

**CONSTRUCTION NOTES:**

- WORK WITHIN PUBLIC RIGHT-OF-WAYS OR PRIVATE EASEMENTS SHALL BE ACCOMPLISHED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OR CONDITIONS OF THE ENCROACHMENT PERMIT OR OTHER LEGAL DOCUMENTS AS THOUGH DOCUMENTS WERE ISSUED IN THE CONTRACTORS NAME.
- PERMITS**  
THE CONTRACTOR IS HELD RESPONSIBLE FOR OBTAINING (PRIOR TO CONSTRUCTION) COPIES OF ANY AND ALL PERMITS THAT THE ENGINEER HAS OBTAINED AND WILL BE REQUIRED TO ADHERE TO ALL PROVISIONS OF EACH PERMIT DURING CONSTRUCTION. THE CONTRACTOR SHALL HAVE ALL NECESSARY PERMITS IN HAND BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN COPIES OF THESE DOCUMENTS ON THE SITE AT ALL TIMES.
- R/W MAINTENANCE**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF PUBLIC RIGHT-OF-WAYS DURING CONSTRUCTION OF THE PROJECT AND UNTIL THE CONTRACTOR OBTAINS AND DELIVERS TO THE OWNER A WRITTEN SIGN-OFF FROM THE TOWN, COUNTY AND/OR THE S.C.D.O.T. THAT THE PUBLIC AGENCY HAS ACCEPTED THE RIGHT-OF-WAY BACK FOR MAINTENANCE. FINAL PAYMENT AND RELEASE OF RETAINAGE WILL NOT BE MADE TO THE CONTRACTOR UNTIL WRITTEN SIGN-OFF HAS BEEN OBTAINED FROM THE APPROPRIATE PUBLIC AGENCY AND PROVIDED TO THE OWNER.
- UTILITIES LOCATION**  
DISTANCES SHOWN ON THE PLAN FOR THE DESIGNATED LOCATION OF THE PROPOSED LINE WHICH MAY BE FROM THE EDGE OF PAVEMENT OR OTHERWISE SHOWN IS INTENDED ONLY AS A DESIRED LOCATION FOR THIS INSTALLATION. HOWEVER, SHOULD A CONFLICT OCCUR DUE TO UNFORESEEN OR OTHER UTILITIES DISCOVERED THAT ARE IN CONFLICT, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE FOR ANY AND ALL INSTALLATIONS AND DEVIATIONS OF ALIGNMENT NECESSARY TO ACHIEVE A CHANGED AND SATISFACTORY LOCATION FOR THIS INSTALLATION. THE INSTALLATION COSTS THAT MAY OCCUR DUE TO ALIGNMENT CHANGES ARE CONSIDERED TO BE A PART OF THE PRICE SUBMITTED FOR PIPE INSTALLATION AND NO ADDITIONAL COMPENSATION IS ALLOWED. THE FINAL LOCATION SELECTED FOR INSTALLATION BY THE CONTRACTOR OTHER THAN WHAT IS SHOWN ON THE PLANS SHALL BE FIRST APPROVED BY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK AND ACTUAL INSTALLATION. NO UNNECESSARY OR INCONSISTENT WANDERING OF PIPE SHALL BE ALLOWED.
- EXISTING UTILITIES**  
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTENCE, LOCATION AND ELEVATION IF APPLICABLE, OF ALL EXISTING UNDERGROUND AND/OR ABOVE GROUND UTILITIES AND OTHER STRUCTURES AS SHOWN ON THIS PLAN, BOTH PRIOR TO THE BID SUBMITTAL AND DURING CONSTRUCTION. UTILITIES AND OTHER STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO WATER MAINS, WASTEWATER LINES, FORCE MAINS, TELEPHONE, T.V. CABLE, ELECTRICAL LINES, DRAINAGE PIPES, FENCES, TREES, SHRUBS, IRRIGATION LINES, GAS, SITE LIGHTING, FIRE PROTECTION LINES, STORM WATER LINES, WATER METERS, TELEPHONE PEDESTALS, POWER POLES, ETC. THE CONTRACTOR WILL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES OR STRUCTURES AND SHALL REPLACE OR REPAIR ANY DAMAGED ITEMS AT HIS EXPENSE WITH NO COST TO THE OWNER, ENGINEER OR OTHER AUXILIARY PARTIES. LOCATION OF UTILITIES ON THE PLANS WHETHER FULLY AND CORRECTLY LOCATED OR PARTIALLY OR INCORRECTLY LOCATED OR OMITTED WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OR LIABILITY FOR PROVIDING FOR ANY DEVIATION FROM THE PLANNED LOCATION AND FOR THE COMPLETE PROJECT INSTALLATION AND/OR REPAIR OF DAMAGE TO THE EXISTING UTILITIES PROVIDED BY UTILITY COMPANIES