**BROWARD COUNTY GENERAL & PAY ITEM NOTES**

**SURVEY**

1. THERE MAY BE ADDITIONAL EASEMENTS, RIGHTS-OF-WAY, OR OTHER RESTRICTIONS THAT ARE NOT SHOWN ON THIS SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF BROWARD COUNTY.

2. THE CONTRACTOR SHALL CAREFULLY PROTECT FROM DISTURBANCE ALL SURVEY MONUMENTS, STAKES AND BENCH MARKS. ALL MAJOR SURVEY MONUMENTS THAT HAVE BEEN DAMAGED BY THE CONTRACTOR, INCLUDING SECTION CORNERS, ¼ SECTION CORNERS, PROPERTY CORNERS OR BLOCK CONTROL POINTS SHALL BE REPLACED UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR AND MAPPER AT THE CONTRACTORS EXPENSE WITH MARKERS OF A SIZE AND TYPE APPROVED BY THE SURVEYOR.

3. DATA SOURCES: *List sources of survey data.*

**UTILITIES**

1. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS IS BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.

2. IT IS THE INTENT OF THESE PLANS THAT THE PROPOSED EQUIPMENT TO BE INSTALLED IS TO BE PLACED IN SUCH A MANNER SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR’S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION TO PLAN THEIR WORK WITHIN THE DESIGN OR SPECIFIED PARAMETERS, AND THE SPECIFIED TIMEFRAME. IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES.

3. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, OR WHERE HAND-DIGGING IS SPECIFIED ON THE PLANS. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND EXISTING UTILITIES.

4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE LOCATION AND PROTECTION, REPAIR AND/OR REPLACEMENT OF ALL UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.

5. THE CONTRACTOR SHALL COORDINATE WITH FPL AND FIELD VERIFY LOCATION(S) OF FPL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT, AND PULL BOXES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRIC POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, THE FEE SHALL BE REFLECTED IN THE CONTRACTORS BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.

7. THE CONTRACTOR IS ADVISED THAT THE PRESENCE OF OVERHEAD ELECTRIC CONDUCTORS IN CLOSE PROXIMITY TO THE LOCATIONS OF THE PROPOSED SIGNAL MAST ARMS MAY LIMIT THE TYPE OF EQUIPMENT THAT CAN BE USED IN CONSTRUCTION OF THE MAST ARM AND ITS FOUNDATION. CONTRACTOR SHALL COORDINATE WITH FPL TO DEACTIVATE LINES IF NECESSARY.
8. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW TWO (2) BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. A CONTRACTOR’S REPRESENTATIVE SHALL BE PRESENT WHEN THE UTILITY COMPANY LOCATES THEIR FACILITIES. THE LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR AND THE UTILITY REPRESENTATIVE WHEN NECESSARY DURING CONSTRUCTION.

COMPANY CONTACT TELEPHONE #
Broward County Traffic Engineering Robert Blount (954) 847-2745

Add appropriate additional utility owner information here.

GENERAL

1. UNLESS OTHERWISE NOTED IN THE TECHNICAL SPECIFICATIONS: INSTALLATION, ACCEPTANCE, AND PAYMENT FOR ALL ITEMS REQUIRED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING, REFERENCED IN THE KEY SHEET: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (STANDARD SPECIFICATIONS), FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (STANDARD INDEXES), BROWARD COUNTY MINIMUM STANDARDS, BROWARD COUNTY TRAFFIC ENGINEERING DIVISION STANDARDS AND SPECIFICATIONS, AND ANY OR ALL BROWARD COUNTY TRAFFIC ENGINEERING REQUIREMENTS THAT MEET OR EXCEED THOSE FOUND IN THE ABOVE REFERENCED DOCUMENTS.

2. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN, INCLUDING LOOP ASSEMBLIES, IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS BCTED IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR’S EXPENSE.

3. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS.

4. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.

5. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THOSE LOCATIONS.


7. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT AND THAT COORDINATION EFFORTS MAY BE NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE CONSTRUCTION SCHEDULE AND FOR THE AMOUNT OF COORDINATION REQUIRED. THE CONTRACTOR SHALL COORDINATE ANY AND ALL CONSTRUCTION ACTIVITIES AND TRAFFIC CONTROL PHASES WITH ANY OTHER CONTRACTOR WITHIN OR ADJACENT TO PROJECT LIMITS.
8. NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENCES ALONG THE PROPOSED CONSTRUCTION AREA.

