

- SUMMERVILLE MAY ASK FOR A VIDEO OF THE EXISTING STORM SYSTEM.

SWPPP MUST BE KEPT ONSITE OR WITHIN THIRTY (30) MINUTES OF THE SITE AT ALL TIMES AND IN A

CLOSEOUT PACKAGE, AND TO SCDHEC PRIOR TO RECEIVING A NOTICE OF TERMINATION 4. THE PROJECT/SITE MUST BE BUILT ACCORDING TO APPROVED TOWN AND SCHHEC PLANS UNLESS SWPPP

- 1. ALL STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE, TONGUE AND GROOVE CLASS III, UNLESS OTHERWISE NOTED ON PLANS. PIPES PERMANENTLY HOLDING WATER SHALL BE O-RING JOINTS. ALL DRAINAGE STRUCTURES SHALL BE IN ACCORDANCE WITH SCDOT STANDARDS, APPLICABLE GOVERNING AGENCY STANDARDS 2. PIPE LENGTHS SHOWN ARE APPROXIMATE AND CENTER TO CENTER ON DRAINAGE
- STRUCTURES OR TO END OF PIPE. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO 3. ALL DRAINAGE STRUCTURE GRATES AND COVERS IN RIGHT-OF-WAY SHALL BE PER SCDOT STANDARDS AND SPECIFICATIONS, LATEST EDITION, UNLESS OTHERWISE NOTED. 4. ALL STORM DRAIN PIPING SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER AND MUNICIPALITY HAVING PRIOR TO THE PLACEMENT OF BACKFILL.
- ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS. 5. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR MAY BE REQUIRED TO RECLEAN PIPES AND INLETS FOR THESE PURPOSES. 6. FOR CONSTRUCTION OF THE DROP INLET WALLS EITHER BRICK MASONRY OR CLASS 3000 CONCRETE MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6" THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK THE WALLS ARE TO BE
- 7. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6 IN. THICK CLASS 3000 CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. IN. PER FT. IS MET. 9. IF DESIRED THESE ITEMS MAY BE PRECAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX FOR ADDITIONAL DETAILS AND
- 10. REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221. 11. IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE
- 12. CASTING SHALL CONFORM TO AASHTO M 105, CLASS 35B AND THE ALTERNATE LOAD TEST OF AASHTO M 306. CASTINGS SHALL ALSO MEET THE LOADING REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION). 13. STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE
- LOADING AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON SCDOT LIST OF 14. STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. 15. STEEL GRATES AND FRAMES SHALL BE DIMENSIONED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN. MUST HAVE A POSITIVE 16. STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET FEDERAL
- SPECIFICATION RR-F-621 (LATEST EDITION). 17. MANUFACTURERS DESIRING TO BE PLACED ON THE DEPARTMENT'S APPROVAL SHEETS SHOULD CONTACT THE RESEARCH AND MATERIALS ENGINEER FOR PROCEDURES. 18. THE LONGEST DIMENSIONS OF THE OPENING IN THE IRON GRATE SHOULD BE ORIENTED IN
- 19. AS SHOWN BY THIS DRAWING THE FRAME IS SET LEVEL, BUT THE ENGINEER MAY SET SAME ON SLOPE AS REQUIRED BY LOCAL DRAINAGE CONDITIONS. 20. AFTER THE FRAME IS SET IN ITS FINAL POSITION, IT IS TO BE ENCASED WITH CONCRETE
- 21. THE INSIDE OF THE OUTLET PIPE SHALL BE FLUSH WITH FLOOR OF BASIN, UNLESS 22. THE SOFFIT (INSIDE TOP OF PIPE) OF THE OUTLET PIPE SHOULD BE NO HIGHER THAN
- THE SOFFIT OF THE INLET PIPE, UNLESS OTHERWISE SHOWN ON PLANS. 23. THE CONTRACTOR IS RESPONSIBLE FOR BEDDING ALL PIPE PER SCDOT'S "THE 2007 STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION" LATEST EDITION. 24. SHOULD THE CONTRACTOR ENCOUNTER UNSUITABLE MATERIAL. THEN THE CONTRACTOR WILL ENGAGE AN INDEPENDENT GEOTECHNICAL ENGINEER TO VERIFY UNSUITABLE MATERIAL AND MAKE RECOMMENDATIONS ON THE REMOVAL AND THE PLACEMENT AND TYPE OF NEW BEDDING AND BACKFILL MATERIAL. THE RECOMMENDATIONS BY THE INDEPENDENT GEOTECHNICAL ENGINEER SHALL BE SUBMITTED TO THE OWNER AND CIVIL ENGINEER FOR CONCURRENCE PRIOR TO PROCEEDING WITH WORK. IN ADDITION TO VIDEO INSPECTION OF THE NEW STORM DRAIN LINES, TOWN OF

