

COMPONENTS OF CONTRACT PLANS SET

SIGNALIZATION PLANS

TOWN OF SURFSIDE

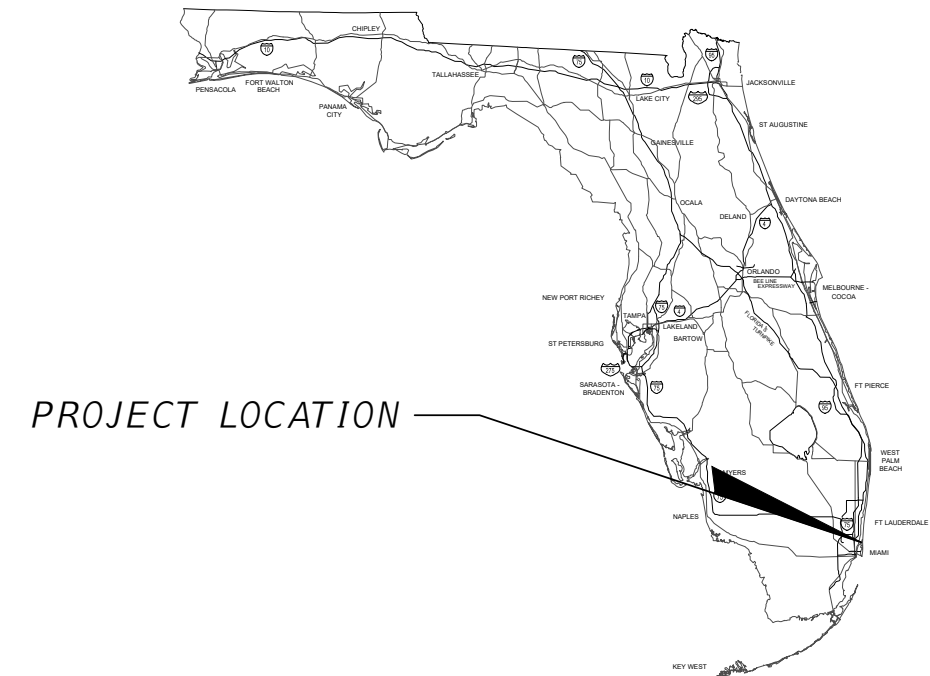
TRAFFIC SIGNAL MODIFICATIONS

**HARDING AVENUE AND 88 STREET
HARDING AVENUE AND 93 STREET
HARDING AVENUE AND 94 STREET**

INDEX OF SIGNALIZATION PLANS

| SHEET NO. | SHEET DESCRIPTION |
|------------|---|
| T-1 | KEY SHEET |
| T-2 | TABULATION OF QUANTITIES |
| T-3 | SIGNALIZATION GENERAL NOTES |
| T-4 - T-6 | SIGNALIZATION PLAN |
| T-7 - T-8 | MIAMI-DADE COUNTY LOOP INSTALLATION DETAILS |
| T-9 - T-10 | MIAMI-DADE COUNTY VIDEO VEHICLE DETECTION DETAILS |

MIAMI-DADE COUNTY REFERENCE # 2017000223



SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO:

DIANA RIVAS, P.E.
CALVIN, GIORDANO & ASSOCIATES INC.
1800 ELLER DRIVE
SUITE 600
FORT LAUDERDALE, FL 33316
PHONE: 954-921-7781 FAX: 954-921-8807
PLANS PREPARED BY:



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS®
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514
VENDOR I.D. NO. 65-001-3899

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, 2016 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS

For Design Standards revisions click on "Design Standards" link at following web site:
<http://www.fdot.gov/roadway/DesignStandards.shtm>

For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.fdot.gov/programmanagement/implemented/SpecsBook>

REVISIONS

- △ GENERAL NOTES - SHEET T-3 (REVISED 08-30-16)
- △ △ TABULATION OF QUANTITIES - SHEET T-2 (REVISED 12-28-16)
- △ △ SIGNALIZATION PLAN SHEETS T-4, T-5, T-6, T-7 (REVISED 12-28-16)

| KEY SHEET REVISIONS | |
|---------------------|------------------------------|
| DATE | DESCRIPTION |
| 08-30-16 | △ FDOT COMMENTS 8/20/16 |
| 11-21-16 | △ MIAMI-DADE COUNTY COMMENTS |
| 12-28-16 | △ MIAMI-DADE COUNTY COMMENTS |

SIGNALIZATION PLANS
ENGINEER OF RECORD: DIANA RIVAS, P.E.

P.E. NO.: 74568



| FISCAL YEAR | SHEET NO. |
|-------------|-----------|
| 16 | T-1 |

**FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION**

File Name: P:\Projects\2015\158083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94 Bidding\KEYSS001.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:11:48 AM)

TABULATION OF QUANTITIES

| PAY ITEM NO. | DESCRIPTION | UNIT | SHEET NUMBERS | | | | | | GRAND TOTAL | | REF. SHEET |
|--------------|--|------|---------------|-------|------|-------|------|-------|-------------|-------|------------|
| | | | T-4 | | T-5 | | T-6 | | PLAN | FINAL | |
| | | | PLAN | FINAL | PLAN | FINAL | PLAN | FINAL | | | |
| 101-1 | MOBILIZATION | LS | 1 | | | | | | 1 | | |
| 102-1 | MAINTENANCE OF TRAFFIC | LS | 1 | | | | | | 1 | | |
| 104-18 | INLET PROTECTION SYSTEM | EA | 8 | | 6 | | 2 | | 16 | | |
| 110-1-1 | CLEARING AND GRUBBING | LS | 1 | | | | | | 1 | | |
| 522-1 | CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK (INCLUDES REMOVAL AND REPAIRS) | LS | 1 | | | | | | 1 | | |
| 630-2-11 | CONDUIT, (F&I) (OPEN TRENCH) | LF | 20 | | 60 | | 60 | | 140 | | |
| 630-2-12 | CONDUIT, (F&I) (DIRECTIONAL BORE) | LF | 190 | | 170 | | 180 | | 540 | | |
| 632-7-2 | SIGNAL CABLE, REPAIR/REPLACE/OTHER (F&I) | LF | 190 | | 170 | | 180 | | 540 | | |
| 635-2-11 | PULL & SPLICE BOX (F&I) (13"x24" COVER SIZE) | EA | 6 | | 6 | | 5 | | 17 | | |
| 646-1-11 | ALUMINUM SIGNALS POLE (F&I) PEDESTAL | EA | 2 | | 2 | | 1 | | 5 | | |
| 646-1-60 | ALUMINUM SIGNALS POLE (REMOVE) | EA | 1 | | 1 | | | | 2 | | |
| 653-1-11 | PEDESTRIAN SIGNAL (F&I) (LED COUNTDOWN) (1 WAY) | AS | 4 | | | | | | 4 | | |
| 653-1-12 | PEDESTRIAN SIGNAL (F&I) (LED COUNTDOWN) (2 WAYS) | AS | 2 | | 2 | | | | 4 | | |
| 653-1-40 | PEDESTRIAN SIGNAL, RELOCATE | AS | | | | | 1 | | 1 | | |
| 653-1-60 | PEDESTRIAN SIGNAL (REMOVE) | AS | 6 | | 2 | | | | 8 | | |
| 660-1-109 | LOOP DETECTOR INDUCTIVE (F&I) TYPE 9 | EA | 2 | | 2 | | 1 | | 5 | | |
| 660-2-101 | LOOP ASSEMBLY (F&I) TYPE A | EA | 2 | | 2 | | 1 | | 5 | | |
| 660-4-11 | VEHICLE DETECTION SYSTEM (VIDEO) (F&I) INSTALL CABINET EQUIPMENT | EA | | | | | 1 | | 1 | | |
| 660-4-12 | VEHICLE DETECTION SYSTEM (VIDEO) (F&I) ABOVE GROUND EQUIPMENT | EA | | | | | 1 | | 1 | | |
| 665-1-11 | PEDESTRIAN DETECTOR (F&I) INCLUDES R10-031 SIGN | EA | 8 | | 8 | | 8 | | 24 | | |
| 665-1-60 | PEDESTRIAN DETECTOR (REMOVE) | EA | 3 | | | | | | 3 | | |
| 670-5-400 | TRAFFIC CONTROLLER ASSEMBLY, MODIFY | AS | 1 | | 1 | | 1 | | 3 | | |

522-1 INCLUDES THE COST OF CONCRETE SIDEWALK REMOVAL AND REPAIRS FOR THE INSTALLATION OF NEW PULL BOXES AND PEDESTRIAN POLES. SAW CUTTING OF THE EXISTING SIDEWALK SHALL BE MADE ONLY AT THE NEAREST FLAG JOINTS.

File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\TAB05001.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:11:58 AM)

**FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION**



| REVISIONS | | | |
|-----------|------------------------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| 8/20/16 | △ FDOT COMMENTS 8/20/2016 | | |
| 11/21/16 | △ MIAMI-DADE COUNTY COMMENTS | | |
| 12/28/16 | △ MIAMI-DADE COUNTY COMMENTS | | |



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514
VENDOR I.D. NO. 65-001-3869
Engineer of Record: Diana Rivas, P.E. No. 74568

| | |
|------------------|-------------|
| CITY | PROJECT NO. |
| TOWN OF SURFSIDE | |

TABULATION OF QUANTITIES

SHEET NO.
T-2

**FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT 6
SIGNALIZATION PLAN NOTES**

1. THE CONTRACTOR SHALL PERFORM AN INVENTORY OF THE EXISTING INTERSECTIONS PRIOR TO THE BEGINNING CONSTRUCTION ACTIVITIES, AND SUBMIT TWO (2) COPIES OF THE INVENTORY REPORT, LISTING ALL OPERABLE AND INOPERABLE SIGNAL ITEMS TO THE ENGINEER. ALL DAMAGED ITEMS SHOULD BE CLEARLY IDENTIFIED IN THE REPORT.
2. GOVERNING STANDARDS AND SPECIFICATIONS FOR SIGNALIZATION ITEMS OF WORK ARE: THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE TRAFFIC CONTROL EQUIPMENT SPECIFICATIONS AND STANDARDS FOR THE METRO TRAFFIC CONTROL SYSTEM MIAMI-DADE COUNTY 2000 EDITION; MODIFICATIONS TO TRAFFIC CONTROL EQUIPMENT SPECIFICATIONS AND STANDARDS FOR THE METRO TRAFFIC CONTROL SYSTEM MIAMI-DADE COUNTY 2000 EDITION.
3. ALL ELECTRICAL AND ELECTRONIC EQUIPMENT AND STRUCTURES SHALL COMPLY WITH THE FDOT APL AND THE MIAMI DADE COUNTY QPL.
4. THE SIGNAL-MAINTAINING AGENCY IS:

MIAMI DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT, TRAFFIC SIGNAL & SIGN DIVISION.
5. THE CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY WORK TO BE CARRIED OUT AT ANY SIGNAL RELATED INSTALLATION AND UTILITY OWNERS LISTED BELOW:

AMERICAN TRAFFIC SOLUTIONS / KIMBERLY GREIS / DAY: 631-242-4100 / EMERG: 866-682-8669 & SANTIAGO MARTINEZ / 480-443-7000
DADE COUNTY PUBLIC WORKS AND TRAFFIC / LISA: 786-3450986 / OCTAVIO: 786-306-1168
FLORIDA POWER & LIGHT (DADE) (ELECTRIC) / ANGEL LARRAMENDI / 386-329-5152
FLORIDA POWER & LIGHT (TRANSMISSION) / SEYED HAJASSADOLLAH / DAY: 305-228-5290 / ALT: 305-495-8601
ATLANTIC BROADBAND / PETE FREYTAG / DAY: 305861-8069 x 5208 / ALT: 786-251-5989 & EDWIN ZAMBRANA / 305-861-8069 / EXT. 5411
HOTWIRE COMMUNICATIONS / WALTER SANCHO DAVILA / DAY: 954-417-3606 / ALT: 954-248-7396
TECO PEOPLE GAS SOUTH FLORIDA / ALEX ROCHE / 954-453-0811
AT&T DISTRIBUTION / STEVE LOW / DAY: 305-222-8745
6. PULL BOXES, MAST ARM FOUNDATIONS AND CONTROLLER FOUNDATIONS SHALL HAVE A MINIMUM 4" CLEARANCE FROM ALL JOINTS AND EDGE OF SIDEWALK. THERE SHALL BE NO EXPANSION MATERIAL AROUND PULL BOXES, MAST ARM FOUNDATIONS AND CONTROLLER FOUNDATIONS.
7. ALL SALVAGEABLE SIGNAL EQUIPMENT THAT ARE REMOVED MUST BE DELIVERED AND UNLOADED AT THE, MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT TRAFFIC SIGNALS & SIGNS DIVISION:

7100 N.W. 36TH STREET
MIAMI, FLORIDA 33166

RECEIPTS MUST BE OBTAINED FROM THE ABOVE AGENCY AND SUBMITTED TO THE PROJECT ENGINEER TO RECEIVE PAYMENT FOR REMOVAL ITEMS.
8. SIGNAL EQUIPMENT CONSIDERED SALVAGEABLE IS AS FOLLOWS:

CONTROLLERS, CONTROLLER CABINETS, CONTROLLER HARDWARE AND SOFTWARE, FLASHERS, COMMUNICATION DEVICES AND HARDWARE, SIGNAL HEADS, MAST-ARM POLES AND ASSOCIATED HARDWARE, MOUNTED MAST ARM SIGNS, PEDESTRIAN DETECTORS, PEDESTRIAN SIGNAL HEADS. ALL OTHER EQUIPMENT SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IN WRITING, NO LESS THAN 14 WORKING DAYS IN ADVANCE OF THE NEED OF ELECTRICAL POWER SERVICE HOOKUPS OF SIGNALIZATION / STREET LIGHTING FACILITIES. THE CONTRACTOR SHALL SUBMIT A LETTER OF REQUEST ALONG WITH AN AFFIDAVIT OF GENERAL ELECTRICAL WORK, SIGNED AND CERTIFIED BY A MASTER ELECTRICIAN.
10. INSTALLATIONS OF NEW PULL BOXES SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR. WHEN NEW PULL BOX IS REPLACING EXISTING PULL BOX, THE CONTRACTOR SHALL ADJUST CONDUITS AND CABLES TO FIT THE NEW PULL BOX ELEVATION. COST OF ADJUSTMENTS IS INCLUDED IN THE PULL BOX PAY ITEM.
11. THE CONTRACTOR SHALL CONSTRUCT CONCRETE SLABS AROUND ALL PULL BOXES; MAST ARM POLES, CONTROLLERS, SERVICE POINTS AND ELECTRICAL DEVICES LOCATED IN UNPAVED/GRASS AREA. SEE INDEX 17500 FOR DETAILS AND NOTES. COST OF THE SLAB CONSTRUCTION, INCLUDING REINFORCED STEEL FABRIC, SHALL BE INCLUDED IN THE RELATED PAY ITEMS FOR PULL BOXES; MAST ARM POLES, CONTROLLERS, SERVICE POINTS AND ELECTRICAL DEVICES.
12. THE CONTRACTOR SHALL RESPOND TO ALL TROUBLE CALL DISPATCHES AND REPORTED MALFUNCTIONS OF TRAFFIC SIGNAL WITHIN (2) HOURS. CLEAR DISPATCHES WITH THE TRAFFIC CONTROL CENTER (TCC) OPERATOR OR TIMING ENGINEER AT 305 592-8925 EXT. 248.
13. THE CONTRACTOR SHALL NOTIFY THE MIAMI DADE PUBLIC WORK AND WASTE MANAGEMENT DEPARTMENT, TRAFFIC SIGNAL & SIGN DIVISION DAILY, VIA E-MAIL AND FAX 305 477-6422, OF THE SIGNAL AND ELECTRICAL WORK LOCATIONS. ALL THE DAILY E-MAILS AND FAXES SHALL BE SENT BETWEEN 7:00 AM AND 8:00 AM.
14. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF FOUR (4) SPARE SIGNAL CONDUCTORS FROM EXISTING MAST ARM AND PEDESTRIAN POLES TO THE CONTROLLER CABINET.
15. GALVANIZED STEEL COUPLINGS AND FITTINGS WHEN INSTALLED IN DIRECT CONTACT WITH THE SOIL OR IN CONCRETE SHALL BE COATED WITH A PROTECTIVE ANTICORROSION PAINT, ASPHALT COMPOUND, OR OTHER EQUIVALENT PROTECTION TO HELP PREVENT DETERIORATION.



**FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION**

**SIGNALIZATION
GENERAL NOTES**

SHEET
NO.

T-3



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514
VENDOR I.D. NO. 65-001-3869
Engineer of Record: Diana Rivas, P.E. No. 74568

CITY
TOWN OF
SURFSIDE

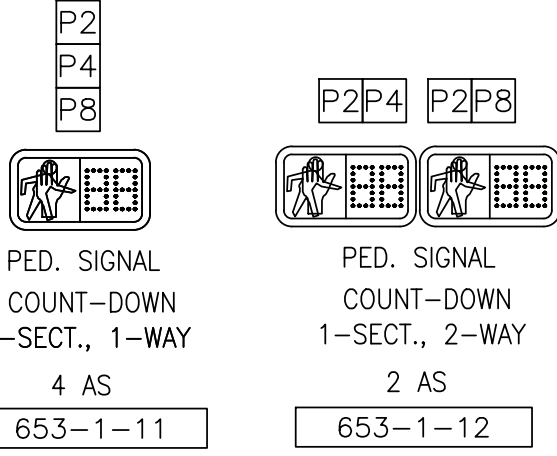
PROJECT NO.

File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\GNNTS601.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:12:06 AM)

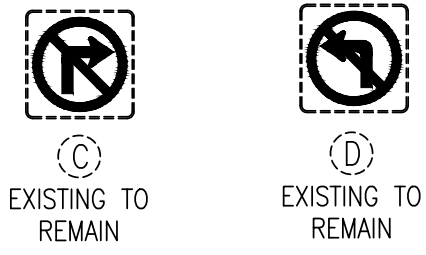
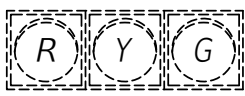
| REVISIONS | | | |
|-----------|-----------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| 8/30/16 | △ FDOT COMMENTS | | |

File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\PLANS001.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:12:39 AM)

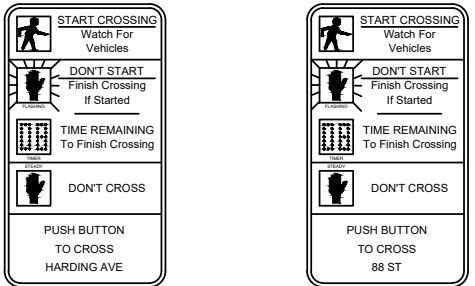
PROPOSED PEDESTRIAN SIGNAL HEAD DETAILS



[2] [4] [8]



PEDESTRIAN DETECTOR SIGN



R10-03j
9" X 15"
4 EA
INCLUDED IN
665-1-11

R10-03j
9" X 15"
4 EA
INCLUDED IN
665-1-11

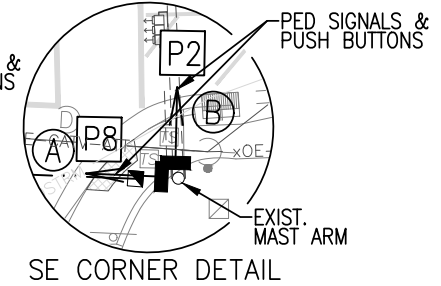
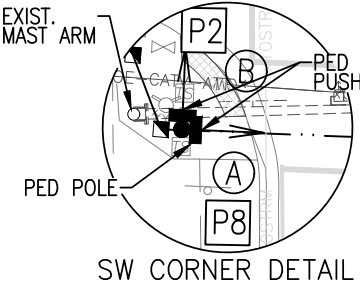
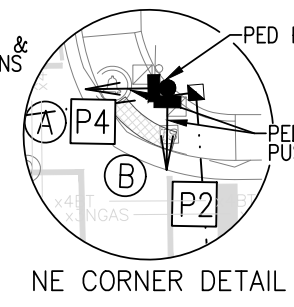
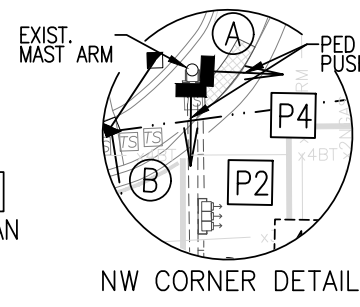
MOUNT ON PEDESTRIAN SIGNAL POLES

(A) (B)