9. OFFSETS TO POLES, CABINETS AND PULL BOXES ARE TO THE CENTER OF THOSE ITEMS. THE LOCATION OF ALL PROPOSED EQUIPMENT TO BE INSTALLED SHALL BE CONSIDERED TO BE APPROXIMATE. FIELD ADJUSTMENT OF ALL PROPOSED EQUIPMENT MAY BECOME NECESSARY TO ACCOMMODATE EXISTING FIELD CONDITIONS. VARIATIONS FROM THE PROPOSED LOCATION MUST BE PRE-APPROVED BY THE ENGINEER OF RECORD IN WRITING.

10. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO ANY FURTHER WORK ACTIVITY.

STRUCTURES

1. THE CONTRACTOR SHALL VERIFY STRUCTURE ORIENTATION PRIOR TO PLACEMENT. STRUCTURES OF INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTORS EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES AND FOUNDATIONS ARE SET TO ELEVATIONS THAT WILL MEET GRADING REQUIREMENTS AT SIDEWALKS AND SLOPES, AND VERTICAL CLEARANCE REQUIREMENTS SPECIFIED IN FDOT, MUTCD, AND COUNTY STANDARDS PRIOR TO INSTALLING STRUCTURAL MATERIAL. IF A DISCREPANCY IS FOUND, CONTACT THE ENGINEER OF RECORD.

INSPECTIONS

1. ALL FINAL INSPECTIONS ARE TO BE SCHEDULED IN ACCORDANCE WITH CONTRACT DOCUMENTS.

2. THE CONTRACTOR SHALL CONTACT THE FDOT PLANNING DEPARTMENT TRAFFIC ENGINEER NO LESS THAN FIVE (5) FULL WORKING DAYS PRIOR TO CUTTING THE INDUCTIVE LOOPS INTO THE STRUCTURE COURSE, IN ORDER TO PERFORM A FINAL INSPECTION PRIOR TO FINAL ACCEPTANCE. CONTACT KARA SCHWARTZ AT (954) 777-4364 OR EMAIL AT KARA.SCHWARTZ@DOT.STATE.FL.US.

3. CONTRACTOR SHALL HAVE THE APPROVED SHOP DRAWINGS AVAILABLE ON THE PROJECT SITE.

4. ALL WORK WHICH WILL NOT BE READILY VISIBLE UPON COMPLETION SHALL NOT BE CONCEALED UNTIL AN APPROVED INSPECTION. IN THE EVENT THAT ITEMS ARE CONCEALED, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO EXPOSE THE QUESTIONED ITEM(S) FOR THE INSPECTORS APPROVAL, AT NO ADDITIONAL COST TO THE COUNTY. THIS INCLUDES, BUT IS NOT LIMITED TO:

- BURIED OR IMBEDDED CONDUIT
- GROUND WIRE, RODS, AND ARRAY
- COMMUNICATIONS WIRING AND HOMERUNS
- SPLICES BEFORE ENCAPSULATING (Provide Digital photographs of splice trays in electronic format to BCTED prior to inspection)

ALL MEG OHM AND CONTINUITY TESTING SHALL BE DONE IN THE PRESENCE OF THE COUNTY INSPECTOR.
5. The application of the following materials to various traffic signal components shall be performed during assembly:

- **Threaded Hardware**: All non-electrical threaded hardware (i.e. Astro Bracket Hardware, Pole Hardware or any threaded surface) shall be coated with an anti-seize lubricant approved by the Engineer of Record. No spray on anti-seize compound will be accepted.

- **Gasketing Surfaces**: All gasket surfaces shall be lightly coated with county approved silicone grease.

- **Electrical Connections**: All mechanical/electrical connections shall have the various components of the splice or termination coated with a county approved oxide inhibitor.

- **Galvanized Surfaces**: All scratches and field-drilled holes shall be treated in accordance with the ‘mast arm paint specification’ provisions as posted online at the Broward County Traffic Engineering Division publications website at [http://www.broward.org/Traffic/Pages/Publications.aspx](http://www.broward.org/Traffic/Pages/Publications.aspx).

- **Weatherproofing**: Irregular mating surfaces shall be rendered weatherproof by applying an appropriate bead of clear silicon caulk. These areas include serrated signal couplings, controller cabinet foundation, pedestrian push buttons, and any other areas typically prone to moisture infiltration.

