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- EA: 13
- 99: 146
- 18: 20
- 4: 40

**Thermoplastic**

- **100-30-12**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.044
  - 0.264
  - 0.411
  - 0.562
  - 0.943
  - 1.205
  - 1.467
  - 1.803
  - 2.001
  - 2.169

- **100-30-13**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.065
  - 0.217
  - 0.619
  - 0.926
  - 1.381
  - 1.684
  - 2.142
  - 2.719
  - 3.393
  - 4.057

- **100-30-14**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.118
  - 0.310
  - 0.794
  - 1.205
  - 1.629
  - 2.065
  - 2.523
  - 3.078
  - 3.657
  - 4.238

- **100-30-15**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.156
  - 0.353
  - 0.758
  - 1.266
  - 1.787
  - 2.312
  - 2.834
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  - 3.878
  - 4.403

- **100-30-16**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.204
  - 0.418
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  - 1.387
  - 1.926
  - 2.462
  - 3.002
  - 3.543
  - 4.083
  - 4.618

- **100-30-17**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.252
  - 0.526
  - 1.046
  - 1.566
  - 2.084
  - 2.603
  - 3.122
  - 3.642
  - 4.161
  - 4.680

- **100-30-18**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.300
  - 0.610
  - 1.220
  - 1.830
  - 2.440
  - 3.050
  - 3.660
  - 4.270
  - 4.880
  - 5.490

- **100-30-19**
  - THERMOPLASTIC 16" SOLID, WHITE (C12)
  - NW: 0.348
  - 0.696
  - 1.391
  - 2.086
  - 2.781
  - 3.476
  - 4.171
  - 4.866
  - 5.561
  - 6.256

**Revisions**

- Date: 12/1999
- Description: Wayne P. Harv, P.E.
- P.E. License Number: 40022
- Ph.: 561-2222
- Company: 1500 Monroe St.
- P.O. Box 3001
- LEE COUNTY DEPARTMENT OF TRANSPORTATION
- Grand Total: 5-2

**Certificate of Authorization No. 43**
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**REVISIONS**

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Wayne P. Hirth, P.E.
P.E. LICENSE NUMBER 060226
WORTHINGTON INC.
2806 Westwinds Dr. Suite 106
P.O. Box, P.O. BOX 13

**TABULATION OF QUANTITIES**

<table>
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<th>ROAD NO.</th>
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<th>COUNTY PROJECT NO.</th>
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</table>

LEE COUNTY DEPARTMENT OF TRANSPORTATION

1500 Monroe Street, P.O. Myers, Florida 33001
C.R. 884 Colonial Blvd 6600-001-000

C.R. 884 Colonial Blvd 6600-001-000

CERTIFICATE OF AUTHORIZATION 43

**Sheet No.**

5-4
SIGNING AND PAVEMENT MARKING GENERAL NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH INDEX 17.346.

3. ALL SIGNS SHALL BE IN ACCORDANCE WITH INDEX 17.302.

4. PLACEMENT OF RETRO-REFLECTIVE PAVEMENT MARKERS (RPMS) SHALL BE IN ACCORDANCE WITH INDEX 17.352. ALL STRIPING, DIRECTIONAL ARROWS AND PAVEMENT MESSAGES SHALL BE APPLIED PRIOR TO INSTALLATION OF RPMS.

5. SIGN ASSEMBLY LOCATIONS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRAINAGE, DRIVEWAYS, CURB CUTS, ETC. MAY BE ADJUSTED BY THE ENGINEER AS NECESSARY IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. WATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS. ANY PAVEMENT MARKINGS TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER.

7. THE FOLLOWING ABBREVIATIONS ARE USED ON THESE PLANS:
   - RPMS RETRO-REFLECTIVE PAVEMENT MARKERS
   - B: BI-DIRECTIONAL
   - W/R: WHITE/RED
   - Y/Y: YELLOW/YELLOW

8. ALL SIGN POSTS WHICH ARE EMBEDDED IN ASPHALT OR CONCRETE (MEDANS/ISLANDS) SHALL BE INSTALLED IN AN APPROVED PIPE SLEEVE PER INDEX 17.302, CASE NO. V711.

9. THE CONTRACTOR SHALL USE W-SHAPE STEEL POSTS FOR MULTI-POST SIGNS. SEE GUIDE SIGN WORK SHEETS FOR DETAILS.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL SIGNS THAT ARE TO BE PERMANENTLY REMOVED ON THIS PROJECT.

