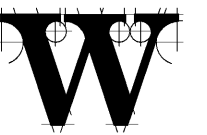




NEW CORPORATE HANGAR
 XXXX AIRPORT ROAD
 SOUTHPORT, NC 28461

FINAL DRAWINGS
 ISSUED FOR
 BIDDING

ARCHITECT



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MECHANICAL, ELECTRICAL, PLUMBING &
 FIRE PROTECTION ENGINEER

SABER ENGINEERING

2923 S. TRYON ST., SUITE 280
 CHARLOTTE, NC 28203
 (704) 373-6066

WATER & SEWER ENGINEER

MCGILL ASSOCIATES

712 VILLAGE ROAD SW, SUITE 103
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REVISIONS

DATE: JUNE 7, 2019
 PROJECT NUMBER: 9217-000

SHEET TITLE
 GENERAL NOTES SHEET

SHEET NUMBER
 WS-101

GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY ASSOCIATED WITH THE WORK RELATED TO THIS PROJECT AND FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY LAWS, CODES, REGULATIONS, AND ORDINANCES INCLUDING BUT NOT LIMITED TO THOSE CURRENTLY MANDATED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
2. THIS PLAN IS NOT INTENDED AS A SUBSTITUTE FOR THE PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATION, AND JUDGEMENT OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE COUNTY A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION OF THE WATERLINE CONNECTION TO THE EXISTING COUNTY WATERLINE. SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE COUNTY AND THE ENGINEER'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND THE SOUTHEAST BRUNSWICK SANITARY DISTRICT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION OF THE SEWER MAIN CONNECTION TO THE EXISTING SANITARY SEWER MAIN. SHALL BE PERFORMED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE SOUTHEAST BRUNSWICK SANITARY DISTRICT AND THE ENGINEER'S REPRESENTATIVE.
5. ALL TRENCHES SHALL BE SCHEDULED AND COORDINATED WITH THE ENGINEER AND LOCAL AUTHORITY AT LEAST 48 HOURS PRIOR TO MAKING THE CONNECTION.
6. THE CONTRACTOR SHALL KEEP THE ENGINEER INFORMED RELATIVE TO THE PROGRESS OF THE CONSTRUCTION. THE ENGINEER SHALL OBSERVE CONSTRUCTION ACTIVITIES AS REQUIRED BY NORTH CAROLINA GENERAL STATUTES 130A - 317. FAILURE OF THE CONTRACTOR TO KEEP THE ENGINEER INFORMED MAY REQUIRE UNCOVERING OF WORK TO VERIFY COMPLIANCE WITH PLANS AND SPECIFICATIONS. ANY COST ASSOCIATED WITH UNCOVERING WORK AND/OR VERIFYING COMPLIANCE SHALL BE BORNE BY THE CONTRACTOR.
7. ABSOLUTELY NO WORK SHALL BE PERFORMED ON PRIVATE PROPERTY BEYOND ANY AREA FOR WHICH EASEMENTS EXIST OR ARE TO BE PROVIDED BY THE OWNER FOR THE PURPOSES OF THIS PROJECT.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING THE ENGINEER WITH A SET OF RECORD (AS-BUILT) DRAWINGS. THESE DRAWINGS SHALL AT A MINIMUM SHOW THE FINAL LOCATION OF ALL INSTALLED FACILITIES.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OVERHEAD UTILITY OWNER WHEN WORKING NEAR POLES AND IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH BRACING AND SUPPORTING THE POLES DURING CONSTRUCTION. CONTACT BEVMC AT (910) 754-4391 FOR COORDINATION WITH OVERHEAD UTILITY ISSUES.
10. THIS PROJECT SHALL COMPLY WITH BRUNSWICK COUNTY & SOUTHEAST BRUNSWICK SANITARY DISTRICT DEVELOPMENT STANDARDS AND SPECIFICATIONS.
11. THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST APPLICABLE NORTH CAROLINA ADMINISTRATIVE CODE AND NCDOT POLICIES AND PROCEDURES.
12. THE SURVEY DOES NOT CERTIFY LEGAL TITLE TO THE LAND ITSELF OR TO THE BOUNDARIES SHOWN.
13. THIS PLAN DOES NOT GUARANTEE THE EXISTENCE OF UNDERGROUND UTILITIES. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION, DEPTH, AND SIZE OF OR THE NON-EXISTENCE OF ALL UNDERGROUND UTILITIES (HORIZONTAL AND VERTICAL) WHETHER OR NOT THEY ARE SHOWN ON THESE PLANS. WHERE CONFLICTS OCCUR, THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
14. OWNER AND OWNER'S CONTRACTOR SHALL COORDINATE WITH ALL FRANCHISE UTILITIES REGARDING THE RELOCATION OF EXISTING AND PROPOSED UTILITIES AS REQUIRED.
15. ANY ASPHALT, CONCRETE, CURB, GUTTER, UTILITIES, FENCE, SIGNS, ETC. DAMAGED DURING CONSTRUCTION OR DEMOLITION IS TO BE REPLACED WITH SAME BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
16. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.
17. THIS DRAWING REFLECTS THE CONDITIONS AT THE TIME OF SURVEY AND MAY NOT REPRESENT CURRENT CONDITIONS.

