

CONTENT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS

INDEX OF SHEETS

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* This sheet is included in the Index of Roadway Plans only to indicate that it is part of the Roadway Plans. This sheet is contained in a separate digitally signed and sealed document.

CITY OF MIAMI BEACH

| | |
|-------------------------------------|--|
| MAYOR: | DAN GELBER |
| COMMISSIONERS: | MICKY STEINBERG MARK SAMUELIAN MICHAEL GÓNGORA STEVEN MEINER RICKY ARRIOLA DAVID RICHARDSON |
| CITY MANAGER: | ALINA T. HUDAK |
| ASSISTANT CITY MANAGER: | MARK TAXIS |
| DEPUTY CITY MANAGER: | ERIC CARPENTER |
| TRANSPORTATION DEPARTMENT DIRECTOR: | JOSÉ R. GONZÁLEZ, P.E. |

GOVERNING DESIGN STANDARDS:

City of Miami Beach Public Works Manual

Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways "Florida Greenbook" 2018 Edition.

Florida Department of Transportation, FY2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

Manual on Uniform Traffic Control Devices (2009)

GOVERNING STANDARD SPECIFICATIONS:

City of Miami Beach, Minimum Specifications

Florida Department of Transportation, July 2021 Standard Specifications for Road and Bridge Construction at the following website:

<http://www.fdot.gov/programmanagement/implemented/specbooks/default.shtm>

MIAMI-DADE COUNTY

| | |
|----------------|--|
| MAYOR: | DANIELLA LEVINE CAVA |
| COMMISSIONERS: | OLIVER G. GILBERT, III JEAN MONESTIME KEON HARDEMON SALLY A. HEYMAN EILEEN HIGGINS REBECA SOSA RAQUEL A. REGALADO DANIELLE COHEN HIGGINS KIONNE L. MCGHEE JAVIER D. SOUTO JOE A. MARTINEZ JOSE "PEPE" DIAZ RENÉ GARCIA |

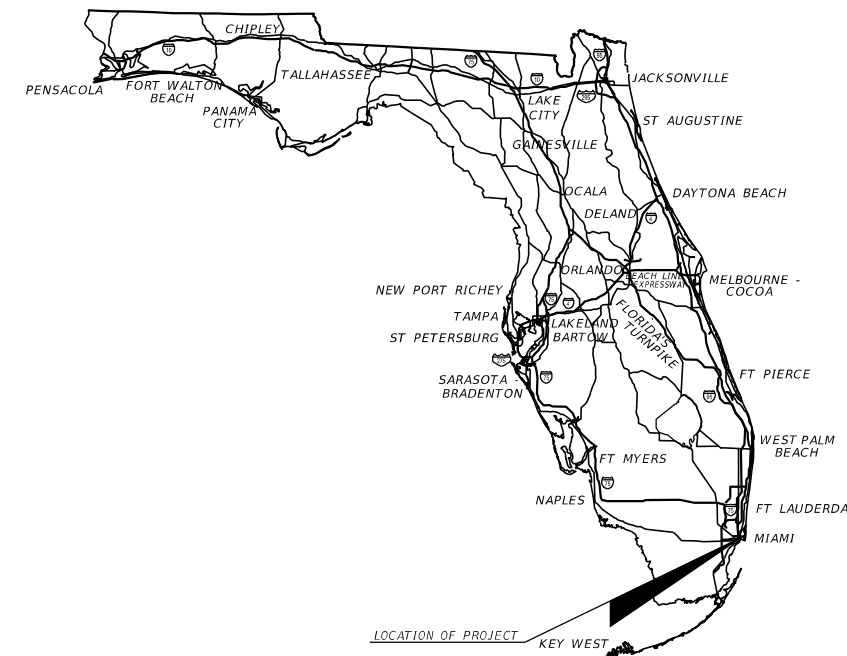


CITY OF MIAMI BEACH

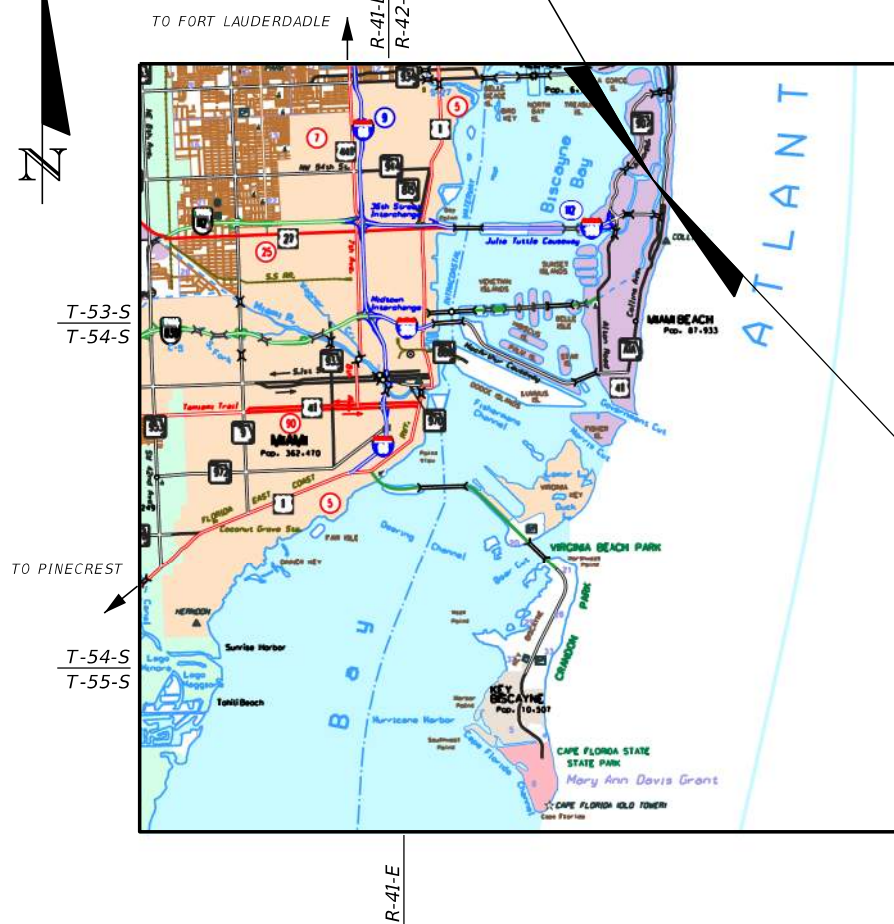
CONTRACT PLANS

ROADWAY PLANS

CITY OF MIAMI BEACH PROJECT # 20212288
 ROUNDABOUT AT PINE TREE DRIVE & W 46TH STREET



BEGIN PROJECT
 @ SURVEY PINE TREE DRIVE
 STA. 33+02.00



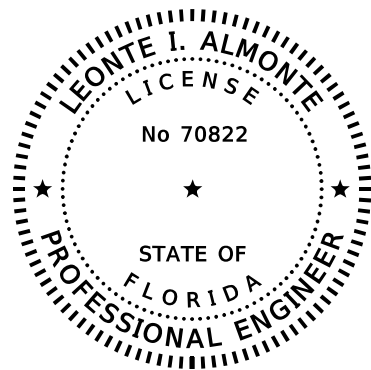
T-53-S
 T-54-S

END PROJECT
 @ SURVEY PINE TREE DRIVE
 STA. 42+42.00

T-54-S
 T-55-S

**60% SUBMITTAL
 AUGUST 16TH, 2021**

| REVISIONS | | | | Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 | COUNTY PROJECT MIAMI-DADE PINE TREE DRIVE & 46TH STREET | | SHEET NO. 1 |
|-----------|-------------|------|-------------|--|--|--|----------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | KEY SHEET | | |
| | | | | | | | |



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THE DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED.
THE SIGNATURE MUST BE VERIFIED
ON THE ELECTRONIC COPIES.