11. ALL FLORIDA STATE ROUTE MARKERS SHALL BE IN ACCORDANCE WITH INDEX 17.355.
```
| SAY NUMBER  | CG-2 | | SAY NUMBER  | CG-2 |
|-------------|------| | SAY NUMBER  | CG-2 |
| QUANTITY    | 1    | | QUANTITY    | 1    |
| WIDTH       | 15'-0" | | WIDTH       | 15'-0" |
| HEIGHT      | 8'-0" | | HEIGHT      | 8'-0" |
| BORDER WIDTH| 2"   | | BORDER WIDTH| 2"   |
| BORDER RAD  | 0"   | | BORDER RAD  | 0"   |
| BACKGROUND COLOR | Green | | BACKGROUND COLOR | Green |
| LEGEND & BORDER COLOR | White | | LEGEND & BORDER COLOR | White |
| STENCILSIZE | 224 x 64 | | STENCILSIZE | 224 x 64 |

**South Naples**

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**North Tampa**

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<tr>
<td>STATION</td>
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<td>X Y WO NT</td>
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<td>BORDER WIDTH</td>
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---

**Forum Blvd NEXT SIGNAL**

- **BORDER R: 8'-0"**
- **BORDER L: 4'-0"**
- **T: 7'-0"**
- **H: 7'-0"**
- **W: 10'-0"**
- **H: 2'-0"**
- **W: 8'-0"**

---

**S.R. 82 NEXT SIGNAL**

- **BORDER R: 8'-0"**
- **BORDER L: 4'-0"**
- **T: 7'-0"**
- **H: 7'-0"**
- **W: 10'-0"**
- **H: 2'-0"**
- **W: 8'-0"**

---

**Treeline Ave NEXT SIGNAL**

- **BORDER R: 8'-0"**
- **BORDER L: 4'-0"**
- **T: 7'-0"**
- **H: 7'-0"**
- **W: 10'-0"**
- **H: 2'-0"**
- **W: 8'-0"**

---

**LEE COUNTY DEPARTMENT OF TRANSPORTATION**

1500 Monroe Street, Ft. Myers, Florida 33901

**GUIDE SIGN WORK SHEET**

S-30
OVERHEAD SIGN
CROSS SECTION SHEET

SIGN NUMBER 125276
OVERHEAD TRUSS SPAN SIGN "B"
PATTERN ITEM 700-22-144
STA 33+00.00 (FACING EAST)

SIGN NUMBER 125275
OVERHEAD TRUSS CANTILEVER SIGN "A"
PATTERN ITEM 700-22-122
STA 323+40.00 (FACING EAST)

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

REVISIONS
DATE
description

DATE
description

SR 884
COLONIAL BLVD
6600-00-000

CERTIFICATE OF AUTHORIZATION 43

WORK P. VANLIEF, P.E.
P.E. REGISTRATION NUMBER 4002
WILLAMINTE, INC.
3293 Nw 163rd St Suite 406
FT. MYERS, FL 33913

SCALE: 1" = 20' HORIZONTAL
1" = 20' VERTICAL

WORKSHEET
SHEET NO.
5-32
### SPAN SIGN STRUCTURES DATA TABLE

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<td>D</td>
<td>E</td>
<td>F (CHORD)</td>
<td>G (WEB)</td>
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### SPAN SIGN STRUCTURES DATA TABLE (CONT.)

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**NOTES:**
1. Design Wind Speed = 130 mph
2. Erection is the Contractor's responsibility. To facilitate erection, the Contractor should consider using two vertical lift points, each located near a panel point, approximately 20 to 35 ft of the truss length from each end.

**FOUNDATION NOTES:**
1. Design based on Borings taken sealed by ALLIED ENGINEERING
2. Assumptions and Values used in design:
   - Sign # 125276
     - Soil Type: SAND (Cohesionless Soil)
     - Soil Layer Thickness = 10 ft
     - Soil Friction Angle = 29.0 deg.
     - Soil Weight = 42.6 pcf
   - Sign # 125278
     - Soil Type: CLAY (Cohesion Soil)
     - Soil Layer Thickness = 42 ft
     - Soil Shear Strength = 250 psi

**Design Water Table is 0 ft below surface**

**NOTE:** Work with Index 11520
### CANTILEVER SIGN STRUCTURES DATA TABLE

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<tr>
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<td>65</td>
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| SIGN NO. | GA | GB | GC | GD | GE | GF | GG | GH | GJ | GH | GA | TB | TC | TD | TE | TF | TG | TH | TJ | SA | SB | SC | SD |
|----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 125275   | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  |
