PLANNING AND DEVELOPMENT DEPARTMENT

CENTRAL AVENUE AT OSBORNE AVENUE

SIGNALIZATION PLANS

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THIS SHEET IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C. THIS SHEET HAS BEEN DIGITALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE DIGITAL SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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* THIS SHEET IS INCLUDED IN THE INDEX OF SIGNALIZATION PLANS ONLY TO INDICATE THAT IT IS PART OF THE SIGNALIZATION PLANS. THIS SHEET IS CONTAINED IN A SEPARATE DIGITALLY SIGNED AND SEALED DOCUMENT.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE FLORIDA DEPT. OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (DATED JULY 2016), THE FLORIDA DEPT. OF TRANSPORTATION, STANDARD SPECIFICATIONS (DATED JANUARY 2016) AND SUPPLEMENTS THERETO, AND THE LATEST HILLSBOROUGH COUNTY, STANDARD SPECIFICATIONS.
The Enclosed Document Is Provided For Your Convenience.

Please Email ALL Questions:
MailTo:ContractAdministration@TampaGov.net

City of Tampa
Contract Administration Department
306 E. Jackson St. #280A4N
Tampa, FL 33602
(813)274-8456
<table>
<thead>
<tr>
<th>PAY ITEM NO</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>TOTAL THIS SHEET</th>
<th>GRAND TOTAL</th>
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<td>MAINTENANCE OF TRAFFIC</td>
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<td>DETECTABLE MARKING</td>
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<td>0102-3</td>
<td>CONDUIT &amp; INSTALL, DIRECTIONAL BORE</td>
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<td>CONDUIT, FURNISH &amp; INSTALL, DIRECTIONAL BORE</td>
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<td>STEEL MAST AMP ASSEMBLY, F. &amp; I., DOUBLE ARM, 55'-50'</td>
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<td>STEEL MAST AMP ASSEMBLY, F. &amp; I., DOUBLE ARM, 65'-60'</td>
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<td>0103-7</td>
<td>VEHICLE DETECTION SYSTEM VIDEO, F. &amp; I., CABS, INCLUDE EQUIPMENT</td>
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<td>SINGLE POST SIGN, RELOCATE</td>
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<td>720-3-22</td>
<td>INTERNALLY ILLUMINATED SIGN, F. &amp; I., OVERHEAD MOUNT, 12&quot; - 18&quot; SF</td>
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</table>

**Note:** These quantities are paid for under Painted Pavement Markings (Final Surface), lump sum - item No. 710-90. The quantities are shown for one application; see foot specification 710 for the number of applications required.
12. TRAFFIC SIGNAL CABLE PROVIDING POWER TO VEHICULAR AND PEDESTRIAN SIGNAL

PAY ITEM FOOTNOTES:

SIGNALIZATION:

6. SUBMIT THE AS-BUILT PLANS TO THE ENGINEER FOR FINAL ACCEPTANCE. THE ENGINEER SHALL

THE TERMINATION ENDS OF ALL POLYVINYL CHLORIDE (PVC) PLASTIC CONDUIT ENTER-

TO BE CAPPED IN CABINET AND STUBBED INTO NEAREST SIGNAL PULLBOX. THE CONTROLLER BASE SHALL CONTAIN A MIN. OF FOUR CONDUITS. UNUSED CONDUITS

SEPARATE UNDERGROUND CONDUIT RUNS LOCATED 180 DEGREES APART ARE REQUIRED

A MINIMUM SIZE OF TWO INCHES UNLESS OTHERWISE SPECIFIED IN THE PLANS.  TWO

ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH

DRILL RIG.

PLANS. IN AREAS OF LIMITED OVERHEAD CLEARANCE CONTRACTOR IS TO USE A LOW PROFILE

CONDUCTOR EXISTS AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR ON THE

ADVANCE OF SETTING ANY POLE WHERE CONFLICT WITH AN OVERHEAD ELECTRICAL

RESULT IN REJECTION OF ALL UNINSPECTED WORK.

THE SIGNAL CONTRACTOR SHALL CONTACT:

THE ENGINEER

TABLE OF CONTENTS

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO

PROVIDE AND MAINTAIN THE OPERATION OF TEMPORARY SIGNALIZATION.

BID ITEM FOR SIGNS SHALL BE FURNISH AND INSTALL ONLY AND WILL INCLUDE ELECTRICAL

ILLUMINATED STREET NAME SIGNS SHALL BE LED SUPPLIED BY THE CONTRACTOR.