LEONTE I. ALMONTE, P.E. NO.: 70822
KIMLEY-HORN AND ASSOCIATES, INC.
355 ALHAMBRA CIRCLE, SUITE 1400
MIAMI, FLORIDA 33134
(305) 673-2025



THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR
THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

| SHEET NO. | SHEET DESCRIPTION |
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| 1 | KEY SHEET |
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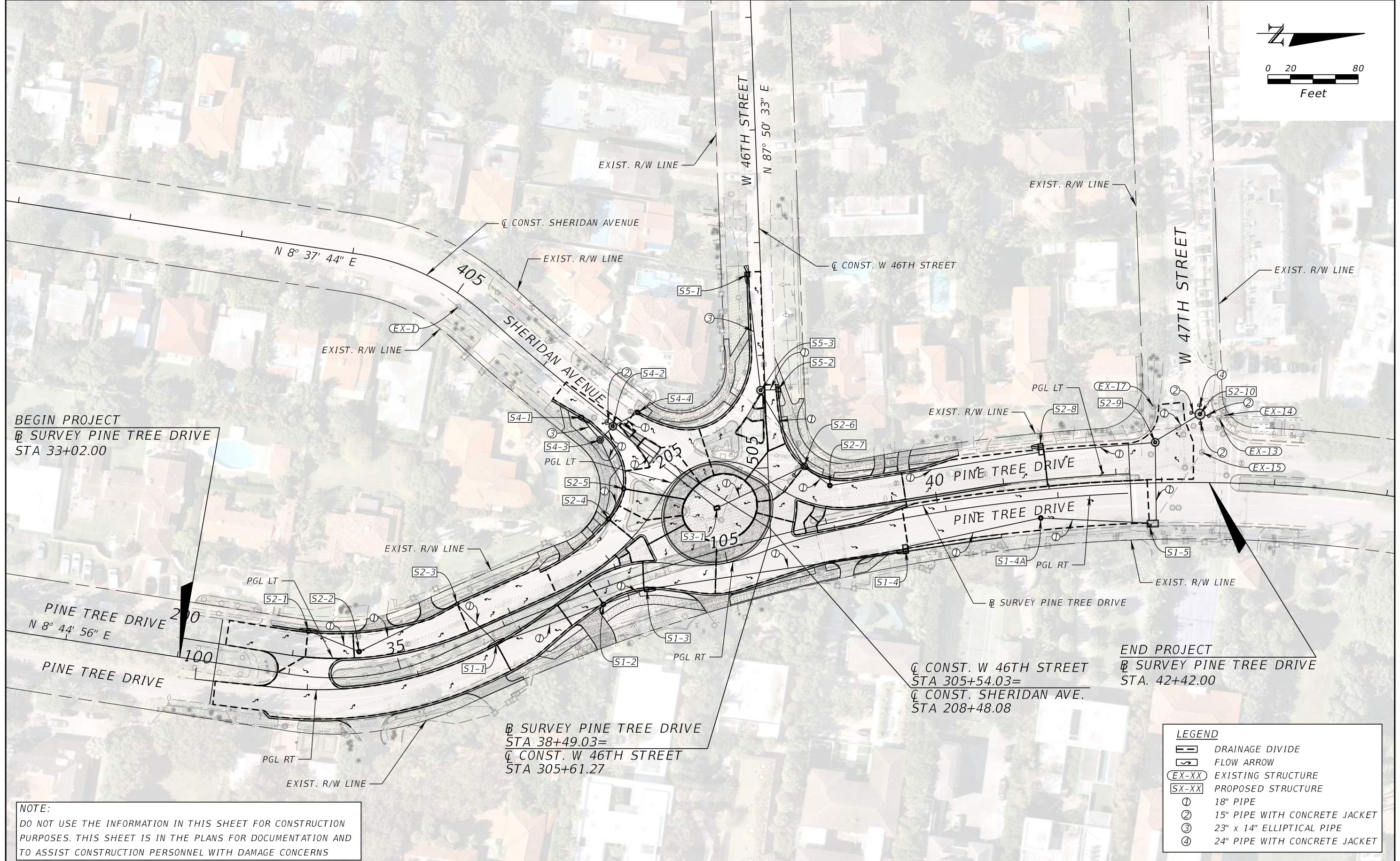
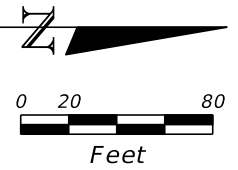
| REVISIONS | | | | Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 | | | <i>SIGNATURE SHEET</i> | SHEET NO. |
|-----------|-------------|------|-------------|--|------------|-------------------------------|------------------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | COUNTY | PROJECT | | 2 |
| | | | | | MIAMI-DADE | PINE TREE DRIVE & 46TH STREET | | |

SUMMARY OF PAY ITEMS

| PAY ITEM NO. | DESCRIPTION | UNIT | GRAND TOTAL | | DESIGN NOTES |
|--------------|--|------|-------------|-------|--------------|
| | | | PLAN | FINAL | |
| 102-1 | MAINTENANCE OF TRAFFIC | LS | 1 | | |
| 107-1 | LITTER REMOVAL | AC | 3.00 | | |
| 107-2 | MOWING | AC | 1.00 | | |
| 110-1-1 | CLEARING & GRUBBING | AC | 1.70 | | |
| 110-4-10 | REMOVAL OF EXISTING CONCRETE | SY | 1120 | | |
| 120-1 | REGULAR EXCAVATION | CY | 368.0 | | |
| 120-6 | EMBANKMENT | CY | 361.0 | | |
| 160-4 | TYPE B STABILIZATION | SY | 780 | | |
| 285-706 | OPTIONAL BASE, BASE GROUP 06 (LIMEROCK, LBR 100, 8" MINIMUM DEPTH) | SY | 780 | | |
| 327-70-06 | MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVG DEPTH | SY | 5220 | | |
| 334-1-13 | SUPERPAVE ASPHALTIC CONC, TRAFFIC C | TN | 574.0 | | |
| 337-7-83 | ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22 | TN | 125.0 | | |
| 350-30-13 | CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH | SY | 350 | | |
| 425-1-201 | INLETS, CURB, TYPE 9, <10' | EA | 5 | | |
| 425-1-203 | INLETS, CURB, TYPE 9, J BOT, <10' | EA | 2 | | |
| 425-1-351 | INLETS, CURB, TYPE P-5, <10' | EA | 4 | | |
| 425-1-361 | INLETS, CURB, TYPE P-6, <10' | EA | 2 | | |
| 425-1-451 | INLETS, CURB, TYPE J-5, <10' | EA | 2 | | |
| 425-1-561 | INLETS, DT BOT, TYPE F, <10' | EA | 1 | | |
| 425-2-61 | MANHOLES, P-8, <10' | EA | 3 | | |
| 425-2-91 | MANHOLES, J-8, <10' | EA | 5 | | |
| 425-5 | MANHOLE, ADJUST | EA | 5 | | |
| 425-5-1 | MANHOLE, ADJUST, UTILITIES | EA | 5 | | |
| 425-6 | VALVE BOXES, ADJUST | EA | 25 | | |
| 430-175-115 | PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD | LF | 16 | | |
| 430-175-118 | PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD | LF | 1571 | | |
| 430-175-124 | PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD | LF | 4 | | |
| 430-175-218 | PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 18"S/CD | LF | 121 | | |
| 520-1-10 | CONCRETE CURB & GUTTER, TYPE F | LF | 2420 | | |
| 520-2-1 | CONCRETE CURB, TYPE A | LF | 220 | | |
| 520-2-4 | CONCRETE CURB, TYPE D | LF | 250 | | |
| 520-2-8 | CONCRETE CURB, TYPE RA | LF | 290 | | |
| 522-1 | CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK | SY | 710 | | |
| 522-2 | CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK | SY | 610 | | |
| 527-2 | DETECTABLE WARNINGS | SF | 310 | | |
| 536-73 | GUARDRAIL REMOVAL | LF | 70 | | |
| 570-1-2 | PERFORMANCE TURF, SOD | SY | 1940 | | |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE | EA | 8 | | |
| 1644-800 | FIRE HYDRANT, RELOCATE | EA | 1 | | |

| <table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table> | | | | REVISIONS | | DATE | DESCRIPTION | | |  <p>Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134</p> |  | <p align="center">SUMMARY OF PAY ITEMS</p> | <p align="center">SHEET NO. 3</p> |
|---|-------------------------------|--------|---------|------------|-------------------------------|------|-------------|--|--|---|---|---|--|
| REVISIONS | | | | | | | | | | | | | |
| DATE | DESCRIPTION | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>COUNTY</th> <th>PROJECT</th> </tr> </thead> <tbody> <tr> <td align="center">MIAMI-DADE</td> <td align="center">PINE TREE DRIVE & 46TH STREET</td> </tr> </tbody> </table> | | COUNTY | PROJECT | MIAMI-DADE | PINE TREE DRIVE & 46TH STREET | | | | | | | | |
| COUNTY | PROJECT | | | | | | | | | | | | |
| MIAMI-DADE | PINE TREE DRIVE & 46TH STREET | | | | | | | | | | | | |