| 125277   | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  |
| 125279   | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  | %  |

### CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)

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</table>

### FOUNDATION NOTES:
1. Design based on Barings taken sealed by ALLIED ENGINEERING & TESTING
2. Design Water Table is 0 ft. below surface

### NOTES:
1. Design Wind Speed = 130 mph
2. Work this Sheet with Index 13310.

Assumptions and Values used in design:
- Sign: 125275
- Soil Type: SAND (Cohesionless Soil)
- Soil Density = 95 lb/ft³
- Soil Friction Angle = 30 deg.
- Soil Weight = 105.6 psf

Assumptions and Values used in design:
- Sign: 125277
- Soil Type: SAND (Cohesionless Soil)
- Soil Density = 95 lb/ft³
- Soil Friction Angle = 30 deg.
- Soil Weight = 105.6 psf

Assumptions and Values used in design:
- Sign: 125279
- Soil Type: CLAY (Cohesion Soil)
- Soil Density = 110 lb/ft³
- Soil Friction Angle = 25 deg.
- Soil Weight = 100 psf
- Soil Shear Strength = 100 psf

Assumptions and Values used in design:
- Sign: 125275
- Soil Type: SAND (Cohesionless Soil)
- Soil Density = 95 lb/ft³
- Soil Friction Angle = 30 deg.
- Soil Weight = 105.6 psf

Assumptions and Values used in design:
- Sign: 125277
- Soil Type: SAND (Cohesionless Soil)
- Soil Density = 95 lb/ft³
- Soil Friction Angle = 30 deg.
- Soil Weight = 105.6 psf

Assumptions and Values used in design:
- Sign: 125279
- Soil Type: CLAY (Cohesion Soil)
- Soil Density = 110 lb/ft³
- Soil Friction Angle = 25 deg.
- Soil Weight = 100 psf
- Soil Shear Strength = 100 psf
OVERHEAD SIGN STRUCTURE
STA 323+40

SOIL PROFILE LEGEND NOTES

SPT = SPT TEST VALUE
GND = GROUND WATER LEVEL

B = SPT BORING NUMBER

1. SANDY Silt: Loose to very loose, greyish brown, contains moderate to large sand grains
2. Silt: Fine to medium sand, grey with slight reddish tinge
3. Clay: Greyish white to yellowish grey, hard, contains small pebbles
4. Limestone: Hard, greyish white, contains small pebbles

SOIL LEGEND

1. Gray, medium to dark brown, sandy, contains moderate to large sand grains
2. Gray, light brown, loose, contains small pebbles
3. Gray, medium to dark brown, loose, contains moderate to large sand grains
4. Gray, medium to dark brown, loose, contains moderate to large sand grains
5. Gray, medium to dark brown, loose, contains moderate to large sand grains
6. Gray, medium to dark brown, loose, contains moderate to large sand grains

NOTES: SPT BORING LOCATION
BASE DRAWING PROVIDED BY CLIENT
NOTES: **SPT BORING LOCATION**
BASE DRAWING PROVIDED BY CLIENT

### REVISIONS

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### REPORT OF CORE BORINGS

**COLONIAL BLVD.**

**LEE COUNTY DEPARTMENT OF PUBLIC WORKS**
1500 Monona Street, P.O. Myer, Florida 33014

**ALLIED ENGINEERING AND TESTING, INC**
550 Corporation Circle
FORT MYERS, FLORIDA 33905

**PAUL J. CHOFFTETER, P.E. #50716**

**SIGNAL POLE STRUCTURE**
**OVERHEAD SIGN STRUCTURE**
**STA 355+80**

**SOIL LEGEND**

- Gray, light brown to very dark brown, silty CLAY, medium coarse grained, slightly plastic, low to moderate plasticity, moderately soft, contains 30% gravel (SC-30).
- Gray to light brown CLAY, very soft, contains 5% gravel (SC-1).
- Gray, light brown, very soft, contains 5% gravel (SC-1).
- Gray, light brown, slightly plastic, contains 20% gravel (SC-20).
- Gray, light brown, slightly plastic, contains 5% gravel (SC-5).
- Gray, light brown, slightly plastic, contains 1% gravel (SC-1).
- Gray, light brown, slightly plastic, contains 0% gravel (SC-0).