AND THE SOUTH CAROLINA UNDERGROUND UTILITIES DAMAGE PROTECTION ACT, GENERAL STATUTES 58-35, SECTIONS 20 THROUGH 120. THE CONTRACTOR SHALL CONTACT PALMETTO UTILITIES LOCATING SERVICE AT 1-800-922-0983 PRIOR TO CONSTRUCTION. INFORMATION GIVEN FOR UTILITY CONTACTS ARE FOR ADDITIONAL INFORMATION AND NOT INTENDED AS A COMPLETE LISTING. UNDERGROUND ELECTRIC, TELEPHONE AND CABLE TELEVISION LINES SHOWN ARE BASED ON ROUGH SKETCHES PROVIDED BY UTILITY COMPANIES AND ARE NOT FIELD LOCATIONS. LOCATIONS MUST BE VERIFIED. OVERHEAD AND UNDERGROUND SERVICE LINES ARE NOT SHOWN.
- PRIVATE PROPERTY UTILITY LOCATIONS**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING WITH A PRIVATE UTILITY LOCATING SERVICE IN AREAS (SUCH AS PRIVATE PROPERTY) TO BE DISTURBED THAT ARE NOT UNDER THE RESPONSIBILITY OF A PUBLIC UTILITY. FAILURE TO LOCATE THESE PRIVATE UTILITIES BY ANY PARTY WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DAMAGES.
- EXISTING UTILITIES CONFLICT**  
WHEN THE CONTRACTOR IS UNABLE TO COMPLETE HIS WORK AS SHOWN ON THE PLANS BECAUSE OF AN EXISTING UTILITY, THE CONTRACTOR SHALL STAKE THE LOCATION OF THE UTILITY PRIOR TO PROCEEDING AND CONTACT THE ENGINEER.
- CONSTRUCTION NOTIFICATION**  
THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AGENCIES, THE OWNER, THE ENGINEER AND ALL OTHER CONCERNED PARTIES WHEN CONSTRUCTION IS TO COMMENCE SO THAT SITE OBSERVATIONS AND OTHER SITE VISITS MAY BE SCHEDULED. THE CONTRACTOR SHALL ALLOW ACCESS TO THE SITE BY AGENCIES HAVING JURISDICTION.
- RECORD DRAWING INFORMATION**  
DATA REQUIRED FOR PREPARATION OF RECORD DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR AT THE TIME OF INSTALLATION. THIS DATA SHALL BE ACCUMULATED BY THE CONTRACTOR AND COORDINATED WITH THE PROJECT CONSTRUCTION OBSERVER ON A CONTINUOUS BASIS DURING THE CONSTRUCTION PERIOD AND SHALL BE SUBMITTED TO THE PROJECT CONSTRUCTION OBSERVER IN A NEAT AND LEGIBLE MANNER AFTER COMPLETION OF THE PROJECT. ALL SURVEYS NECESSARY FOR RECORD DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE RECORD DRAWING NOTES (THIS SHEET) FOR FURTHER INFORMATION.
- APPLICABLE LAWS AND SAFETY EQUIPMENT**  
ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE FEDERAL, SOUTH CAROLINA AND LOCAL ORDINANCES, REGULATIONS, SPECIFICATIONS, PERMITS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ABIDE BY ALL LOCAL, STATE AND FEDERAL SAFETY REGULATIONS AND PROVIDE ALL SAFETY EQUIPMENT NECESSARY FOR THE QUALITY AND/OR ENGINEERS REPRESENTATIVE TO PERFORM SITE OBSERVATIONS DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SAFETY CONDITIONS OF THE SITE.
- LANDSCAPE REPLACEMENT**  
REPLACE IN KIND ALL AREAS PROPERTY OWNER HAS DEVELOPED SPECIAL GRASS, TURF OR LANDSCAPING IN ALL DISTURBED AREAS TO BE REPAIRED AND NEEDED. SEE SPECIFICATIONS.
- DISTURBED DRIVEWAYS AND PAVEMENT**  
REPLACE ALL DISTURBED DRIVEWAYS AND RIGHT-OF-WAY LANDSCAPING TO ITS ORIGINAL CONDITION OR BETTER. ALL DRIVEWAYS TO BE OPEN OR UNLESS OTHERWISE NOTED BY THE CONTRACTOR TO REMOVE AND STORE DRIVEWAY MATERIAL EXCEPT ASPHALT & CONCRETE AND PLACE GABRISE MATERIAL AND REPLACE DRIVEWAY MATERIAL AT SURFACE (MINIMUM 10" DEPTH TOTAL FOR GABC PLUS MATERIAL). SEE SPECIFICATIONS, NOTES AND DETAILS FOR ASPHALT PATCH REPAIR. FOR DRIVEWAYS IN SCDOT RIGHT-OF-WAYS, PATCHED AREA TO BE RESURFACED FROM EDGE OF STREET TO THE RIGHT-OF-WAY LINE.