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



BEGIN PROJECT
 @ SURVEY PINE TREE DRIVE
 STA 33+02.00

Q CONST. W 46TH STREET
 STA 305+54.03=
 Q CONST. SHERIDAN AVE.
 STA 208+48.08

END PROJECT
 @ SURVEY PINE TREE DRIVE
 STA. 42+42.00

@ SURVEY PINE TREE DRIVE
 STA 38+49.03=
 Q CONST. W 46TH STREET
 STA 305+61.27

NOTE:
 DO NOT USE THE INFORMATION IN THIS SHEET FOR CONSTRUCTION
 PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND
 TO ASSIST CONSTRUCTION PERSONNEL WITH DAMAGE CONCERNS

| LEGEND | |
|--------|-------------------------------|
| | DRAINAGE DIVIDE |
| | FLOW ARROW |
| | EXISTING STRUCTURE |
| | PROPOSED STRUCTURE |
| | 18" PIPE |
| | 15" PIPE WITH CONCRETE JACKET |
| | 23" x 14" ELLIPTICAL PIPE |
| | 24" PIPE WITH CONCRETE JACKET |

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

Kimley»Horn
 Registry 696
 Leonte I. Almonte, P.E.
 P.E. License No. 70822
 355 Alhambra Circle - Suite 1400
 Coral Gables, Florida 33134

MIAMI BEACH
 COUNTY: MIAMI-DADE
 PROJECT: PINE TREE DRIVE & 46TH STREET

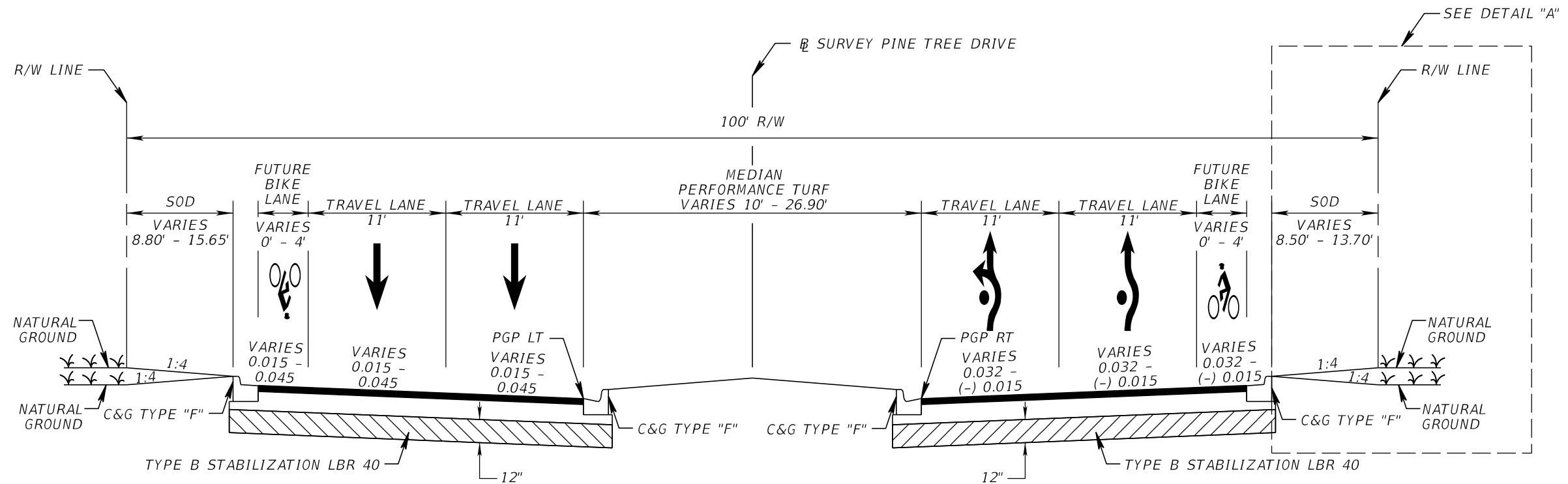
DRAINAGE MAP

SHEET NO.
 4

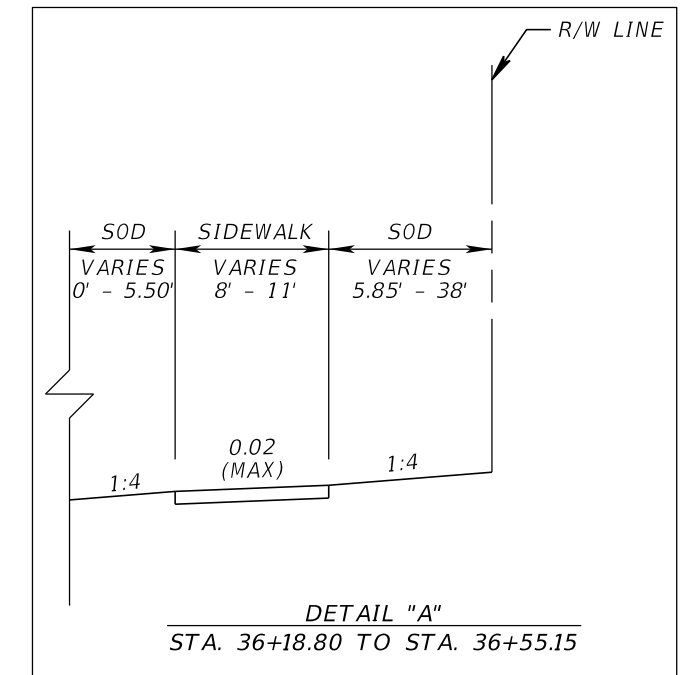
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NOTE TO REVIEWER

TYPICAL SECTIONS TO BE UPDATED FOR SUBMISSION TO MIAMI-DADE COUNTY



TYPICAL SECTION
PINE TREE DRIVE
STA. 34+35.85 TO STA. 36+55.15



DETAIL "A"
STA. 36+18.80 TO STA. 36+55.15

- MILLING
- MILL EXISTING ASPHALT PAVEMENT (1.5" AVG DEPTH)
- RESURFACING
- FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)
- OVERBUILD
- STRUCTURAL COURSE SP-9.5 (TRAFFIC C) (THICKNESS VARIES)
- WIDENING & RECONSTRUCTION
- OPTIONAL BASE GROUP 6 (LIMEROCK LBR 100 ONLY) (8") WITH FRICTION COURSE FC-12.5 (TRAFFIC C) (2")

DESIGN SPEED = 35 MPH
POSTED SPEED = 30 MPH

NOTE

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. PLEASE SEE PLAN VIEW FOR LIMITS OF WIDENING/RECONSTRUCTION AND MILLING, OVERBUILD AND RESURFACING.

NOTE TO REVIEWER

TYPICAL SECTIONS TO BE UPDATED FOR SUBMISSION TO MIAMI-DADE COUNTY

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

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Registry 696
Leonte I. Almonte, P.E.
P.E. License No. 70822
355 Alhambra Circle - Suite 1400
Coral Gables, Florida 33134

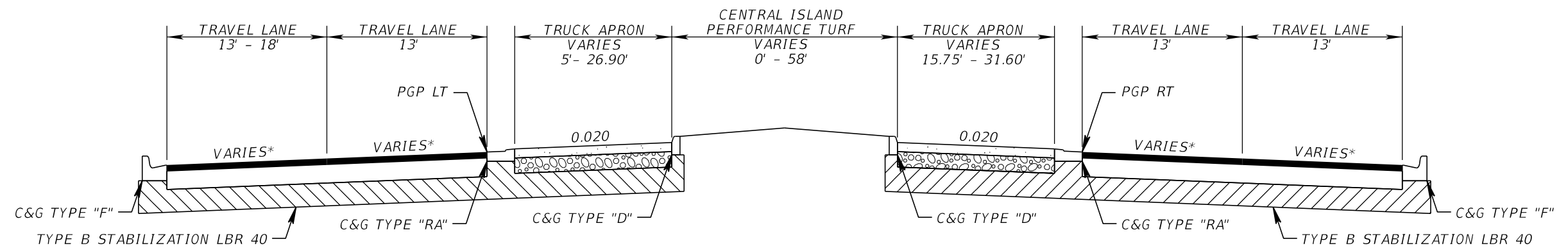
MIAMI BEACH

COUNTY: MIAMI-DADE
PROJECT: PINE TREE DRIVE & 46TH STREET

TYPICAL SECTION

SHEET NO.