**SOIL PROFILES LEGEND**

- B = BORING NUMBER
- T = SOIL TYPE
- CV = OVERCAST LEVEL
- L = DRILLING FLUID CIRCULATION
- ND = ORGANIC MATERIAL
- LL = RELATIVE DENSITY
- VM = VERTICAL MOTION
- LP = LIMESTONE
- LL = RELATIVE DENSITY
- VM = VERTICAL MOTION
- LP = LIMESTONE

**SOIL TYPE**

- GAS: **SPT BORE NUMBER**
- SOIL TYPE: **SPT TEST VALUE**
- GRADE: **IN SITU JULIE**
- INDICATOR GRAPHIC, WITH DISCREPANCY IN SITU TYPES

**SPT TEST INFORMATION**

- STANDARD PENETRATION TESTING INFORMATION
- INDICATOR OF SOIL TYPE
- UNIVERSITY OF SUSTAINABLE IN SITU QUALITY
- ALL EVIDENCES BASED ON EXISTING GROUND LEVEL
- US = UNDERSHOT OF METER
- LF = LIME OF DRILLING FLUID CIRCULATION

**ORGANIC MATERIALS**

- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**
- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**

**REPORT FOR CORE BORINGS**

**SIGNAL POLE STRUCTURE**
352 to 354+30

**OVERHEAD SIGN STRUCTURE**
STA 355+80

**SOIL LEGEND**

- 1. Gray, light brown to very dark brown, silty CLAY, medium coarse grained, slightly plastic, low to moderate plasticity, moderately soft, contains 30% gravel (SC-30).
- 2. Gray to light brown CLAY, very soft, contains 5% gravel (SC-1).
- 4. Gray, light brown, slightly plastic, contains 5% gravel (SC-5).
- 5. Gray, light brown, slightly plastic, contains 1% gravel (SC-1).
- 6. Gray, light brown, slightly plastic, contains 0% gravel (SC-0).

**SOIL PROFILES LEGEND**

- B = BORING NUMBER
- T = SOIL TYPE
- CV = OVERCAST LEVEL
- L = DRILLING FLUID CIRCULATION
- ND = ORGANIC MATERIAL
- LL = RELATIVE DENSITY
- VM = VERTICAL MOTION
- LP = LIMESTONE

**SOIL TYPE**

- GAS: **SPT BORE NUMBER**
- SOIL TYPE: **SPT TEST VALUE**
- GRADE: **IN SITU JULIE**
- INDICATOR GRAPHIC, WITH DISCREPANCY IN SITU TYPES

**SPT TEST INFORMATION**

- STANDARD PENETRATION TESTING INFORMATION
- INDICATOR OF SOIL TYPE
- UNIVERSITY OF SUSTAINABLE IN SITU QUALITY
- ALL EVIDENCES BASED ON EXISTING GROUND LEVEL
- US = UNDERSHOT OF METER
- LF = LIME OF DRILLING FLUID CIRCULATION

**ORGANIC MATERIALS**

- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**
- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**

**REPORT FOR CORE BORINGS**

**SIGNAL POLE STRUCTURE**
352 to 354+30

**OVERHEAD SIGN STRUCTURE**
STA 355+80

**SOIL LEGEND**

- 1. Gray, light brown to very dark brown, silty CLAY, medium coarse grained, slightly plastic, low to moderate plasticity, moderately soft, contains 30% gravel (SC-30).
- 2. Gray to light brown CLAY, very soft, contains 5% gravel (SC-1).
- 4. Gray, light brown, slightly plastic, contains 5% gravel (SC-5).
- 5. Gray, light brown, slightly plastic, contains 1% gravel (SC-1).
- 6. Gray, light brown, slightly plastic, contains 0% gravel (SC-0).

**SOIL PROFILES LEGEND**

- B = BORING NUMBER
- T = SOIL TYPE
- CV = OVERCAST LEVEL
- L = DRILLING FLUID CIRCULATION
- ND = ORGANIC MATERIAL
- LL = RELATIVE DENSITY
- VM = VERTICAL MOTION
- LP = LIMESTONE

**SOIL TYPE**

- GAS: **SPT BORE NUMBER**
- SOIL TYPE: **SPT TEST VALUE**
- GRADE: **IN SITU JULIE**
- INDICATOR GRAPHIC, WITH DISCREPANCY IN SITU TYPES

**SPT TEST INFORMATION**

- STANDARD PENETRATION TESTING INFORMATION
- INDICATOR OF SOIL TYPE
- UNIVERSITY OF SUSTAINABLE IN SITU QUALITY
- ALL EVIDENCES BASED ON EXISTING GROUND LEVEL
- US = UNDERSHOT OF METER
- LF = LIME OF DRILLING FLUID CIRCULATION

**ORGANIC MATERIALS**

- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**
- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**

**REPORT FOR CORE BORINGS**

**SIGNAL POLE STRUCTURE**
352 to 354+30

**OVERHEAD SIGN STRUCTURE**
STA 355+80