EXISTING TO REMAIN

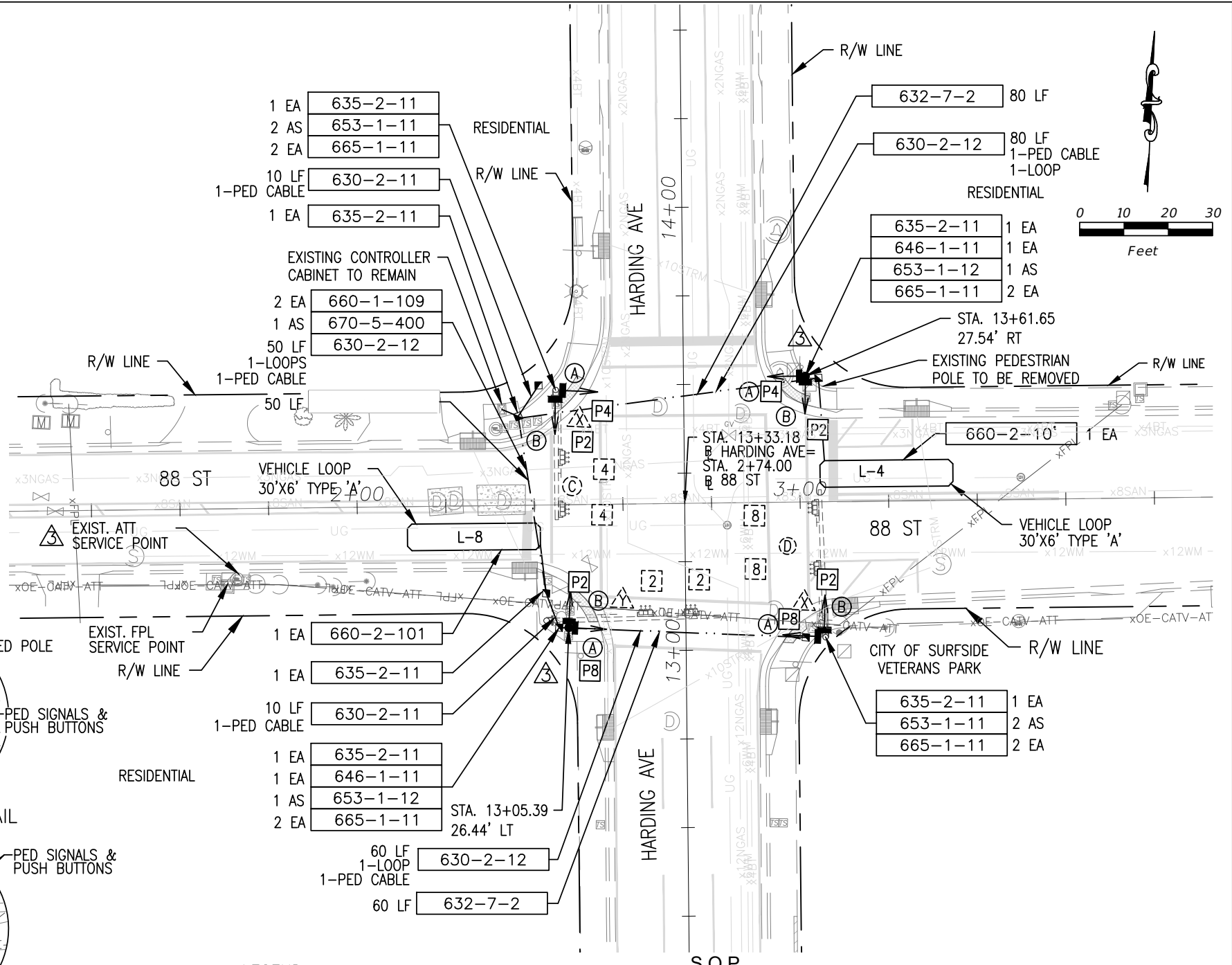
EXISTING TO REMAIN



| TOTAL REMOVAL ITEMS | | |
|---|----------|------|
| ALUMINUM SIGNALS POLE, PEDESTAL | 646-1-60 | 1 EA |
| PEDESTRIAN SIGNALS, REMOVE | 653-1-60 | 6 AS |
| PEDESTRIAN DETECTOR, REMOVE-POLE / PEDESTAL TO REMAIN | 665-1-60 | 3 EA |

| FACE NUMBER | 1 | 2 | 3 |
|-------------------|-----|-----|-----|
| DIRECTION | SBT | WBT | EBT |
| INITIAL GREEN | 7 | 7 | 7 |
| VEHICLE EXT. GAP | 2.5 | 2.5 | 2.5 |
| MAXIMUM GREEN | 50 | 10 | 10 |
| MAX 2 | 0 | 22 | 22 |
| YELLOW CLEARANCE | 4 | 4 | 4 |
| ALL RED CLEARANCE | 3.5 | 3.2 | 3.2 |
| WALK | 7 | 5 | 5 |
| PED CLEARANCE | 12 | 15 | 15 |

- NOTES:**
1. MAJOR STREET: HARDING AVENUE - SPEED LIMIT 30 MPH.
 2. MINOR STREET: 88 STREET - SPEED LIMIT 20 MPH.
 3. EXISTING SIGNAL OPERATING PLAN AND TIMING TO REMAIN AS SHOWN PROVIDED BY MIAMI-DADE COUNTY TRAFFIC SIGNAL AND SIGNS DIVISION.
 4. LOOPS SHALL BE INSTALLED 2 FEET BEYOND THE STOP BAR.
 5. STATIONS AND OFFSETS ARE IN REFERENCE TO HARDING AVE. BASELINE AS SHOWN ON SHEET T-4 UNLESS OTHERWISE NOTED.
 6. WHEN IN FLASH MODE SIGNAL HEADS 2 SHALL FLASH YELLOW, SIGNAL HEADS 4 AND 8 SHALL FLASH RED.
 7. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD IF A 30"X48" MANEUVERING AREA IN FRONT OF EACH PUSH BUTTON CAN NOT BE ACHIEVED. PER FDOT INDEX 17784.



REVISIONS

| DATE | DESCRIPTION | DATE | DESCRIPTION |
|----------|----------------------------|------|-------------|
| 11/21/16 | MIAMI-DADE COUNTY COMMENTS | | |
| 12/28/16 | MIAMI-DADE COUNTY COMMENTS | | |

Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONSSM
 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
 Phone: 954.921.7781 • Fax: 954.921.8807
 Certificate of Authorization 514
 VENDOR I.D. NO. 65-001-3869
 Engineer of Record: Diana Rivas, P.E. No. 74568

| CITY | PROJECT NO. |
|------------------|-----------------------|
| TOWN OF SURFSIDE | HARDING AVE AND 88 ST |

ID 2914
HARDING AVE & 88 ST
SIGNALIZATION PLAN

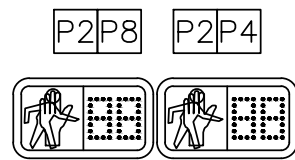
FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
 It's fast. It's free. It's the law.
 www.callsunshine.com

SHEET NO. T-4

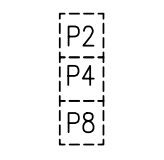
File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\PLANS001.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:50:42 AM)

PROPOSED PEDESTRIAN SIGNAL HEAD DETAILS

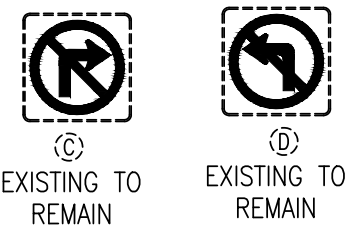
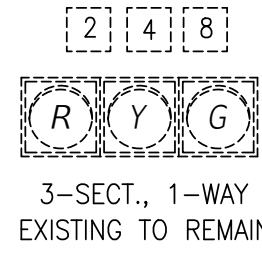


PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY
2 AS
653-1-12

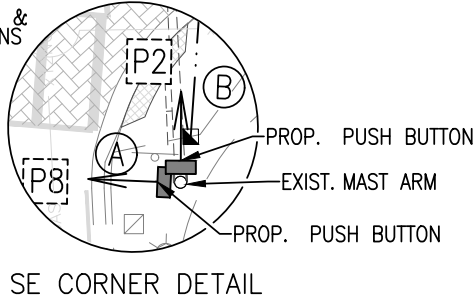
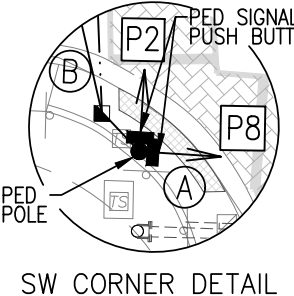
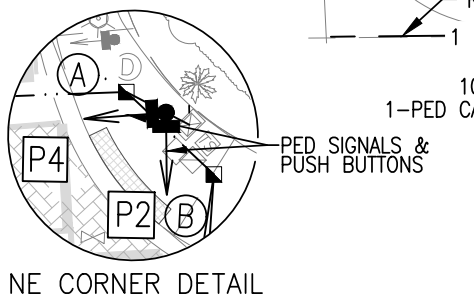
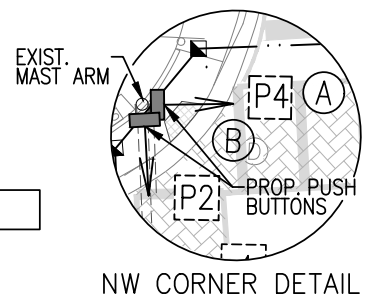
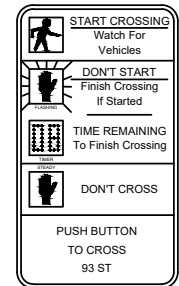
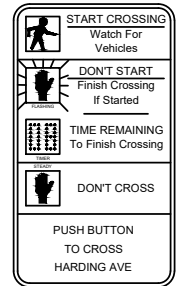
EXISTING PEDESTRIAN SIGNAL HEAD DETAIL



