

**WORK AUTHORIZATION # CM1654-WA01
 NASSAU COUNTY
 BOARD OF COUNTY COMMISSIONERS
 RFQ/BID NO. NC10-004**

Consultant:	McCranie & Associates, Inc.
Contract Number:	CM1654
Contact Name:	Dan McCranie
Contact Number:	904-335-8685
Email:	dan@mccranie-engineers.com

CURRENT WORK AUTHORIZATION			
Project Short Title: Design services for the 14th Street Intersection Improvements – from Hickory Street to Atlantic Avenue.			
		CONTRACT OVERVIEW	
Date Submitted	02/04/11	Total of Previous Authorizations	\$0.00
Amount	\$247,154.00	This Work Authorization	\$247,154.00
Scheduled Completion	11/04/11 <u>Nine (9)</u> Months from NTP	Current Contract Total	\$247,154.00

This Work Authorization is to the AGREEMENT between Nassau County and the Consultant known as the Continuing Contract for Professional Engineering Services for Nassau County, Florida, dated September 8, 2010. The services to be provided under this Work Authorization are as follows:

ARTICLE 1. Services Described as:

Design services and preparation of complete set of construction contract plans and technical specifications for the 14th Street Intersection Improvements – from Hickory Street to Atlantic Avenue pursuant to the Scope of Services attached hereto as Exhibit “A”. Post design services are not included within the scope of services for this Work Authorization.

ARTICLE 2. Time Schedule

McCranie & Associates shall begin upon ~~full execution of this Work Authorization~~ issuance of the Notice to Proceed (NTP) and submit the final design no later than nine (9) months from the date the NTP was issued (~~see Exhibit “B”~~).

ARTICLE 3. Budget

McCranie & Associates shall complete the design for a lump sum cost of \$247,154.00 (see Exhibit “B”).

Article 4. Other Provisions

The Services covered by this Work Authorization will be performed in accordance with the provisions set forth in the AGREEMENT referenced above and any of its attachments or schedules. This Work Authorization will become a part of the referenced AGREEMENT when executed by both parties.

In presenting this Work Authorization, Consultant agrees that:

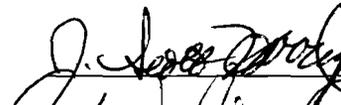
Unless detailed herein, all drawings, data, electronic files and other information required for this Work Authorization has been accepted by Consultant. Specifically, all electronic files have been reviewed and accepted for the purposes of this Work assignment. Any additional information, including detailed scope of services is attached.

AGREED TO BY:

BY: 
Print Name: Daniel McCrone
Title: President
Date: 2-28-11

RECOMMENDED AND APPROVED BY NASSAU COUNTY:

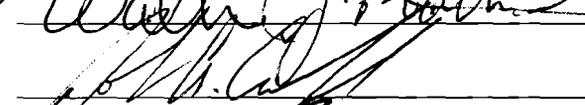
Public Works Director:



Board of County Commissioners, Chair:



Ex-Officio Clerk:



County Attorney:

EBK 2/28/11
AS 3/1/11



**ATTEST AS TO CHAIRMAN'S
SIGNATURE ONLY**

APPROVED by the BOARD OF COUNTY COMMISSIONERS, the 28th day of February, 2011.

SEPTEMBER 22, 2010

EXHIBIT A



SCOPE OF SERVICES

FOR

**14TH ST. INTERSECTION IMPROVEMENTS - FROM HICKORY ST. TO
ATLANTIC AVE.**

NASSAU COUNTY

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SCOPE OF SERVICES FOR CONSULTING ENGINEERING SERVICES

1 PURPOSE

THE PURPOSE OF THIS EXHIBIT IS TO DESCRIBE THE SCOPE OF WORK AND THE RESPONSIBILITIES OF THE CONSULTANT AND THE COUNTY IN CONNECTION WITH THE DESIGN AND PREPARATION OF A COMPLETE SET OF CONSTRUCTION CONTRACT PLANS AND TECHNICAL SPECIFICATIONS, FOR:

IMPROVEMENTS TO THE TRANSPORTATION FACILITY DESCRIBED HEREIN 14TH ST. INTERSECTION IMPROVEMENTS - FROM HICKORY ST. TO ATLANTIC AVE.

THE GENERAL OBJECTIVE IS FOR THE CONSULTANT TO PREPARE A SET OF PLANS TO BE USED BY THE CONTRACTOR TO BUILD THE PROJECT, AND BY THE COUNTY TO ENSURE THE PROJECT IS BUILT AS DESIGNED AND TO SPECIFICATIONS.

THE SCOPE OF SERVICES ESTABLISHES WHICH ITEMS OF WORK DESCRIBED IN THE FDOT GREEN BOOK AND OTHER PERTINENT MANUALS TO ACCOMPLISH THE WORK ARE SPECIFICALLY INCLUDED IN THIS CONTRACT, AND ALSO WHICH OF THE ITEMS OF WORK WILL BE THE RESPONSIBILITY OF THE CONSULTANT OR THE COUNTY.

ALL PLANS AND DESIGN DOCUMENTS ARE TO BE PREPARED WITH STANDARD ENGLISH VALUES IN ACCORDANCE WITH ALL APPLICABLE COUNTY MANUALS AND GUIDELINES.

2 PROJECT DESCRIPTION

THE CONSULTANT SHALL INVESTIGATE THE STATUS OF THE PROJECTS AND BECOME FAMILIAR WITH CONCEPTS AND COMMITMENTS (TYPICAL SECTIONS, ALIGNMENTS, ETC.) DEVELOPED FROM PRIOR STUDIES. IF A PRELIMINARY ENGINEERING REPORT IS AVAILABLE FROM A PRIOR OR CURRENT PROJECT DEVELOPMENT AND ENVIRONMENTAL (PD&E) STUDY, THE CONSULTANT SHALL USE THE APPROVED CONCEPTS AS A BASIS FOR THE DESIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.

THE PROJECT SCOPE IS BASED UPON RECOMMENDATIONS FROM A TRAFFIC IMPACT STUDY, DATED 09/09/10, BY KING ENGINEERING. THESE IMPROVEMENTS INCLUDE:

ADDITION OF A NB RIGHT TURN LANE AND SB LEFT TURN LANE ON 14TH ST. AND EXTENDING THE WB LEFT TURN LANE ON HICKORY ST.

ADDITION OF A NB AND SB LEFT TURN LANE ON 14TH ST AT THE INTERSECTION OF FIR ST.

ADDITION OF A NB LEFT TURN LANE ON 14TH ST AT THE INTERSECTION OF ELM ST.

ADDITION OF A NB RIGHT TURN LANE ON 14TH ST AND THE LENGTHING OF THE WB LEFT TURN LANE ON ATLANTIC AVE.

DESIGN OF SIDEWALKS (IF POSSIBLE) FROM HICKORY ST TO BEECH ST.

DESIGN OF SINGLE MAST ARM AND NEW SIGNALIZATION OF THE INTERSECTION AT BEECH ST. AND 14TH ST.

THE ESTIMATED TIME TO COMPLETE THE DESIGN PORTION OF THIS PROJECT IS SEVEN TO NINE MONTHS. THIS SCHEDULE WILL BE EFFECTED BY THE PUBLIC INPUT PORTION OF THE PROJECT. AFTER THE PUBLIC MEETINGS ARE COMPLETED, A MORE DEFINITIVE SCHEDULE WILL BE SUBMITTED TO THE COUNTY.