PROJECT UTILITY NOTES

1. NO LANDSCAPING OF ANY TYPE SHALL BE PLACED WITHIN A 3.00 FT RADIUS OF ANY FIRE HYDRANT, WATER METER, SEWER SERVICE VALVE BOX, OR ELECTRIC TRANSFORMER.
2. ALL PROPOSED UTILITIES SHALL BE LAID IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE PROJECT TECHNICAL SPECIFICATIONS. SHOULD A DISCREPANCY EXIST, THE MORE STRINGENT REQUIREMENTS SHALL CONTROL.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PIPE DIAMETER AND MATERIAL OF ALL EXISTING MAINS TO BE TAPPED PRIOR TO PURCHASING THE TAPPING SLEEVE TO INSURE PROPER SIZING.
4. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10.00 FT HORIZONTAL AND/OR 18 INCHES VERTICAL SEPARATION BETWEEN ALL WATER AND SEWER LINES (WATER OVER SEWER).
5. UTILITY TRENCHES WITHIN THE ROADWAY SHALL BE BACKFILLED WITH A MINIMUM 15R MATERIAL. TRENCH BACKFILL SHALL BE FREE OF STONES AND ANY FOREIGN MATERIAL AND SHALL BE PLACED IN SIX (6) INCH LAYERS COMPACTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
6. DETECTABLE TERRA TAPE D IS TO BE INSTALLED APPROXIMATELY (18) INCHES BELOW FINISHED GRADE AND DIRECTLY OVER ALL PIPE, 12 GAUGE STRANDED OR BRAIDED COPPER WIRE SHALL BE AFFIXED TO ALL PVC PIPE AND TIES OFF ON VALVE AND HYDRANT LEGS.
7. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER SHOULD THE DETERMINE THAT SITE CONDITIONS ARE NOT ACCURATELY REFLECTED ON THIS PLAN AND THAT SUBSEQUENT MODIFICATIONS TO THE PLANS MAY BE REQUIRED.
8. OWNER SHALL OBTAIN ALL EASEMENTS NECESSARY TO CONSTRUCT AND OPERATE THE PROPOSED SYSTEMS. COPIES OF THE EASEMENTS SHALL BE PROVIDED TO THE LOCAL DEPARTMENT FOR RECORD.