**SOIL LEGEND**

- 1. Gray, light brown to very dark brown, silty CLAY, medium coarse grained, slightly plastic, low to moderate plasticity, moderately soft, contains 30% gravel (SC-30).
- 2. Gray to light brown CLAY, very soft, contains 5% gravel (SC-1).
- 4. Gray, light brown, slightly plastic, contains 5% gravel (SC-5).
- 5. Gray, light brown, slightly plastic, contains 1% gravel (SC-1).
- 6. Gray, light brown, slightly plastic, contains 0% gravel (SC-0).

**SOIL PROFILES LEGEND**

- B = BORING NUMBER
- T = SOIL TYPE
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- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**
- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
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- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**
- RELATIVE DENSITY: **SPT VALUE**
- VERTICAL MOTION: **SPT VALUE**
- LIMESTONE: **SPT VALUE**
INDEX OF SIGNALIZATION PLANS

SHEET NO.  SHEET DESCRIPTION
T-1       KEY SHEET
T-2       TABULATION OF QUANTITIES
T-3       GENERAL NOTES
T-4 - T-5 SIGNALIZATION PLANS
T-6       WAST ARM TABULATION
T-7       STANDARD WAST ARM ASSEMBLIES DESIGN TABLE
GR-1 - GR-2 REPORT OF CORE BORINGS

COVERING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED JANUARY 2006,
AND STANDARDS SPECIFICATIONS FOR ROAD AND
BORDER CONSTRUCTION DATED 2001,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: OS/GBSM
For Design Standards modifications go to the following web site:
http://www.dot.state.fl.us/roads/ops/design/OS/GBSM/Standards.htm

LEE COUNTY DEPARTMENT OF TRANSPORTATION
1500 Monroe Street, Ft. Myers, Florida 33901

CONTRACT PLANS

COLONIAL BLVD. (CR 884) SIX LANEING
FROM I-75 TO SR 82
CAPITAL IMPROVEMENT PROJECT 4054

SIGNALIZATION PLANS

PRINTED
FEB 03 2009
WilsonMiller, Inc.
12801 Westlines Dr. Suite 106
Fort Myers, Florida 33913

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

KEY SHEET REVISIONS

DATE  BY  DESCRIPTION

COUNTY PROJECT MANAGER: Mike Riley
# TABULATION OF QUANTITIES

## PAY ITEM NO. | DESCRIPTION | UNIT | T-A | T-S | SHEET NUMBERS | TOTAL SHEET | GRAND TOTAL | REF. SHEET
--- | --- | --- | --- | --- | --- | --- | --- | ---
551-1-2 | DIRECTIONAL BORE & T.R.P. | LF | 545 | 300 | 845 | 845 | 845 | 845
650-1-11 | CONNECT - SIGNALS & U/GRADE (GROUNDED) | LF | 30 | 30 | 60 | 40 | 40 | 40
650-1-12 | CONNECT - SIGNALS & U/GRADE | LF | 545 | 645 | 1190 | 1190 | 1190 | 1190
652-1-1 | CABLE (SIGNAL & U) | P/ | 1 | 1 | 2 | 2 | 2 | 2
653-1-1 | PULL & ARNTON BOXES & U/PULL BOX | EA | 13 | 8 | 21 | 21 | 21 | 21
659-1-26 | ELECTRICAL POWER SERVICE UNDERGROUND | AS | 1 | 1 | 1 | 1 | 1 | 1
659-2-1 | ELECTRICAL SERVICE PIPE & O | LF | 300 | 300 | 600 | 600 | 600 | 600
641-2-12 | PRESTRESSED CONCRETE PILES (1 & 1) | TYPE P - SERVICE PRECAST | EA | 1 | 1 | 2 | 2 | 2 | 2
649-31-201 | MANHOLE ASSEMBLY (1 & 1) | SWG | 1 | 1 | 2 | 2 | 2 | 2
649-31-202 | SINGLE ARM w/ 24" DLH | EA | 1 | 1 | 2 | 2 | 2 | 2
649-31-203 | MANHOLE ASSEMBLY (1 & 1) | SWG | 1 | 1 | 2 | 2 | 2 | 2
649-31-204 | SINGLE ARM w/ 24" DLH | EA | 1 | 1 | 2 | 2 | 2 | 2
649-31-205 | MANHOLE ASSEMBLY (1 & 1) | SWG | 1 | 1 | 2 | 2 | 2 | 2
649-31-206 | SINGLE ARM w/ 24" DLH | EA | 1 | 1 | 2 | 2 | 2 | 2
650-31-11/1 | TRAFFIC SIGNAL LF & U/SECTION (18) | AS | 18 | 11 | 29 | 29 | 29 | 29
650-31-31/1 | TRAFFIC SIGNAL LF & U/SECTION (18) | AS | 18 | 11 | 29 | 29 | 29 | 29
655-181 | PEDESTRIAN SIGNAL LF & U/LEVEL WALK | AS | 4 | 2 | 6 | 6 | 6 | 6
659-101 | SIGNAL HEAD AUX LF & U/INCH P,3 SEC | EA | 18 | 11 | 29 | 29 | 29 | 29
659-106 | SIGNAL HEAD AUX LF & U/UNITAL, V/GROOP | EA | 54 | 35 | 89 | 89 | 89 | 89
659-107 | SIGNAL HEAD MF LF & U/DUALPATH PEDESTAL | EA | 7 | 2 | 9 | 9 | 9 | 9