2.1 ROADWAY (ACTIVITIES 3.0, 4.0, AND 5.0)

PUBLIC INVOLVEMENT: CONSULTANT SHALL PREPARE A POWERPOINT PRESENTATION AS WELL AS OTHER PRELIMINARY DESIGN DOCUMENTS IN ORDER FOR THE CITY AND COUNTY COMMISSION TO EVALUATE THE ADDITION OF SIDEWALKS TO THE PROPOSED SCOPE. CONSULTANT SHALL CREATE INDIVIDUAL SKETCHES FOR EACH PROPERTY AFFECTED, AND MAIL THEM TO THE PROPERTY OWNER. CONSULTANT SHALL ATTEND UP TO 4 PUBLIC MEETINGS AND PERFORM FOLLOW UP FROM ANY ACTION ITEMS REQUESTED DURING THE MEETINGS.

SPECIFICATION PACKAGE PREPARATION: CONSULTANT SHALL PREPARE A FINAL SPECIFICATION PACKAGE, MEETING ALL COUNTY REQUIREMENTS.

PLAN TYPE: PLANS SHALL BE CREATED IN PLAN VIEW ONLY (40 SCALE), CROSS SECTIONS SHALL BE DESIGNED EVERY 50 FEET.

LIMITS: 14TH ST. FROM 200' SOUTH OF HICKORY ST. TO ATLANTIC AVE.

TYPICAL SECTION: 14TH ST: TWO-LANE UNDIVIDED URBAN CURB AND GUTTER, 4-FOOT SHOULDER, 5-FOOT SIDEWALK (IF POSSIBLE) BOTH DIRECTIONS.

PAVEMENT DESIGN: ONE PAVEMENT DESIGN, BASED UPON THE TRAFFIC STUDY BY KING ENGINEERING.

LEVEL OF TCP PLANS: LEVEL 1.

TEMPORARY DRAINAGE: TO BE DETERMINED.

2.2 DRAINAGE (ACTIVITY 6.0)

IT IS EXPECTED THAT THE FINAL DESIGN WILL BE OF A CURB AND GUTTER SECTION WITH A CLOSED DRAINAGE SYSTEM. THE PRELIMINARY OUTFALL LOCATIONS ARE FIR ST AND JASMINE ST.

CONSULTANT SHALL ISSUE A CERTIFICATION TO THE COUNTY, CERTIFYING THAT ALL APPLICABLE DRAINAGE CRITERIA HAVE BEEN MET.

2.3 UTILITIES COORDINATION (ACTIVITY 7.0)

IT IS ANTICIPATED THAT THE FOLLOWING UTILITY PROVIDERS MAY BE AFFECTED:

CITY OF FERNANDINA BEACH

FLORIDA PUBLIC UTILITIES

COMCAST

AT&T

CONSULTANT SHALL ISSUE A CERTIFICATION TO THE COUNTY, CERTIFYING THAT ALL COORDINATION WITH THE AFFECTED UTILITY COMPANIES HAVE BEEN COMPLETED.

2.4 PERMITS (ACTIVITY 8)

CONSULTANT SHALL SUBMIT FOR A PERMIT EXEMPTION FROM SJRWMD. NO OTHER PERMITS ARE ANTICIPATED.

2.5 STRUCTURES (ACTIVITIES 9.0 – 18.0)

NONE.

2.6 SIGNING AND PAVEMENT MARKINGS (ACTIVITY 19.0 & 20.0)

CONSULTANT SHALL PREPARE A FULL SET OF SIGNING AND PAVEMENT MARKING PLANS.

2.7 SIGNALS (ACTIVITY 21.0 & 22.0)

CONSULTANT SHALL DESIGN A SINGLE MAST ARM SIGNAL POLE FOR THE INTERSECTION OF BEECH ST. AND 14TH ST.

2.8 LIGHTING (ACTIVITY 23.0 & 24.0)

NONE.

2.9 LANDSCAPE ARCHITECTURE (ACTIVITY 25.0 & 26.0)

NONE

2.10 SURVEY (ACTIVITY 27.0)

DESIGN SURVEY: SEE ATTACHED DESCRIPTION.

2.11 PHOTOGRAMMETRY (ACTIVITY 28.0)

NONE

2.12 MAPPING (ACTIVITY 29.0)

NONE.

2.13 GEOTECHNICAL (ACTIVITY 30.0)

UP TO TEN (10) PAVEMENT CORES, AND TEN (10) SIX FOOT DEEP AUGER BORINGS WILL BE PERFORMED. LABORATORY CLASSIFICATION TESTING, INDEX PROPERTY TESTING AND LBR TESTS WILL THEN BE PERFORMED ON SAMPLES OBTAINED FROM THE BORINGS TO HELP CLASSIFY THE SOILS AND ALLOW CORRELATIONS WITH VARIOUS ENGINEERING PROPERTIES. AN ENGINEERING REPORT WILL BE PREPARED THAT WILL INCLUDE A REVIEW OF AVAILABLE PROJECT INFORMATION, A DISCUSSION AND RESULTS OF THE CONDUCTED FIELD AND LABORATORY SERVICES, A DISCUSSION OF SITE AND SUBSURFACE CONDITIONS, RECOMMENDATIONS FOR PAVEMENT MILLING DEPTH, AND RESURFACING AND RECOMMENDATIONS FOR REMEDIATION OF ANY DISTRESSED PAVEMENT.

2.14 ARCHITECTURE (ACTIVITY 31.0)

NONE

2.15 NOISE BARRIERS (ACTIVITY 32.0)

NONE

2.16 INTELLIGENT TRANSPORTATION SYSTEMS (ACTIVITIES 33 AND 34)

NONE

2.17 PROJECT SCHEDULE

WITHIN THIRTY (30) DAYS AFTER THE NOTICE-TO-PROCEED, THE CONSULTANT SHALL PROVIDE A DETAILED PROJECT ACTIVITY/EVENT SCHEDULE FOR COUNTY AND CONSULTANT SCHEDULED ACTIVITIES REQUIRED TO MEET THE CURRENT COUNTY PRODUCTION DATE. THE SCHEDULE SHALL BE BASED UPON A NINE (9) MONTH DESIGN SCHEDULE. FOR THE PURPOSE OF SCHEDULING, THE CONSULTANT SHALL ALLOW FOR A ONE WEEK REVIEW TIME FOR EACH PHASE REVIEW AND OTHER SUBMITTALS AS APPROPRIATE.

PERIODICALLY, THROUGHOUT THE LIFE OF THE PROJECT, THE SCHEDULE SHALL BE REVIEWED AND, WITH THE APPROVAL OF THE COUNTY, ADJUSTED AS NECESSARY TO INCORPORATE CHANGES IN THE WORK CONCEPT AND PROGRESS TO DATE.

THE APPROVED SCHEDULE AND SCHEDULE STATUS REPORT, ALONG WITH PROGRESS AND PAYOUT CURVES, SHALL BE SUBMITTED WITH THE MONTHLY PROGRESS REPORT.