PROJECT WATER NOTES

1. THE CURRENT MCGILL ASSOCIATES PROJECT DOES NOT ADDRESS LOCAL, STATE, AND/OR FEDERAL FIRE PROTECTION REGULATIONS THAT MAY APPLY TO THIS PROJECT AS THEY RELATE TO FEATURES OF THE STRUCTURE(S) SERVED WHERE FIRE PROTECTION REGULATIONS MAY EXIST, COMPLIANCE WITH SAID REGULATIONS IS THE RESPONSIBILITY OF OWNERS.
2. ALL WATER MAINS SHALL BE CONSTRUCTED OF PVC PIPING EXCEPT WHEN DP IS SPECIFIED. FOUR (4) INCH THROUGH TWELVE (12) INCH PVC MAINS SHALL BE ANKA C900 CLASS 150 (DR-18) AND SHALL BEAR THE SEAL OF THE NSF. JOINTS SHALL CONFORM TO ASTM D3139 OR ASTM D3212.
3. 36 INCHES MINIMUM COVER SHALL BE PROVIDED OVER ALL PROPOSED WATER MAINS, AT ALL LOCATIONS, INCLUDING WITHIN DITCHES. PIPES ENCRUSTING WITHIN THE LIMITS OF THE DITCH (TOP OF BANK THROUGH TOP OF BANK) SHALL MAINTAIN A MINIMUM OF THREE (3) FEET FROM THE BOTTOM ELEVATION OF THE DITCH.
4. 36 INCHES MINIMUM COVER SHALL BE PROVIDED OVER ALL PROPOSED WATER SERVICES LINES LOCATED UNDER TRAFFIC AREAS.
5. 24 INCHES MINIMUM COVER SHALL BE PROVIDED OVER ALL PROPOSED WATER SERVICES LINES LOCATED OUTSIDE OF TRAFFIC AREAS.
6. WATER IN EXCESS OF THAT REQUIRED TO PRESSURE TEST, FLUSH, CHLORINATE, AND REFRESH IS NOT ALLOWED BY THE TECHNICAL SPECIFICATIONS SHALL BE PAID FOR BY THE CONTRACTOR. EXCESS QUANTITIES SHALL BE ESTIMATED BY THE ENGINEER.
7. FIRE HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH BRUNSWICK COUNTY STANDARDS.
8. THRUST RESTRAINTS SHALL BE PROVIDED AT ALL WATER LINE TEES, WYES, STOPS, VALVES, AND CHANGES IN PIPE SIZE, AND AS CALLED OUT ON THE DRAWINGS.
9. CONCRETE THRUST BLOCKING SHALL NOT OBSTRUCT WEAP HOLES ON ANY FIRE HYDRANT ASSEMBLY, STEEL CASING PIPE, OR BOLTS ON ANY FITTINGS.

PROJECT SEWER NOTES

1. ALL SEWER SERVICE LINES SHALL BE CONSTRUCTED OF SCH. 40 PVC UNLESS OTHERWISE SPECIFIED.
2. 36 INCHES MINIMUM COVER SHALL BE PROVIDED OVER ALL PROPOSED SEWER SERVICES LINES LOCATED UNDER TRAFFIC AREAS.
3. 24 INCHES MINIMUM COVER SHALL BE PROVIDED OVER ALL PROPOSED SEWER SERVICES LINES LOCATED OUTSIDE OF TRAFFIC AREAS.

TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL NOTIFY THE PROPER LOCAL AUTHORITIES AT LEAST 24 HOURS PRIOR TO ANY ROAD BEING CLOSED FOR CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE LOCAL FIRE DEPARTMENT, SHERIFF'S DEPARTMENT, AMBULANCE, AND LOCAL EMERGENCY MANAGEMENT AGENCY.
2. TRAFFIC CONTROL SHALL BE IN COMPLIANCE WITH THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, ROADWAY STANDARD DRAWINGS, AND THE MUTCD.
3. ONCE THE TRAFFIC CONTROL HAS BEEN INSTALLED AND BEFORE WORK BEGINS, THE CONTRACTOR SHOULD OBSERVE TRAFFIC FLOW AND MOVEMENTS. IF PROBLEMS OCCUR OR ARE ANTICIPATED, THE CONTRACTOR SHALL MAKE APPROPRIATE CHANGES TO THE TRAFFIC CONTROL MEASURES BEFORE WORK BEGINS.
4. ALL WORK SHALL BE ARRANGED IN A MANNER THAT WILL CAUSE A MINIMUM OF DISTURBANCE TO VEHICULAR AND PEDESTRIAN TRAFFIC. ADEQUATE INGRESS AND EGRESS TO BOTH PRIVATE AND PUBLIC PROPERTY SHALL BE PROVIDED BY THE CONTRACTOR DURING ALL STAGES OF CONSTRUCTION.
5. ALL ROADWAY AND PARKING SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE LATEST MUTCD.