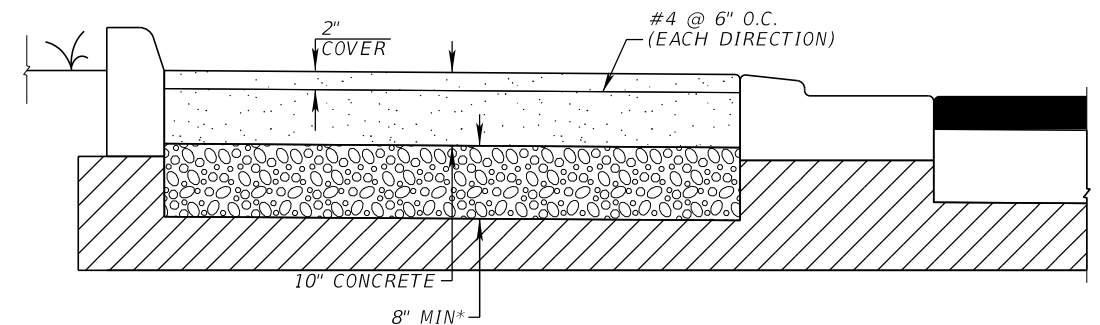
5



TYPICAL SECTION
 PINE TREE DRIVE ROUNDABOUT
 STA. 37+60.00 TO STA. 38+58.65

* SEE INTERSECTION LAYOUT SHEET FOR CROSS SLOPES

TRUCK APRON DETAIL



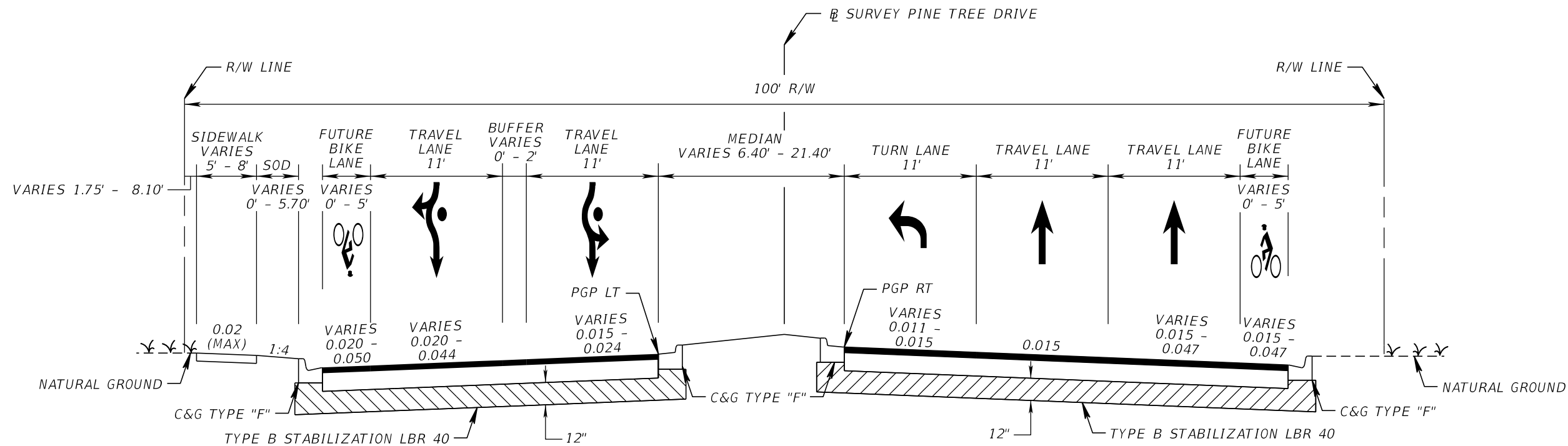
* CONTRACTOR TO PROVIDE 8" THICK LBR 100 LIMEROCK BASE. THE EXISTING BASE COULD BE RE-USED IF IT MEETS CITY OF MIAMI BEACH'S SPECS FOR LIMEROCK BASE MATERIAL. CONTRACTOR SHALL RECEIVE APPROVAL BY THE ENGINEER BEFORE RE-USING THE BASE. CONTRACTOR SHALL FOLLOW FDOT SPEC SECTION 210 "REWORKING LIMEROCK BASE" IF THE EXISTING BASE IS TO BE USED.

RECONSTRUCTION
 OPTIONAL BASE GROUP 6 (LIMEROCK LBR 100 ONLY) (8") WITH
 FRICTION COURSE FC-12.5 (TRAFFIC C) (2") (PG 76-22)

DESIGN SPEED = 15-30 MPH
 POSTED SPEED = 30 MPH

NOTE TO REVIEWER
 TYPICAL SECTIONS TO BE UPDATED FOR SUBMISSION TO MIAMI-DADE COUNTY

| REVISIONS | | | | Kimley»Horn Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 | MIAMI BEACH COUNTY PROJECT MIAMI-DADE PINE TREE DRIVE & 46TH STREET | | TYPICAL SECTION SHEET NO. 6 |
|-----------|-------------|------|-------------|--|--|--|---------------------------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | | |
| | | | | | | | |



TYPICAL SECTION
 PINE TREE DRIVE
 STA. 39+00.00 TO STA. 41+70.00

- MILLING
- MILL EXISTING ASPHALT PAVEMENT (1.5" AVG DEPTH)
- RESURFACING
- FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") (PG 76-22)
- OVERBUILD
- STRUCTURAL COURSE SP-9.5 (TRAFFIC C) (THICKNESS VARIES)
- WIDENING & RECONSTRUCTION
- OPTIONAL BASE GROUP 6 (LIMEROCK LBR 100 ONLY) (8") WITH FRICTION COURSE FC-12.5 (TRAFFIC C) (2")

DESIGN SPEED = 35 MPH
 POSTED SPEED = 30 MPH

NOTE

1. ACTUAL WIDTH OF BASE WIDENING MAY VARY DUE TO EXISTING PAVEMENT WIDTH. A UNIFORM WIDTH BASE WIDENING STRIP MAY BE CONSTRUCTED AT NO ADDITIONAL COMPENSATION.
2. PLEASE SEE PLAN VIEW FOR LIMITS OF WIDENING/RECONSTRUCTION AND MILLING, OVERBUILD AND RESURFACING.

NOTE TO REVIEWER

TYPICAL SECTIONS TO BE UPDATED FOR SUBMISSION TO MIAMI-DADE COUNTY

| REVISIONS | | | | Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 | COUNTY PROJECT MIAMI-DADE PINE TREE DRIVE & 46TH STREET | | SHEET NO. 7 |
|-----------|-------------|------|-------------|--|--|--|----------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | TYPICAL SECTION | | |
| | | | | | | | |