**CONSTRUCTION NOTES CONT.:**

- EXISTING DRAINAGE PIPE**  
ALL EXISTING DRAINAGE PIPES WILL HAVE THE INVERT ELEVATION FIELD VERIFIED AND DOCUMENTED PRIOR TO REMOVAL WITH ELEVATIONS AND LOCATION. PIPES WILL BE REESTABLISHED TO THE ELEVATION EXISTING PRIOR TO DISTURBANCE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE COSTS INCURRED FOR SUCH ACTIVITIES SHOULD BE INCORPORATED INTO THE PRICES SHOWN ON THE BID.
- TRAFFIC AND DRAINAGE**  
ALL ROADWAYS WILL BE LEFT IN A STABLE CONDITION SO THAT TRAFFIC CAN BE MAINTAINED AT THE END OF EVERY CONSTRUCTION DAY. ALL DRAINAGE SUCH AS SWALES OR CULVERTS SHALL BE REPLACED OR RESTORED IN AN OPEN OR NATURAL CONDITION AT THE END OF EVERY CONSTRUCTION DAY. DRAINAGE PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ANY DRAINAGE PIPE OR OTHER UTILITY NOT SHOWN ON THE PLANS WILL BE CROSSED WITH PAYMENT MADE IF THE PIPE WERE SHOWN ON THE PLANS.
- TRACER TAPE**  
FOIL-BACK TRACER OR MARKING TAPE IS TO BE BURIED FOR THE FULL LENGTH OF PIPE OVER ALL POTABLE WATER MAINS AND WASTEWATER FORCE MAINS INSTALLED TO A DEPTH OF APPROXIMATELY 12" AND SHALL MEET ANWWA STANDARDS AND THE LATEST APPROVED ASTM STANDARDS.
- PRIVATE PROPERTY ENCROACHMENT**  
THE CONTRACTOR SHALL NOT ENCROACH UPON PRIVATE PROPERTY WITHOUT PERMISSION FROM THE OWNER OR WITHOUT COPIES OF AN EASEMENT OR OTHER AGREEMENT. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS OR ENCROACH ON THE PROPERTY FOR CONSTRUCTION PURPOSES OR FOR ANY OTHER REASON WITHOUT THE PRIVATE PROPERTY OWNER'S PERMISSION.
- WETLANDS PROTECTION**  
THE CONTRACTOR WILL TAKE ALL PRECAUTIONS AS TO PREVENT ANY DISTURBANCES OF THE WETLANDS OTHER THAN THOSE FOR WHICH U.S. ARMY CORPS OF ENGINEERS PERMITS ARE IN HAND. HE WILL INSTALL ENGINEER APPROVED SILTATION DEVICES ALONG ANY ADJACENT WETLAND BOUNDARIES BEING DISTURBED OR NOT DISTURBED AND SHALL MAINTAIN A SUFFICIENT DISTANCE AS NOT TO ALLOW ANY SEDIMENT TO ENCROACH INTO THE WETLANDS. THE CONTRACTOR WILL NOT DIRECTLY DISCHARGE ANY WATER FROM A DEWATERING SYSTEM INTO A WATER COURSE, WETLANDS, LAKES, ETC. WITHOUT PROPER SILTATION DEVICES AND WATER CONTAINING SEDIMENT SHALL NOT BE DISCHARGED TO WETLANDS. WHERE THE CONTRACTOR IS TO INSTALL WATER AND/OR WASTEWATER LINE THROUGH THE WETLANDS, HE MUST STAY WITHIN THE BOUNDARIES AND REQUIREMENTS AS DESCRIBED IN THE U.S. ARMY CORPS OF ENGINEERS WETLANDS PERMIT, SC DHEC OCRM REQUIREMENTS AND/OR ALL REGULATIONS PERTAINING THERETO, FOR THE PROJECT. THE CONTRACTOR SHALL RESTORE THE GROUND SURFACE OF THE WETLANDS TO THE GRADES EXISTING PRIOR TO DISTURBANCE OF ANY WETLAND AS PERMITTED.
- TRENCH DEWATERING DRAINAGE**  
NO TRENCH DEWATERING DISCHARGES WILL BE ALLOWED TO FREE FLOW ALONG THE ROADWAY SURFACES. WATER COURSES RECEIVING THE DISCHARGE MUST BE CAPABLE OF HANDLING THE AMOUNT OF WATER BEING ROUTED. THE CONTRACTOR WILL NOT BE ALLOWED TO DISCHARGE WATER TO ANY PRIVATE/PUBLIC PROPERTY OR ROADWAY WITHOUT PRIOR APPROVAL AND WRITTEN PERMISSION FROM THE OWNER OR GOVERNING AUTHORITY. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY PROPERTY DAMAGE THAT IS DIRECTLY OR INDIRECTLY CAUSED FROM THE RESULTS OF TRENCH DEWATERING DISCHARGE. THE CONTRACTOR SHALL PROVIDE ADEQUATE DEVICES TO PREVENT ALL SILTATION DIRECTLY RELATED TO ANY DEWATERING WORK.