SOUTHEAST BRUNSWICK SANITARY DISTRICT NOTES

GENERAL NOTES

1. THE ENGINEER HAS MADE REASONABLE ATTEMPTS TO LOCATE EXISTING UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD-VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO NOTIFY ANY CONFLICTS. ANY DAMAGE TO UTILITIES INCURRED DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ULODC TELEPHONE NUMBER: 1-800-632-4949.
2. MINIMUM SEPARATION DISTANCES BETWEEN WATER AND SEWER LINES:
 - a. WATER OVER SANITARY SEWER - MINIMUM OF 18" HORIZONTAL
 - b. STORM SEWER - 24" VERTICAL
3. D.I.P. WITH JOINTS EQUIPPED TO WATER SERVICE STANDARDS MAY BE SUBSTITUTED WHERE SEPARATION DISTANCES BETWEEN THE SANITARY AND STORM SEWERS OR WATER LINES CANNOT BE MAINTAINED. PIPE MATERIAL SHALL BE LAID SUCH THAT FULL SECTIONS OF PIPE ARE CENTERED ON THE CROSSING AND EXTEND A DISTANCE OF 10' ON EACH SIDE OF THE POINT OF CROSSING.
4. PROPOSED EROSION CONTROL MEASURES MUST BE MAINTAINED DURING THE ENTIRE CONSTRUCTION PERIOD. EROSION AND LOSS OF SOIL ON ADJACENT STREETS MUST BE CONTROLLED THROUGHOUT. CLEANING OF DISTURBED EARTH AREAS MUST BE STABILIZED WITHIN 21 CALENDAR DAYS FROM THE COMPLETION OF GRADING ACTIVITIES ACCORDING TO SECTION 02930, SEEDING AND MULCHING.
5. PAVING, PARKING AND SURFACING MUST BE COMPLETED WITHIN 5 DAYS AFTER COMPLETION OF GRADING ACTIVITIES. PATCH AREAS CAN BE MAINTAINED WITH TEMPORARY PAVEMENT PATCHING UNTIL PERMANENT PATCHING IS COMPLETE.

GRAVITY SEWER NOTES

- DISTANCES NOTED ON PLANS ARE FROM CENTERLINE TO CENTERLINE OF MANHOLES.
- ALL MANHOLE ROW ELEVATIONS ARE APPROXIMATE. MAKE MANHOLE COVERS FLUSH, OR SLIGHTLY ABOVE FINISH GRADE. THE SURROUNDING GRADE SHOULD BE SLOPED AWAY FROM THE COVER TO PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM THE MANHOLE COVER. THIS MUST BE PROVIDED ON ALL INSTALLATIONS UNLESS NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
3. SEWER SERVICE LATERALS ARE SHOWN AT ANTICIPATED LOCATIONS. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH PROPERTY OWNERS TO BEST SERVE THE PROPERTY.
 4. N.C.D.O.T. CLASS I RIPRAP SHALL BE PLACED AT ALL CREEK CROSSINGS ON DISTURBED CREEK BEDS AND BANKS. THE TOP OF RIPRAP PLACED SHALL BE FLUSH WITH EXISTING CREEK BED AND BANKS. WIDTH OF RIPRAP - WIDTH OF DISTURBED AREA OR MINIMUM 10'. SEE PLANS FOR RIPRAP THICKNESS.

EROSION CONTROL NOTES

1. MAINTENANCE OF EROSION CONTROL DEVICES IS THE CONTRACTOR'S RESPONSIBILITY. AFTER EACH RAIN STORM THE DEVICES SHALL BE INSPECTED FOR DAMAGE AND REPAIRS MADE AS NEEDED. ANY SILT ACCUMULATION SHALL BE REMOVED IMMEDIATELY AND PROPERLY DISPOSED OF.
2. RESEED AND MULCH DISTURBED AREAS AS GRADING IS COMPLETED ALONG ALL CONSTRUCTION. ALL DISTURBED AREAS MUST BE VEGETATED OR OTHERWISE STABILIZED WITHIN 21 CALENDAR DAYS AFTER BEING DISTURBED. THE CONTRACTOR SHALL UTILIZE THE SEEDING AND MULCHING SCHEDULES SHOWN ON THE DRAWINGS.
3. AFTER COMPLETE STABILIZATION OF DISTURBED AREAS AND AS DIRECTED BY THE ENGINEER, REMOVE EROSION CONTROL DEVICES FROM THE SITE.

PROJECT REFERENCE

TOPOGRAPHIC SURVEY:	EAST COAST ENGINEERING & SURVEYING, PC
BOUNDARY & EASEMENTS:	TALBERT & BRIGHT

UTILITY PROVIDERS

ELECTRIC:	BEVMC	(910) 754-4391
FIRE:	BRUNSWICK COUNTY	910-253-2500
SEWER:	BRUNSWICK COUNTY	910-253-2500
SEWER:	SOUTHEAST BRUNSWICK SANITARY DIST	910-457-0006

PROJECT PERMITTING

1. OWNER AND OWNER'S REPRESENTATIVE SHALL ACQUIRE ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL SECURE AND MAINTAIN ON SITE A COPY OF EACH PERMIT AND ADHERE TO ALL PERMIT CONDITIONS.
3. THIS PROJECT SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL STORMWATER AND EROSION CONTROL PERMITTING PROGRAMS.



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