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY



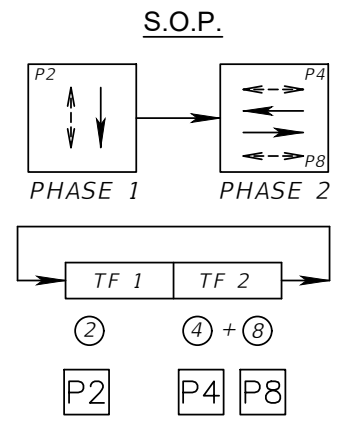
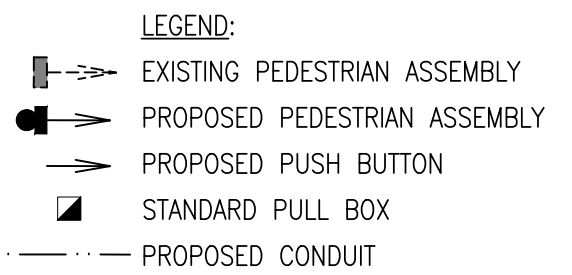
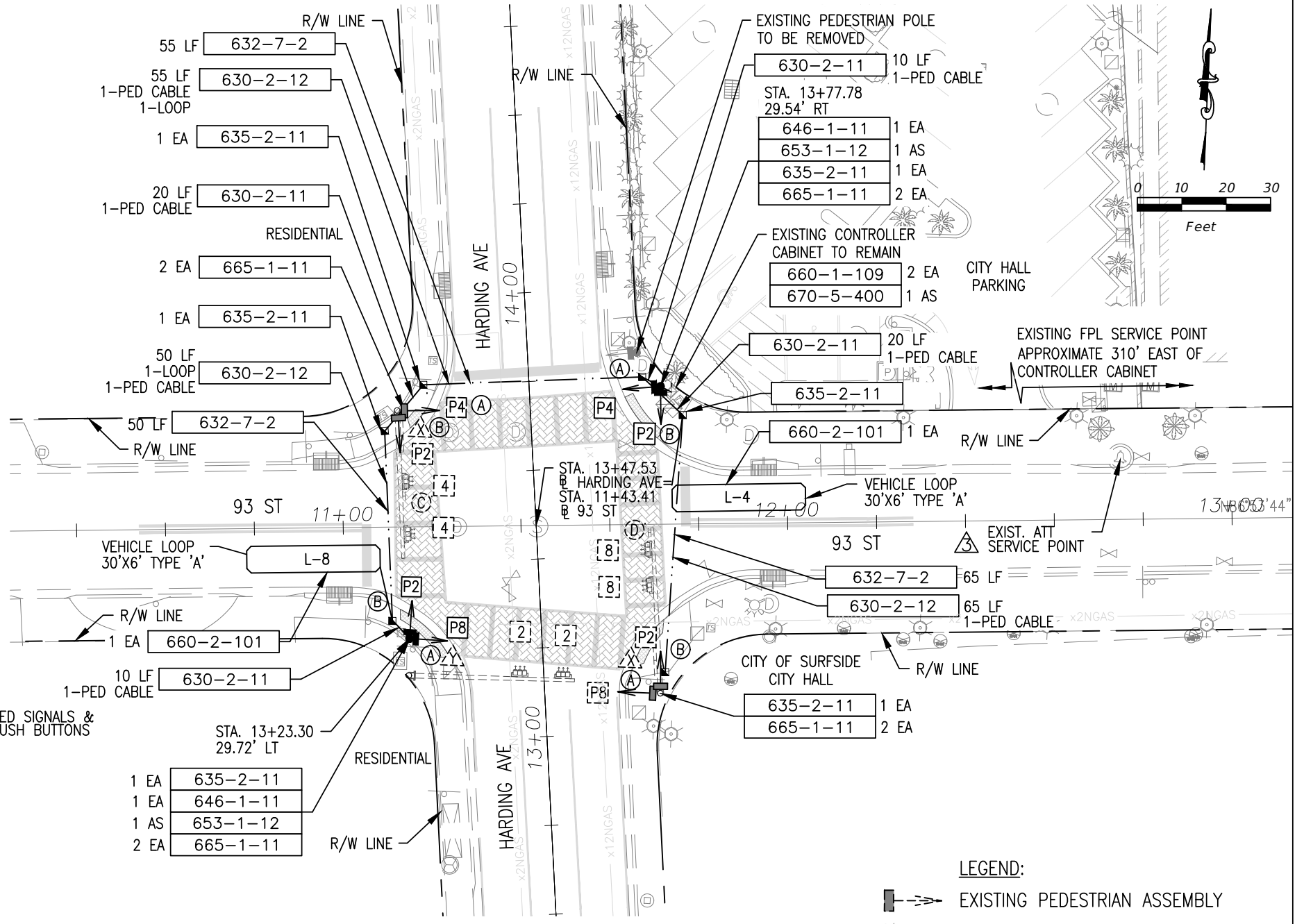
PEDESTRIAN DETECTOR SIGN



| TOTAL REMOVAL ITEMS | | |
|------------------------------|----------|------|
| ALUMINUM SIGNAL POLE, REMOVE | 646-1-60 | 1 EA |
| PEDESTRIAN SIGNALS, REMOVE | 653-1-60 | 2 AS |

| FACE NUMBER | 1 | 2 | 3 |
|-------------------|-----|-----|-----|
| DIRECTION | SBT | WBT | EBT |
| INITIAL GREEN | 7 | 7 | 7 |
| VEHICLE EXT. GAP | 1 | 2.5 | 2.5 |
| MAXIMUM GREEN | 40 | 21 | 21 |
| MAX 2 | 40 | 21 | 21 |
| YELLOW CLEARANCE | 4 | 4 | 4 |
| ALL RED CLEARANCE | 2 | 2 | 2 |
| WALK | 7 | 4 | 4 |
| PED CLEARANCE | 12 | 16 | 16 |

- NOTES:**
1. MAJOR STREET: HARDING AVENUE - SPEED LIMIT 30 MPH.
 2. MINOR STREET: 93 STREET - SPEED LIMIT 20 MPH.
 3. EXISTING SIGNAL OPERATING PLAN AND TIMING TO REMAIN AS SHOWN PROVIDED BY MIAMI-DADE COUNTY TRAFFIC SIGNAL AND SIGNS DIVISION.
 4. LOOPS SHALL BE INSTALLED 2 FEET BEYOND THE STOP BAR.
 5. STATIONS AND OFFSETS ARE IN REFERENCE TO HARDING AVE. BASELINE AS SHOWN ON SHEET T-5 UNLESS OTHERWISE NOTED.
 6. WHEN IN FLASH MODE SIGNAL HEADS 2 SHALL FLASH YELLOW, SIGNAL HEADS 4 AND 8 SHALL FLASH RED.
 7. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD IF A 30'X48" MANEUVERING AREA IN FRONT OF EACH PUSH BUTTON CAN NOT BE ACHIEVED. PER FDOT INDEX 17784.



| DETECTOR FOR LOOPS | | |
|--------------------|--------------|-------------|
| LOOPS | NO. OF LOOPS | NO. OF DETS |
| L-4 | 1 | 1 |
| L-8 | 1 | 1 |



**FOR BIDDING PURPOSES ONLY
NOT FOR CONSTRUCTION**

| REVISIONS | | | |
|-----------|----------------------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| 11/21/16 | MIAMI-DADE COUNTY COMMENTS | | |
| 12/28/16 | MIAMI-DADE COUNTY COMMENTS | | |

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514
VENDOR I.D. NO. 65-001-3869
Engineer of Record: Diana Rivas, P.E. No. 74568

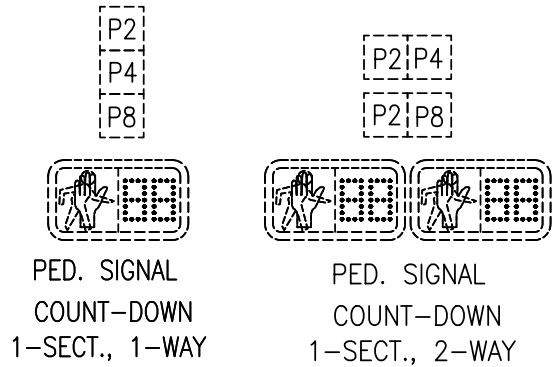
| | | |
|------------------|-----------------------|--|
| CITY | HARDING AVE AND 93 ST | |
| TOWN OF SURFSIDE | PROJECT NO. | |

ID 3185
**HARDING AVE & 93 ST
SIGNALIZATION PLAN**

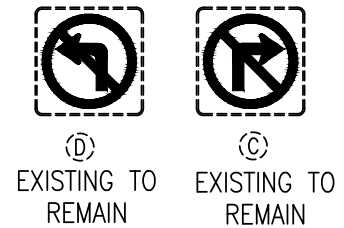
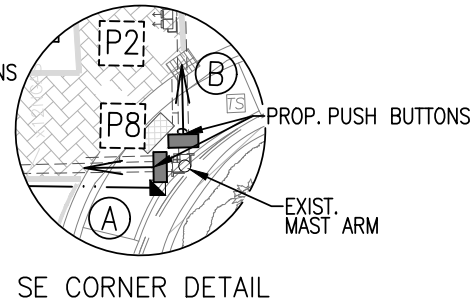
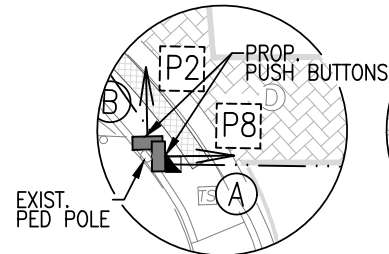
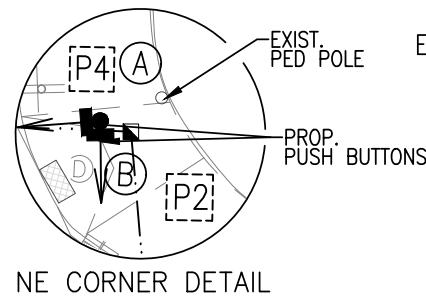
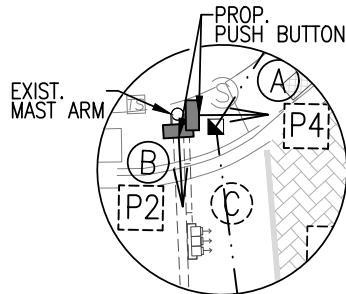
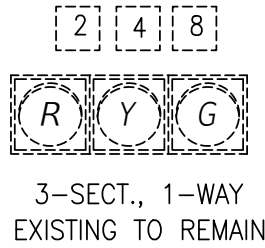
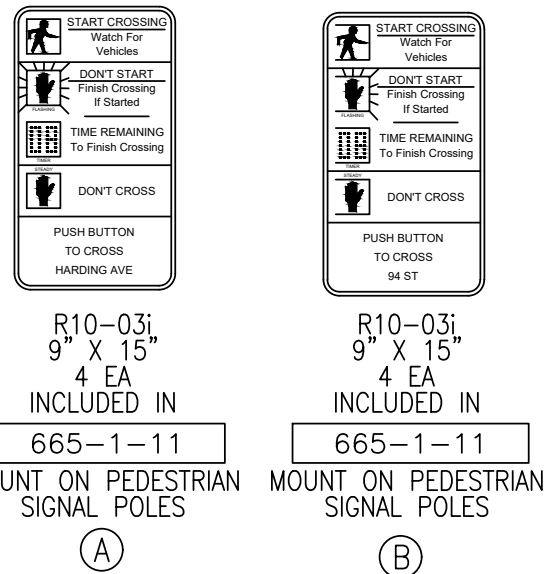
SHEET NO. T-5

File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\PLANS001.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:13:10 AM)