PAVING AND GRADING

- ALL GRADING, MATERIALS & METHODS SHALL COMPLY WITH SCDOT STANDARDS. 2. ALL DELETERIOUS SUBSURFACE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER. THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER OR THE OWNER'S ENGINEER. EXCAVATED AREAS TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING SHEETING OR SHORING AS NECESSARY. DEWATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
- 4. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOIL TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS OR THE REFERENCED SOILS RFPORT
- 5. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS. UNLESS OTHERWISE NOTED, ALL GRADING, ROCKING AND PAVING TO CONFORM TO SCDOT
- STANDARD SPECIFICATIONS, LATEST EDITION. CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION. TREES. STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE APPROPRIATE MUNICIPAL AUTHORITY OR AS SHOWN ON THE DRAWINGS. PROTECT ALL
- ROOTS. 8. STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. IMMEDIATELY FOLLOWING FINE GRADING OPERATIONS, COMPACT SUBGRADE TO 95% OF THE
- MAXIMUM DRY DENSITY PER AASHTO T-180. 10. ALL FILLS WITHIN PUBLIC RIGHT-OF-WAYS AND EASEMENTS SHALL BE ENGINEERED ADDITIONALLY, ANY FILLS OUTSIDE OF PUBLIC RIGHT-OF-WAYS WHICH ARE OVER 2 FEET IN DEPTH SHALL BE ENGINEERED. ENGINEERED FILLS SHALL BE CONSTRUCTED IN 6" LIFTS. EACH LIFT SHALL BE COMPACTED TO 95 % OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR).
- 11. CRUSHED ROCK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 02630 (BASE AGGREGATE) SCDOT STANDARD SPECIFICATIONS. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO T-180 TEST METHOD (MODIFIED PROCTOR). A.C. PAVEMENT SHALL CONFORM TO SECTION 00745 (ASPHALT CONCRETE PAVEMENT) SCDOT STANDARD SPECIFICATIONS FOR STANDARD DUTY MIX. A.C. PAVEMENT SHALL BE COMPACTED TO A
- MINIMUM OF 91% OF MAXIMUM DENSITY AS DETERMINED BY THE RICE STANDARD METHOD. 12. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA WHEREIN THEY LIE.
- 13. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION OR OTHER ACCEPTABLE METHODS
- 14. ENGINEERED FILL MATERIAL SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER THAN 3 INCHES IN MAXIMUM DIMENSIONS AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, DEBRIS, RUBBLE AND OTHER UNSUITABLE MATERIALS. 15. IMPORTED SOILS FOR USE AS ENGINEERED FILL SHALL BE NON-EXCLUSIVE MATERIALS AND
- SHALL NOT CONTAIN ROCKS OR HARD LUMPS GREATER THAN 3 INCHES IN MAXIMUM DIMENSIONS AND SHALL BE FREE OF VEGETATION, ORGANIC MATTER, DEBRIS, RUBBLE, AND OTHER UNSUITABLE MATERIALS. 16. AGGREGATE BASE MATERIAL SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE (PER ASTM D422)	PERCENT PASSING BY WEIGHT			
1 INCH	100			
3/4	90–100			
NO. 8	35–55			
NO. 200	0–8			

- 17. ALL AREAS TO RECEIVE FILL, AND AREAS OF STRUCTURES AND PAVEMENTS, SHALL BE STRIPPED OF VEGETATION, ORGANIC MATER, DEBRIS, RUBBLE, AND OTHER UNSUITABLE MATERIALS. STRIPPED SOILS SHALL NOT BE USED IN ENGINEERED FILL, BUT MAY BE USED IN LANDSCAPE AREAS.
- ENGINEERED FILL MATERIAL SHALL BE COMPACTED TO AT LEAST THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT, PER ASTM D698 (STANDARD PROCTOR)

ENGINEERED FILL MATERIAL	MINIMUM PERCENT COMPACTION	MOISTURE CONTENT (RANGE)
NATIVE SOIL	90%	OPTIMUM TO OPTIMUM PLUS 3%
ENGINEERED FILL UNDER STRUCTURES AND BEHIND RETAINING WALLS	95%	OPTIMUM TO OPTIMUM PLUS 3%
ENGINEERED FILL UNDER PAVEMENTS	95%	OPTIMUM TO OPTIMUM PLUS 2%
FILL IN LANDSCAPE AREAS	95%	2 TO 5% ABOVE OPTIMUM

AGGREGATE BASE COURSE SHALL BE COMPACTED TO AT LEAST THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT, PER AASHTO T180 (MODIFIED PROCTOR)

ENGINEERED FILL MATERIAL	MINIMUM PERCENT COMPACTION	MOISTURE CONTENT (RANGE)
AGGREGATE BASE MATERIAL OR IMPORTED GRANULAR SOIL IN BUILDING AND PAVEMENT AREAS	100%	OPTIMUM PLUS OR MINUS 2%

- NOTE: MOISTURE CONTENT OF ENGINEERED FILL MATERIAL MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION TO PREVENT SOIL PUMPING. 18. ENGINEERED FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 6 INCHES THICK (LOOSE). 19. THE TOP 6 INCHES OF SOIL EXPOSED AT THE BOTTOM OF THE EXCAVATIONS SHALL BE