659-111 | SIGNAL HEAD AUX LF & U/INCH P,3 SEC | EA | 2 | 2 | 4 | 4 | 4 | 4
655-2-106 | LOOP ASSEMBLY (TRAFFIC) | AS | 1 | 1 | 2 | 2 | 2 | 2
655-1-11/1 | VEHICLE DETECTOR ASSEMBLY LF & U/VEHICLE | EA | 4 | 4 | 8 | 8 | 8 | 8
655-1-11/1 | VEHICLE DETECTOR ASSEMBLY LF & U/VEHICLE MOUNTED | EA | 4 | 4 | 8 | 8 | 8 | 8
670-1-10 | TRAFFIC CONTROLLER ASSEMBLY LF & U/REMOTE | AS | 1 | 1 | 2 | 2 | 2 | 2
660-1-66 | SYSTEM CONTROL EQUIPMENT LF & U | EA | 1 | 1 | 2 | 2 | 2 | 2
660-1-10 | TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL | EA | 11 | 9 | 20 | 20 | 20 | 20
660-20 | SIGNAL PEDESTRIAN ASSEMBLY, REMOVED | EA | 4 | 2 | 6 | 6 | 6 | 6
660-51 | SIGNAL PEDESTAL, REMOVED | EA | 5 | 3 | 8 | 8 | 8 | 8
660-58-1 | POLE REMOVAL - SMALL (DIRECT BURIAL) | EA | 3 | 2 | 5 | 5 | 5 | 5
660-50 | CONTROLLER ASSEMBLY - REMOVED (COMPLETE) | EA | 1 | 1 | 2 | 2 | 2 | 2
660-70 | DETECTOR PEDESTRIAN ASSEMBLY, REMOVED | EA | 4 | 4 | 8 | 8 | 8 | 8
660-90 | CALLING AND CONGNTY, REMOVED | P/ | 1 | 1 | 2 | 2 | 2 | 2
660-100 | SIGNAL EQUIPMENT, MISCELLANEOUS, REMOVED | P/ | 1 | 1 | 2 | 2 | 2 | 2

---

**REV.** | **DATE** | **DESCRIPTION**
--- | --- | ---

---

**DATE** | **BP** | **DESCRIPTION**
--- | --- | ---

---

Wayne P. Hirth, P.E.
P.O. BOX 486000
Ft. Myers, FL 33916
33916

Lee County Department of Transportation
1500 Monroe Street, Fort Myers, Florida 33901

C.A. 864 Colonial Blvd 6600-001-001

CERTIFICATE OF AUTHORIZATION 43

---

**COUNTY ROAD NO.** | **COUNTY PROJECT NO.** | **COUNTY PROJECT NO.**
--- | --- | ---

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**T-2**
SIGNALIZATION GENERAL NOTES:

1. THE MAINTAINING AGENCY IS LEE COUNTY DOT. CONTRACTOR SHALL CONTACT LEE COUNTY DEPARTMENT OF TRANSPORTATION, TRAFFIC SECTION SEVERA FOR ALL MAINTENANCE AND INSPECTION.

2. THE INTENT OF THESE PLANS IS TO PROVIDE A COMPLETE ACCEPTABLE WORKING INSTALLATION. ANY INCIDENTAL ITEMS REQUIRED TO COMPLETE THIS INSTALLATION SHALL BE INCLUDED IN THE PAY ITEMS ESTABLISHED.

3. THE CONTRACTOR SHALL COORDINATE WITH FL POWER COMPANY TO PERFORM ALL NECESSARY WORK UNDER THEIR POWER LINES INCLUDING, BUT NOT LIMITED TO INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS, SIGNAL POLES AND MAST ARMS. THE CONTRACTOR SHALL NOTIFY THE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO THE INSTALLATION OF THIS EQUIPMENT. ALL SAFETY CLEARANCES TO OVERHEAD CONDUCTORS SHALL BE STRICTLY ADHERED TO.

4. CONTRACTOR SHALL COORDINATE UTILITY LOCATES AND ANY RELOCATIONS AS REQUIRED.

5. THE CONTRACTOR SHALL FURNISH LEE COUNTY WITH TWO SETS OF "AS BUILT" PLANS AT THE TIME OF FINAL ACCEPTANCE INSPECTION.

LEE COUNTY DEPARTMENT OF TRANSPORTATION
TRAFFIC SECTION
5630 ENTERPRISE PARKWAY
FORT MYERS, FL 33905
(239) 533-9300

6. WHERE TRAFFIC SIGNALS AND PEDESTRIAN SIGNALS ARE INSTALLED AND NOT PUT INTO IMMEDIATE SERVICE, THE ENTIRE SIGNAL HEAD SHALL BE COVERED WITH A WEATHER RESISTANT COVERING OF NON-TRANSPARENT MATERIAL, OPEN AT THE BOTTOM TO PREVENT CONDENSATION BUILD-UP.

7. BASE OF CONTROLLER TO BE SAME ELEVATION AS CURB OF ROADWAY OR GREATER.

8. SIGNAL SHALL BE PLACED INTO FULL OPERATION ON A SUNDAY, WEDNESDAY OR THURSDAY. HOWEVER, THE SIGNAL WILL NOT BE PLACED INTO FULL OPERATION ON THE DAY PROCEEDING A HOLIDAY.

9. SIGNAL HEADS SHALL BE LIGHT EYEWITNESS DEFLATED I.E. BE MOUNTED VERTICALLY.

10. ONE SPARE CONDUIT RUN (WITH FULL WIRE) AND ONE PAIR OF FULL BOXES SHALL BE CONSTRUCTED ACROSS EACH INTERSECTION APPROACH.

11. GROUNDING ELECTRODE ASSEMBLY OR ARMAY FOR THE CONTROLLER CABINET SHALL NOT BE INCLUDED WITHIN 6 FEET OF THE GROUNDING ELECTRODE ASSEMBLY OR ARMAY FOR ANY POLE, INCLUDING ROADWAY LIGHTING.

12. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE MAINTAINING AGENCY LISTED ABOVE FOR THE ASSIGNMENT OF THE PHYSICAL ADDRESS ONCE THE SERVICE DROP LOCATIONS HAVE BEEN ESTABLISHED.

13. AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE SIGNAL INSTALLATION, THE CONTRACTOR SHALL CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON.

BRIAN BIRD, TRAFFIC OPERATIONS LIAISON
FLORIDIAN DEPARTMENT OF TRANSPORTATION
FORT MYERS OPERATIONS CENTER
2951 N. K. ALLEN ROAD
CAPE CORAL, FL 33909

14. THE LOCATIONS OF THE UTILITY SIGNS IN THE PLANS INCLUDING THOSE DESIGNATED YY AND YYA ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS APPLY ONLY AT THE POINTS SHOWN. INTERSECTIONS BETWEEN POINTS HAVE NOT BEEN VERIFIED.

15. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUBMITTING ONE COPY OF CALL AT FLOIDA, INC., (800) 432-4770 AND UTILITY OWNERS LISTED TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

16. IT HAS BEEN THE EXPERIENCE OF THE DEPARTMENT WITH PROJECTS CONSTRUCTED WITHIN THIS GENERAL GEOGRAPHIC AREA THAT INSURANCE COVERS DO NOT INDICATE A CONSTANT PRESENCE OF ROCK, RICE HAS ENCOUNTERED WHILE PERFORMING UNDERGROUND INSTALLATION. THEREFORE, THE CONTRACTOR SHOULD CONSIDER THE UNEXPECTED CONCENTRATIONS OF UNDERGROUND ROCKS While FERRING WITH HIS BID. ALL COSTS OF ROCK EXCAVATION SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO EXTRA COMPENSATION ON THE EXTRAS WIL NOT BE ALLOWED FOR ADDITIONAL WORK DIRECTLY ASSOCIATED WITH THE EXCAVATION, CRUSHING, DISPOSAL, REPLACEMENT OF VOLUMES OF EXTRACTED ROCK WITH FILL MATERIAL OR SPECIAL HANDLING OF ROCK.

SIGNALIZATION PAY ITEM NOTES:

PAY ITEM 555-1-12 AND 630-1-12:
- INSTALL CONDUIT UNDER PROPOSED ROADWAY AND/OR SIDEWALK PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE OR CONCRETE.

PAY ITEM 632-7-11:
- PLACE SIGNAL CABLE TO A SEPARATE CABLE (PER SIGNAL HEAD) IN THE BASE OF WALL ARM STRUCTURE. EACH SEPARATE CABLE SHALL HAVE A MINIMUM OF 0.5" DIAMETER LOOP FOR FUTURE SPlicing. CABLES SHALL BE CONNECTED USING B-CAP (SILICONE FILLED) TWIST WIRE NUTS. A PERMANENT MARKING IS TO BE PLACED ON EACH WIRE DESIGNATING THE PHASE (USED). SPARE CONDUCTORS SHALL BE CONNECTED TOGETHER USING B-CAP (SILICONE FILLED) TWIST WIRE NUTS AND ARE GROUPED (INSIDE BASE OF POLE).

PAY ITEM 630-1-11:
- USE POLYMER CONCRETE CONSTRUCTION FULL BOXES WITH POLYMER CONCRETE NO LOAD PLATE.
- LOAD PLATE VISUAL DESIGNATION WRITING "SIGNAL SIGNAL" FOR COMMUNICATION AND/OR INTERCONNECT CABLE. USE 2" x 36" FULL BOXES PLACED A MINIMUM OF 8" APART.
- FULL BOXES ARE TO BE PLACED BEHIND THE Curb AND GUTTER. IF THERE IS NO CURB AND GUTTER, FULL BOXES SHALL BE PLACED A MINIMUM OF 7" FROM THE EDGE OF PAVEMENT.

PAY ITEM 630-1-13:
- USE GALVANIZED RIGID AYEWITNESS CONDUIT FOR ELECTRICAL POUCH SERVICE.

PAY ITEM 630-1-14:
- USE AERIAL TYPE B/PASS METER SOCKET.

PAY ITEM 630-1-15:
- ELECTRICAL SERVICE DISCONNECT IS COMPRISED OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE (3) CIRCUIT BREAKERS. ONE 15A/120V FOR CONTROLLER CABLES. ONE 15A/120V FOR INTERNALLY ILLUMINATED STREET NAME SIGNS AND ONE 15A/120V FOR FUTURE USE.

PAY ITEM 649-1-1-11:
- USE THREE 2" I.D. CONDUITS STUBBED OUT THROUGH THE WALL ARM POLE FOUNDATION TO FULL BOX AND TEMPORARILY SEAL.

PAY ITEM 650-5-11-1 AND 650-5-11-2 AND 650-5-11-3:
- USE INDICATORS RED, YELLOW AND GREEN. SHALL BE LIGHT EYEWITNESS DEFLATED I.E. BE MOUNTED VERTICALLY.

PAY ITEM 653-1-1:
- USE SIGNAL HEAD SUPPORTING TUBE THAT IS CAPABLE OF ADJUSTING VERTICALLY A MINIMUM OF 1 1/2 FEET.

PAY ITEM 656-1-1-1:
- PEDESTRIAN SIGNS SHALL BE LIGHT DEFLATED I.E. BE MOUNTED VERTICALLY.
- MOUNT PEDESTRIAN SIGNAL HEADS 9"-6" ABOVE FINISHED GRADE.