EXISTING PEDESTRIAN SIGNAL HEAD DETAIL



PEDESTRIAN DETECTOR SIGN



Harding Av

94 Street

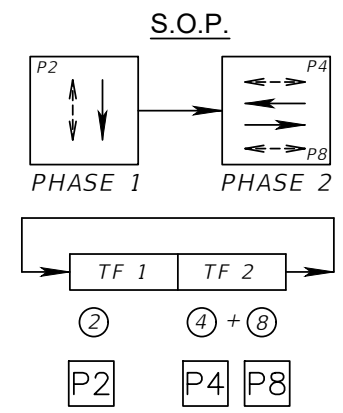
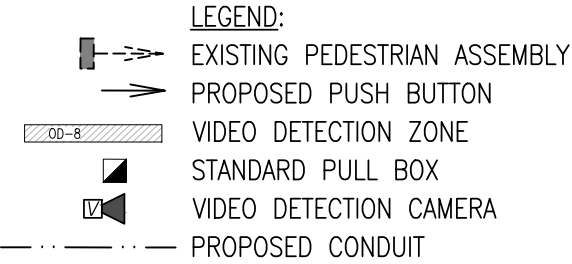
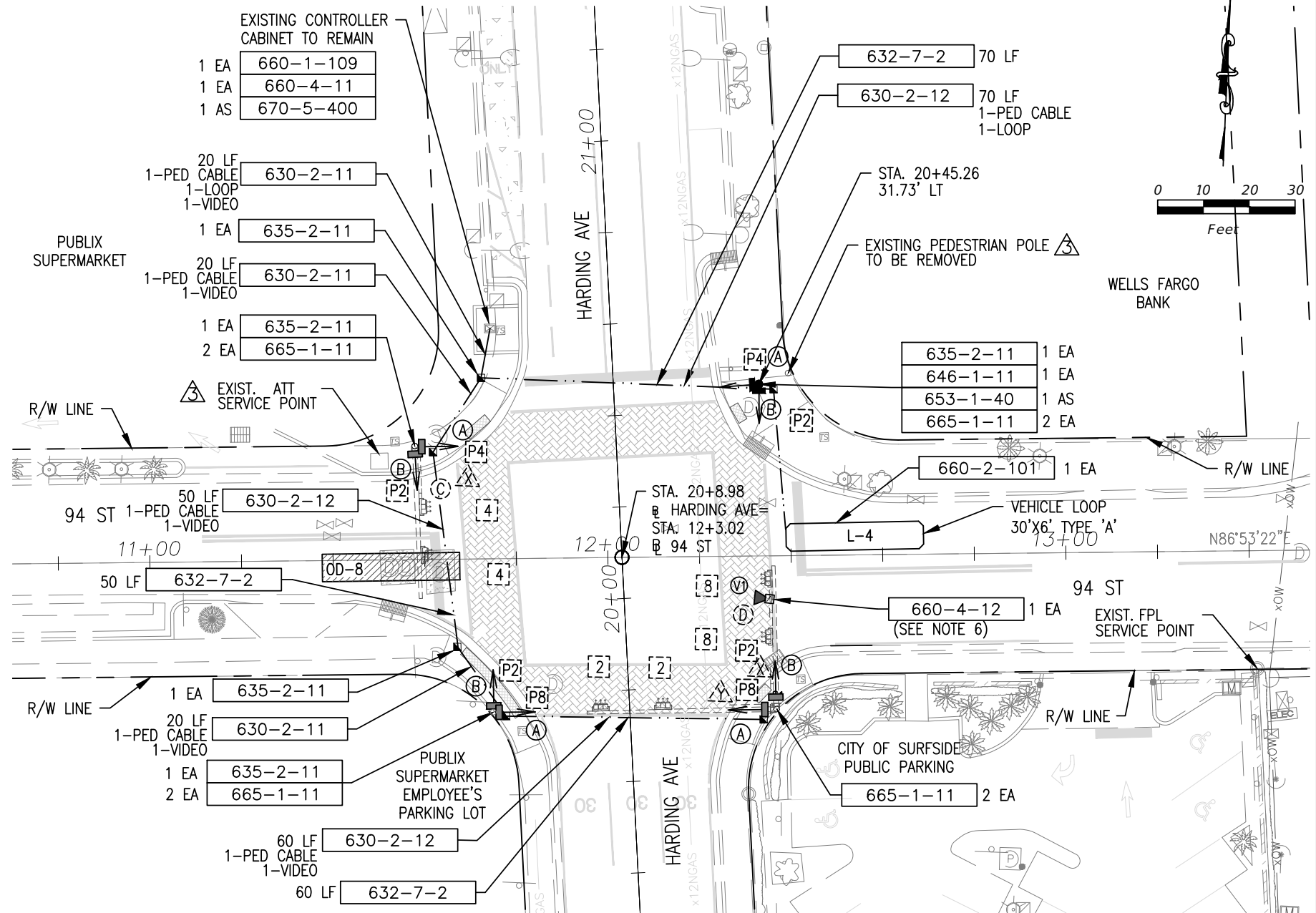
NOTES:

1. MAJOR STREET: HARDING AVENUE - SPEED LIMIT 30 MPH.
2. MINOR STREET: 94 STREET - SPEED LIMIT 20 MPH.
3. EXISTING SIGNAL OPERATING PLAN AND TIMING TO REMAIN AS SHOWN PROVIDED BY MIAMI-DADE COUNTY TRAFFIC SIGNAL AND SIGNS DIVISION.
4. LOOPS SHALL BE INSTALLED 2 FEET BEYOND THE STOP BAR.
5. STATIONS AND OFFSETS ARE IN REFERENCE TO HARDING AVE. BASELINE AS SHOWN ON SHEET T-6 UNLESS OTHERWISE NOTED.
6. VIDEO DETECTION (V1) SHALL BE INSTALLED 24 FEET FROM THE UPRIGHT.
7. VIDEO DETECTION ZONE SHALL BE APPROXIMATELY 30 FEET LONG, INCLUDING 5 FEET BEYOND THE STOP BAR.
8. WHEN IN FLASH MODE SIGNAL HEADS 2 SHALL FLASH YELLOW, SIGNAL HEADS 4 AND 8 SHALL FLASH RED.
9. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD IF A 30"X48" MANEUVERING AREA IN FRONT OF EACH PUSH BUTTON CAN NOT BE ACHIEVED. PER FDOT INDEX 17784.

| FACE NUMBER | 1 | 2 | 3 |
|-------------------|-----|-----|-----|
| DIRECTION | SBT | WBT | EBT |
| INITIAL GREEN | 7 | 4 | 4 |
| VEHICLE EXT. GAP | 1 | 1 | 1 |
| MAXIMUM GREEN | 40 | 19 | 19 |
| MAX 2 | 0 | 25 | 25 |
| YELLOW CLEARANCE | 4 | 4 | 4 |
| ALL RED CLEARANCE | 2 | 2 | 2 |
| WALK | 7 | 4 | 4 |
| PED CLEARANCE | 12 | 14 | 14 |

REVISIONS

| DATE | DESCRIPTION | DATE | DESCRIPTION |
|----------|----------------------------|------|-------------|
| 11/21/16 | MIAMI-DADE COUNTY COMMENTS | | |
| 12/28/16 | MIAMI-DADE COUNTY COMMENTS | | |



TOTAL REMOVAL ITEMS

| | | |
|---------------------------------|----------|------|
| ALUMINUM SIGNALS POLE, PEDESTAL | 646-1-60 | 1 EA |
|---------------------------------|----------|------|

DETECTOR FOR LOOPS

| LOOPS | NO. OF LOOPS | NO. OF DETS |
|-------|--------------|-------------|
| L-4 | 1 | 1 |

VIDEO DETECTION ASSIGNMENT

| VIDEO DETECTOR UNIT | ASSIGN MOVEMENT | ZONE |
|---------------------|-----------------|------|
| V1 | 8 | OD-8 |



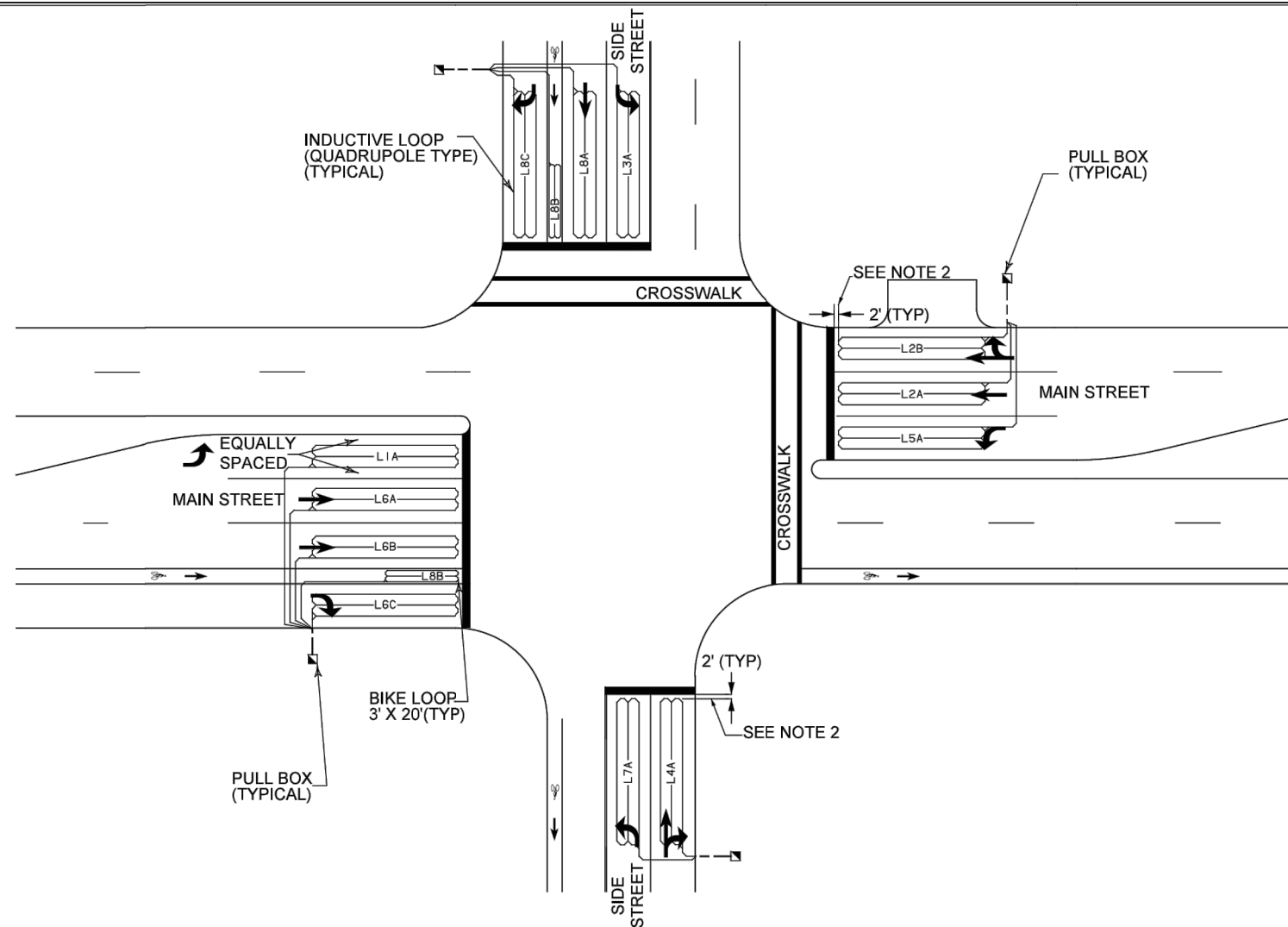
FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514
VENDOR I.D. NO. 65-001-3869
Engineer of Record: Diana Rivas, P.E. No. 74568

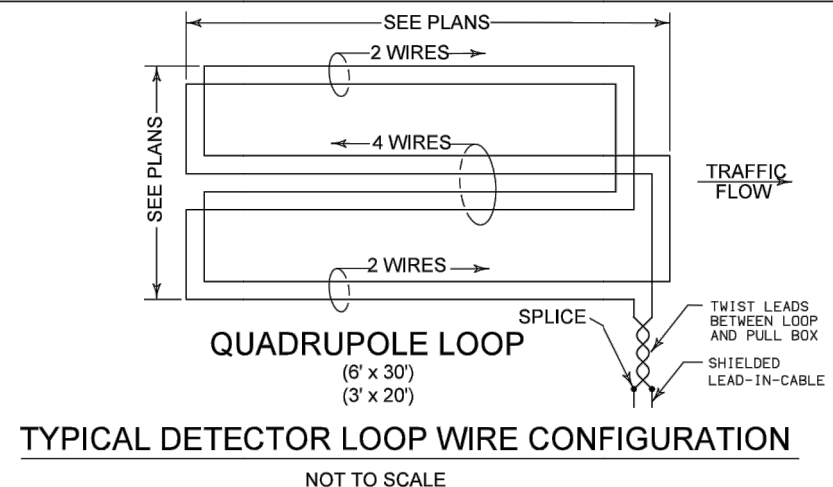
| | | | |
|------------------|-----------------------|-------------|--|
| CITY | HARDING AVE AND 94 ST | PROJECT NO. | |
| TOWN OF SURFSIDE | | | |