- **Cable Entry/Exit**: Whenever a cable enters or exits a field drilled hole, the cable shall be protected from abrasion with an approved means.

6. In an inspection, the contractor shall provide all necessary equipment including a two man bucket truck or platform lift truck for use by the inspector and maintenance staff.

**As-Bulpts**

1. The contractor shall provide six (6) sets of marked up (as-built) construction plans and one CAD file of such to the engineer and maintaining agency as defined in FDOT standards and bridge specifications section 611, seven (7) days prior to signal conditional acceptance inspection by the maintaining agency. The contractor shall be required to become familiar with BCTED’s inspection procedure.

2. The contractor shall submit a sketch to the engineer for approval, if the horizontal and/or vertical placement of equipment varies from the designated location of the plan.

**Submittals**

1. All submittals should be submitted to the Broward County Traffic Engineering Division, care of Liana Carmona at the address listed below. The contractor shall allow for 30 day turn around on submittals. EOR is the only approval required for all FDOT projects.
INTERCONNECT NOTES

1. ANY FIBER INTERCONNECT CABLE THAT IS CUT OR DAMAGED DURING CONSTRUCTION MUST BE REPLACED AS AN ENTIRE RUN AND SHALL BE RE-SPliced WITHIN THE SPLICE CLOSURE AT THE END OF THE RUN. SPlicing OF FIBER INTERCONNECT CABLE BETWEEN SPLICE CLOSURES IS NOT PERMITTED. THE CONTRACTOR SHALL BEAR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF THE NEW INTERCONNECT CABLE.

2. THE CONTRACTOR SHALL BE AWARE THAT SYSTEM COMMUNICATIONS INTERCONNECT MAY EXTEND THROUGHOUT THE PROJECT. CABLE RUNS AND/OR CONDUIT, PULL/JUNCTION BOXES, AND ANY OTHER SIGNAL OR OTHER SYSTEMS EQUIPMENT DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

3. ANY MATERIAL FURNISHED FOR THE PURPOSES OF: NEW INSTALLATION, REPLACEMENT OR REPAIR OF THE EXISTING COMMUNICATIONS INFRASTRUCTURE SHALL MEET THE STANDARDS AND SPECIFICATIONS OF BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ANY SUPPLIED CONTROLLER CABINET, CONTROLLER, TELEMETRY UNIT, COMMUNICATIONS CABLE, PULL BOX, CONDUIT, TERMINATION DEVICE, AND COMMUNICATIONS PATCH PANEL SHALL COMPLY WITH THE LATEST REQUIREMENTS AS STATED BY BCTED AND SHALL PROVIDE FOR FULL FUNCTIONALITY WITH THE EXISTING BCTED'S ATMS.now OPERATIONS.

Include latest version of Broward County Traffic Engineering Division “Communications Notes”, to be found at http://www.broward.org/Traffic/Pages/Default.aspx.

SIGNAL GENERAL NOTES

1. AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE OF COMMENCEMENT, VIA EMAIL, TO TEINSP=CTION@BROWARD.ORG. NOTICE SHALL INCLUDE THE DATE OF COMMENCEMENT, LOCATION AND TYPE OF WORK & INFORMATION REGARDING ANY MALFUNCTIONING SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND FILL OUT THE COUNTY’S “ACCEPTANCE OF TRAFFIC SIGNAL MAINTENANCE AND TIMING BY CONTRACTOR DURING CONSTRUCTION AND BURN-IN PERIOD” FORM LETTER, AVAILABLE AT BCTED, PRIOR TO COMMENCEMENT OF ANY WORK. MAINTENANCE OF THE SIGNAL OPERATION, INCLUDING TIMING ADJUSTMENTS, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE COUNTY ISSUES WRITTEN FINAL ACCEPTANCE OF THE INTERSECTION, AT WHICH TIME MAINTENANCE RESPONSIBILITIES ARE PROPERLY TRANSFERRED TO THE COUNTY.