| QUANTITY | STR. NO. | STATION | SIDE | DESCRIPTION | BARRELS | STORM AND CROSS DRAIN OPTIONAL MATERIAL | | | | | DITCH BOTTOM INLETS | CURB INLETS | | | | | | MANHOLES | | REMARKS |
|---------------------|----------|-----------|------|-----------------|---------|---|------|------|------|--------------------|---------------------|-------------|------|------|------|------|------|----------|------|---------------------|
| | | | | | | 12" | 15" | 18" | 24" | 23"X14" ELLIPTICAL | F | P-5 | J-5 | P-6 | J-6 | P-9 | J-9 | P-8 | J-8 | |
| | | | | | | <10' | <10' | <10' | <10' | <10' | <10' | <10' | <10' | <10' | <10' | <10' | <10' | PARTIAL | <10' | |
| P | S1-1 | 35+87.00 | RT | INLET, PIPE | 1 | | | 98 | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S1-2 | 36+89.00 | RT | INLET, PIPE | 1 | | | 38 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S1-3 | 37+30.00 | RT | INLET, PIPE | 1 | | | 231 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S1-4 | 39+65.00 | RT | INLET, PIPE | 1 | | | 120 | | | | | | | | | | | | BOTTOM 7.0' X 3.5' |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S1-4A | 40+90.00 | RT | MANHOLE, PIPE | 1 | | | 94 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S1-5 | 41+88.00 | RT | INLET, PIPE | 1 | | | 67 | | | | | | | | | | | | BOTTOM 5.0' X 9.0' |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-1 | 34+13.00 | LT | INLET, PIPE | 1 | | | 45 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-2 | 34+65.00 | LT | MANHOLE, PIPE | 1 | | | 95 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-3 | 35+69.50 | LT | INLET, PIPE | 1 | | | 48 | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-4 | 37+18.00 | LT | INLET, PIPE | 1 | | | 27 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-5 | 37+38.30 | LT | INLET, PIPE | 1 | | | 44 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-6 | 38+92.00 | LT | INLET, PIPE | 1 | | | 25 | | | | | | | | | | | | BOTTOM 5.0' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-7 | 39+10.00 | LT | MANHOLE, PIPE | 1 | | | 187 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-8 | 40+96.00 | LT | INLET, PIPES | 2 | | | 97 | | | | | | | | | | | | BOTTOM 3.50' X 9.0' |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-9 | 41+95.00 | LT | MANHOLE, PIPE | 1 | | | 40 | | | | | | | | | | | | BOTTOM 6.0' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S2-10 | 42+33.50 | LT | MANHOLE, PIPES | 4 | | 12 | 4 | | | | | | | | | | | | BOTTOM 8.0' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S3-1 | 38+10.00 | LT | INLET, PIPE | 1 | | | 82 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S4-1 | 406+55.00 | RT | INLET, PIPE | 1 | | | | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S4-2 | 406+81.55 | RT | MANHOLE, PIPES | 2 | | 4 | 113 | | | | | | | | | | | | BOTTOM 6.0' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S4-3 | 406+80.00 | RT | MANHOLE, PIPE | 1 | | | 11 | | | | | | | | | | | | BOTTOM 5.0' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S4-4 | 406+92.00 | LT | INLET, PIPE | 1 | | | 25 | | | | | | | | | | | | BOTTOM 3.5' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S5-1 | 503+28.00 | RT | INLET, PIPE | 1 | | | | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S5-2 | 504+31.00 | LT | INLET, PIPE | 1 | | | 11 | | | | | | | | | | | | |
| F | | | | | | | | | | | | | | | | | | | | |
| P | S5-3 | 504+31.00 | RT | MANHOLE, PIPES | 3 | | | 73 | | | | | | | | | | | | BOTTOM 6.0' DIA |
| F | | | | | | | | | | | | | | | | | | | | |
| SHEET TOTALS | | | | PLAN QUANTITY: | | 16 | 1571 | 4 | 121 | 1 | 4 | 2 | 2 | | 5 | 2 | 3 | | 5 | |
| | | | | FINAL QUANTITY: | | | | | | | | | | | | | | | | |

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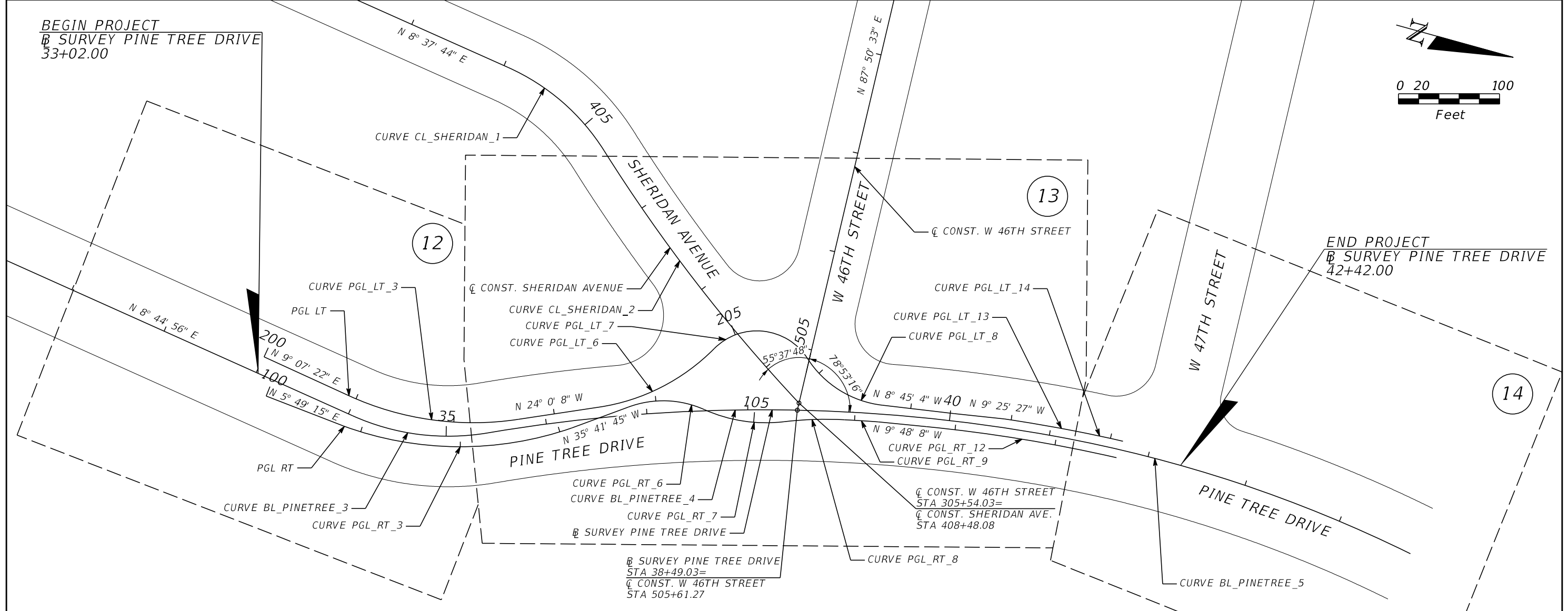
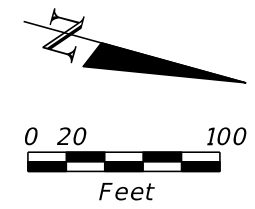
Kimley»Horn
 Registry 696
 Leonte I. Almonte, P.E.
 P.E. License No. 70822
 355 Alhambra Circle - Suite 1400
 Coral Gables, Florida 33134