PAY ITEM 659-1-1:
- USE ONE-PIECE METAL LAMINATED SIGNAL BACK PLATES.

PAY ITEM 660-1-1:
- USE BREAKAWAY ALUMINUM SQUARE BASE ASSEMBLES WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTRIANS. SECURE 3/8"-16 ALUMINUM BASE PEDESTRIAN PEDESTRIANS WITH 4 W/5/8"-16 FIBERGLASS FILLED B-CAP. INSIDE DIAMETER PEDESTRIANS SHALL BE FOUR INCHES (4"

PAY ITEM 661-1-1:
- USE PEDESTRIAN BUTTON SIGNAL SIGN FTP-200-08, STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAMES SHOWN ON THE SIGNIFICATION PLAN SHEETS.

PAY ITEM 660-5-1-1:
- USE PEDESTRIAN CONSTRUCTION CONTROLLER BASE, AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PEDESTRIAN BASE SHALL HAVE A TWEETH INCH (2") BED OF PED PHOTOCONDUCTIVE OR CRUSHED STONE FOR DRAINAGE. STONE OR CONCRETE CONDUCTORS SHALL BE 5/16 INCHES (1/4") THICKER. BELOW THE ACCESS HOLE, CONCRETE CONDUCTORS SHALL BE THE WETH OF CADDY AND SHALL EXTEND OUT 2 INCHES (50)

PAY ITEM 664-1-1:
- CONNECT INTERNALLY ILLUMINATED STREET NAME SIGNS TO PHOTOELECTRIC CELL. LOCATED OUTSIDE THE ELECTRICAL SERVICE DISCONNECT BOX AND PHOTOELECTRIC CELL CONNECTION TO DESIGNATED 15A/120V CIRCUIT BREAKER LOCATION OUTSIDE THE ELECTRICAL SERVICE DISCONNECT BOX.

PAY ITEM 665-1-1:
- INSTALL PHOTOELECTRIC CELL FOR INTERNALLY ILLUMINATED STREET NAME SIGNS ON THE TRAFFIC SIGNAL ELECTRICAL SERVICE DISCONNECT.
# Standard Mast Arm Assemblies Data Table

<table>
<thead>
<tr>
<th>Structure</th>
<th>Assembly Numbers</th>
<th>First Arm</th>
<th>Second Arm</th>
<th>UP (deg)</th>
<th>LC (deg)</th>
<th>Pole</th>
<th>Special Drilled Shaft</th>
<th>Grit Pad</th>
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<td>Pole</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td>T3</td>
<td>18 4 10 16 Y</td>
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<td></td>
<td></td>
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<td>23 4 10 16 Y</td>
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<td>E3-T2</td>
<td>E3</td>
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<td></td>
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<td>T2</td>
<td>22 4 10 16 Y</td>
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<td>Pole 5</td>
<td>E6-E2-T4</td>
<td>E6</td>
<td>E2</td>
<td>90</td>
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<td>T4</td>
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<td>T3</td>
<td>16 4 10 16 Y</td>
<td></td>
</tr>
</tbody>
</table>

## Table Notes:
1. Assembly Number Legend
   - Single Arm: Arm Type - Pole Type = E6 - T6
   - Double Arm: First Arm Type - Second Arm Type - Pole Type = E6 - E6 - T6
2. If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the arm length shall be shortened from "FAA" to "FBA" and the tip diameter shall be increased from "FBA" to "FBA".
3. If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UAA" to "UCA" and the pole tip diameter shall be increased from "UCA" to "UCA".
4. The foundations for Standard Mast Arm Assemblies are pre-designed and are based on the following Soil Criteria for Pole 1 thru 10. Only complete the "Special Drilled Shaft" data information if site conditions dictate drilled shafts with additional foundation capacity.
   - Classification = Cohesionless (Fine Sand)
   - Friction Angle = 29 degrees (29°)
   - Unit Weight = 426 lbs. / cu. ft. (assumed saturated)

## General Notes:
1. Work this sheet with the Signal Designer's "Most Arm Tabulation". See "Most Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
2. Work with Index Nos. 17744 and 17745.
SIGNAL POLE STRUCTURE
STA 338 to STA 340

NOTES: SPT BORING LOCATION
BASE DRAWING PROVIDED BY CLIENT