- COMPACTED, SCARIFIED AND COMPACTED AS ENGINEERED FILL PRIOR TO PLACEMENT OF ADDITIONAL FILL. 20. IF SOFT OR LOOSE SOIL IS PRESENT AT THE BASE OF EXCAVATIONS, IT SHALL BE
- EXCAVATED AND/OR COMPACTED AS ENGINEERED FILL OR AS RECOMMENDED BY THE ENGINEER'S FIELD REPRESENTATIVE. 21. IF SUBGRADE SOILS EXHIBIT PUMPING DURING COMPACTION, THE AREA SHALL BE ALLOWED
- TO DRY UNTIL THE SOLIDS BECOME WORKABLE WITHOUT PUMPING. THE MOISTURE CONTENT OF THE SOILS SHALL BE ADJUSTED TO PREVENT PUMPING. 22. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN. FINISH PAVEMENT
- GRADES AT TRANSITION TO EXISTING PAVEMENT SHALL MATCH EXISTING PAVEMENT GRADES EXPOSURE TO THE ENVIRONMENT MAY REDUCE THE STRENGTH OF SOILS IN PAVED AREAS. IF THIS OCCURS, THE SOFTENED SOILS SHALL BE REMOVED AND REWORKED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. IF RAINFALL IS EXPECTED AT A TIME WHEN BEARING SOILS IN FOOTING AREAS ARE EXPOSED, A 2 TO 4 INCH THICK LAYER OF LEAN CONCRETE MAY BE PLACED IN SUCH AREA. 23.THE SITE SHALL BE GRADED TO TRANSPORT SURFACE RUNOFF AWAY FROM THE PAVED
- AREAS. WATER SHALL NOT BE ALLOWED TO ACCUMULATE (POND) ON PAVED AREAS. 24.BACKFILL AND FILL SHALL CONFORM TO THE GENERAL REQUIREMENTS FOR SOIL MATERIALS ABOVE AND SHALL BE CLASSIFIED AS GW, GP, GM, GC, SW, SP, SM, SC, ML, CL BY ASTM D2487 AND SHALL CONFORM TO THE FOLLOWING: I. SHALL BE CAPABLE OF BEING COMPACTED TO THE SPECIFIED DEGREE OF COMPACTION WHEN THE MOISTURE CONTENT IS WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM
- PERCENT MOISTURE. 2. LIQUID LIMIT SHOULD NOT EXCEED 40 PERCENT WHEN TESTED IN ACCORDANCE WITH ASTM D4318. 3. PLASTICITY INDEX SHOULD NOT BE GREATER THAN 30 PERCENT WHEN TESTED IN
- ACCORDANCE WITH ASTM D4318. 4. NO MORE THAN 75 PERCENT BY WEIGHT SHALL BE FINER THAN NO. 200 SIEVE WHEN TESTED IN ACCORDANCE WITH ASTM D1140. 25.UNSUITABLE SOIL SHALL BE ANY SOIL MATERIALS DETERMINED BY THE INDEPENDENT
- GEOTECHNICAL LABORATORY AS NOT CONFORMING TO THE REQUIREMENTS DESCRIBED ABOVE FOR BACKFILL AND FILL. A MOISTURE CONTENT WHICH IS MORE THAN 3 PERCENTAGE POINTS FROM OPTIMUM SHALL NOT BE CONSIDERED UNSUITABLE IF SUCH MATERIALS WOULD OTHERWISE BE SUITABLE IF THE MOISTURE CONTENT WERE ADJUSTED. ADJUSTMENTS TO THE SOIL MOISTURE CONTENT BY DRYING. MIXING. ADDING WATER. OR OTHER MEANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 26.MEASUREMENT OF UNSUITABLE MATERIAL: THE VOLUME OF UNSUITABLE MATERIAL EXCAVATION SHALL BE DETERMINED BY A LICENSED SURVEYOR BY THE AVERAGE END AREA METHOD. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SCALED PLAN WITH SUFFICIENT ELEVATION POINTS TO ACCURATELY DEFINE THE VOLUME OF UNSUITABLE MATERIAL EXCAVATED. THE EXTENT OF UNSUITABLE MATERIAL EXCAVATION SHALL BE DETERMINED BY THE INDEPENDENT GEOTECHNICAL LABORATORY.
- 27.ALL PAINTED ARROWS AND OTHER SYMBOLS TO BE PER MUTCD AND SCDOT STANDARD SPECIFICATIONS. 28.BUILDING PADS SHALL BE STRIPPED AND COMPACTED TO 95% MODIFIED PROCTOR OR PER GEOTECHNICAL RECOMMENDATION, THE MORE STRINGENT OF THE TWO.

- MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. 4. 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 SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO
- ANY WATERS OF THE STATE. 5. 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 SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.

- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE; 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG,
- ETC.).
- MAINTENANCE
- ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE. 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEA PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- SAFETY:
- REGULATIONS SHALL BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE THE FEDERAL REGISTER OF THE DEPARTMENT OF TRANSPORTATION. EMPLOYEES COMPLY WITH ALL APPLICABLE REQUIREMENTS. CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH ALL OCCUPATION SAFETY AND HEALTH REGULATIONS AS WELL AS THE REGULATIONS. PARTICULAR ATTENTION MUST BE PAID TO THE CONSTRUCTION STANDARDS
- RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS PERSONNEL WITH HIS HEALTH AND SAFETY PROGRAM AND ALL OTHER APPLICABLE LEGAL AND HEALTH AND SAFETY REQUIREMENTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING IT'S EMPLOYEES AND SUB CONTRACTORS WITH ADEQUATE INFORMATION AND TRAINING TO ENSURE THAT ALL EMPLOYEES AND SUB CONTRACTORS AND SUB CONTRACTOR'S ENVIRONMENTAL PROTECTION LAWS. THE FOLLOWING IS NOT TO BE PERCEIVED AS THE ENTIRE SAFETY PROGRAM BUT JUST BASIC REQUIREMENTS. DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION RULES AN FOR EXCAVATIONS, 29 CFR PART 1926, SUBPART P.
- 1. DURING THE CONSTRUCTION AND MAINTENANCE OF THE THIS PROJECT, ALL SAFETY 2. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA IN 3. CONTRACTOR SHALL PROVIDE AND MAINTAIN HIS OWN SAFETY EQUIPMENT IN ACCORDANCE 4. ALL EXCAVATIONS BY THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE
- 5. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS. 6. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE US

- CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATION. 8. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE UTILITY COMPANIES PRIOR TO CONSTRUCTION TO OBTAIN FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
- DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. ALL SOUTH CAROLINA AMENDMENTS SHALL APPLY. 7. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATION. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE

EROSION CONTROL NOTES:

- 1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD 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.
- 2. 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, EXCEPT AS STATED BELOW.
- -WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURE MUST BE INITIATED AS SOON AS PRACTICABLE. -WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- 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. '2–300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL 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.
- 9. 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 BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER, CONSTRUCTION DEBRIS, OILS, 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 STORM WATER DISCHARGES.
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- -WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL; -WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING OTHER CONSTRUCTION MATERIALS COMPOUNDS AND -FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND -SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- 18. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST E COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND

9. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR CALLED FOR IN THIS CONTRACT.

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Notes

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Dwn.

Permit-Seal

File Name: 699 rd cover notes.dwa





Chkd. Dsgn. YY.MM.DD

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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II BID SET - ROAD

Summerville, SC

Title

PROJECT NOTES

Project No.	Scale	
178420699		
Drawing No.	Sheet	Revision
C1	2 of 17	0



Property #	<u>TMS #</u>	<u>Owners</u>	Deed Book & Page	<u>Plat Book & Pa</u>
1	137-07-22-001	Town of Summerville	None Found	None Found
3	137-07-06-002	Town of Summerville	None Found	None Found
4	137-07-07-015	Charles H. Dunning, Jr.	763-335	A-107
5	137-07-07-014	138 South Main St., LLC	8968-89	B-3
6	137-07-07-013	Main Street Partnership	1889-59	B-3
7	137-07-07-012	Main Street Partnership	1889-59	B-3
8	137-07-07-016	Chellis Building, LLC (The)	7778-121	13-115
9	137-07-07-011	Gen Partners Act I A SC	643-286	B-5
10	137-07-07-010	Elainey Y. Niketas, et al.	560-359	D-36
11	137-07-07-009	120 South Main St., LLC	7692-153	I-145
12	137-07-07-008	outheastern Property Management, Inc	2479-274	G-55
13	137-07-07-007	Betty J. Johnson	8974-144	16-25
14-A	137-07-07-005.000	Summerville Town Square Venture 5 LLC	1721-70	F-31
14-B	137-07-07-005.001	Muckenfuss Properties, LLC	8978-321	F-31
14-C	137-07-07-005.002	Norbert E. Cummings, Jr.	3271-159	F-31
14-D	137-07-07-005.003	Cummings Law Firm	6618-268	F-31
14-E	137-07-07-005.004	Two Five Ninety Nine, LLC	3549-272	F-31
14-F	137-07-07-005.005	Two Five Ninety Nine, LLC	2470-223	F-31
14-G	137-07-07-005.006	Two Five Ninety Nine, LLC	2470-223	F-31
14-H	137-07-07-005.007	Muckenfuss Properties, LLC	8798-321	F-31
14-1	137-07-07-005.008	Rutherford P. C. Smith	2470-227	F-31
14-J	137-07-07-005.009	Cross Ties LLC	4540-285	F-31
14-K	137-07-07-005.010	Robert L. Pratt, LLC	4369-122	F-31
14-L	137-07-07-005.011	Maggie Enterprises, LLC	7573-341	F-31
14-M	137-07-07-005.012	Robert L. Pratt, LLC	4369-122	F-31
14-N	137-07-07-005.013	Robert L. Pratt, LLC	4369-122	F-31
14-0	137-07-07-005.014	Ramp Patch, LLC	8636-98	G-55
15	137-07-11-001	Mark J. Deitch	3288-210	02-151
16	137-07-11-023	Red Tide Construction	9242-350	02-151
17	137-07-11-022	Anna Louise Perry	626-112	02-151
18	137-07-11-021	Robert L. Pratt LLC	5307-36	A-27
19	137-07-11-020	Beryl A. Cox	1230-245	A-27
20	137-07-11-019	Beryl A. Cox	6960-211	A-27
21	137-07-11-018	123 S. Main St., LLC	5173-213	A-27
22	137-07-11-017	Penn Properties, LLC	2963-37	A-27
23	137-07-11-016	Seventeen-A Associates, LLC	7398-54	L-141
24	137-07-11-015	Eva B. Hinson	130-107	A-27
25	137-07-11-014	Helen L. Hiott (Knight)	126-97	A-27
26	137-07-11-013	Flowertown Players, Inc.	570-158	A-27
27	137-07-11-012	139 Main Street, LLC	6567-270	L-96
28	137-07-10-001	Robert L. Pratt, LLC	3149-51	05-86



1. THE PURPOSE OF THIS DRAWING IS TO MAP THE EXISTING CONDITIONS OF HUTCHINSON SQUARE PARK AT THE INTERSECTION OF HWY. 17-A AND WEST DOTY AVENUE. IT DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE ADJACENT PARCELS. THE BOUNDARIES SHOWN FOR THE ADJACENT PARCELS ARE APPROXIMATIONS ONLY. THE ROAD/STREET/RIGHTS-OF-WAYS ARE BASED ON THE 1997 DETMOLD BASE LINE READJUSTMENT SURVEY.