ID 2917
HARDING AVE & 94 ST SIGNALIZATION PLAN
SHEET NO. T-6

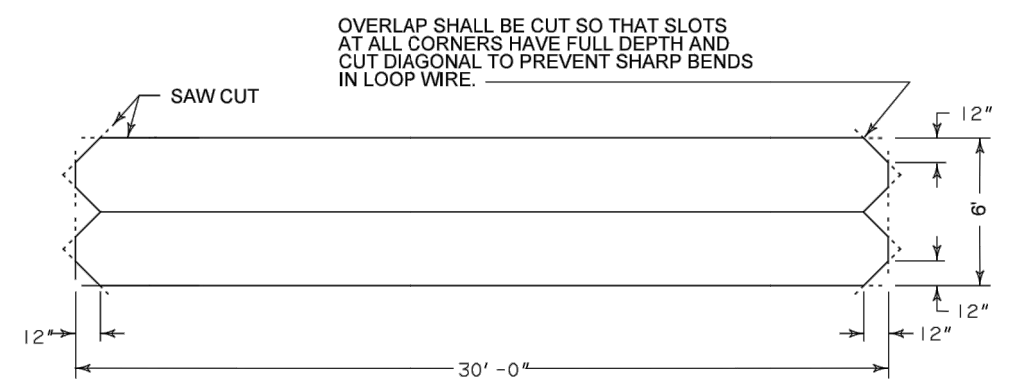
File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\DEATLS01.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:13:21 AM)



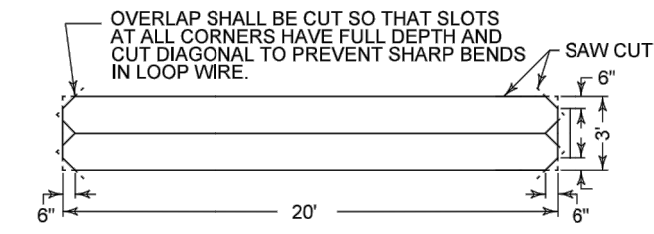
TYPICAL INDUCTIVE LOOP PLACEMENT
NOT TO SCALE



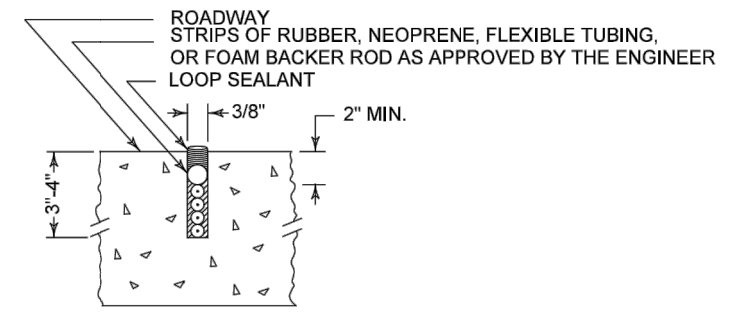
TYPICAL DETECTOR LOOP WIRE CONFIGURATION
NOT TO SCALE



TYPICAL "TYPE F" VEHICLE INDUCTIVE LOOP
NOT TO SCALE



TYPICAL "TYPE F" MODIFIED BICYCLE INDUCTIVE LOOP
NOT TO SCALE



LOOP SECTION
NOT TO SCALE
TYPICAL SAW CUT DETAIL

| LATEST REVISION 03/27/17 | DESCRIPTION: TRAFFIC CONTROL EQUIPMENT STANDARDS AND SPECIFICATIONS | | DTPW TRAFFIC SIGNALS AND SIGNS DIVISION 7100 NW 36TH STREET MIAMI, FLORIDA 33166 305.592.3580 | <table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>DRAWN BY: TRAVIS BREWER</td> <td>09-29-16</td> </tr> <tr> <td>CHECKED BY: NAHIM FERNANDEZ</td> <td>03-22-17</td> </tr> <tr> <td>APPROVED BY: FRANK ARA, P.E.</td> <td></td> </tr> </table> | NAME | DATE | DRAWN BY: TRAVIS BREWER | 09-29-16 | CHECKED BY: NAHIM FERNANDEZ | 03-22-17 | APPROVED BY: FRANK ARA, P.E. | | TYPICAL INDUCTIVE LOOP INSTALLATION DETAILS (N.T.S.) | SHEET NO. 1 of 2 |
|------------------------------|--|--|--|---|------|------|-------------------------|----------|-----------------------------|----------|------------------------------|--|--|---------------------|
| NAME | DATE | | | | | | | | | | | | | |
| DRAWN BY: TRAVIS BREWER | 09-29-16 | | | | | | | | | | | | | |
| CHECKED BY: NAHIM FERNANDEZ | 03-22-17 | | | | | | | | | | | | | |
| APPROVED BY: FRANK ARA, P.E. | | | | | | | | | | | | | | |

FOR INFORMATION ONLY



| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

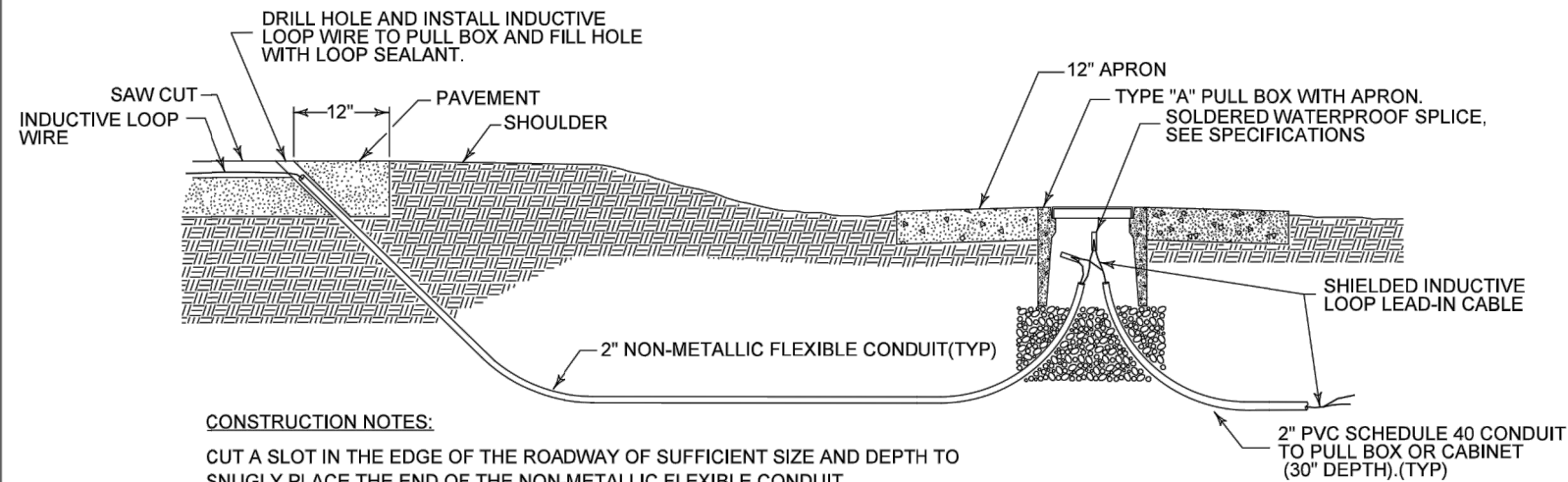
Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONS™
 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
 Phone: 954.921.7781 • Fax: 954.921.8807
 Certificate of Authorization 514
 VENDOR I.D. NO. 65-001-3889

| | |
|------------------|-------------|
| CITY | PROJECT NO. |
| TOWN OF SURFSIDE | |

MIAMI-DADE COUNTY
LOOP INSTALLATION DETAILS

SHEET NO.
T-7

File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\DEATLS02.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:13:32 AM)

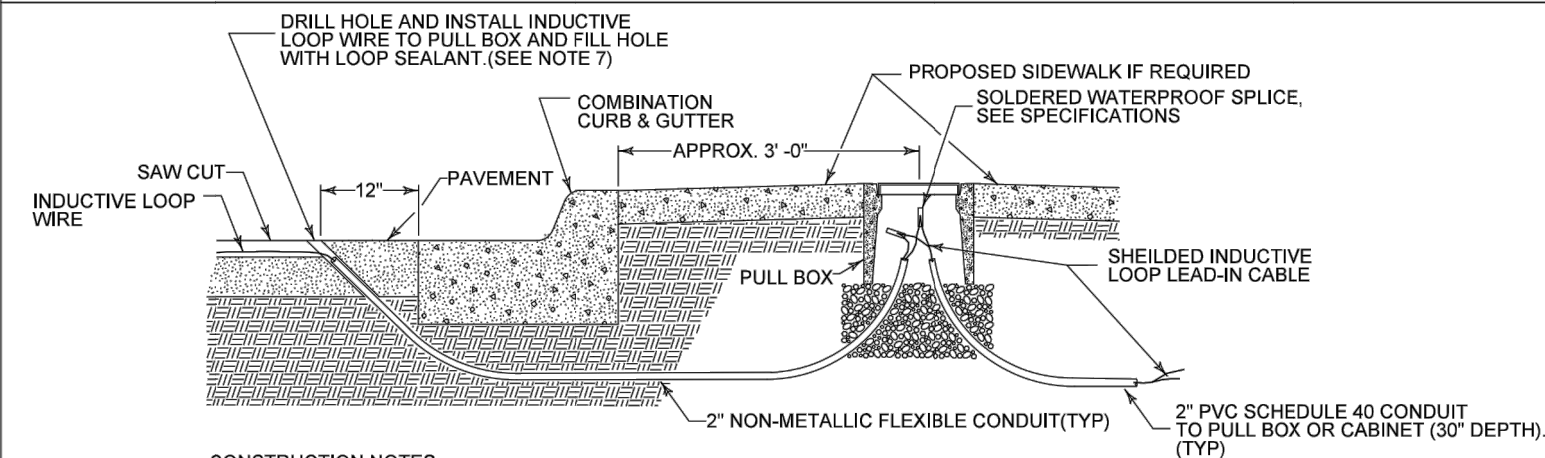


CONSTRUCTION NOTES:

CUT A SLOT IN THE EDGE OF THE ROADWAY OF SUFFICIENT SIZE AND DEPTH TO SNUGLY PLACE THE END OF THE NON-METALLIC FLEXIBLE CONDUIT. THE END OF THE CONDUIT SHALL BE AT LEAST 12" INTO THE ROADWAY AND 3" BELOW THE TOP OF THE ROADWAY SURFACE. THE DEPARTURE ANGLE OF THE CONDUIT FROM THE ROADWAY SHALL BE 30 TO 45 DEGREES.