2. APPROVAL OF SHOP DRAWINGS DOES NOT CONSTITUTE A WARRANTY THAT THE SIGNAL EQUIPMENT COMPLIES WITH THE STANDARDS OF THE MAINTAINING AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE PROPOSED SIGNAL EQUIPMENT MEETS THE REQUIREMENTS SPECIFIED IN THE CONTRACT, SPECIFICATIONS AND CONTRACT PLANS.
3. THE VIDEO DETECTION SYSTEM SHALL BE IN ACCORDANCE TO THE TECHNICAL SPECIFICATIONS INCLUDED IN THE ‘Vehicle Detection Pay Item Notes’ DOCUMENT POSTED ON THE BROWARD COUNTY TRAFFIC ENGINEERING WEBSITE AT http://www.broward.org/Traffic/Pages/Publications.aspx. THE VIDEO DETECTION SYSTEM SHALL BE ON THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) APPROVED PRODUCTS LIST AND MEET ALL QUALIFYING SPECIFICATIONS AS DESCRIBED IN FDOT SECTION 660 “VEHICLE DETECTION SYSTEM” AS IT APPLIES TO VIDEO VEHICLE DETECTION SYSTEMS.

4. THE CONTRACTOR SHALL COORDINATE A FIELD MEETING WITH THE SIGNAL SUPERVISOR, PRIOR TO REMOVING ANY EXISTING EQUIPMENT, TO DETERMINE WHICH EQUIPMENT SHOULD BE DELIVERED TO BCTED. THE AGREED UPON EQUIPMENT SHALL BE DISASSEMBLED INTO THEIR COMPONENT PARTS, TAGGED AS TO LOCATION, PACKAGED AS NEEDED FOR PROTECTION FROM DAMAGE AND DELIVERED TO:

   BROWARD COUNTY TRAFFIC ENGINEERING DIVISION
   2300 WEST COMMERCIAL BLVD
   FORT LAUDERDALE, FL 33309

   ALL SIGNALIZATION EQUIPMENT THAT IS REMOVED AND NOT REQUESTED BY BCTED SHALL BE PROPERLY DISPOSED OF AT THE CONTRACTOR’S EXPENSE IN A MANNER AND LOCATION APPROVED BY THE SIGNAL SUPERVISOR.

   THE SIGNAL SUPERVISOR IS TO BE CONTACTED AT 954-847-2600 AT LEAST 48 HOURS PRIOR TO DELIVERY. WRITTEN ACKNOWLEDGEMENT OF EQUIPMENT RECEIPT SHALL BE OBTAINED FROM THE SIGNAL SUPERVISOR IN THE FORM OF A SIGNED RECEIPT BEARING THE CONTRACTOR’S LETTERHEAD. THIS ITEMIZED RECEIPT SHALL STATE THAT ALL OF THE EQUIPMENT REMOVED FROM EACH LOCATION WAS RETURNED TO BCTED IN GOOD CONDITION. THE CONTRACTOR SHALL PRESENT THE RECEIPT TO BCTED AT THE TIME OF SIGNAL INSPECTION. ABSENCE OF SUCH RECEIPT SHALL BE RECORDED ON THE PUNCH LIST AS AN ITEM TO BE CORRECTED PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

PAY ITEM NOTES

   102-1 PAYMENT FOR THIS ITEM SHALL ONLY BE MADE IF THE APPROVED MAINTENANCE OF TRAFFIC PLAN INCLUDES A UNIFORMED TRAFFIC CONTROL OFFICER, WITH A MARKED LAW ENFORCEMENT VEHICLE, TO ASSIST IN CONTROLLING AND DIRECTING TRAFFIC IN THE WORK ZONE; AND IF IT WAS VERIFIED TO BE PRESENT AT THE ACTIVE WORK ZONE BY THE ENGINEER OR INSPECTOR.

   110-4 INCLUDES THE COST OF REMOVING CONCRETE CURB & GUTTER AND SIDEWALKS. ALSO INCLUDES STABILIZATION OF EARTHWORK UNDER SIDEWALK.

   120-1 INCLUDES THE COST OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL THAT MAY BE ENCOUNTERED DURING EXCAVATION. ALSO INCLUDES THE PROTECTION OF UTILITIES IN CLOSE PROXIMITY TO EXCAVATION WORK.

   334-1-XX INCLUDES THE COST OF ADJUSTING MANHOLES AND VALVE COVERS TO ELEVATION FLUSH WITH RESURFACED PAVEMENT GRADE.