EQUIPMENT, CABINET, AND TRAFFIC SIGNAL COMPUTER SYSTEM. THE CONTRACTOR SHALL COORDINATE WITH

THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIALS TO FURNISH AND INSTALL A VIDEO

Illuminated street name sign panel located inside the controller cabinet. This item shall

LOCATED INSIDE THE CONTROLLER CABINET AND PHOTOELECTRIC CELL CONDUCTORS TO INTERNALLY

THIS SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE AND OTHER MATERIALS FOR CONTROLLER BASE,

NO. 625-4-22. PEDESTRIAN SIGNAL CABLE SHALL NOT BE JUMPERED FROM CORNER TO CORNER.

THE CONTROLLER SHALL HAVE THE CAPABILITY OF SENDING AND RECEIVING DATA TO FROM A LAPTOP PERSONAL COMPUTER AT THE SITE.

THE CONTRACTOR SHALL PROVIDE SUBMITTAL DOCUMENTATION ON ALL EQUIPMENT AND CABLE.

CITY OF TAMPA DEPARTMENT

THE TOP ELEVATION OF THE CONTROLLER BASE SHALL BE GREATER THAN THE CROWN

THE OFFICIAL SHEET OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.
CONSTRUCTION PHASING

PHASE I
CONSTRUCT CURB, SIDEWALK, AND SIGNALS ON THE SOUTHWEST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT.

PHASE II
CONSTRUCT SIGNALS ON THE SOUTHEAST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT.

PHASE III
CONSTRUCT CURB, SIDEWALK, AND SIGNALS ON THE NORTHEAST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT.

PHASE IV
CONSTRUCT CURB, SIDEWALK, AND SIGNALS ON THE NORTHWEST CORNER. UTILIZE INDEX 600, 601, 602, 603, 604, 605, AND 660 FOR PEDESTRIAN CONTROL. MAINTAIN EXISTING TRAFFIC SIGNALS AND EQUIPMENT. WHEN THE NEW SIGNALS ARE COMPLETE AND OPERATIONAL.

PHASE V
MILL AND RESURFACE THE ENTIRE INTERSECTION. PLACE FINAL SURFACE PAVED PER PLACEMENT MARKINGS PER THE PLAN. UTILIZE INDEX 600 AND 607.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THIS SHEET.

2000 EAST 11TH AVENUE, SUITE 300, TAMPA, FL 33605
JORDAN L. CAVIDGIA, P.E. NO. 68253
Reviewed:
Approved:
Date:
Date:
CONSTRUCTION PHASING

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THIS SHEET IN ACCORDANCE WITH RULE 61G15-23.001 F.A.C. THIS SHEET HAS BEEN DIGITALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE.

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The official record of this sheet is the electronic file digitally signed and sealed under Rule 61G15-23.001, F.A.C.
GENERAL NOTES
1. SIGN LOCATIONS ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT
   AS DIRECTED BY THE ENGINEER.
### STANDARD MAST ARM ASSEMBLIES DATA TABLE

<table>
<thead>
<tr>
<th>Structure ID Numbers</th>
<th>Designation</th>
<th>First Arm</th>
<th>Second Arm</th>
<th>Uf (deg)</th>
<th>Ll (deg)</th>
<th>Pole</th>
<th>Drilled Shaft Id</th>
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<td>A50/D-A50/D-P3/D-DS/18/5.0</td>
<td>A50/D</td>
<td>A50/D</td>
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<td>90</td>
<td>P3/D</td>
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<td>1 - 2</td>
<td>A60/D-A40/D-P4/D-DS/16/5.0</td>
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<td>A60/D</td>
<td>36.0</td>
<td>270</td>
<td>P4/D</td>
<td>23.5</td>
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**NOTES** [Notes Date 11-01-16]:

1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.

2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.

3. Arm mounting height UB must be between 18-22 feet.

4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.

5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.


7. Design Wind Speed = 150 mph

**FOUNDATION NOTES** [Notes Date 01-01-12]:

1. Design based on Borings taken sealed by Martin E Millburg, PE.

2. Assumptions and Values used in design:

   - Mast Arm 1-1:
     - Soil Type: Sand (Cohesionless)
     - Soil Layer Thickness = 20 ft.
     - Soil Friction Angle = 30 deg.
     - Soil Weight = 56 pcf
     - SPT N-VALUE = 7 blows/ft.
     - Design Water Table is 0 ft. below surface.

   - Mast Arm 1-2:
     - Soil Type: Sand (Cohesionless)
     - Soil Layer Thickness = 25 ft.
     - Soil Friction Angle = 31 deg.
     - Soil Weight = 57 pcf
     - SPT N-VALUE = 7.5 blows/ft.
     - Design Water Table is 0 ft. below surface.

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