- MANHOLE RIM ADJUSTMENTS**  
ALL PRECAST CONCRETE MANHOLE SECTIONS SHALL BE ORDERED TO THE MANHOLE COVER ELEVATION SHOWN ON THE CONSTRUCTION DRAWINGS IN SUCH A WAY THAT TWO (2) BRICK COURSES (NOT ONE BRICK COURSE OR THREE BRICK COURSES) WILL BE PROVIDED UNDERNEATH THE MANHOLE FRAME AND COVER. THIS SHALL ALLOW FLEXIBILITY OF THE MANHOLE FRAME AND COVER TO BE ADJUSTED TO THE FINAL GRADE AS NECESSARY. THE BID PRICE FOR THE MANHOLES SHOULD INCLUDE BRICK COURSES AND ADJUSTMENTS. MANHOLE COVER ELEVATIONS SHALL BE SET AT 4 TO 6 INCHES BELOW GRADE ON UNPAVED STREETS.
- MANHOLE LOCATION MARKER**  
THE CONTRACTOR TO PROVIDE CONCRETE MANHOLE LOCATION MARKER AT ALL BURIED MANHOLES WITH A DISTANCE STAMPED IN A BRASS DISK, SEE DETAIL.
- SERVICE INSTALLATION**  
ALL 6 INCH SERVICE LINES SHALL HAVE A MINIMUM VERTICAL COVER (WHEN POSSIBLE) OF TWO (2) FEET WHEN CROSSING UNDER A DRAINAGE SWALE OR DITCH. ALL WASTEWATER LINES AND 6 INCH SERVICE LINES SHALL CROSS UNDER EXISTING WATER MAINS UNLESS OTHERWISE NOTED OR DIRECTED BY THE ENGINEER.
- SERVICE DEPTH**  
ALL CLEAN-OUTS SHALL HAVE A MINIMUM DEPTH OF 4.5 FEET. THE CONTRACTOR SHALL PROVIDE PROPER CLEAN-OUT DEPTH WHEN PLACING CLEAN-OUTS FOR CONNECTIONS OF EXISTING RESIDENCES OR BUSINESSES. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER IN DETERMINING THE EXISTING SERVICE LINE ELEVATION AND SHALL INSURE PROPER GRADE SO THE PROPOSED CLEAN-OUT CONNECTION CAN BE MADE. THIS IS REQUIRED FOR ALL SERVICES WHETHER SPECIFIC NOTES OR ELEVATIONS ARE SHOWN ON THE PLANS OR NOT. CLEAN-OUT LOCATIONS MAY BE REVISED IN THE FIELD WITHOUT ADDITIONAL COMPENSATION TO THE CONTRACTOR. THE CONTRACTOR SHALL INSTALL CLEAN-OUTS AT SPECIFIC INVERTS AT NO ADDITIONAL COST.
- SPECIFICATIONS**  
SEE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION.
- ROADWAY REPAIRS**  
A. ASPHALT  
B. REPAIRED ASPHALT TO 1/2" SURFACE COURSE  
C. NO. 57 FLAG, QUINCY AND GABC 1/2" SURFACE  
DIRTY BEDS - WORK TO 95% DENSITY.  
ROADWAYS SHALL BE REPAIRED TO THE WIDTHS AS EXISTING. FOR FURTHER INFORMATION SEE THE SPECIFICATIONS.
- TRAFFIC CONTROL**  
CONTRACTOR TO PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND SIGNAGE FOR EXISTING ROADWAY WORK DURING CONSTRUCTION.
- CONSTRUCTION STAKING**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING SURVEYS FOR THE CONSTRUCTION AS REQUIRED BY THE CONTRACT DOCUMENTS.
- SOIL SURVEY**  
A SURVEY FROM DDC ENGINEERS OF MYRTLE BEACH, S.C. (SEE SHEET C102)
- SOIL CONDITIONS AND AVOIDANCE OF CONSTRUCTION DELAYS**  
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE COURSE OF CONSTRUCTION. SOIL CONDITIONS DURING WET WEATHER MAY NOT BE CONDUCTIVE TO HEAVY EQUIPMENT TRAFFIC. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING SOILS IN TRAFFIC AREAS USING ROCK OR OTHER MEANS, IF NECESSARY, IN ORDER TO AVOID CONSTRUCTION DELAYS.