   337-7-XX INCLUDES THE COST OF ADJUSTING MANHOLES AND VALVE COVERS TO ELEVATION FLUSH WITH RESURFACED PAVEMENT GRADE.
522-2 INCLUDES THE COST OF ADJUSTING EXISTING UTILITY BOXES AND PULL BOXES TO THE NEW GRADE. CONCRETE STRENGTH REQUIREMENT FOR THIS PAY ITEM IS F'C=3,000 PSI. THIS PAY ITEM INCLUDES THE COST OF CONSTRUCTION OF RAMPS AND DETECTABLE WARNINGS SURFACES AS INDICATED ON THE PLANS.

632-7-1 INCLUDES COST OF PEDESTRIAN SIGNAL HEAD WIRING/CABLING RUNS.

633-1-121 FIBER OPTIC DROP CABLE SHALL BE MINIMUM 12 COUNT SINGLE MODE. IF THE RUN FROM CABINET TO SPLICE BOX IS GREATER THAN 20' THEN THE CABLE SHALL BE ARMORED.

633-1-123 FIBER OPTIC TRUNK CABLE SHALL BE MINIMUM 96 COUNT, SINGLE MODE AND ARMORED.

633-X-XXX CONTRACTOR TO FURNISH AND INSTALL GLOBAL TRAFFIC TECHNOLOGIES SYSTEM-SPECIFIC OPTICOM GPS MULTI-PAIR CABLE TO CONNECT TO GPS ANTENNAS TO GPS PRE-EMPTION CONTROLLER INTERFACE.


BID PRICE FOR INSTALLATION OF MAST ARMS SHALL INCLUDE FOUNDATION CONSTRUCTION, INCLUDING CSL TUBES (NUMBER AND CONFIGURATION OF CSL TUBES SHALL COMPLY WITH STANDARDS AND SPECIFICATIONS SECTION 455-16.4 CSL TUBES AND FDOT STANDARD INDEX 17745).

THE CONTRACTOR SHALL BE RESPONSIBLE AT THE TIME OF PICK-UP TO VERIFY AND NOTE ANY EXISTING DEFECTS OR MISSING ITEMS. ITEMS NOT NOTED AT THE TIME OF PICK-UP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSES. PAYMENT INCLUDES THE DEVELOPMENT AND SUBMITTAL OF A DRILLED SHAFT INSTALLATION PLAN PER INTERSECTION FOR THE COUNTY'S APPROVAL AS REFERENCED IN FDOT SPECIFICATIONS. A GIVEN MAST ARM/POLE ASSEMBLY LOCATION SHALL BE FIELD VERIFIED AND IDENTIFIED AS FREE OF CONFLICTS AND/OR OBJECTS BY THE CONTRACTOR PRIOR TO PROCUREMENT OF THE ASSOCIATED MAST ARM/POLE ASSEMBLY.

THE EQUIPMENT AND/OR THE FPL COORDINATION SHALL BE REFLECTED IN THE CONTRACTOR'S BID UNIT PRICE FOR MAST ARM CONSTRUCTION.

650-1-XX ALL TRAFFIC SIGNAL HEADS SHALL BE STANDARD, NOT LIGHTWEIGHT UNLESS SPECIFIED BY THE ENGINEER. DRAIN HOLES AS REQUIRED UNDER SECTION 650-3.8 OF THE STANDARD SPECIFICATIONS SHALL BE PROVIDED FOR EACH SIGNAL SECTION OF A HORIZONTAL SIGNAL. AN ARTICULATED ASTRO-BRACKET SHALL BE PROVIDED UNDER THIS PAY ITEM IF NEEDED FOR PROPER ORIENTATION OF HORIZONTAL SIGNAL HEAD ON A SKewed ARM OR APPROACH. INCLUDES BACKPLATES AND TUNNEL VISORS. YELLOW RETRO REFLECTIVE BACK PLATE BORDERS ARE REQUIRED ON ALL BACK PLATES.

663-1-XXX THE CONTRACTOR IS TO FURNISH AND INSTALL GLOBAL TRAFFIC TECHNOLOGIES (GTT) GPS RECEIVER AND ANTENNA. ANTENNA TO BE RIGIDLY AFFIXED TO MAST ARM WITH VERTICAL SUPPORT POLE AND BRACKETS IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. COUNTY WILL PERFORM SIGNAL TESTING, MAPPING AND SYSTEM ACTIVATION. CONTRACTOR WILL FURNISH AND INSTALL GLOBAL TRAFFIC
TECHNOLOGIES FIRE-RESCUE GPS PRE-EMPTION CONTROLLER INTERFACE MODULE. CONTRACTOR WILL COORDINATE WITH COUNTY FOR LATEST SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. COUNTY WILL PERFORM FINAL GTT GPS SET-UP AND SOFTWARE PROGRAMMING.