TYPICAL SECTION VIEW OF INDUCTIVE LOOP WIRE THROUGH PAVEMENT TO PULL BOX.

NOT TO SCALE



CONSTRUCTION NOTES:

DRILL A HOLE 1/2" TO 1" LARGER IN DIAMETER THAN THE FLEXIBLE CONDUIT TO BE USED THROUGH THE ROADWAY ASPHALT (OR CONCRETE) SURFACE AND BASE AT AN APPROPRIATE ANGLE TO INTERCEPT THE TRENCH OR PULL BOX HOLE. PLACE A PREDETERMINED LENGTH OF NON-METALLIC FLEXIBLE CONDUIT IN THE HOLE AND DRIVE THE CONDUIT INTO THE TRENCH OR HOLE. THE TOP OF THE CONDUIT SHALL BE APPROXIMATELY 3" BELOW THE ROADWAY SURFACE. FILL THE HOLE WITH LOOP SEALANT TO THE LEVEL OF THE ROADWAY SURFACE. A NONMETALLIC MATERIAL SHOULD BE USED TO PREVENT EXCESSIVE LOOP SEALANT FROM ENTERING THE NON-METALLIC FLEXIBLE CONDUIT.

TYPICAL SECTION VIEW OF INDUCTIVE LOOP WIRE THROUGH CURB TO PULL BOX.

NOT TO SCALE

GENERAL NOTES:

1. MEET THE REQUIREMENTS OF MIAMI-DADE COUNTY TRAFFIC CONTROL EQUIPMENT STANDARDS AND SPECIFICATIONS SECTION 660 (VEHICLE DETECTION SYSTEMS).
2. THE STANDARD PLACEMENT OF THE LEADING EDGE OF TYPE F LOOP IS TWO FEET BEFORE THE STOP BAR BUT MAY EXTEND A MAXIMUM OF 10 FEET PAST THE STOP BAR TO MEET SITE-SPECIFIC ENGINEERING REQUIREMENTS. EACH INTERSECTION MUST BE INDIVIDUALLY DESIGNED AND IF THE AFOREMENTIONED MODIFICATION IS REQUIRED IT MUST BE NOTED OR DETAILED IN THE PLANS. UNDER NO CIRCUMSTANCES MAY THE LOOP OR SAW-CUT ENCRANCH INTO A CROSSWALK.
3. IF THE LOOP LEAD-IN IS 75' OR LESS FROM THE EDGE OF THE LOOP DETECTOR TO CONTROLLER CABINET, CONTINUE THE TWISTED PAIR TO THE CABINET. IF THE LOOP LEAD-IN IS GREATER THAN 75' CONTINUE THE TWISTED PAIR TO THE SPECIFIED PULL BOX, SPLICE TO SHIELDED LEAD-IN WIRE AND CONTINUE TO THE CONTROLLER CABINET.
4. THE WIDTH OF ALL SAW CUTS SHALL BE SUFFICIENT TO ALLOW UNFORCED PLACEMENT OF LOOP WIRES OR LEAD-IN CABLES INTO THE SAW CUT. THE DEPTH OF ALL SAW CUTS, EXCEPT ACROSS EXPANSION JOINTS SHALL BE STANDARD 3 INCHES WITH A MAXIMUM OF 4 INCHES.
5. LOOP LEAD-IN WIRES MUST NOT BE INSTALLED IN THE SAME PULL BOX WITH SIGNAL POWER CABLES.
6. THE MINIMUM DISTANCE BETWEEN THE TWISTED PAIRS OF LOOP LEAD-IN WIRE IS 6 INCH FROM THE LOOP TO 12 INCH FROM THE PAVEMENT EDGE OR CURB.
7. THE MAXIMUM AREA OF ASPHALT TO BE DISTURBED SHALL BE 4"X 4". THIS AREA SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.
8. LOOP LEAD-IN WIRES MUST BE 6 INCHES APART WHERE THERE ARE MULTIPLE LOOPS.

| LATEST REVISION | DESCRIPTION |
|-----------------|-------------|
| 03/27/17 | |

TRAFFIC CONTROL EQUIPMENT STANDARDS AND SPECIFICATIONS



DTPW TRAFFIC SIGNALS AND SIGNS DIVISION
7100 NW 36th STREET
MIAMI, FLORIDA 33166
305.592.3580

| NAME | DATE |
|-------------------------------|----------|
| DRAWN BY: TRAVIS BREWER | 09-29-16 |
| CHECKED BY: NAHUM FERNANDEZ | 03-22-17 |
| APPROVED BY: FRANK AIRA, P.E. | |

TYPICAL INDUCTIVE LOOP INSTALLATION DETAILS (N.T.S.)

SHEET NO.
2 of 2



FOR INFORMATION ONLY

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |



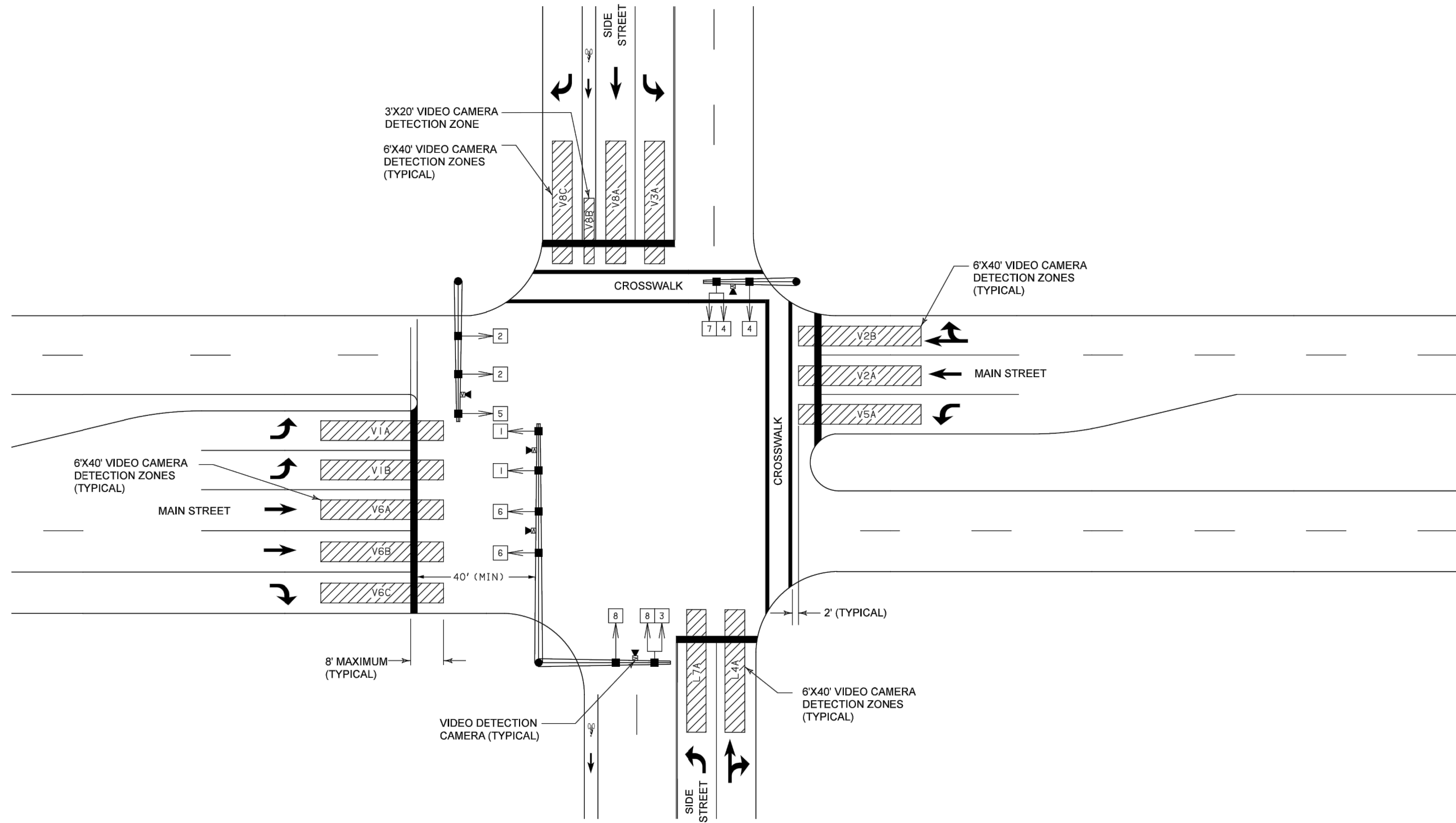
Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONSSM
1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
Phone: 954.921.7781 • Fax: 954.921.8807
Certificate of Authorization 514
VENDOR I.D. NO. 65-001-3869

| CITY | PROJECT NO. |
|------------------|-------------|
| TOWN OF SURFSIDE | |

**MIAMI-DADE COUNTY
LOOP INSTALLATION DETAILS**

SHEET NO.
T-8

TYPICAL VIDEO DETECTION CAMERA LOCATION DETAIL



| | | | | | | | |
|-----------------|-------------|--|--|--|---|--|---------------------|
| LATEST REVISION | DESCRIPTION | TRAFFIC CONTROL EQUIPMENT STANDARDS AND SPECIFICATIONS | | DTPW TRAFFIC SIGNALS AND SIGNS DIVISION 7100 NW 36th STREET MIAMI, FLORIDA 33166 305.592.3580 | NAME: TRAVIS BREWER DATE: 09-29-16 CHECKED BY: NAHUM FERNANDEZ DATE: 03-22-17 APPROVED BY: FRANK AIRA, P.E. | VIDEO VEHICLE DETECTION DETAILS (N.T.S.) | SHEET NO. 1 of 2 |
|-----------------|-------------|--|--|--|---|--|---------------------|