2.18 SUBMITTALS

THE CONSULTANT SHALL FURNISH PLANS AND DOCUMENTS AS REQUIRED BY THE COUNTY TO ADEQUATELY CONTROL, COORDINATE, AND APPROVE THE PLANS. THE CONSULTANT SHALL DISTRIBUTE PHASE SUBMITTALS AS DIRECTED BY THE COUNTY. THE COUNTY WILL DETERMINE THE SPECIFIC NUMBER OF COPIES REQUIRED PRIOR TO EACH SUBMITTAL.

2.19 PROVISIONS FOR WORK

ALL MAPS, PLANS AND DESIGNS ARE TO BE PREPARED WITH ENGLISH VALUES IN ACCORDANCE WITH ALL APPLICABLE CURRENT COUNTY REQUIREMENTS, INCLUDING BUT NOT LIMITED TO:.

GENERAL

- AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
- ANY SPECIAL INSTRUCTIONS FROM THE COUNTY,
- MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS AND HIGHWAYS (GREEN BOOK)

DRAINAGE

- CROSS DRAIN
- FDOT DRAINAGE HANDBOOKS
- FDOT DRAINAGE MANUAL
- EROSION AND SEDIMENT CONTROL
- STORM DRAIN
- TEMPORARY DRAINAGE HANDBOOK

SURVEY AND MAPPING

- ALL APPLICABLE FLORIDA STATUTES AND ADMINISTRATIVE CODES
- APPLICABLE RULES, GUIDELINES CODES AND AUTHORITIES OF OTHER MUNICIPAL, COUNTY, STATE AND FEDERAL AGENCIES.
- FDOT SURVEYING PROCEDURE TOPIC 550-030-101

GEOTECHNICAL

- FHWA CHECKLIST AND GUIDELINES FOR REVIEW OF GEOTECHNICAL REPORTS AND PRELIMINARY SPECIFICATIONS
- MANUAL OF FLORIDA SAMPLING AND TESTING METHODS
- SOILS AND FOUNDATION HANDBOOK

2.20 SERVICES TO BE PERFORMED BY THE COUNTY

- WHEN APPROPRIATE THE COUNTY WILL PROVIDE PROJECT DATA CURRENTLY ON FILE.
- REGARDING ENVIRONMENTAL PERMITTING SERVICES:

APPROVE ALL CONTACTS WITH ENVIRONMENTAL AGENCIES.

PROVIDE GENERAL PHILOSOPHIES AND GUIDELINES OF THE COUNTY TO BE USED IN THE FULFILLMENT OF THIS CONTRACT. OBJECTIVES, CONSTRAINTS, BUDGETARY LIMITATIONS, AND TIME CONSTRAINTS WILL BE COMPLETELY DEFINED BY THE COUNTY.

PROVIDE THE APPROPRIATE SIGNATURES ON APPLICATION FORMS.

- PROVIDE LETTERS OF AUTHORIZATION DESIGNATING THE CONSULTANT AS AN AGENT OF THE COUNTY.
- PROVIDE PHASE REVIEWS OF PLANS AND ENGINEERING DOCUMENTS.
- PROVIDE ALL INFORMATION THAT MAY COME TO THE COUNTY PERTAINING TO FUTURE IMPROVEMENTS.

3 PROJECT COMMON AND PROJECT GENERAL TASKS

PROJECT COMMON TASKS

PROJECT COMMON TASKS, AS LISTED BELOW, ARE WORK EFFORTS THAT ARE APPLICABLE TO MANY PROJECT ACTIVITIES, 4.0 ROADWAY ANALYSIS THROUGH 32.0 NOISE IMPACT DESIGN ASSESSMENT. THESE TASKS ARE TO BE INCLUDED IN THE PROJECT SCOPE IN EACH APPLICABLE ACTIVITY WHEN THE DESCRIBED WORK IS TO BE PERFORMED BY THE CONSULTANT.

COST ESTIMATES: THE CONSULTANT SHALL BE RESPONSIBLE FOR PRODUCING A CONSTRUCTION COST ESTIMATE AND REVIEWING AND UPDATING THE COST ESTIMATE WHEN SCOPE CHANGES OCCUR AND/OR AT MILESTONES OF THE PROJECT.

FIELD REVIEWS: INCLUDES ALL TRIPS REQUIRED TO OBTAIN NECESSARY DATA

FOR ALL ELEMENTS OF THE PROJECT.

TECHNICAL MEETINGS: INCLUDES MEETINGS WITH DEPARTMENT AND/OR AGENCY STAFF, BETWEEN DISCIPLINES AND SUBCONSULTANTS, SUCH AS ACCESS MANAGEMENT MEETINGS, PAVEMENT DESIGN MEETINGS, LOCAL GOVERNMENTS, RAILROAD COMPANIES, PROGRESS REVIEW MEETINGS (PHASE REVIEW), AND MISCELLANEOUS MEETINGS. THE CONSULTANT SHALL PREPARE, AND SUBMIT TO THE DEPARTMENT'S PROJECT MANAGER FOR REVIEW, THE MEETING MINUTES FOR ALL MEETINGS ATTENDED BY THEM. THE MEETING MINUTES ARE DUE WITHIN FIVE (5) DAYS OF ATTENDING THE MEETING.

QUALITY ASSURANCE/QUALITY CONTROL: IT IS THE INTENTION OF THE COUNTY THAT DESIGN CONSULTANTS ARE HELD RESPONSIBLE FOR THEIR WORK, INCLUDING PLANS REVIEW. DETAILED CHECKING OF CONSULTANT PLANS OR ASSISTING IN DESIGNING PORTIONS OF THE PROJECT FOR THE CONSULTANT IS NOT THE INTENT OF HAVING EXTERNAL DESIGN CONSULTANTS. THE PURPOSE OF CONSULTANT PLAN REVIEWS IS TO ENSURE THAT CONSULTANT PLANS REFLECT THE INTENT OF THE SCOPE OF WORK.

THE CONSULTANT SHALL BE RESPONSIBLE FOR THE PROFESSIONAL QUALITY, TECHNICAL ACCURACY AND COORDINATION OF ALL SURVEYS, DESIGNS, DRAWINGS, SPECIFICATIONS AND OTHER SERVICES FURNISHED BY THE CONSULTANT UNDER THIS CONTRACT.

THE CONSULTANT SHALL, WITHOUT ADDITIONAL COMPENSATION, CORRECT ALL ERRORS OR DEFICIENCIES IN THE DESIGNS, MAPS, DRAWINGS, SPECIFICATIONS AND/OR OTHER SERVICES.

INDEPENDENT PEER REVIEW: A SUBCONSULTANT MAY PERFORM INDEPENDENT PEER REVIEWS.

SUPERVISION: INCLUDES ALL EFFORTS REQUIRED TO SUPERVISE ALL TECHNICAL DESIGN ACTIVITIES.

COORDINATION: INCLUDES ALL EFFORTS TO COORDINATE WITH ALL DISCIPLINES OF THE PROJECT TO PRODUCE A FINAL SET OF CONSTRUCTION DOCUMENTS.

PROJECT GENERAL TASKS

PROJECT GENERAL TASKS, DESCRIBED IN SECTIONS 3.1 THROUGH 3.7 BELOW, REPRESENT WORK EFFORTS THAT ARE APPLICABLE TO THE PROJECT AS A WHOLE AND NOT TO ANY ONE OR MORE SPECIFIC PROJECT ACTIVITY. THE WORK DESCRIBED IN THESE TASKS SHALL BE PERFORMED BY THE CONSULTANT WHEN INCLUDED IN THE PROJECT SCOPE.