**ASPHALT PAVEMENT NOTES:**

- PAVEMENT SUBGRADE, BASE COURSE & ASPHALT SURFACES HAVE BEEN DESIGNED BY THE GEOTECHNICAL ENGINEER. CONTRACTOR SHALL MEET OR EXCEED THE CONSTRUCTION RECOMMENDATIONS AND REQUIREMENTS AS SPECIFIED BY THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION TESTING FOR THE ENTIRE PROJECT AS REQUIRED TO MEET THE CONTRACT DOCUMENTS, LOCAL REQUIREMENTS AND THOSE REQUIRED BY THE GEOTECHNICAL ENGINEER. ALL COST RELATED WITH TESTING AND CONSTRUCTION DOCUMENTATION SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AND PRICE. ALL TEST RESULTS WILL BE PROVIDED TO THE ENGINEER.
- ALL PAVEMENT CONSTRUCTION SHALL MEET SCDOT, LOCAL, ETS SPECIFICATIONS AND THE GEOTECHNICAL ENGINEER'S REQUIREMENTS.
- COMPACT SUBBASE TO 100% STANDARD PROCTOR.

**TEMPORARY ELECTRIC AND WATER**

- CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ELECTRIC POWER AND WATER AS NECESSARY, FOR CONSTRUCTION INCLUDING COST FOR METER INSTALLATIONS, USE AND ALL OTHER ITEMS ASSOCIATED WITH CONSTRUCTION.

**WATER AND WASTEWATER NOTES:**

- CONTRACTOR TO VERIFY LOCATIONS, ELEVATIONS, PIPE MATERIALS, ETC. OF EXISTING WATER AND WASTEWATER LINE PRIOR TO INITIATION OF WASTEWATER, WATER, STORM WATER AND OTHER UTILITIES UNDERGROUND CONSTRUCTION TO AVOID CONFLICTS AND OTHER PROBLEMS. WATER MAIN AND WASTEWATER LINE LOCATIONS WERE ESTABLISHED BASED ON FIELD SURVEY OF ABOVE GROUND UTILITIES AS SHOWN ON THE PLANS AND ON LIMITED INPUT FROM OPERATING PERSONNEL. CONTRACTOR MUST DETERMINE EXISTING CONDITIONS AND LOCATIONS PRIOR TO BEGINNING WORK. NOTIFY THE ENGINEER IMMEDIATELY WHEN DEVIATIONS FROM PLANS OCCUR.
- FOR THE WASTEWATER SERVICE TO THE BUILDING THE CONTRACTOR SHALL VERIFY ADEQUACY OF DEPTH OF THE EXISTING WASTEWATER LINE, CONNECT THE SERVICE TO THE EXISTING LINE AND EXTEND LINE WITH CLEANOUTS TO THE BUILDING AS SHOWN. CLEANOUTS TO BE SPACED PER BUILDING CODES
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF POTENTIAL UTILITY LINES CONFLICTS PRIOR TO INITIATING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY AS TO THE LOCATIONS AND ELEVATIONS PARTICULARLY FOR GRAVITY INSTALLATIONS FOR WASTEWATER AND STORMWATER PIPE.
- CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING EXACT LOCATION OF WATER & WASTEWATER SERVICES FROM BUILDING WITH ARCHITECTURAL AND PLUMBING PLANS.
- CONTRACTOR IS TO EXTEND WATER AND WASTEWATER SERVICES TO WITHIN 5' OF BUILDING AND CONNECT TO SERVICE FROM BUILDING. AT THIS POINT REDUCE WATER AND/OR WASTEWATER SERVICE LINES TO PLUMBING SIZE. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING EXACT LOCATION WITH ARCHITECTURAL PLANS AND PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS AT PROPERTY LINE AND AT BUILDING.
- PROVIDE TRAFFIC BEARING CLEAN-OUTS IN PAVEMENT AREAS. SEE DETAIL SHEET.
- CONTRACTOR IS RESPONSIBLE FOR AVOIDING WATER/WASTEWATER/GAS LINE/CONDENSATE DRAINS/DRAINAGE LINES CONFLICTS AT CROSSINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES AND COORDINATING ALL WORK WITHIN THE PROJECT AREA. THE PROJECT MAY REQUIRE THE RELOCATION OF EXISTING UTILITIES DUE TO THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL ALLOW THE UTILITY COMPANY ACCESS THROUGHOUT THE PROJECT SITE AND SHALL COORDINATE ANY AND ALL SUCH RELOCATIONS. THE CONTRACT TIME PERIOD INCLUDES TIME FOR EXISTING UTILITY RELOCATIONS AND SHALL NOT BE EXTENDED UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR IS REQUIRED TO WORK WITH AND AROUND ALL UTILITY COMPANIES DURING THE PROJECT'S CONSTRUCTION. THE FOLLOWING LIST IS PROVIDED TO ASSIST THE CONTRACTOR AND MAY NOT REPRESENT A COMPLETE LIST OF UTILITY CONTACTS FOR THE PROJECT:  
A. CITY OF ANDREWS  
B. ELECTRIC COOP  
C. TELEPHONE COMPANY  
D. INTERNET COMPANY  
E. SOUTH CAROLINA ELECTRIC AND GAS