MIAMI BEACH
 COUNTY: MIAMI-DADE
 PROJECT: PINE TREE DRIVE & 46TH STREET

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 8

BEGIN PROJECT
 SURVEY PINE TREE DRIVE
 33+02.00



END PROJECT
 SURVEY PINE TREE DRIVE
 42+42.00

| CURVE DATA PGL_LT | | CURVE DATA BL_PINETREE | | CURVE DATA PGL_RT | | CURVE DATA CL_SHERIDAN | |
|---|---|---|--|--|--|------------------------|--|
| CURVE DATA PGL_LT_3 PI STA. = 201+80.46 Δ = 33° 07' 29" (LT) D = 19° 17' 29" T = 88.33 L = 171.71 R = 297.00 PC STA. = 200+92.13 PT STA. = 202+63.84 | CURVE DATA PGL_LT_8 PI STA. = 206+29.69 Δ = 50° 39' 45" (LT) D = 56° 10' 20" T = 48.28 L = 90.19 R = 102.00 PC STA. = 205+81.41 PT STA. = 206+71.60 | CURVE DATA BL_PINETREE_3 PI STA. = 34+74.75 Δ = 33° 48' 00" (LT) D = 24° 43' 42" T = 70.40 L = 136.68 R = 231.70 PC STA. = 34+04.35 PT STA. = 35+41.03 | CURVE DATA PGL_RT_3 PI STA. = 102+01.94 Δ = 39° 12' 19" (LT) D = 17° 00' 06" T = 120.02 L = 230.60 R = 337.00 PC STA. = 100+81.92 PT STA. = 103+12.52 | CURVE DATA PGL_RT_8 PI STA. = 105+60.04 Δ = 9° 58' 33" (RT) D = 16° 36' 27" T = 30.11 L = 60.07 R = 345.00 PC STA. = 105+29.93 PT STA. = 105+90.00 | CURVE DATA CL_SHERIDAN_1 PI STA. = 404+70.19 Δ = 33° 48' 00" (RT) D = 26° 26' 24" T = 65.84 L = 127.84 R = 216.70 PC STA. = 204+04.35 PT STA. = 205+32.19 | | |
| CURVE DATA PGL_LT_6 PI STA. = 204+12.16 Δ = 36° 40' 14" (LT) D = 28° 11' 24" T = 67.36 L = 130.08 R = 203.25 PC STA. = 203+44.80 PT STA. = 204+74.88 | CURVE DATA PGL_LT_13 PI STA. = 208+29.31 Δ = 2° 33' 59" (RT) D = 3° 32' 53" T = 36.17 L = 72.33 R = 1,614.88 PC STA. = 207+93.13 PT STA. = 208+65.47 | CURVE DATA BL_PINETREE_4 PI STA. = 38+27.00 Δ = 20° 00' 00" (RT) D = 3° 31' 58" T = 285.97 L = 566.11 R = 1,621.80 PC STA. = 35+41.03 PT STA. = 41+07.15 | CURVE DATA PGL_RT_6 PI STA. = 104+12.79 Δ = 44° 24' 37" (RT) D = 57° 17' 45" T = 40.82 L = 77.51 R = 100.00 PC STA. = 103+71.97 PT STA. = 104+49.48 | CURVE DATA PGL_RT_9 PI STA. = 106+06.81 Δ = 1° 06' 31" (RT) D = 3° 17' 51" T = 16.81 L = 33.62 R = 1,737.50 PC STA. = 105+90.00 PT STA. = 106+23.62 | CURVE DATA CL_SHERIDAN_2 PI STA. = 406+90.63 Δ = 11° 03' 28" (LT) D = 3° 30' 02" T = 158.44 L = 315.90 R = 1,636.80 PC STA. = 205+32.19 PT STA. = 208+48.08 | | |
| CURVE DATA PGL_LT_7 PI STA. = 205+49.13 Δ = 102° 35' 02" (RT) D = 96° 18' 00" T = 74.24 L = 106.53 R = 59.50 PC STA. = 204+74.88 PT STA. = 205+81.41 | CURVE DATA PGL_LT_14 PI STA. = 208+89.07 Δ = 2° 05' 38" (RT) D = 4° 26' 13" T = 23.60 L = 47.19 R = 1,291.30 PC STA. = 208+65.47 PT STA. = 209+12.66 | CURVE DATA BL_PINETREE_5 PI STA. = 42+93.44 Δ = 15° 55' 03" (RT) D = 4° 18' 00" T = 186.29 L = 370.18 R = 1,332.50 PC STA. = 41+07.15 PT STA. = 44+77.33 | CURVE DATA PGL_RT_7 PI STA. = 104+90.71 Δ = 30° 58' 52" (LT) D = 38° 30' 39" T = 41.23 L = 80.45 R = 148.78 PC STA. = 104+49.48 PT STA. = 105+29.93 | CURVE DATA PGL_RT_12 PI STA. = 107+67.06 Δ = 7° 17' 36" (RT) D = 3° 49' 39" T = 95.41 L = 190.56 R = 1,497.00 PC STA. = 106+71.65 PT STA. = 108+62.21 | | | |

LEGEND
 (XX) PLAN SHEET REFERENCE NUMBER

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

Kimley Horn
 Registry 696
 Leonte I. Almonte, P.E.
 P.E. License No. 70822
 355 Alhambra Circle - Suite 1400
 Coral Gables, Florida 33134

MIAMIBEACH
 COUNTY PROJECT
 MIAMI-DADE PINE TREE DRIVE & 46TH STREET

PROJECT LAYOUT

SHEET NO.
 9

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

GENERAL NOTES

1. 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. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
2. 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.
3. THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON AVAILABLE INFORMATION PROVIDED BY UTILITY OWNERS AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE CONTRACTOR. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ANY REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITIES TWO (2) FULL WORKING DAYS IN ADVANCE BEFORE PERFORMING ANY DIGGING OR OTHER EXCAVATION WORK. KNOWN UTILITY COMPANIES INCLUDE, BUT ARE NOT LIMITED TO:

| | | |
|---|---|--|
| ATLANTIC BROADBAND AT&T DISTRIBUTION CITY OF MIAMI BEACH COMCAST CROWN CASTLE DADE COUNTY PUBLIC WORKS & TRAFFIC FPL - DISTRIBUTION FPL - TRANSMISSION FPL- SUB HOTWIRE TECO PEOPLE GAS | PETE FREYTAG DINO FARRUGGIO WILSON SUAREZ RICARDO DAVIDSON FIBERDIG TEAM OCTAVIO VIDAL EDGAR AGUILAR EDDIE FREAY JOEL BRAY WALTER DAVILA JOAN DOMNING | 305-861-8069 Ext: 5208 561-683-2729 305-673-7080 786-586-5805 888-632-0931 Ext: 2 305-412-0891 Ext: 102 386-586-6403 305-938-1936 386-586-6403 954-699-0900 813-275-3783 |
|---|---|--|
5. IF THE CONTRACTOR IS REQUIRED TO SUPPORT EXISTING UTILITIES, ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE FINAL QUALITY OF ALL TRENCHING AND EXCAVATION RESTORATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL SIDEWALK, SOD, AND LANDSCAPING RESTORATION DISTURBED/DAMAGED BY THE CONSTRUCTION.
7. THE CONTRACTOR SHALL USE CAUTION WHEN WORKING IN OR AROUND AREAS WITH OVERHEAD TRANSMISSION LINES, AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL HAND EXCAVATE IN THE VICINITY OF UNDERGROUND UTILITIES. THE HAND EXCAVATING PAYMENT SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
8. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF THE SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE INCLUDING ADJACENT UTILITIES, OR FILLING OF ANY AREA OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
10. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED HAVE TO BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE CITY OF MIAMI BEACH A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. ALL N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYOR SHALL NOT BE REQUIRED TO RESTORE THE N.G.V.D. BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE CITY OF MIAMI BEACH, WHO WILL NOTIFY THE GEODETIC INFORMATION CENTER. THE CONTRACTOR SHALL INCLUDE ALL COSTS OF REFERENCING AND RESTORATION IN THE PRICE BID FOR ITEM MOBILIZATION.
11. THE CONTRACTOR SHALL PROVIDE ACCESS AND ASSISTANCE TO THE CITY ENGINEER OR HIS DESIGNEE TO MAKE INSPECTIONS, AS NECESSARY, DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL CHECK THAT DROP-OFF HAZARDS ARE NOT CREATED FROM GRADING. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.



13. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE APPLICABLE GUIDELINES SET FORTH IN THE LATEST FDOT STANDARD PLANS INDEXES, AND SECTION 102 OF THE FDOT STANDARD SPECIFICATIONS. THE COST FOR MAINTENANCE OF TRAFFIC SHALL BE INCLUDED IN THE PAY ITEM MAINTENANCE OF TRAFFIC COST AND IT INCLUDES, BUT IS NOT LIMITED TO FURNISH AND INSTALL HIGH INTENSITY FLASHING LIGHTS, TEMPORARY REFLECTIVE MARKERS, PAINTED PAVEMENT MARKINGS, SIGNING, IMPACT ATTENUATOR MODULES, TEMPORARY BARRIER WALLS, BARRICADES, TEMPORARY STREET LIGHTING, TEMPORARY SIGNALIZATION, TEMPORARY PAVEMENT, TEMPORARY SODDING, MOWING, TRAFFIC CONTROL OFFICER, PORTABLE CHANGEABLE MESSAGE SIGNS, FLASHING ARROW BOARDS, CONNECTIONS AND ACCESS TO DRIVEWAYS AND BUSINESSES, ALL NECESSARY DETOURS AND ENGINEER'S FEES FOR THE PREPARATION OF THE MAINTENANCE OF TRAFFIC PLANS.
14. 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 IMMEDIATELY AND PRIOR TO FURTHER WORK ACTIVITY.
15. DURING NON-WORKING HOURS, NO EQUIPMENT, VEHICLES OR MATERIAL SHALL BE PARKED WITHIN THE 6 FOOT LATERAL OFFSET OF THE ROADWAY CARRYING TRAFFIC. IF THE ABOVE IS NOT POSSIBLE (AS DETERMINED BY THE ENGINEER), A STORAGE AREA WITH PROPER DELINEATION AND ADVANCED WARNING SHALL BE USED WITH THE APPROVAL OF THE ENGINEER.
16. ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
17. ALL MATERIALS AND CONSTRUCTION UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT.
18. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF ANY DISCREPANCY OR VARIATION FROM THE APPROVED DRAWINGS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE, OR DESTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING NECESSARY MEASURES TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
20. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON SITE. THE PLANS ARE TO BE MADE AVAILABLE TO THE ENGINEERING INSPECTOR OF THE CITY OF MIAMI BEACH OR HIS DESIGNEE UPON REQUEST.
21. NO DEVIATION FROM APPROVED PLANS SHALL BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE CITY ENGINEER OR HIS DESIGNEE.
22. CONTRACTOR MUST CALL CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT TO OBTAIN A RIGHT OF WAY PERMIT AND ARRANGE A PRE-CONSTRUCTION MEETING 48 HOURS PRIOR TO START OF CONSTRUCTION WITH THE TRANSPORTATION DEPARTMENT.
23. ENGINEERING PERSONNEL WILL INSPECT ALL FACILITIES APPROVED BY THEIR OFFICE. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCIES SHALL BE IN ACCORDANCE WITH THEIR STANDARDS.
24. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACTED BACKFILL BE PLACED ALONGSIDE OF AND OVER ALL UTILITIES. THE CITY ENGINEER REQUIRES THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TEST WILL BE BORNE BY THE CITY. THE RETESTING COST, DUE TO FAILURE OF THE COMPACTION TEST, WILL BE PAID BY THE CONTRACTOR.
25. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED BY THE CITY OF MIAMI BEACH, PUBLIC WORKS DEPARTMENT:
 - A. CONTRACTOR'S, SUBCONTRACTOR'S AND SUPPLIER'S WAIVER AND RELEASE OF LIEN.
 - B. CONTRACTOR'S LETTER OF WARRANTY (I.E. LETTER OF AGREEMENT).
 - C. "AS-BUILTS" - SUBMITTAL OF (2) PAPER COPIES 22"x34" OR 11"x17" (WHICH EVER IS LEGIBLE AT 1"=20' & 1"=40' SCALE AS REFERENCED IN THE PLAN SHEETS) OF THE SURVEY WITH ORIGINAL SIGNATURE AND SEAL OF THE SURVEYOR, PDF FILE OF THE AUTOCAD HARD COPY, AND A DIGITAL COPY INCLUDING SURVEY POINT FILE IN ASCII TEXT FORMAT, & AUTOCAD.DWG FORMAT (UTILIZING AUTOCAD ETRANSMIT COMMAND.) RELATIVE TO THE HORIZONTAL AND VERTICAL DATUM USED IN THE DESIGN OF THE PROJECT.
26. THE PLANS ARE PREPARED FROM THE UTILITY INFORMATION AVAILABLE. THE DESIGNER IS NOT LIABLE FOR ANY UTILITY CONFLICTS AND UNKNOWNS THAT ARE DISCOVERED DURING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITIES. IN CASE THAT A CONFLICT ARISES, THE ENGINEER OF RECORD OR HIS DESIGNEE SHALL BE INFORMED TO MAKE THE APPROPRIATE DESIGN CHANGES.

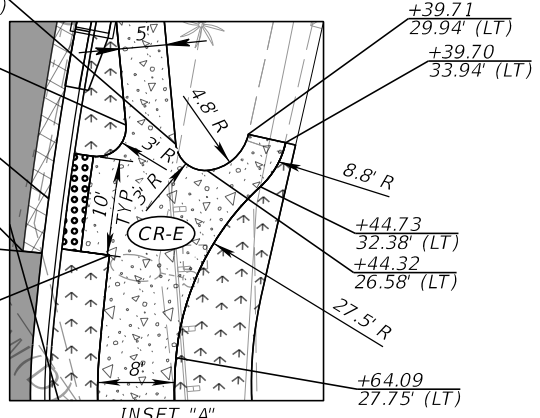
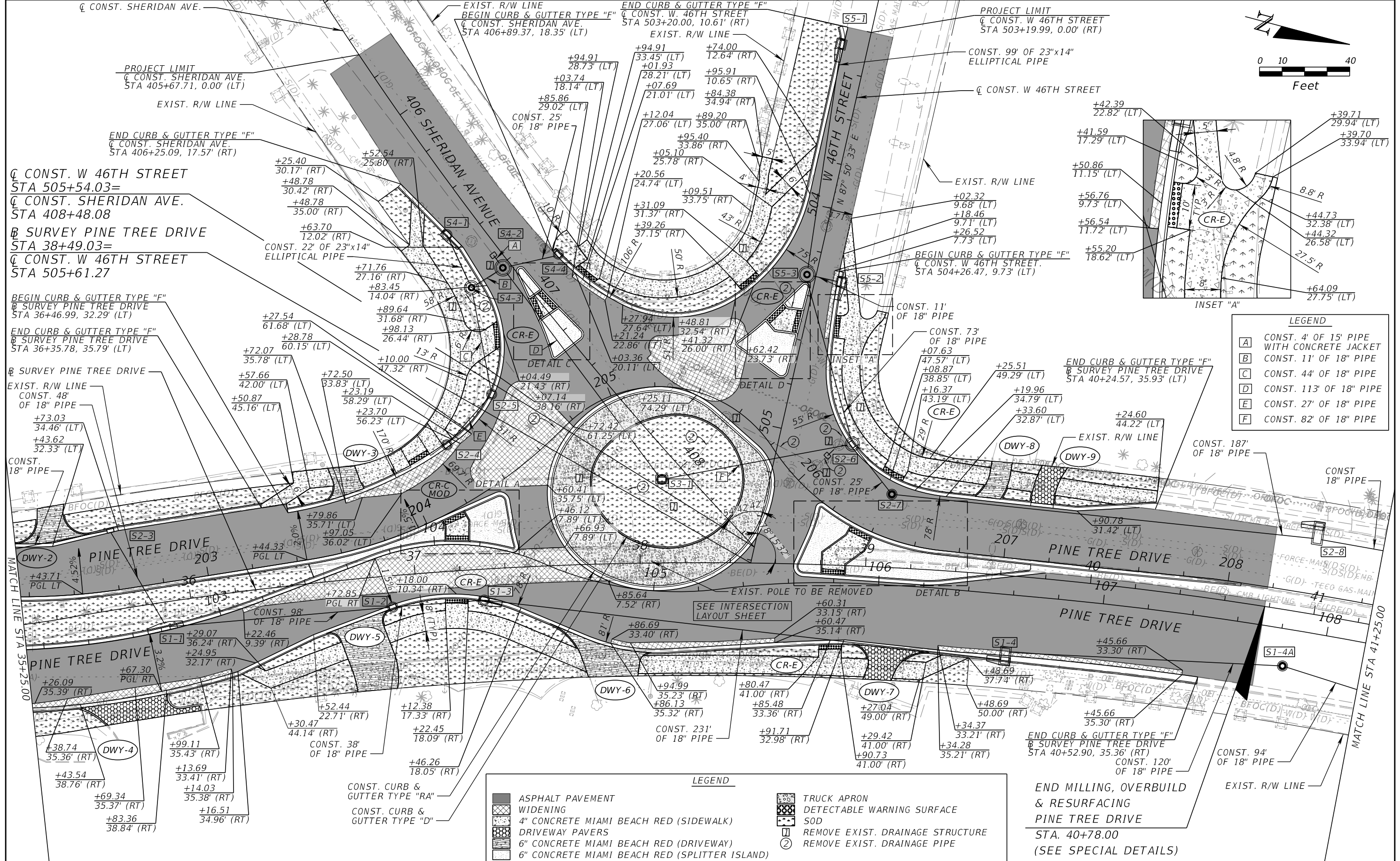
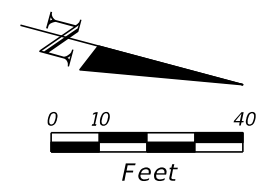
27. WHEN POWER POLES ARE ADJACENT TO ANY PROPOSED UTILITY/DRAINAGE, THE CONTRACTOR SHALL PROVIDE PROPER SHORING OR OTHER SUITABLE SUPPORT DURING CONSTRUCTION. THE SHORING AND SUPPORT METHODS SHALL BE APPROVED BY THE UTILITY COMPANY ENGINEERING DEPARTMENT.
28. ALL DEFECTIVE WORK NOT ACCEPTED BY THE CITY ENGINEER OR HIS DESIGNEE, OR BY ANY GOVERNMENT PERMITTING AGENCY SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
29. CONTRACTOR SHALL CONTACT PUBLIC WORKS DEPARTMENT (PWD) TO INSPECT METERS AND BOXES AHEAD OF CONSTRUCTION TO DETERMINE WHETHER REPLACEMENT IS NECESSARY.
30. ALL WATER METER BOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH CITY ISSUED WATER METER BOXES AND PAID FOR BY CONTRACTOR.
31. INVERTS AND UTILITIES ARE TO THE BEST INFORMATION AVAILABLE. CONTRACTOR SHALL FIELD VERIFY THIS INFORMATION BY PRE-TRENCHING THE LOCATIONS OF ALL PROPOSED DRAINAGE STRUCTURES PRIOR TO SUBMITTING SHOP DRAWINGS. COST TO BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.
32. CONTRACTOR SHALL EXERCISE CARE WHEN WORKING NEAR EXISTING CLAY PIPING, EVEN IF NOT LABELED AS SUCH IN THE PLANS.
33. NPDES BEST MANAGEMENT PRACTICES FOR SEDIMENTATION AND EROSION WORK MUST BE STRICTLY FOLLOWED DURING AND AFTER CONSTRUCTION.
34. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES IN THE PROJECT AREA BEFORE THE START OF CONSTRUCTION. SEE THE UTILITY CONTACT INFORMATION FOR CONTACT NUMBERS.
35. ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY DISPOSED OF OFFSITE AT THE CONTRACTOR'S EXPENSE.
36. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS LINES.
37. ALL EXISTING UTILITIES, MANHOLE COVERS, ELECTRICAL BOXES, VALVE BOXES, METER BOXES, DRAINAGE STRUCTURES, ETC. WITHIN PROPOSED AREAS OF IMPROVEMENTS SHALL BE ADJUSTED TO GRADE ELEVATION, UNLESS OTHERWISE NOTED. COST TO BE INCLUDED IN THE CONTRACTOR'S BID.
38. CONTRACTOR SHALL REPLACE ALL UTILITY BOXES/COVERS DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOTE THE CONDITION OF WATER METER BOXES BEFORE STARTING WORK. IF EXISTING WATER METER BOXES ARE DAMAGED, CONTACT THE CITY OF MIAMI BEACH FOR REPLACEMENT.
39. CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
40. THE COLOR OF THE DETECTABLE WARNINGS ON CONCRETE OF COLORS OTHER THAN MIAMI BEACH RED, COORDINATE WITH THE PUBLIC WORKS DEPARTMENT FOR APPROPRIATE COLOR AND CONTRAST.
41. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE LANDSCAPING, ITS LIGHTING AND HARDSCAPING RESULTING FROM CONSTRUCTION.
42. CONTRACTOR / OWNER SHALL BE RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL SHRUBS WITHIN SIGHT VISIBILITY TRIANGLES TO 30" ABOVE THE EDGE OF PAVEMENT.
43. TREE IMPACTS ASSOCIATED WITH THIS PROJECT SHALL BE RESTRICTED TO ROOT PRUNING AND TRIMMING FOR THE CONSTRUCTION OF CURB AND GUTTER, SIDEWALKS, RAMPS, AND DRAINAGE IMPROVEMENTS. ALL TREES WITHIN THE PROJECT LIMITS ARE TO REMAIN UNLESS CALLED OUT OTHERWISE ON THE PLANS, AND SHALL BE PROTECTED FROM CONSTRUCTION IMPACTS. COST TO PROVIDE A CERTIFIED ARBORIST TO PROVIDE PROPER ROOT PRUNING AND TRIMMING METHODS, AND THE COST OF PERFORMING THE TREE TRIMMING AND ROOT PRUNING, TO BE INCLUDED IN THE RELATED BID ITEM.
44. A CERTIFIED ARBORIST MUST ALSO REVIEW THE PLANS DURING THE BID PROCESS TO DETERMINE IF ANY TREES/PALMS ARE REQUIRED TO BE REMOVED DUE TO TREE OR ROOT PRUNING FROM CONSTRUCTION ACTIVITIES.
45. PROTECT MATERIALS AND EQUIPMENT ON SITE FROM WEATHER, DUST, AND DEBRIS AT ALL TIMES, AND AVOID THE CREATION OF NUISANCE OR HAZARD IN THE SURROUNDING AREA.
46. WHERE PAVEMENT DEMOLITION IS REQUIRED, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PROTECT AND PREVENT DAMAGE TO ADJACENT STRUCTURES AND PAVEMENTS TO REMAIN. LIMITS OF PAVEMENT DEMOLITION SHALL BE PERFORMED IN A NEAT, STRAIGHT LINE BY SAWCUTTING.