670-5-14X THE CONTROLLER ASSEMBLY SHALL CONSIST OF A 2070 CONTROLLER WITH VERSION 76 Firmware and a TS2 Type 1 shelf mounted within a Type VI controller cabinet with front and back doors (special note: if there is limited sidewalk ADA clearance, a reduced depth Type VI cabinet can be used with prior approval from BCTED). Equipment used must be certified from the FDOT APL list. This 2070 controller shall provide total utility and interoperability with BCTED’S ATMS. Now computer system. The cabinet shall include a minimum of sixteen (16) load switch bays and accommodations for the video detection system. The cabinet air filter shall be of the reusable washable aluminum type. The top of the controller pad shall be at least six inches above the roadway elevation. This pay item shall also include complete reintegration of the existing GPS priority control preemption equipment, and relocation to/from the existing cabinet. A flush mounted automatic power transfer switch shall be included on the cabinet. A technician service pad 30" in width shall also be provided. Whenever possible, the cabinet is to be placed so that the door opens away from the intersection and opens fully within the right of way. This pay item includes the cost of the concrete for the controller pad and the service pad.

684-1-X CONTRACTOR SHALL COORDINATE THE ORDER AND DELIVERY OF THE CELLULAR COMMUNICATIONS EQUIPMENT SIX (6) WEEKS PRIOR TO FINAL INSPECTION WITH THE COMMUNICATIONS MANAGER (954-847-2745) OR EMAIL AT TECOMMUNICATIONS@BROWARD.ORG.

700-1-60 INCLUDES DELIVERY OF REMOVED ASSEMBLY TO BROWARD COUNTY TRAFFIC ENGINEERING DIVISION AT 2300 WEST COMMERCIAL BLVD, FORT LAUDERDALE. PLEASE CONTACT THE TRAFFIC SIGNS SUPERINTENDENT AT 954-847-2717 TO COORDINATE THE DELIVERY OF MATERIALS.

700-5-XX ILLUMINATED STREET SIGNS SHALL BE LED TYPE AND PRODUCE A MINIMUM OF 50 LUMENS PER WATT.

TRAFFIC CONTROL

1. THE TRAFFIC CONTROL PLANS FOR THE PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE FDOT DESIGN STANDARDS, MUTCD, AND STANDARD SPECIFICATIONS.

2. IF THE CONTRACTOR IS REQUIRED BY BROWARD COUNTY TO DEVELOP AND IMPLEMENT MODIFICATIONS TO THE TRAFFIC SIGNAL OPERATIONS, OR IF THE CONTRACTOR DETERMINES A NEED TO MODIFY THE TRAFFIC SIGNAL OPERATIONS, THESE CHANGES MUST BE REPORTED TO THE BCTED’S CENTRAL COMPUTER SITE AT 954-847-2770 PRIOR TO THEIR IMPLEMENTATION.

3. DURING THE TIME THE CONTRACTOR IS RESTORING ALL MALFUNCTIONING TRAFFIC SIGNAL EQUIPMENT, THE CONTRACTOR SHALL PROVIDE, AT THEIR EXPENSE, TEMPORARY TRAFFIC CONTROL DEVICES, FLAGGER PERSONNEL, AND LAW ENFORCEMENT PERSONNEL AS NECESSARY TO MAINTAIN A SAFE AND EFFICIENT FLOW.

4. EARLY "TURN-ON" OF ANY NEW SIGNAL INSTALLATION WILL ONLY BE PERMITTED IF AUTHORIZED IN WRITING BY BCTED. IF THIS NEED ARISES, BCTED WILL NEGOTIATE WITH THE CONTRACTOR FOR MAINTENANCE OF THE SIGNAL. NEW SIGNAL LOCATIONS SHALL BE FLASHD NO LESS THAN THREE DAYS,
AND NO MORE THAN FOURTEEN DAYS PRIOR TO THE INSPECTION. SIGNAL HEADS MUST BE BAGGED WITH BURLAP OR TURNED UNDER UNTIL THIS TIME.