2. THE HORIZONTAL AND VERTICAL DATUM FOR THIS PROJECT ARE TIED TO THE 1997 DETMOLD BASE LINE READJUSTMENT SURVEY AND NAVD 88 RESPECTIVELY. THE PROJECT HAS BEEN SCALED TO GROUND AT CSE-1 (NGS MONUMENT 'DOTY'), DETMOLD SURVEY COORDINATES: N: 100,000.00, E: 200,000.00 AND AN ELEVATION OF 72.32' NAVD 88 (U.S. SURVEY FOOT, GEOID12A). THE PROJECT HAS ALSO BEEN TIED TO STATE PLANE COORDINATES AT CSE-1 (NGS MONUMENT 'DOTY'), NAD 83 (2011 ADJ. PUBLISHED, INTERNATIONAL FOOT): N: 432,841.30, E: 2,252,844.02. TO GET GRID SCALED COORDINATES MULTIPLY BY THE COMBINED SCALE FACTOR AT CSE-1 OF 0.9998590078 FOR THIS PROJECT AREA.

3. ALL DISTANCES AND LINE WORK ARE SCALED TO GROUND.

4. NO OTHER SUBSURFACE OR ENVIRONMENTAL INVESTIGATIONS and/or SURVEYS WERE MADE FOR THIS PROPERTY; THEREFORE, THIS MAP DOES NOT REFLECT THE EXISTENCE OR NONEXISTENCE OF CONTAMINATION, ENDANGERED SPECIES, OR OTHER CONDITIONS, WHETHER NATURAL OR MANMADE, WHICH MAY AFFECT THIS PROPERTY AS POTENTIALLY REVEALED THROUGH ADDITIONAL TYPES OF

5. ALL T.M.S. NUMBERS NOTED HEREON ARE FROM THE DORCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEM (G.I.S) UNLESS NOTED OTHERWISE.

1" = 20'

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By Appd. YY.MM.DD _____ ____ **BID DOCUMENTS** KV JLL 18.01.24 By Appd. YY.MM.DD lssued

File Name:





Dwn. Chkd. Dsgn. YY.MM.DD

Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II BID SET - ROAD

Summerville, SC

Title

EXISTING CONDITIONS

Scale Project No. 1'' = 20' 178420699 Drawing No. Sheet Revision $\cap \cap$ 3 of 17



SEE SHEET C16 & C17 FOR OVERHEAD UTILITY IMPROVEMENTS



SEE SHEET C14 FOR STRIPING IMPROVEMENTS ASSOCIATED WITH EXISTING CROSSWALKS

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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II BID SET - ROAD

Summerville, SC

Title

OVERALL SITE PLAN

Project No. 178420699	Scale 1'' = 30'	
Drawing No.	Sheet	Revision
C3	4 of 17	0



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____ SAWCUT

LD LIMITS OF DISTURBANCE HARDSCAPE REMOVAL MILL AND OVERLAY

Notes

- ACCESS TO ALL SHOPS AND ENTRANCES TO THE EXISTING BUILDINGS ARE TO REMAIN THROUGH OUT CONSTRUCTION.
- CONTRACTOR TO INSTALL SIDEWALK CLOSED AND SIDEWALK DETOUR SIGNS TO DIRECT PEDESTRIANS AROUND THE CONSTRUCTION ZONE. SEE PHASING NOTES ON SHEET C2.

Revision		Ву	Appd.	YY.MM.DD
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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II bid set - road

Summerville, SC

Title

DEMOLITION - TREE PROTECTION

Project No. 178420699	Scale 1'' = 10'	
Drawing No.	Sheet	Revision
C4	5 of 17	0



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LIMITS OF DISTURBANCE --15--- EXISTING CONTOURS SILT FENCE

> DRAINAGE FLOW ARROW TEMPORARY SEEDING

DUST CONTROL

INLET FILTER BAG

Notes

SEE SHEET C7 FOR NOTES AND DETAILS.

By Appd. YY.MM.DD Revision _____ KV JLL 18.01.24 **BID DOCUMENTS** By Appd. YY.MM.DD Issued _ __ _ File Name: Dwn. Chkd. Dsgn. YY.MM.DD Permit-Seal U CAR





Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II bid set - road

Summerville, SC

Title

EROSION AND SEDIMENT CONTROL PLAN

	Proiect No.	
	178420699	1'' = 20'
	Drawing No.	Sheet
g.	C6	7 of 17

Call before you dig

Revision



INLET FILTER BAG

INSPECTION AND MAINTENANCE

- 1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
- 2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- 3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- 4. Remove accumulated sediment when silt and/or debris has built up around the filter preventing stormwater to flow through
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- 6. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them



TOWN OF SUMMERVILLE SWPPP STANDARD NOTES

1. SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE KEPT ONSITE OR WITHIN THIRTY (30) MINUTES OF THE SITE AT ALL TIMES FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS ACHIEVED. THESE ITEMS ARE TO BE IN A DESIGNATED AREA THAT IS ACCESSIBLE TO THE INSPECTORS.

DATE

GENERAL NOTES

- 2. A CERTIFIED STORMWATER AS-BUILT MUST BE SUBMITTED TO THE TOWN OF SUMMERVILLE PRIOR TO LETTER OF OCCUPANCY, CLOSEOUT PACKAGE, AND TO SCDHEC PRIOR TO RECEIVING A NOTICE OF TERMINATION
- 3. THE PROJECT/SITE MUST BE BUILT ACCORDING TO APPROVED TOWN AND SCDHEC PLANS UNLESS SWPPP DOCUMENTS ARE UPDATED BY THE ORIGINAL SWPPP PREPARER, OTHERWISE PERMITS AND APPROVALS WILL BE INVALIDATED.