- THE CONTRACTOR SHALL ATTEND A WATER AND WASTEWATER PRE CONSTRUCTION CONFERENCE PRIOR TO CONSTRUCTION WITH THE PROJECT ENGINEER, OWNER AND CITY OF ANDREWS REPRESENTATIVE.

**WATER NOTES:**

- BACKFLOW PREVENTION DEVICE (BPD) FOR FIRE SPRINKLER SYSTEM TO BE INSTALLED OUTSIDE BUILDING BY CONTRACTOR AND SHALL BE ON THE SCDHEC APPROVAL LIST FOR BPD'S.
- CONTRACTOR TO PROVIDE AND INSTALL TAPPING SLEEVE WITH VALVE AND TAP, DOMESTIC WATER BACKFLOW PREVENTER AND APPROPRIATE APURTENANT.
- CONTRACTOR TO INSTALL DOMESTIC WATER METER ENCLOSURE, CONTRACTOR TO PROVIDE BACKFLOW PREVENTION DEVICES ENCLOSURES.
- EXISTING CITY OF ANDREWS WATER AND WASTEWATER LINES TO REMAIN IN SERVICE THROUGHOUT THE PROJECT.

**WASTEWATER NOTES:**

- FOR MANHOLE CONNECTIONS (MAIN LINE ONLY), CONTRACTOR TO CORE EXISTING MANHOLE AND INSTALL FLEXIBLE CONNECTOR (SEE DETAIL). BREAKING AND GROUTING OF WALL NOT ALLOWED.
- FOR SERVICE CONNECTION TO EXISTING MAINS, SEE DETAILS.
- CONTRACTOR TO VERIFY ELEVATIONS OF CONFLICTS WITH EXISTING STORM SEWER PRIOR TO INITIATING CONSTRUCTION.

**CIVIL SHEET INDEX**

SHEET NO.	SHEET DESCRIPTION
C101	INDEX SHEET/ CONSTRUCTION NOTES
C102	EXISTING SITE CONDITIONS
C103	STAKING PLAN
C104	SEDIMENT AND EROSION CONTROL PLAN
C105	GRADING PLAN
C106	DRAINAGE PLAN
C107	WATER, WASTEWATER AND FIRE PROTECTION PLAN
C108	SEDIMENT AND EROSION CONTROL DETAILS
C109	SEDIMENT AND EROSION CONTROL DETAILS
C110	DRAINAGE DETAILS
C111	WATER, WASTEWATER AND FIRE LINE DETAILS
C112	SITE DETAILS
C113	STORMWATER PROFILES
C114	SCDOT SITE PLAN
C115	SCDOT DETAILS 1
C116	SCDOT DETAILS 2
C117	SCDOT DETAILS 3