5. EXISTING COMMUNICATIONS OR COMMAND WIRE CONNECTIONS SHALL BE MAINTAINED AT ALL SIGNALIZED LOCATIONS DURING CONSTRUCTION. THIS SHALL INCLUDE INTERCONNECT, RAILROAD FLASHING BEACONS, RAILROAD PRE-EMPTION, FIRE PRE-EMPTION AND SCHOOL ZONE FLASHERS. THE CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY.

6. THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATIONS OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT COMMUNICATION CABLE OR TELCO PHONE LINES, FIBER Equipment, OR CELLULAR EQUIPMENT DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS AS NECESSARY. A TIME-BASED-COORDINATION (TBC) SYSTEM IS TO BE UTILIZED ONLY IF PROVISION OF THE TEMPORARY LINES IS NOT FEASIBLE. THE DEVELOPMENT AND IMPLEMENTATION OF THE TBC PROGRAM IS TO BE PERFORMED BY THE CONTRACTOR WITH OVERSIGHT BY A TRAFFIC ENGINEER REGISTERED IN THE STATE OF FLORIDA. COST OF MAINTAINING COMMUNICATION WITH THE CENTRAL SITE, INCLUDING TEMPORARY LINES AND CONNECTIONS, SHALL BE PAID FOR UNDER THE MAINTENANCE OF TRAFFIC PAY ITEM NUMBER. ALL REPORTED MALFUNCTIONS OF THE COMMUNICATIONS SYSTEM SHALL BE RESPONDED TO BY THE CONTRACTOR WITHIN TWO HOURS AND SHALL BE REPAIRED WITHIN 24 HOURS.

7. THE REGULATORY SPEED LIMITS ON BOTH ROADWAY CORRIDORS FOR THE INTERSECTION(S) DURING CONSTRUCTION SHALL BE MAINTAINED AT THE EXISTING POSTED SPEED LIMITS, UNLESS A SPEED REDUCTION IS REQUIRED FOR SAFE ROUTES TO SCHOOL.

8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE AND ADEQUATE WALKING SURFACE APPLICABLE TO THE AMERICANS WITH DISABILITIES ACT (ADA) FOR PEDESTRIANS DURING CONSTRUCTION. SAFE WALK ROUTES FOR ALL PEDESTRIANS AND TRANSIT BUS USERS WITHIN THE VICINITY OF THE CONSTRUCTION ZONE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THIS INCLUDES SAFE WALK ROUTES/ACCESS TO AND FROM EXISTING BUS STOPS AND TRANSIT VEHICLES.

9. WHERE CONSTRUCTION ACTIVITIES INVOLVE CONSECUTIVE BUS STOPS, ACCESS TO AND FROM BUS STOPS SHALL BE MAINTAINED. IF ACCESS TO AND FROM ALL BUS STOPS CANNOT BE MAINTAINED, THEN A BUS STOP MAY BE TEMPORARILY RELOCATED OR REMOVED. HOWEVER, NO TWO (2) CONSECUTIVE BUS STOPS MAY BE AFFECTED IN THIS MANNER. IF A BUS STOP REQUIRES TEMPORARY REMOVAL OR RELOCATION, THEN THE BROWARD COUNTY MASS TRANSIT DIVISION (BCT) SHALL BE NOTIFIED AT 954-357-8369 AT LEAST THIRTY (30) DAYS IN ADVANCE TO ALLOW SUFFICIENT TIME TO PLAN DETOURS (IN CASE OF A ROAD CLOSURE) AND/OR TO COMMUNICATE WITH AFFECTED PASSENGERS.

10. THIRTY (30) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE BCT TRANSIT AT 954-357-8369 TO ARRANGE A PRE-CONSTRUCTION TRANSIT ROUTE/PEDESTRIAN ACCESS SAFETY MEETING. THIS MEETING IS TO DETERMINE ALL BUS ROUTES AFFECTED AND TO MAKE ANY NECESSARY ARRANGEMENTS FOR REROUTING AND TEMPORARY SIGNING AND REMOVAL OF BUS STOP FURNITURE, I.E. BENCHES, SHELTERS, ETC.