TEMPORARY VEGETATION SCHEDULE

SPECIES	RATE (LBS/AC)	OPTIMUM DATES TO PLANT	REMARKS
BROWNTOP MILLET (ALONE)	40	APRIL 20 - AUGUST 15	QUICK, DENSE COVER
BROWNTOP MILLET (MIX)*	10	APRIL 20 - AUGUST 15	QUICK, DENSE COVER
RYE GRAIN (ALONE)	56	FEBRUARY - MARCH, AUGUST 15 - NOVEMBER 20	QUICK COVER
RYE GRAIN (MIX)*	10	FEBRUARY - MARCH, AUGUST 15 - NOVEMBER 20	QUICK COVER
RYE GRASS (ALONE)	50	AUGUST 10 - OCTOBER 10	COMPETITIVE, DENSE
RYE GRASS (MIX)*	8	AUGUST 10 - OCTOBER 10	COMPETITIVE, DENSE

* FOR DETAILS ON MIXES CONSULT THE CLEMSON UNIVERSITY HOME AND GARDEN RMATION CENTER AT (888) 656-9988 OR AT HTTP: //HGIC.CLEMSON.EDU

> THIS SEEDING SCHEDULE IS FOR ONLY TEMPORARY STABILIZATION IF REQUIRED. FOR PERMANENT STABILIZATION, SEE LANDSCAPE PLANS. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES. SEEDING

DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL

TEMPORARY SEEDING SCHEDULE

STRAW BALE BARRIER CONCRETE WASHOUT



- - APPROVED OTHERWISE.

CTIONAL CONCRETE WASHOUTS IS	
OUT.	

COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS



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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II BID SET - ROAD

Summerville, SC

Title

EROSION & SEDIMENT CONTROL DETAILS AND NOTES

Scale

Project No. 178420699

Drawing No.

Sheet

Revision

Know what's below.

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8 of 17





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BRICK PAVERS

ASPHALT PAVEMENT

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- THE CONTRACTOR SHALL REVIEW THE EXISTING SITE CONDITIONS PRIOR TO BIDDING AND IF ANY DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL CONTACT THE ENGINEER.
- THE LIMIT OF WORK IS CONFINED TO AREAS WITHIN THE CLEARING LIMITS UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL USE THIS DRAWING FOR STAKE
- OUT OF ALL SITE ELEMENTS IN THE FIELD AND SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO CONSTRUCTION.

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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II bid set - road

Summerville, SC

Title

SITE LAYOUT & KEY PLAN

Project No. 178420699	Scale 1'' = 10'	
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SALT FINISH CONCRETE BLUESTONE PAVING

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Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II

SITE LAYOUT & KEY PLAN

Project No. 178420699	Scale 1'' = 10'	
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1. FOR BUILT IN PLACE CONSTRUCTION OF THE CATCH BASIN, EITHER BRICK MASONRY (WALLS ONLY) OR CIP CLASS 3000 CONCRETE MAY BE USED. FOR PRECAST CONSTRUCTION: A MINIMUM OF CLASS 4000P CONCRETE SHALL BE USED. 2. CONCRETE WALLS ARE TO BE 6" THICK WITH A MINIMA REIMFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT UNLESS NOTED. FOR BICK. THE WALLS ARE TO BE 8" THICK. CONFRET BRICK AND SIMILAR SOLID UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 55. GRADE S-11. THE INTERIOR DIMENSIONS ARE TO REMAIN AS SNOWN FOR EITHER TYPE OF CONSTRUCTION. 3. THE BOTTOM SLAB OF THE BOX SHALL BE A MINIMUM OF 6" THICK REINFORCED CONCRETE (CLASS 3000 OR 4000P) WITH A REINFORCING STEEL AREA OF 0.20 SQUARE INCHES PER FOOT. WITH MESH NAT BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 6.20 SQUARE INCHES FOOT DOT IS 4. MORTAR SHALL BE TYPE S OR M.

GENERAL NOTES:

5. REINFORCING STEEL SHALL BE ASTM A-706. LOW-ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO, M 55 AND M 221. 6. SEE STANDARD DRAWING 719-550-00 FOR STEPS: WHICH ARE REQUIRED WHEN STRUCTURE DEPTH EXCEEDS 4'-6". 7. SEE STANDADO DRAWINGS 719-420-00 AND 719-425-00 FOR DEPTHS CREATER THAN 12", PRECAST CONCRETE CIRCULAR DRAINAGE STRUCTURES ARE REQUIRED WHEN THE DEPTH FROM THE TOP OF THE ORAINAGE BOX BUTTON SLAB TO THE TOP OF THE GROUND EXCEEDS 12'-0'-. S. LOGATION AND SIZE OF PIPES ARE SILE SPECIFICS, ISSE DRAINAGE PLANS, THE BOTTOM OF THE EXTON SASIN IS DE CADUTED TO THE LOWEST FLOW LINE SLEVATION OF ALL PIPES. BOTTOM SLAB IS CAST IN PLACE WITH PIPES INSTALLED, BOTTOM SLAB THICKNESS MUST BE ACHIEVED BEYNON PIPE DUTSIDE DIAMETER. 9. THE CONTRACT UNIT PRICE FOR CATCH BASINS SHALL INCLUE: THE COST OF FURNISHING ALL MATERIALS. IBULIT IN PLACE OF PRECAST, AND WORK INCIDENTAL TO THE CONSTRUCTION OF THE STRUCTURE COMPLETE IN PLACE AS SHOWN, INCLUDING THE CURB AND GUTTER, IN ACCORDANCE WITH JHE SCOOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATER EDITION).