3.1 PUBLIC INVOLVEMENT

PUBLIC INVOLVEMENT INCLUDES COMMUNICATING TO ALL INTERESTED PERSONS, GROUPS, AND GOVERNMENT ORGANIZATIONS INFORMATION REGARDING THE DEVELOPMENT OF THE PROJECT. THE CONSULTANT SHALL PROVIDE TO THE COUNTY DRAFTS OF ALL PUBLIC INVOLVEMENT DOCUMENTS (I.E., NEWSLETTERS, PROPERTY OWNER LETTERS, ADVERTISEMENTS, ETC.) ASSOCIATED WITH THE FOLLOWING TASKS FOR REVIEW AND APPROVAL AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO PRINTING AND / OR DISTRIBUTION.

3.1.1 COMMUNITY AWARENESS PLAN

PREPARE A COMMUNITY AWARENESS PLAN (CAP) FOR REVIEW AND APPROVAL BY THE COUNTY WITHIN 30 CALENDAR DAYS AFTER RECEIVING NOTICE TO PROCEED. THIS ITEM WILL BE REVIEWED AND UPDATED PERIODICALLY THROUGH THE LIFE OF THE PROJECT.

3.1.2 NOTIFICATIONS

NONE.

3.1.3 PREPARING MAILING LISTS

AT THE BEGINNING OF THE PROJECT, THE CONSULTANT SHALL IDENTIFY ALL IMPACTED PROPERTY OWNERS AND TENANTS (WITHIN A MINIMUM OF 100 FEET OF THE PROJECT CORRIDOR) PREPARE A MAILING LIST OF ALL SUCH ENTITIES. THE CONSULTANT SHALL UPDATE THE MAILING LIST AS NEEDED DURING THE LIFE OF THE PROJECT.

3.1.4 MEDIAN MODIFICATION LETTERS

NONE.

3.1.5 DRIVEWAY MODIFICATION LETTERS

THE CONSULTANT SHALL PREPARE A DRIVEWAY MODIFICATION LETTER TEMPLATE TO BE SENT TO PROPERTY OWNERS ALONG THE CORRIDOR. IN ADDITION, THE CONSULTANT SHALL PREPARE A SKETCH OF EACH PROPOSED DRIVEWAY MODIFICATION FOR INCLUSION IN THE LETTER. THE LETTERS WILL BE SENT BY THE COUNTY.

3.1.6 NEWSLETTERS

NONE.

3.1.7 RENDERINGS AND FLY-THROUGHS

NONE.

3.1.8 POWERPOINT PRESENTATIONS

THE CONSULTANT SHALL PREPARE POWERPOINT PRESENTATIONS FOR USE IN PUBLIC MEETINGS.

3.1.9 PUBLIC MEETING PREPARATIONS

THE CONSULTANT SHALL PREPARE THE NECESSARY MATERIALS FOR USE IN PUBLIC MEETINGS.

3.1.10 PUBLIC MEETING ATTENDANCE AND FOLLOW-UP

THE CONSULTANT SHALL ATTEND PUBLIC MEETING(S), ASSIST WITH MEETING SETUP AND TAKE DOWN. THE CONSULTANT SHALL ALSO PREPARE A SUMMARY OF THE PUBLIC MEETING THAT INCLUDES ALL COPIES OF ALL MATERIALS SHOWN OR PROVIDED AT THE PUBLIC MEETING. THE SUMMARY SHALL ALSO INCLUDE A LISTING OF ALL WRITTEN COMMENTS MADE DURING OR AFTER THE MEETING AND RESPONSES TO THOSE WRITTEN COMMENTS.

THE CONSULTANT WILL INVESTIGATE POTENTIAL MEETING SITES TO ADVISE THE COUNTY ON THEIR SUITABILITY. THE COUNTY WILL PAY ALL COSTS FOR MEETING SITE RENTS AND INSURANCE.

THE CONSULTANT WILL ATTEND THE MEETINGS WITH AN APPROPRIATE NUMBER OF PERSONNEL TO ASSIST THE COUNTY'S PROJECT MANAGER.

IT IS ESTIMATED FOR THIS PROJECT THERE WILL BE 4 PUBLIC MEETINGS DURING THE DESIGN.

3.1.11 MPO MEETINGS

NONE

3.1.12 WEB SITE

NONE.

3.2 NONE.

3.3 SPECIFICATIONS PACKAGE PREPARATION

THE CONSULTANT SHALL PREPARE AND PROVIDE A SPECIFICATIONS PACKAGE PREPARED IN ACCORDANCE WITH THE COUNTY'S REQUIREMENTS. THE SPECIFICATIONS PACKAGE SHALL ADDRESS ALL ITEMS AND AREAS OF WORK AND INCLUDE ANY MANDATORY SPECIFICATIONS, MODIFIED SPECIAL PROVISIONS, AND TECHNICAL SPECIAL PROVISIONS. THE COUNTY WILL PROVIDE THE APPLICABLE TEMPLATE TO BE USED TO PREPARE THE SPECIFICATIONS PACKAGE.

3.4 CONTRACT MAINTENANCE

CONTRACT MAINTENANCE INCLUDES PROJECT MANAGEMENT EFFORT FOR COMPLETE SETUP AND MAINTENANCE OF FILES, DEVELOPING MONTHLY PROGRESS REPORTS, SCHEDULE UPDATES, WORK EFFORT TO DEVELOP AND EXECUTE SUBCONSULTANT AGREEMENTS, ETC.

3.5 VALUE ENGINEERING (MULTI-DISCIPLINE TEAM) REVIEW

NONE

3.6 PRIME CONSULTANT PROJECT MANAGER MEETINGS

INCLUDES ONLY THE PRIME CONSULTANT PROJECT MANAGER'S TIME FOR TRAVEL AND ATTENDANCE AT ACTIVITY TECHNICAL MEETINGS AND OTHER MEETINGS LISTED IN THE MEETING SUMMARY FOR TASK 3.6 ON TAB 3.0 PROJECT GENERAL TASK OF THE STAFF HOUR FORMS. STAFF HOURS FOR OTHER PERSONNEL ATTENDING ACTIVITY TECHNICAL MEETINGS ARE INCLUDED IN THE MEETING TASK FOR THAT SPECIFIC ACTIVITY.

3.7 PLANS UPDATE

NONE.

3.8 POST DESIGN SERVICES

NONE

3.9 ELECTRONIC DELIVERY

AT THE COMPLETION OF THE PROJECT, ALL DESIGN PLANS SHALL BE SUBMITTED TO THE COUNTY IN A PDF FORMAT.

4 ROADWAY ANALYSIS

THE CONSULTANT SHALL ANALYZE AND DOCUMENT ROADWAY TASKS IN ACCORDANCE WITH ALL APPLICABLE MANUALS, GUIDELINES, STANDARDS, HANDBOOKS, PROCEDURES, AND CURRENT DESIGN MEMORANDUMS.

4.1 TYPICAL SECTION PACKAGE

THE CONSULTANT SHALL PROVIDE AN APPROVED TYPICAL SECTION PACKAGE PRIOR TO THE 60% PLANS SUBMITTAL DATE.