11. THERE WILL BE NO LANE CLOSURES ALLOWED BETWEEN THE HOURS OF 6:00 AM TO 9:00 AM AND 3:30 PM TO 7:00 PM MONDAY THROUGH FRIDAY. ONE TRAVEL LANE CLOSURE SHALL BE ALLOWABLE IN EITHER DIRECTION DURING ACTIVE WORK PERIODS BETWEEN 9:00 AM TO 3:30 PM MONDAY THROUGH FRIDAY. ALL LANE CLOSURES REQUESTED DURING THESE TIMES SHALL BE SUBMITTED AT LEAST TWO
WEEKS AHEAD OF THE DATE OF CLOSURE, AND SHALL BE APPROVED BY THE COUNTY IN ACCORDANCE WITH FDOT LANE CLOSURE REQUIREMENTS.

12. LANE CLOSURES ON SATURDAY AND SUNDAY BETWEEN 8:00 AM TO 5:00 PM WILL BE ALLOWED, BUT ONLY WITH ADVANCED APPROVAL BY THE COUNTY, AND NOT DURING SPECIAL EVENTS. THE REQUEST FOR A LANE CLOSURE MUST BE MADE AT LEAST THREE (3) WEEKS IN ADVANCE OF THE SPECIFIED DATE FOR THE CLOSURE. THE REQUEST SHALL BE MADE THROUGH THE DESIGN CRITERIA PROFESSIONAL IN ACCORDANCE WITH FDOT LANE CLOSURE REQUIREMENTS.

13. IF TWO OR MORE LANES MUST BE CLOSED AT A TIME, THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE COUNTY AT LEAST THREE (3) WEEKS IN ADVANCE AND MAKE ARRANGEMENTS FOR THE WORK TO OCCUR BETWEEN THE HOURS OF 9:00 PM AND 5:00 AM ON MONDAY THROUGH SUNDAY WITH THE PROPER USE OF LAW ENFORCEMENT OFFICER(S). COSTS FOR THE LAW ENFORCEMENT OFFICERS SHALL BE INCLUDED IN THE TOTAL CONTRACT PRICE UNDER MAINTENANCE OF TRAFFIC.

14. THE CONTRACTOR SHALL REPORT ALL LANE CLOSURES, INCLUDING ROADWAY RAMP CLOSURES, TO THE LOCAL EMERGENCY AGENCIES, THE MEDIA AND THE COUNTY AT LEAST ONE WEEK PRIOR TO THE SCHEDULED CLOSURES. ALSO, CONTRACTOR SHALL DEVELOP THE PROJECT TO BE ABLE TO PROVIDE FOR ALL LANES OF TRAFFIC TO BE OPEN IN THE EVENT OF AN EMERGENCY OR IF THE LANE CLOSURE CAUSES A DRIVER DELAY GREATER THAN 20 MINUTES. AT THE DISCRETION OF THE ENGINEER, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN ANY CLOSED LANES UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.

15. THE CONSTRUCTION AND INSTALLATION OF TRAFFIC SIGNAL MAST ARMS AND THEIR FOUNDATIONS SHALL BE LIMITED TO ONE QUADRANT OF THE INTERSECTION AT ANY ONE TIME PERIOD. AFTER WORK IS COMPLETED IN ONE QUADRANT, ADDITIONAL WORK MAY PROCEED TO ANOTHER QUADRANT OF THE INTERSECTION.

16. SIDEWALKS, GUTTERS, DRAINS, FIRE HYDRANTS AND PRIVATE DRIVES SHALL BE KEPT IN GOOD CONDITION FOR THEIR INTENDED USES. FIRE HYDRANTS ON OR ADJACENT TO THE WORK SHALL BE KEPT ACCESSIBLE TO FIRE APPARATUS AT ALL TIMES, AND NO MATERIAL OR OBSTRUCTION SHALL BE PLACED WITHIN TEN (10) FEET OF ANY SUCH HYDRANT.

17. THE CONTRACTOR MAY BE REQUIRED TO REPOSITION EXISTING TRAFFIC SIGNAL HEADS IN ORDER TO MAINTAIN TRAFFIC FLOWS AT DIVERTED INTERSECTIONS. IF THIS SHOULD BE NECESSARY, CONTRACTOR MUST SUBMIT A PLAN FOR APPROVAL SHOWING THE COURSE OF WORK AND THE PLANNED REPOSITIONING. NO SEPARATE PAYMENT FOR REPOSITIONING THE EXISTING TRAFFIC SIGNAL HEADS WILL BE MADE.

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