**ROOF DRAIN CONNECTIONS:**

**A. GENERAL**

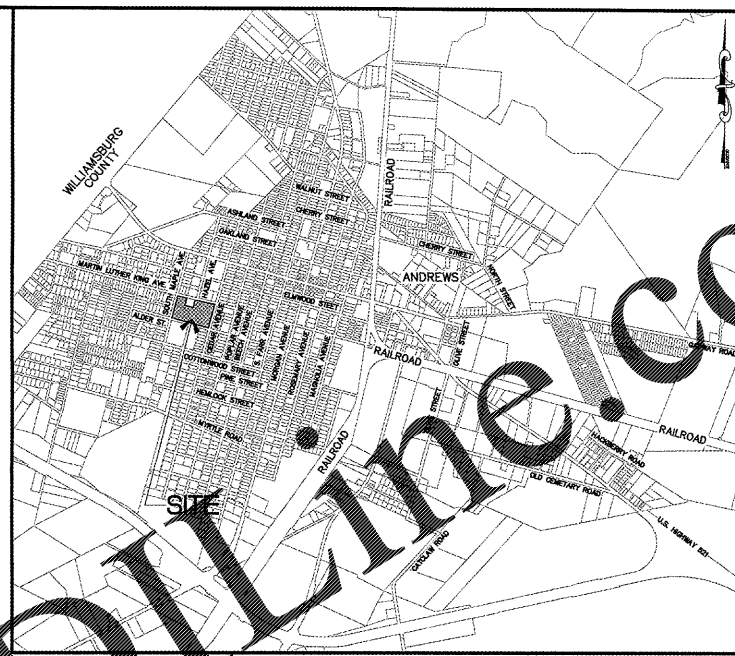
- CONTRACTOR SHALL BE RESPONSIBLE FOR STORMWATER DRAIN EXACT BUILDING CONNECTION LOCATIONS PER PLUMBING PLANS AND WILL COORDINATE WITH THE ARCHITECTURAL AND PLUMBING PLANS FOR FINAL CONNECTIONS.
- SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- PROVIDE APPROPRIATE FITTINGS SUCH AS TEES, WYES, PLUGS, ETC. FOR STORM DRAIN AND INSTALL PER MANUFACTURER RECOMMENDATIONS.

**B. HDPE PIPE SPECIFICATION (15' AND LARGER ROOF DRAINS)**

- PIPE AND FITTINGS WILL BE HIGH DENSITY POLYETHYLENE (HDPE) WITH SMOOTH INTERIOR WALLS AND CORRUGATED EXTERIOR WALLS.
- FITTINGS WILL BE DUAL WALL FITTINGS.
- HOPE PIPE AND FITTINGS WILL BE TYPE N-12 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OF HILLIARD OHIO OR ENGINEER APPROVED EQUAL.

**C. PVC PIPE (4' - 12')**

- PVC PIPE AND FITTINGS FOR STORM DRAIN SHALL BE SDR-35 (PER WASTEWATER LINE SPECIFICATIONS).



**SITE MAP - ANDREWS**

SCALE: 1" = 2000'