4.2 PAVEMENT DESIGN PACKAGE

THE CONSULTANT SHALL PROVIDE AN APPROVED PAVEMENT DESIGN PACKAGE IN ACCORDANCE WITH APPLICABLE FDOT PAVEMENT DESIGN MANUALS PRIOR TO THE 60% PLANS SUBMITTAL DATE. IF REQUIRED, PROVIDE AN APPROVED PAVEMENT TYPE SELECTION REPORT IN ACCORDANCE WITH THE FDOT PAVEMENT TYPE SELECTION MANUAL.

4.3 ACCESS MANAGEMENT

NONE.

4.4 HORIZONTAL/VERTICAL MASTER DESIGN FILES

THE CONSULTANT SHALL DESIGN THE GEOMETRICS USING THE DESIGN STANDARDS THAT ARE MOST APPROPRIATE WITH PROPER CONSIDERATION GIVEN TO THE DESIGN TRAFFIC VOLUMES, DESIGN SPEED, CAPACITY AND LEVELS OF SERVICE, FUNCTIONAL CLASSIFICATION, ADJACENT LAND USE, DESIGN CONSISTENCY AND DRIVER EXPECTANCY, AESTHETICS, PEDESTRIAN AND BICYCLE CONCERNS, ADA REQUIREMENTS, ACCESS MANAGEMENT, PD&E DOCUMENTS AND SCOPE OF WORK.

4.5 CROSS SECTION DESIGN FILES

THE CONSULTANT SHALL ESTABLISH AND DEVELOP CROSS SECTION DESIGN FILES.

4.6 TRAFFIC CONTROL ANALYSIS

THE CONSULTANT SHALL DESIGN A SAFE AND EFFECTIVE TRAFFIC CONTROL PLAN TO MOVE VEHICULAR AND PEDESTRIAN TRAFFIC DURING ALL PHASES OF CONSTRUCTION. THE DESIGN SHALL INCLUDE CONSTRUCTION PHASING OF ROADWAYS INGRESS AND EGRESS TO EXISTING PROPERTY OWNERS AND BUSINESSES, ROUTING, SIGNING AND PAVEMENT MARKINGS, AND DETOUR QUANTITY TABULATIONS, ROADWAY PAVEMENT, DRAINAGE STRUCTURES, DITCHES, FRONT SLOPES, BACK SLOPES, DROP OFFS WITHIN CLEAR ZONE, AND TRAFFIC MONITORING SITES. SPECIAL CONSIDERATION SHALL BE GIVEN TO THE CONSTRUCTION OF THE DRAINAGE SYSTEM WHEN DEVELOPING THE CONSTRUCTION PHASES. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES. THE DESIGN SHALL INCLUDE CONSTRUCTION PHASING OF ROADWAYS TO ACCOMMODATE THE CONSTRUCTION OR RELOCATION OF UTILITIES WHEN THE CONTRACT INCLUDES JOINT PROJECT AGREEMENTS (JPAS).

THE CONSULTANT SHALL CONSIDER THE LOCAL IMPACT OF ANY LANE CLOSURES OR ALTERNATE ROUTES. WHEN THE NEED TO CLOSE A ROAD IS IDENTIFIED DURING THIS ANALYSIS, THE CONSULTANT SHALL NOTIFY THE COUNTY'S PROJECT MANAGER AS SOON AS POSSIBLE. PROPOSED ROAD CLOSINGS MUST BE REVIEWED AND APPROVED BY THE COUNTY. DILIGENCE SHALL BE USED TO MINIMIZE NEGATIVE IMPACTS BY APPROPRIATE SPECIFICATIONS, RECOMMENDATIONS OR PLANS DEVELOPMENT. LOCAL IMPACTS TO CONSIDER WILL BE LOCAL EVENTS, HOLIDAYS, PEAK SEASONS, DETOUR ROUTE DETERIORATION AND OTHER EVENTUALITIES. CONSULTANT SHALL BE RESPONSIBLE TO OBTAIN LOCAL AUTHORITIES PERMISSION FOR USE OF DETOUR ROUTES.

4.7 MASTER TCP DESIGN FILES

NONE.

4.8 DESIGN VARIATIONS AND EXCEPTIONS

NONE.

4.9 DESIGN REPORT

NONE.

4.10 COMPUTATION BOOK AND QUANTITIES

THE CONSULTANT SHALL PREPARE THE COMPUTATION BOOK AND VARIOUS SUMMARY OF QUANTITIES SHEETS. THIS INCLUDES ALL EFFORTS REQUIRED TO DEVELOP THE COMPUTATION BOOK AND THE SUPPORTING DOCUMENTATION, INCLUDING CONSTRUCTION DAYS WHEN REQUIRED.

4.11 COST ESTIMATE

4.12 TECHNICAL SPECIAL PROVISIONS

4.13 OTHER ROADWAY ANALYSIS

ADDITION OF SIDEWALKS TO THE DESIGN (INCLUDES MODIFICATION OF TYPICAL SECTION, MODIFICATION OF DRAINAGE DESIGN, AND ALL OTHER ASPECTS REQUIRED IN ORDER TO DESIGN PROJECT WITH SIDEWALKS.).

4.14 FIELD REVIEWS

4.15 TECHNICAL MEETINGS

4.16 QUALITY ASSURANCE/QUALITY CONTROL

4.17 INDEPENDENT PEER REVIEW

4.18 SUPERVISION

4.19 COORDINATION

5 ROADWAY PLANS

THE CONSULTANT SHALL PREPARE ROADWAY, DRAINAGE, TRAFFIC CONTROL, UTILITY ADJUSTMENT SHEETS, PLAN SHEETS, NOTES, AND DETAILS. THE PLANS SHALL INCLUDE THE FOLLOWING SHEETS NECESSARY TO CONVEY THE INTENT AND SCOPE OF THE PROJECT FOR THE PURPOSES OF CONSTRUCTION.

5.1 KEY SHEET

5.2 SUMMARY OF PAY ITEMS INCLUDING QUANTITY INPUT

5.3 DRAINAGE MAP

- 5.5 TYPICAL SECTION SHEETS
- 5.6 GENERAL NOTES/PAY ITEM NOTES
- 5.7 SUMMARY OF QUANTITIES
- 5.10 SUMMARY OF DRAINAGE STRUCTURES
- 5.12 PROJECT LAYOUT
- 5.15 PLAN SHEET
- 5.21 MISCELLANEOUS DETAIL SHEETS
- 5.22 DRAINAGE STRUCTURE SHEET (PER STRUCTURE)
- 5.23 MISCELLANEOUS DRAINAGE DETAIL SHEETS
- 5.30 CROSS SECTIONS
- 5.31 TRAFFIC CONTROL PLAN SHEETS
- 5.33 TRAFFIC CONTROL DETAIL SHEETS
- 5.34 UTILITY ADJUSTMENT SHEETS
- 5.36 EROSION CONTROL PLAN
- 5.37 SWPPP
- 5.40 UTILITY VERIFICATION SHEET (SUE DATA)
- 5.41 QUALITY ASSURANCE/QUALITY CONTROL
- 5.42 SUPERVISION

6 DRAINAGE ANALYSIS

THE CONSULTANT SHALL ANALYZE AND DOCUMENT DRAINAGE TASKS IN ACCORDANCE WITH ALL APPLICABLE MANUALS, GUIDELINES, STANDARDS, HANDBOOKS, PROCEDURES, AND CURRENT DESIGN MEMORANDUMS.