10. CASTINGS SHALL, CONFORM TO AASHTO M 105. CLASS 35B AND THE SPECIFICATIONS OF AASHTO M 306. IOT STEEL GRAIES AND FRAME MAY BE USED IN LIEU DE CAST IRON AS LONG AS THE LOADING INDIE ILGI AND RYDRAILLO REGULTRENDIS ARE MET, AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS. IOUALIFIED PRODUCT LIST AND ARE ON THE DEPARTMENT'S LIST (b) STEEL GRAIES SHALL, BE.HET DIP GALVANIZED IN ACCOMDANCE. WITH ARSHTD M 101-STALL BE RAT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111. AND FRAMES SHALL BE DIRMINSIONED TO BE INTERCHANGEABLE WITH EACH I ION, GRATE AND, FRAME SHOWN. STELL GRATES MUST HAVE POSITIVE

2 IN THE FROMES. IMENTS OF STEEL GRATES AND FRAMES MUST MEET AASHTD M 30G, ESTRING TO BE PLACED ON THE DEPARTMENT'S OUALIFIED PRODUCT LIST MATERIALS AND RESEARCH ENGINEER FOR PROCEDURES. 12. AFTER THE FRAME AND HODD ARE SET. THE FINAL 4" OF CLASS 3000 CONCRETE IS TO BE POWHED FLUSH WITH THE OUTSIDE DEDE OF THE GATCH BASING NALL SIDES. PROVIDE PROTECTI FOR BOLTS AND NUTS AT FRAME ADJUSTNENT SLOTS. BOLTS AND NUTS SHALL WEET ASTM A-307 AN WILL BE GALVANIZED ACONDING TO AGSHTID W 232. 13. GRATE OPENINGS EXCEED $\mathcal{V}_2^{\prime\prime}$ and are not suitable for pedestrian traffic. 14, ALL MANUFACTURING PROCESS FOR THE FRAME* GRATE* AND HOOD MUST OCCUR IN THE UNITED STATES.

15_SEE_STANDARD DRAWINN FJ9-305-00 DH 719-310-00 FOR MAXIMUM PIPE DIAMETERS. THE PIPE STZES SCHWA ARE MAXIMUM FOR BRICK AND PRECAST BOXES WHEN PIPE ENTERS PERPENDICULAR AND AT CONTRA DO FIME BOX WALL. CONTRACTOR SHOLD. CONFIRM THAT PIPE USED FITS APPROPRIATELY INTO BOX. 16. additional material and labor to construct flared gutter to be included in the pay liem catch basin type 1.

PRECAST NOTES: 17. SUPPLY PRECAST CONCRETE COMPONENTS FOR DRAINAGE ITEMS AT EACH COCATION FROM A SINGLE SURCE PRECAST MANUFACTURER THAT HAS BEEN INSPECTED AND APPROVED BY THE MATERIALS AND RESEARCH ENGINEER. SUPPLY ALL INTERCHANGEABLE PRECAST PARTS ON ENTIRE PROJECT FROM SINGLE SOURCE MAULFACTURERS INTERCHANGEABLE PRECAST PARTS ON ENTIRE PROJECT FROM SINGLE SOURCE MAULFACTURERS SIGULT NOT BE INSTALLED IN INDIVIDUAL LOCATIONS. 18. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX OF STRUCTURE FOR ADDITIONAL DETAILS AND SPECIFICATIONS. 19. LIFT HOLES AND/OR DEVICES MAY BE PLACED AS NECESSARY. ALL LIFT HOLES SHALL BE GROUTED SHUT PRIOR TO COMPLETION OF THE INSTALLATION. ALL LIFTING METHODS MUST MEET OSHA REGULATIONS.

20. THE CONTRACTOR SHALL USE A SINGLE SOURCE MANUFACTURER CHOSEN FROM QUALIFIED PRODUCT LIST FOR PRECAST ITEMS ON THIS DRAWING-21, PRECAST MANUFACTURER SHALL FOLLOW QUALIFIED PRODUCT POLICY 14. 22. CONTRACTOR WAY SUBMIT DESIGN DRAWINGS AND CALCULATIONS FOR MODIFICATIONS TO THIS ITEM ON A PROJECT BY PROJECT BASIS. MODIFICATIONS TO THESE ITEMS WILL NOT BE LISTED ON ANY QUALIFIED PRODUCT LIST. SUBMIT ALL PROPOSALS FOR PROJECT SPECIFIC MODIFICATIONS TO THE RESIDENT ENSITIESE FOR REVIEW BY THE ENORMER OF RECORD. 23. JOINTS BETWEEN INSTALLED PIECES AND PRECAST ITEMS TO BE PLACED SHALL BE SEALED WITH A $^{4} \varphi^{\prime\prime}$ GROUT LIFT OR AN APPROPRIATE PLASTIC PREFORMED GASKET VEROM QUALIFIED PRODUCT LIST