FOR INFORMATION ONLY

| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONS™
 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
 Phone: 954.921.7781 • Fax: 954.921.8807
 Certificate of Authorization 514
 VENDOR I.D. NO. 65-001-3889

| | |
|------------------|-------------|
| CITY | PROJECT NO. |
| TOWN OF SURFSIDE | |

MIAMI-DADE COUNTY
 VIDEO VEHICLE DETECTION DETAILS

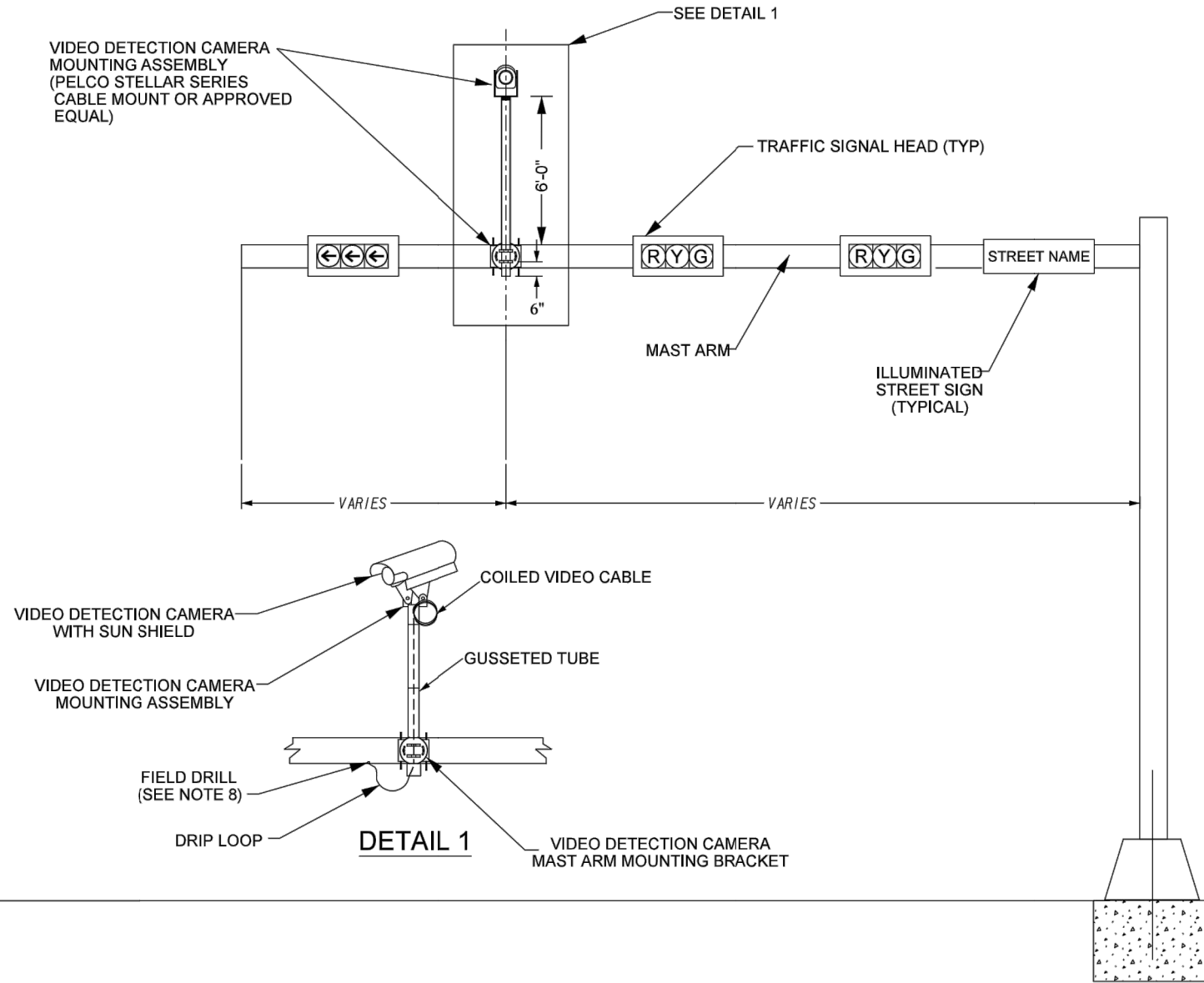
SHEET NO.
 T-9

File Name: P:\Projects\2015\156083 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\DEATLS03.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:13:41 AM)

TYPICAL MAST ARM VIDEO DETECTOR MOUNTING DETAILS

GENERAL NOTES:

1. MEET THE REQUIREMENTS OF MIAMI-DADE COUNTY TRAFFIC CONTROL EQUIPMENT STANDARDS AND SPECIFICATIONS SECTION 660 (VEHICLE DETECTION SYSTEMS). EACH INTERSECTION MUST BE INDIVIDUALLY DESIGNED TO INCLUDE SITE-SPECIFIC EQUIPMENT PLACEMENT REQUIREMENTS AND DETECTION ZONE REQUIREMENTS.
2. REFER TO FDOT'S APPROVED PRODUCT LIST (APL) AND THE MIAMI-DADE COUNTY TRAFFIC SIGNALS AND SIGNS DIVISION'S QUALIFIED PRODUCT LIST FOR VIDEO DETECTOR SYSTEMS AND MOUNTING HARDWARE APPROVED FOR USE IN MIAMI-DADE COUNTY SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE INSTALLATION.
3. TYPICAL INSTALLATION WILL REQUIRE ONE CAMERA PLACED ON THE LANE LINE BETWEEN THE INBOARD THROUGH LANE AND LEFT TURN LANE.
4. APPROACHES WITH MORE THAN FOUR LANES REQUIRE TWO CAMERAS PER APPROACH. COUNT BICYCLE LANES AS HALF A LANE. WHEN USING TWO CAMERAS, PLACE ONE BETWEEN THE LEFT LANES AND THE OTHER IN A POSITION THAT CENTERS THE CAMERA TO COVER ALL THE THROUGH LANES. THE CAMERA MUST BE ORIENTED SO THAT THE STOP BAR IS PARALLEL WITH THE BOTTOM OF THE IMAGE.
5. WHEN PROPOSED VIDEO DETECTION CAMERAS ARE LOCATED AT A HORIZONTAL DISTANCE FROM 40 TO 100 FEET FROM THE STOP BAR AND NUMBER OF APPROACH LANE EXCEED THREE (OR 33 FEET TOTAL WIDTH), INDIVIDUAL VIDEO CAMERAS MUST BE INSTALLED FOR EACH CONTROLLER TIMING FUNCTION.
6. CHECK FOR ANYTHING THAT MIGHT BLOCK THE FIELD OF VIEW OR IMPACT VEHICLE TRACKING SUCH AS TREES, OVERHEAD WIRES, AND COMMERCIAL LIGHT SOURCES
7. REVIEW THE PLACEMENT OF THE VIDEO IMAGE DETECTION DEVICES AND COORDINATE WITH THE ENGINEER OF RECORD TO CONFIRM THE MOST OPTIMAL LOCATION FOR THE INSTALLATION OF THE VIDEO IMAGE DETECTION DEVICES IN ORDER TO MEET THE PERFORMANCE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS OF AN APPROVED PRODUCT.
8. CONCEAL CAMERA CABLE(S) THROUGH THE MOUNT'S GUSSETED TUBE AND NEATLY PLACE DRIP LOOP INTO THE MAST ARM MINIMIZING EXPOSED CABLE(S). WIRE ACCESS HOLE MUST NOT EXCEED ONE INCH IN DIAMETER AND MUST INCLUDE A RUBBER GROMMET. DRILL HOLE AS TO NOT DAMAGE EXISTING SIGNAL CABLES. UTILIZE EXISTING ACCESS WHEREVER POSSIBLE.
9. MEET ALL GROUNDING AND SURGE PROTECTIVE DEVICE (SPD) REQUIREMENTS OF SECTION 620 OF THE FDOT STANDARD SPECIFICATIONS.
10. MAKE THE VIDEO DETECTION SYSTEM OPERATIONAL IMMEDIATELY UPON INSTALLATION, REMOVING THE ASSOCIATED MINOR MOVEMENTS FROM RECALL
11. ZOOM AND FOCUS THE CAMERA TO INCLUDE ALL TRAVEL LANES REQUIRING DETECTION. HORIZON MUST NOT BE VISIBLE IN THE IMAGE.
12. ALL OSHA CLEARANCE REQUIREMENTS FOR MAINTAINING SAFE DISTANCES TO OVERHEAD ELECTRIC FACILITIES WHILE PERFORMING CAMERA MAINTENANCE SHALL BE ACHIEVED BY CORRECT CAMERA PLACEMENT. LOCATE AND ANGLE CAMERAS TAKING INTO CONSIDERATION ITS RELATION TO THE RISING AND SETTING SUN TO BEST AVOID "SUNBURST" AND "WHITEOUT" EFFECTS DEMONSTRATED ON WET ROADWAYS.
13. ALL EXTERIOR VIDEO CABLE FITTINGS SHALL HAVE A WATER AND WEATHER-PROOF BOOT.
14. CAMERA TERMINALS THAT REQUIRE CABLE SPLICING IN THE FIELD MUST BE MADE WITH MECHANIC CONNECTORS OR TERMINAL LUGS NO ELECTRICAL WIRE NUTS WILL BE ALLOWED AS A MEANS OF TERMINATION.
15. SIGNAL CONTRACTOR IS RESPONSIBLE FOR INITIAL DETECTION ZONE SET-UP. COORDINATE WITH MIAMI-DADE COUNTY PRIOR TO SET-UP.
16. VIDEO DETECTION SET-UP WILL BE SUCH THAT NO FALSE OR DROPPED CALLS ARE OBSERVED.
17. DETECTION ZONE OUTPUT MUST BE PROGRAMMED TO CALL APPROPRIATE TIMING PHASES ASSIGNED TO CAMERA APPROACH. ONE VIDEO PROCESSOR CARD PER CAMERA. ONE DETECTION ZONE PER LANE ON APPROACH.
18. ALL MINIMUM REQUIREMENTS LISTED ABOVE MUST BE DEMONSTRATED PRIOR TO FINAL ACCEPTANCE OF ANY VIDEO DETECTION SYSTEM INSTALLATION.



| | | | | | | | |
|-----------------------------|--|------------|--|---|------------------------------|--|---------------------|
| LATEST REVISION 03/27/17 | DESCRIPTION: TRAFFIC CONTROL EQUIPMENT STANDARDS AND SPECIFICATIONS | MIAMI-DADE | DTPW TRAFFIC SIGNALS AND SIGNS DIVISION 7100 NW 36th STREET MIAMI, FLORIDA 33166 305.592.3580 | NAME DRAWN BY: TRAVIS BREWER CHECKED BY: NAHUM FERNANDEZ APPROVED BY: FRANK AIRA, P.E. | DATE 09-29-16 03-22-17 | VIDEO VEHICLE DETECTION DETAILS (N.T.S.) | SHEET NO. 2 of 2 |
|-----------------------------|--|------------|--|---|------------------------------|--|---------------------|



FOR INFORMATION ONLY

| REVISIONS | | | |  Calvin, Giordano & Associates, Inc. EXCEPTIONAL SOLUTIONS™ 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316 Phone: 954.921.7781 • Fax: 954.921.8807 Certificate of Authorization 514 VENDOR I.D. NO. 65-001-3869 | CITY | | PROJECT NO. | MIAMI-DADE COUNTY | | SHEET NO. T-10 |
|-----------|-------------|------|-------------|---|---------------------|--|-------------|---------------------------------|--|-------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | TOWN OF SURFSIDE | | | VIDEO VEHICLE DETECTION DETAILS | | |
| | | | | | | | | | | |

File Name: P:\Projects\2015\156063 Surfside Traffic Signal Modifications\CADD Files\Drawings\Harding @ 88_93_94\Bidding\DEATLS04.dwg - (Plotted by: Juan Rodriguez on Friday, January 5, 2018 9:13:52 AM)