THE CONSULTANT SHALL BE RESPONSIBLE FOR DESIGNING A DRAINAGE AND STORMWATER MANAGEMENT SYSTEM. ALL DESIGN WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE REGULATORY AGENCIES AND THE COUNTY'S DRAINAGE MANUAL.

THE CONSULTANT SHALL COORDINATE FULLY WITH THE APPROPRIATE PERMITTING AGENCIES AND THE COUNTY'S STAFF. ALL ACTIVITIES AND SUBMITTALS SHOULD BE COORDINATED THROUGH THE COUNTY'S PROJECT MANAGER. THE WORK WILL INCLUDE THE ENGINEERING ANALYSES FOR ANY OR ALL OF THE FOLLOWING:

6.1 DETERMINE BASE CLEARANCE WATER ELEVATION

ANALYZE, DETERMINE, AND DOCUMENT HIGH WATER ELEVATIONS WHICH WILL BE USED TO SET ROADWAY PROFILE GRADE. DETERMINE SURFACE WATER ELEVATIONS AT CROSS DRAINS, FLOODPLAINS, OUTFALLS AND ADJACENT STORMWATER PONDS. DETERMINE GROUNDWATER ELEVATIONS AT INTERVALS BETWEEN THE ABOVE-MENTIONED SURFACE WATERS.

6.7 DESIGN OF STORMWATER MANAGEMENT FACILITY (ROADSIDE DITCH AS LINEAR POND OR INFIELD POND)

DESIGN STORMWATER MANAGEMENT FACILITIES TO MEET REQUIREMENTS FOR STORMWATER QUALITY TREATMENT AND ATTENUATION. DEVELOP PROPOSED POND LAYOUT (SHAPE, CONTOURS, SLOPES, ETC.), PERFORM ROUTING CALCULATIONS, AND DESIGN THE OUTLET CONTROL STRUCTURE.

6.9 DESIGN OF STORM DRAINS

DEVELOP A "WORKING DRAINAGE MAP", DETERMINE RUNOFF, INLET LOCATIONS, AND SPREAD. CALCULATE HYDRAULIC LOSSES (FRICTION, UTILITY CONFLICT AND, IF NECESSARY, MINOR LOSSES). DETERMINE DESIGN TAILWATER AND, IF NECESSARY, OUTLET SCOUR PROTECTION.

6.13 DRAINAGE DESIGN DOCUMENTATION REPORT

COMPILE DRAINAGE DESIGN DOCUMENTATION INTO REPORT FORMAT. INCLUDE DOCUMENTATION FOR ALL THE DRAINAGE DESIGN TASKS AND ASSOCIATED MEETINGS AND DECISIONS.

6.16 COST ESTIMATE

6.19 FIELD REVIEWS

6.20 TECHNICAL MEETINGS

6.21 QUALITY ASSURANCE/QUALITY CONTROL

6.22 INDEPENDENT PEER REVIEW

6.23 SUPERVISION

6.24 COORDINATION

7 UTILITIES

THE CONSULTANT SHALL IDENTIFY UTILITY FACILITIES AND SECURE AGREEMENTS, UTILITY WORK SCHEDULES, AND PLANS FROM THE UTILITY AGENCY OWNERS (UAO) ENSURING NO CONFLICTS EXIST BETWEEN UTILITY FACILITIES AND THE COUNTY'S CONSTRUCTION PROJECT. THE CONSULTANT SHALL CERTIFY ALL UTILITY NEGOTIATIONS HAVE BEEN COMPLETED WITH ARRANGEMENTS MADE FOR UTILITY WORK TO BE UNDERTAKEN.

7.1 KICKOFF MEETING

7.2 IDENTIFY EXISTING UAO(S)

IDENTIFY ALL UTILITIES IN THE CORRIDOR; CHECK WITH SUNSHINE STATE ONE CALL, SUBSURFACE UTILITY ENGINEERING (SUE) REPORT, DESIGN LOCATION SURVEY, AND EXISTING PLANS.

7.3 MAKE UTILITY CONTACTS

FIRST CONTACT: SEND LETTERS AND TWO SETS OF PLANS TO EACH UTILITY. INCLUDES CONTACT BY PHONE FOR MEETING COORDINATION. REQUEST TYPE, SIZE, LOCATION, EASEMENTS, COST FOR COMPENSABLE RELOCATION, AND JUSTIFICATION FOR ANY UTILITY EXCEPTIONS. INCLUDE THE MEETING SCHEDULE (IF APPLICABLE) AND THE DESIGN SCHEDULE. INCLUDE TYPICAL MEETING AGENDA.

SECOND CONTACT: AT A MINIMUM OF 4 WEEKS PRIOR TO THE MEETING, THE CONSULTANT SHALL TRANSMIT TWO COMPLETE SETS OF 60% PLANS TO EACH UAO HAVING FACILITIES LOCATED WITHIN THE PROJECT LIMITS.

THIRD CONTACT: IDENTIFY AGREEMENTS AND ASSEMBLE PACKAGES. SEND AGREEMENTS, LETTERS AND TWO SETS OF PLANS TO THE UAO(S) INCLUDING ALL COMPONENT SETS, ONE SET FOR THE UTILITY OFFICE, ONE SET TO CONSTRUCTION AND MAINTENANCE IF REQUIRED. INCLUDE THE DESIGN SCHEDULE. NOT ALL PROJECTS WILL HAVE ALL CONTACTS AS DESCRIBED ABOVE.

7.4 EXCEPTION COORDINATION

7.5 PRELIMINARY UTILITY MEETING

THE CONSULTANT SHALL SCHEDULE (TIME AND PLACE), NOTIFY PARTICIPANTS, AND CONDUCT A PRELIMINARY UTILITY MEETING WITH ALL AFFECTED UAO(S) FOR THE PURPOSE OF PRESENTING THE PROJECT, REVIEW THE CURRENT DESIGN SCHEDULE, EVALUATE THE UTILITY INFORMATION COLLECTED, PROVIDE FOLLOW-UP INFORMATION ON COMPENSABLE INTEREST REQUESTS, DISCUSS THE UTILITY WORK BY HIGHWAY CONTRACTOR OPTION WITH EACH UTILITY, AND DISCUSS ANY FUTURE DESIGN ISSUES THAT MAY IMPACT UTILITIES. THIS IS ALSO AN OPPORTUNITY FOR THE UAO(S) TO PRESENT PROPOSED FACILITIES.

THE CONSULTANT SHALL KEEP ACCURATE MINUTES AND DISTRIBUTE A COPY TO ALL ATTENDEES.

7.6 INDIVIDUAL/FIELD MEETINGS

THE CONSULTANT SHALL MEET WITH EACH UAO SEPARATELY THROUGHOUT THE PROJECT DESIGN DURATION TO PROVIDE GUIDANCE IN THE INTERPRETATION OF PLANS, REVIEW CHANGES TO THE PLANS AND SCHEDULES, OPTIONAL CLEARING AND GRUBBING WORK, AND ASSIST IN THE DEVELOPMENT OF THE UAO(S) PLANS AND WORK SCHEDULES. THE CONSULTANT IS RESPONSIBLE FOR MOTIVATING THE UAO TO COMPLETE AND RETURN THE NECESSARY DOCUMENTS AFTER EACH UTILITY CONTACT OR MEETING.