27 PIPES AND BOX SHALL BE BACKFILLED AND COMPACTED AS REQUIRED BY SCOOT ISTANDARD 28. ANY LOCATION WHERE THE AROVE REQUIREMENTS CANNOT BE WET SHALL BE COMPLETED USING CAST IN PLACE MATERIALS MEETING THE REQUEREMENTS OF THIS STANDARD DRAWING. ANY ADD II IONAL MATERIALS OF COSTS ASSOLIATED WITH THE USE OF PRECAST WILL BE PAID FOR BY THE CONTRACTOR AND MAY NOT BE CHARGED ID SCODE. ZA: PRECAST CONCRETE CIRCULAR STRUCTURES LAS SHOWN ON 719-420-001 RE REQUIRED FOR THE FOLLOWING APPLICATIONS UNLESS PROHIBITED BY D THE PLANS OR SPECIAL PROVISIONS. (a) ON DRAINAGE STRUCTURES WITH A DEPTH EQUAL TO OR CREATER THAN 12 FEET.

(b) ON DRAINAGE STRUCTURES WHERE THE FLOW LINE ELEVATION OF THE INLET PIPE IS EQUAL TO OR HIGHER THAN THE INSIDE TOP (SOFFIT) OF THE DUTLET PIPE. (c) AS REQUIRED BY THE PROJECT PLANS. 30. THE PAY ITEM SHALL BE: CATCH BASIN TYPE 1

81

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PRÉCAST INSTALLATION NOTES: -24. BEO SHALL BE PREPARED AND COMPACTED FOR PRECAST DRAINAGE STRUCTURE AS REQUIRED BY SCODT STANDARD SPECIFICATIONS FOR PRECAST ITEMS. ELEVATION OF REDOING MATERIAL SHALL BE APPROPRIATE TO ACCOMMODATE ELEVATION (DR ALL PIESS AND REQUIRED BOX TOP ELEVATION.) 25. PLACE AND LEVEL PRECAST BOX. 26. PIPES SHALL BE INSTALLED AND GROUTED IN PLACE.

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XEP - EXISTING PAVEMENT ELEVATION XBL - EXISTING BUILDING ELEVATION TOC - NEW TOP OF CONCRETE CURB ELEVATION

FC - FLUSH CONCRETE CURB

Notes

NEW SIDEWALK IS TO COMPLY WITH THE MOST RECENT VERSION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN. THE CROSS SLOPE OF THE SIDE WALK SHALL NOT EXCEED 1:48 (2%) FROM THE EXISTING BUILDING TO THE TOP OF CURB ELEVATION. THE HORIZONTAL SLOPE SHALL NOT EXCEED 1:20 (5%).

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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE I BID SET - ROAD

Summerville, SC

Title

GRADING AND DRAINAGE DETAILS

Scale Project No. 178420699 Drawing No. Sheet

C13

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Revision







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BRICK PAVERS SALT FINISH CONCRETE BLUESTONE PAVING ASPHALT PAVEMENT

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- OUT OF ALL SITE ELEMENTS IN THE FIELD AND SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO CONSTRUCTION. . THE CONTRACTOR IS RESPONSIBLE FOR FINE GRADING AND PROVIDING A SMOOTH TRANSITION INTO EXISTING GRADES. GRADE TO PREVENT PONDING AND TO PROVIDE POSITIVE

DRAINAGE FROM STRUCTURES.			
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Client/Project

Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II bid set - road

Summerville, SC

Title

MAIN STREET STRIPING PLAN

Scale Project No. 1'' = 10' 178420699 Sheet Revision Drawing No. C14 0 15 of 17







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LEGEND	NOTE	S
EXISTING POWER POLE	۱.	T
EXISTING STORM DRAIN		D
PROPOSED OPEN CUT	2.	
PROPOSED DIRECTIONAL DRILL	3.	S
PROPOSED NEW LIGHT POLE (BY OTHERS)		C
PROPOSED NEW SINGLE PHASE TRANSFORMER	4.	
PROPOSED COMCAST VAULT	F	~
PROPOSED AT&T HAND HOLE	5.	U
PROPOSED AT&T PEDESTAL		
TEMPORARY HAND HOLE		
	SCE&C	З

COORDINATE ALL WORK WITH SCE&G, WOW ADN TIME WARNER CABLE

COORDINATE THE REMOVAL OF LINE WITH ALL UTILITY COMPANIES.

UTILITY CONTACT INFORMATION:				
SCE&G RICHARD GILBERT 129 SPANIEL LANE, SUMMERVILLE SC (843) 873-4552 RGILBERT@SCANA.COM	AT&T ANDY FOLZ MGR. OSP PALNNING & ENGINEERING DESIGN+ SOUTHEAST ENGINEERING 3246 FORTUNE DRIVE, N. CHARLESTON SC (843) 552-7279 AF1896@ATT.COM	WOW HERBERT DRIGGERS (843) 614-1731	TIME WARNER MICHAEL SIZEMORE (843) 285-7621 OFFICE (843) 408-8283 CELL MICHAEL.S.SIZEMORE@CHARTER.COM	

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Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II

Summerville, SC

Title

UTILITY RELOCATION PLAN

Project No. Scale 178420699 Sheet Drawing No. Revision C15 16 of 17

TYPICAL OPEN TRENCH DETAIL NOT TO SCALE



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Town of Summerville

HUTCHINSON SQUARE IMPROVEMENTS - PHASE II bid set - road

Summerville, SC

Title

UTILITY CONDUIT ROUTING SHEET

Project No. 178420699	Scale 1'' = 20'	
Drawing No.	Sheet	Revision
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