**UTILITY NOTES:**

- SEE UTILITY DETAIL SHEET FOR UTILITY DETAILS.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ABIDE BY ALL LOCAL, STATE & FEDERAL SAFETY REGULATIONS AND PROVIDE ALL SAFETY EQUIPMENT NECESSARY FOR THE OWNERS AND/OR ENGINEERS REPRESENTATIVE TO PERFORM SITE OBSERVATIONS DURING THE COURSE OF CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ACCURATE AS-BUILT INFORMATION AS THE PROPOSED UTILITIES ARE INSTALLED. THIS INFORMATION WILL BE PRESENTED DAILY AT THE ENGINEERS REQUEST. THE CONTRACTOR WILL VERIFY ALL INVERT ELEVATIONS FOR EACH MANHOLE AFTER THE COMPLETE INSTALLATION OF THE WASTEWATER SYSTEM IN HIS CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN THE FOLLOWING GRADES FOR THE SERVICE LINES:  
SERVICE LINE SIZE (IN.)      MINIMUM GRADE  
4"      1/4" PER FOOT  
6"      1/8" PER FOOT
- ALL GATE VALVE LIDS, FRAMES & COVERS SHALL BE BROUGHT TO GRADE OR AS DIRECTED BY THE ENGINEER. MANHOLE RIMS TO BE INSTALLED TO ALLOW FOR ONE ROW OF BRICK TO ALLOW FOR FLEXIBILITY OF FIELD ADJUSTMENT.
- THE CONTRACTOR SHALL ABIDE BY THE CITY'S TREE PROTECTION ORDINANCE.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS AS NECESSARY DURING CONSTRUCTION TO PREVENT EROSION AND SEDIMENTATION. VEGETATION ALONG EXISTING HIGHWAY DRAINAGE DITCHES TO BE MAINTAINED AS EROSION CONTROL.
- THE CONTRACTOR WILL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES OR STRUCTURES AND SHALL REPLACE OR REPAIR ALL DAMAGED ITEMS AT HIS EXPENSE WITH NO COST TO THE OWNER, ENGINEER OR OTHER PARTIES. THE EXISTING STRUCTURES OR UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT A COMPLETE LISTING, LOCATION OR DESCRIPTION OF SAID ITEMS.
- ALL ROADWAYS WILL BE LEFT IN A STABLE CONDITION SO THAT TRAFFIC CAN BE MAINTAINED AT THE END OF EVERY CONSTRUCTION DAY. ALL DRAINAGE STRUCTURES SUCH AS SWALES OR CULVERTS SHALL BE REPLACED OR RESTORED IN AN OPEN NATURAL CONDITION AT THE END OF EVERY CONSTRUCTION DAY. DRAINAGE PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
- ALL WATER LINES TO HAVE TRACER TAPE INSTALLED IN TRENCH A MINIMUM OF 12" DEEP AND A MAXIMUM OF 18" DEEP. WATER LINE SHALL ALSO HAVE COPPER INDICATOR WIRE INSTALLED, ATTACHED TO THE TOP OF THE PIPE, AND STUBBED OUT IN WALKIE BOXES.
- THE CONTRACTOR IS HELD RESPONSIBLE FOR OBTAINING (PRIOR TO CONSTRUCTION) COPIES OF ANY AND ALL PERMITS THAT THE ENGINEER HAS OBTAINED AND WILL BE REQUIRED TO ADHERE TO ALL PROVISIONS OF EACH PERMIT DURING CONSTRUCTION.
- THE SITE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND AND/OR ABOVE GROUND UTILITIES AND OTHER STRUCTURES SUCH AS, BUT NOT LIMITED TO: WATER LINES, FIRE PROTECTION LINES, WASTE-WATER LINES, SEWER FORCE MAINS, IRRIGATION LINES, TELEPHONE LINES, T.V. CABLE LINES, ELECTRICAL LINES, SITE LIGHTING, DRAINAGE PIPING, FENCES, TREES, SHRUBS, WATER METERS, TELEPHONE PEDESTALS, POWER POLES, ETC. THE CONTRACTOR WILL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES OR STRUCTURES AND SHALL REPLACE OR REPAIR ANY DAMAGED ITEMS AT HIS EXPENSE WITH NO COST TO OWNER, ENGINEER OR OTHER AUXILIARY PARTIES. THE EXISTING STRUCTURES OR UTILITIES SHOWN ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT A COMPLETE DESCRIPTION OF SAID ITEMS. LOCATION OF UTILITIES ON THE PLANS WHETHER FULLY AND CORRECTLY LOCATED OR PARTIALLY OR INCORRECTLY LOCATED OR OMITTED WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OR LIABILITY FOR DAMAGE TO THE UTILITIES. THE CONTRACTOR MUST COMPLY WITH THE SOUTH CAROLINA UNDERGROUND UTILITIES DAMAGE PREVENTION ACT, GENERAL STATUTES 58-35, SECTIONS 20 THROUGH 120.
- NO TRENCH DEWATERING DISCHARGES WILL BE ALLOWED TO FREE FLOW ALONG THE ROADWAY SURFACES. WATER COURSES RECEIVING THE DISCHARGE MUST BE CAPABLE OF HANDLING THE AMOUNT OF WATER BEING ROUTED. THE CONTRACTOR WILL NOT BE ALLOWED TO DISCHARGE WATER TO ANY PRIVATE/PUBLIC PROPERTY OR ROADWAY WITHOUT PRIOR APPROVAL AND WRITTEN PERMISSION FROM THE OWNER OR GOVERNING AUTHORITY. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY PROPERTY DAMAGE THAT IS DIRECTLY OR INDIRECTLY CAUSED FROM THE RESULTS OF TRENCH DEWATERING DISCHARGE. THE CONTRACTOR SHALL PROVIDE ADEQUATE DEVICES TO PREVENT ALL SILTATION DIRECTLY RELATED TO ANY DEWATERING WORK.
- CLEANOUTS IN PAVED AREAS ARE TO BE TRAFFIC BEARING.

Georgetown County Regional Parks Andrew Regional Recreation Center

Owner: Georgetown County 716 Prince Street Georgetown, SC 29442

SGA ARCHITECTURE  
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Mechanical, Plumbing & Electrical

Structural Consultant:

Irrigation Consultant:

Professional Engineer Seal for Michael P. Redman, No. 020439, State of South Carolina.

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Job Number: 2017024  
Date: LWF  
Drawn by: MFR  
Checked by:  
Notes:

Revisions:  
03-29-2018 ROOF DRAIN PVC NOTE  
03-29-2018 ADD UTILITY NOTES.

**CIVIL INDEX SHEET AND NOTES**  
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