7.7 COLLECT AND REVIEW PLANS AND DATA FROM UAO(S)

MAKE DETERMINATIONS (COMPENSABLE INTEREST, EASEMENTS, COORDINATE, ANALYZE). ENSURE INFORMATION (UTILITY TYPE, MATERIAL AND SIZE) IS SENT TO THE DESIGNER FOR INCLUSION IN THE PLANS.

7.8 SUBORDINATION OF EASEMENTS COORDINATION

7.9 UTILITY DESIGN MEETING

AT A MINIMUM OF 3 WEEKS PRIOR TO THE MEETING, THE CONSULTANT SHALL TRANSMIT TWO COMPLETE SETS OF 60% PLANS TO EACH UAO HAVING FACILITIES LOCATED WITHIN THE PROJECT LIMITS, AND ONE SET TO THE COUNTY PROJECT MANAGER. THE CONSULTANT SHALL SCHEDULE (TIME AND PLACE), NOTIFY PARTICIPANTS, AND CONDUCT A UTILITY MEETING WITH ALL AFFECTED UAO(S). THE CONSULTANT SHALL BE PREPARED TO DISCUSS DRAINAGE, TRAFFIC SIGNALIZATION, MAINTENANCE OF TRAFFIC (CONSTRUCTION PHASING), REVIEW THE CURRENT DESIGN SCHEDULE AND LETTING DATE, EVALUATE THE UTILITY INFORMATION COLLECTED, PROVIDE FOLLOW-UP INFORMATION ON COMPENSABLE INTEREST REQUESTS, DISCUSS THE UTILITY WORK BY HIGHWAY CONTRACTOR OPTION WITH EACH UTILITY, DISCUSS ANY FUTURE DESIGN ISSUES THAT MAY IMPACT UTILITIES, ETC., TO THE EXTENT THAT THEY MAY HAVE AN EFFECT ON EXISTING OR PROPOSED UTILITY FACILITIES WITH PARTICULAR EMPHASIS ON DRAINAGE AND MAINTENANCE OF TRAFFIC WITH EACH UAO. THE INTENT OF THIS MEETING SHALL BE TO IDENTIFY AND RESOLVE CONFLICTS BETWEEN UTILITIES AND PROPOSED CONSTRUCTION PRIOR TO COMPLETION OF THE PLANS, INCLUDING UTILITY ADJUSTMENT DETAILS. ALSO RECOMMEND RESOLUTION BETWEEN KNOWN UTILITY CONFLICTS WITH PROPOSED CONSTRUCTION PLANS AS PRACTICAL. THE CONSULTANT SHALL KEEP ACCURATE MINUTES OF ALL MEETINGS AND DISTRIBUTE A COPY TO ALL ATTENDEES.

7.10 REVIEW UTILITY MARKUPS AND WORK SCHEDULES AND PROCESSING OF SCHEDULES AND AGREEMENTS

REVIEW UTILITY MARKED UP PLANS INDIVIDUALLY AS THEY ARE RECEIVED FOR CONTENT AND COORDINATE REVIEW WITH THE DESIGNER. SEND COLOR MARKUPS AND SCHEDULES TO THE APPROPRIATE DEPARTMENT OFFICE(S) FOR REVIEW AND COMMENT IF REQUIRED BY THE COUNTY. COORDINATE WITH THE COUNTY FOR EXECUTION. DISTRIBUTE EXECUTED FINAL DOCUMENTS.

7.11 UTILITY COORDINATION/FOLLOWUP

THIS INCLUDES FOLLOW-UP, INTERPRETING PLANS, AND ASSISTING AND THE COMPLETION OF THE UAO(S) WORK SCHEDULE AND AGREEMENTS. INCLUDES PHONE CALLS, FACE-TO-FACE MEETINGS, ETC., TO MOTIVATE AND ENSURE THE UAO(S) COMPLETE AND RETURN THE REQUIRED DOCUMENTS IN ACCORDANCE WITH THE PROJECT SCHEDULE. ENSURE THE RESOLUTION OF ALL KNOWN CONFLICTS. THIS TASK CAN BE APPLIED TO ALL PHASES OF THE PROJECT.

7.12 UTILITY CONSTRUCTABILITY REVIEW

REVIEW UTILITY SCHEDULES AGAINST CONSTRUCTION CONTRACT TIME, AND PHASING FOR COMPATIBILITY.

7.13 ADDITIONAL UTILITY SERVICES

7.14 PROCESSING UTILITY WORK BY HIGHWAY CONTRACTOR (UWHC)

7.15 CONTRACT PLANS TO UAO(S)

7.16 CERTIFICATION/CLOSE-OUT

7.17 OTHER UTILITIES

8 ENVIRONMENTAL PERMITS, COMPLIANCE AND CLEARANCES

THE CONSULTANT SHALL NOTIFY THE DEPARTMENT PROJECT MANAGER, AND OTHER APPROPRIATE PERSONNEL IN ADVANCE OF ALL SCHEDULED MEETINGS WITH THE REGULATORY AGENCIES TO ALLOW A DEPARTMENT REPRESENTATIVE TO ATTEND. THE CONSULTANT SHALL COPY IN THE PROJECT MANAGER ON ALL PERMIT RELATED CORRESPONDENCE AND MEETINGS.

8.1 PRELIMINARY PROJECT RESEARCH

THE CONSULTANT SHALL PERFORM PRELIMINARY PROJECT RESEARCH AND SHALL BE RESPONSIBLE FOR EARLY IDENTIFICATION OF AND COORDINATION WITH THE APPROPRIATE REGULATORY AGENCIES TO ASSURE THAT DESIGN EFFORTS ARE PROPERLY DIRECTED TOWARD PERMIT REQUIREMENTS.

8.5 COMPLETE AND SUBMIT ALL REQUIRED PERMIT APPLICATIONS

THE CONSULTANT SHALL PREPARE PERMIT PACKAGES AS IDENTIFIED IN THE PROJECT DESCRIPTION SECTION.

THE CONSULTANT SHALL COLLECT ALL OF THE DATA AND INFORMATION NECESSARY TO OBTAIN THE ENVIRONMENTAL PERMITS REQUIRED TO CONSTRUCT A PROJECT.

THE CONSULTANT SHALL PREPARE EACH PERMIT APPLICATION FOR COUNTY APPROVAL IN ACCORDANCE WITH THE RULES AND/OR REGULATIONS OF THE ENVIRONMENTAL AGENCY RESPONSIBLE FOR ISSUING A SPECIFIC PERMIT AND/OR AUTHORIZATION TO PERFORM WORK.

THE CONSULTANT WILL SUBMIT ALL PERMIT APPLICATIONS, AS DIRECTED BY THE COUNTY, AND BE RESPONSIBLE FOR PAYMENT OF ALL PERMIT FEES.

8.16 TECHNICAL MEETINGS

8.17 QUALITY ASSURANCE/QUALITY CONTROL

8.18 SUPERVISION

8.19 COORDINATION

9 STRUCTURES - SUMMARY AND MISCELLANEOUS TASKS AND DRAWINGS

NONE

10 STRUCTURES - BRIDGE DEVELOPMENT REPORT

NONE

11 STRUCTURES - TEMPORARY BRIDGE

NONE

12 STRUCTURES - SHORT SPAN CONCRETE BRIDGE

NONE

13 STRUCTURES - MEDIUM SPAN CONCRETE BRIDGE

NONE

14 STRUCTURES - STRUCTURAL STEEL BRIDGE

NONE

15 STRUCTURES - SEGMENTAL CONCRETE BRIDGE

NONE

16 STRUCTURES - MOVABLE SPAN

NONE

17 STRUCTURES - RETAINING WALL

NONE

18 STRUCTURES - MISCELLANEOUS

THE CONSULTANT SHALL DESIGN THE MAST ARM FOUNDATION AND MAST ARM.

19 SIGNING AND PAVEMENT MARKING ANALYSIS

THE CONSULTANT SHALL ANALYZE AND DOCUMENT SIGNING AND PAVEMENT MARKINGS TASKS IN ACCORDANCE WITH ALL APPLICABLE MANUALS, GUIDELINES, STANDARDS, HANDBOOKS, PROCEDURES, AND CURRENT DESIGN MEMORANDUMS.

19.7 QUANTITIES

19.8 COMPUTATION BOOK

19.9 COST ESTIMATES

19.12 FIELD REVIEWS

19.13 TECHNICAL MEETINGS

19.14 QUALITY ASSURANCE/QUALITY CONTROL

19.15 INDEPENDENT PEER REVIEW

19.16 SUPERVISION

19.17 COORDINATION

20 SIGNING AND PAVEMENT MARKING PLANS

THE CONSULTANT SHALL PREPARE A SET OF SIGNING AND PAVEMENT MARKING PLANS IN ACCORDANCE WITH THE MUTCD AND FDOT STANDARD INDEX THAT INCLUDES THE FOLLOWING.

- 20.2 SUMMARY OF PAY ITEMS INCLUDING CES INPUT
- 20.3 TABULATION OF QUANTITIES
- 20.4 GENERAL NOTES/PAY ITEM NOTES
- 20.6 PLAN SHEET
- 20.7 TYPICAL DETAILS
- 20.14 QUALITY ASSURANCE/QUALITY CONTROL
- 20.15 SUPERVISION

21 SIGNALIZATION ANALYSIS

NONE

22 SIGNALIZATION PLANS

NONE

23 LIGHTING ANALYSIS

NONE

24 LIGHTING PLANS

NONE

25 LANDSCAPE ARCHITECTURE ANALYSIS

NONE

26 LANDSCAPE ARCHITECTURE PLANS

NONE

27 SURVEY

THE CONSULTANT SHALL PERFORM SURVEY TASKS IN ACCORDANCE WITH ALL APPLICABLE STATUTES, MANUALS, GUIDELINES, STANDARDS, HANDBOOKS, PROCEDURES, AND CURRENT DESIGN MEMORANDA.

TOPOGRAPHIC SURVEY: LIMITS 25 FEET OUTSIDE RIGHT-OF-WAY...CENTERLINE SHOTS EVERY 50 FEET WITH FULL CROSS SECTIONS EVERY 100 FEET. SAME WITH ALL INTERSECTING SIDE STREETS.

LOCATE ALL ROADSIDE FACE OF ALL BUILDINGS AND ANY TREES, DRIVES AND STRUCTURES BETWEEN BUILDINGS AND 14TH STREET R/W.

ESTABLISH PERMANENT BENCHMARKS AT ALL INTERSECTIONS.

HORIZONTAL CONTROL POINTS WILL BE ESTABLISHED WITH RELATION TO CENTERLINE AND RIGHT-OF-WAY LINES BUT WILL BE PLACED OUTSIDE TRAVEL WAYS. REFERENCES WILL BE SET FOR PRIMARY CONTROL POINTS.

LOCATE ALL DRIVEWAYS, SIGNS, MAILBOXES, TREES, AND ABOVE GROUND UTILITIES.

BELOW GROUND UTILITIES WILL BE LOCATED HORIZONTALLY AND VERTICALLY AFTER BEING MARKED BY UTILITY LOCATE SERVICE.

PROVIDE PAINTED STATIONING REFERENCES ALONG EDGE OF PAVEMENT AND APPROXIMATE RIGHT-OF-WAY LINES. ASSUMED STATIONING WITH D.O.T. STATIONING EQUATIONS.

PROJECT TO BE ON FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM 83/90.

N.A.V.D. (88) VERTICAL DATUM.

28 PHOTOGRAMMETRY

NONE

29 MAPPING

NONE

30 GEOTECHNICAL

THE CONSULTANT SHALL BE RESPONSIBLE FOR A COMPLETE GEOTECHNICAL INVESTIGATION. ALL WORK PERFORMED BY THE CONSULTANT SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS.

LABORATORY CLASSIFICATION TESTING, INDEX PROPERTY TESTING AND LBR TESTS WILL THEN BE PERFORMED ON SAMPLES OBTAINED FROM THE BORINGS TO HELP CLASSIFY THE SOILS AND ALLOW CORRELATIONS WITH VARIOUS ENGINEERING PROPERTIES. AN ENGINEERING REPORT WILL BE PREPARED THAT WILL INCLUDE A REVIEW OF AVAILABLE PROJECT INFORMATION, A DISCUSSION AND RESULTS OF THE CONDUCTED FIELD AND LABORATORY SERVICES, A DISCUSSION OF SITE AND SUBSURFACE CONDITIONS, RECOMMENDATIONS FOR PAVEMENT MILLING DEPTH, AND RESURFACING AND RECOMMENDATIONS FOR REMEDIATION OF ANY DISTRESSED PAVEMENT.



ESTIMATE OF WORK EFFORT AND FEE
 14th St. Improvements - from Hickory St. to Atlantic Ave.

		Project Totals			
No	/ Activity	sheets	Man Hours	* Ave Rate	Labor Cost
Task 1 - Project General and Project Common Tasks					
3A	Public Involvement		134	138.81	\$ 18,601.00
3B	- Sidewalk specific tasks		24	138.81	\$ 3,331.00
3C	Specifications		20	138.81	\$ 2,776.00
3D	Contract Maintenance		44	138.80	\$ 6,107.00
3E	Project Staff Meetings		17	138.80	\$ 2,360.00
Subtotal					\$ 33,175.00
Task 2 - Roadway Analysis and Plans					
4A	Roadway Analysis - Technical		363	135.12	\$ 49,049.00
4B	Addition of Sidewalks		50	135.12	\$ 6,756.00
4C	Roadway Analysis - non-Technical		89	135.12	\$ 12,026.00
5	Plan Production	88	422	135.17	\$ 57,044.00
Subtotal					\$ 124,875.00
Task 3 - Drainage Analysis					
6	Drainage Analysis		117	142.08	\$ 16,623.00
Task 4 - Utility Coordination					
7	Utility Coordination		53	112.57	\$ 5,966.00
Task 5 - Permitting					
8	Permitting		18	113.73	\$ 2,047.00
Task 6 - Signing and Pavement Marking					
19&20	Signing and Pavement Marking	13	117	128.51	\$ 15,036.00
Task 7 - Structural					
18	Mast Arm Design		20	157.35	\$ 3,147.00
Task 8 - Signalization					
	Analysis and Plans		135	125.63	\$ 16,960.00
Task 9 - Surveying					
	Surveying				\$ 24,825.00
Task 10 - Geotechnical					
	Geotechnical				\$ 4,500.00
Project Totals			1623		\$ 247,154.00

* Note: Ave. rate is based upon the detailed estimate of work effort and cost. It is the weighted average of the hourly rates.