| REVISIONS | | | | Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 | COUNTY PROJECT MIAMI-DADE PINE TREE DRIVE & 46TH STREET | | SHEET NO. |
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| DATE | DESCRIPTION | DATE | DESCRIPTION | | GENERAL NOTES | | 10 |
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23-.004, F.A.C.

- 47. ADJUSTMENT AND CLEANING: CLEAN DEBRIS FROM AREAS OF DEMOLITION LEAVING AREA SUITABLE FOR WORK.
- 48. FALL MATERIALS RESULTING FROM DEMOLITION WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE FROM SITE AND DISPOSE OF THESE MATERIALS IN A MANNER AND LOCATION APPROVED BY MIAMI-DADE COUNTY REGULATIONS.
- 49. ALL PROPOSED SIDEWALK SHALL BE CITY OF MIAMI BEACH RED.
- 50. ALL TREES WITHIN PEDESTRIAN AND BIKE PATHS TO BE TRIMMED BY CONTRACTOR TO PROVIDE A MINIMUM 4' CLEAR WIDTH AND MINIMUM 8' VERTICAL CLEARANCE. COST TO BE INCLUDED IN THE CONTRACTOR'S BID
- 51. PERFORM EXPLORATORY EXCAVATION IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES, STRUCTURES, FRENCH DRAINS, SLAB COVERED TRENCHES, CONDUITS, POLE FOUNDATION AND/OR SUBGRADE SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION. PROVIDE UNDERGROUND UTILITY OWNERS AND THE CITY OF MIAMI BEACH WITH A SEVEN DAYS ADVANCE NOTICE OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR PRE-TRENCHING, SURVEY, AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE PROPOSED INSTALLATION.
- 53. THE CONTRACTOR SHOULD PERFORM ALL NECESSARY CHECKS TO SEE IF DEWATERING WITHIN THE PROJECT LIMITS WILL BE NECESSARY. IF DEWATERING IS DEEMED NECESSARY, ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
- 54. DUE TO SOIL CONDITIONS, HIGH WATER TABLE AND PROTECTION OF ROADWAY, UTILITIES AND EXISTING LANDSCAPING, SHORING WILL BE REQUIRED FOR TRENCH AND STRUCTURE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF CONSTRUCTION TO THE ENGINEER FOR APPROVAL AT THE PRECONSTRUCTION MEETING. THE COST OF SHORING WILL BE INCLUDED IN THE COSTS OF THE STRUCTURES AND PIPES. DEWATERING MAY BE REQUIRED AND SHALL BE INCLUDED IN THE COSTS OF STRUCTURES AND PIPES.
- 55. ALL PROPOSED WATER METERS SHOULD BE A MINIMUM OF 2-INCH SERVICE.
- 56. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACTUAL NUMBER OF EXISTING WATER SERVICES TO BE CONNECTED TO THE PROPOSED WATER MAIN.
- 57. MAXIMUM SIDE SLOPES TO BE USED FOR TEMPORARY EXCAVATION ARE 1V:2H (MINIMUM FACTOR OF SAFETY: 1.3). IF STEEPER SIDE SLOPES ARE REQUIRED, TEMPORARY GROUND SUPPORT SYSTEMS SHOULD BE DETERMINED AND IMPLEMENTED BY THE CONTRACTOR DURING EXCAVATION.

| REVISIONS | | | |  Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 |  | | GENERAL NOTES | SHEET NO. |
|-----------|-------------|------|-------------|---|---|---------|----------------------|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | COUNTY | PROJECT | | 11 |
| | | | | MIAMI-DADE | PINE TREE DRIVE & 46TH STREET | | | |



LEGEND

| | |
|---|--|
| A | CONST. 4' OF 15' PIPE WITH CONCRETE JACKET |
| B | CONST. 11' OF 18" PIPE |
| C | CONST. 44' OF 18" PIPE |
| D | CONST. 113' OF 18" PIPE |
| E | CONST. 27' OF 18" PIPE |
| F | CONST. 82' OF 18" PIPE |

LEGEND

| | | | |
|--|----------------------------------|--|-----------------------------|
| | ASPHALT PAVEMENT | | TRUCK APRON |
| | WIDENING | | DETECTABLE WARNING SURFACE |
| | | | |
| | | | |
| | REMOVE EXIST. DRAINAGE STRUCTURE | | REMOVE EXIST. DRAINAGE PIPE |

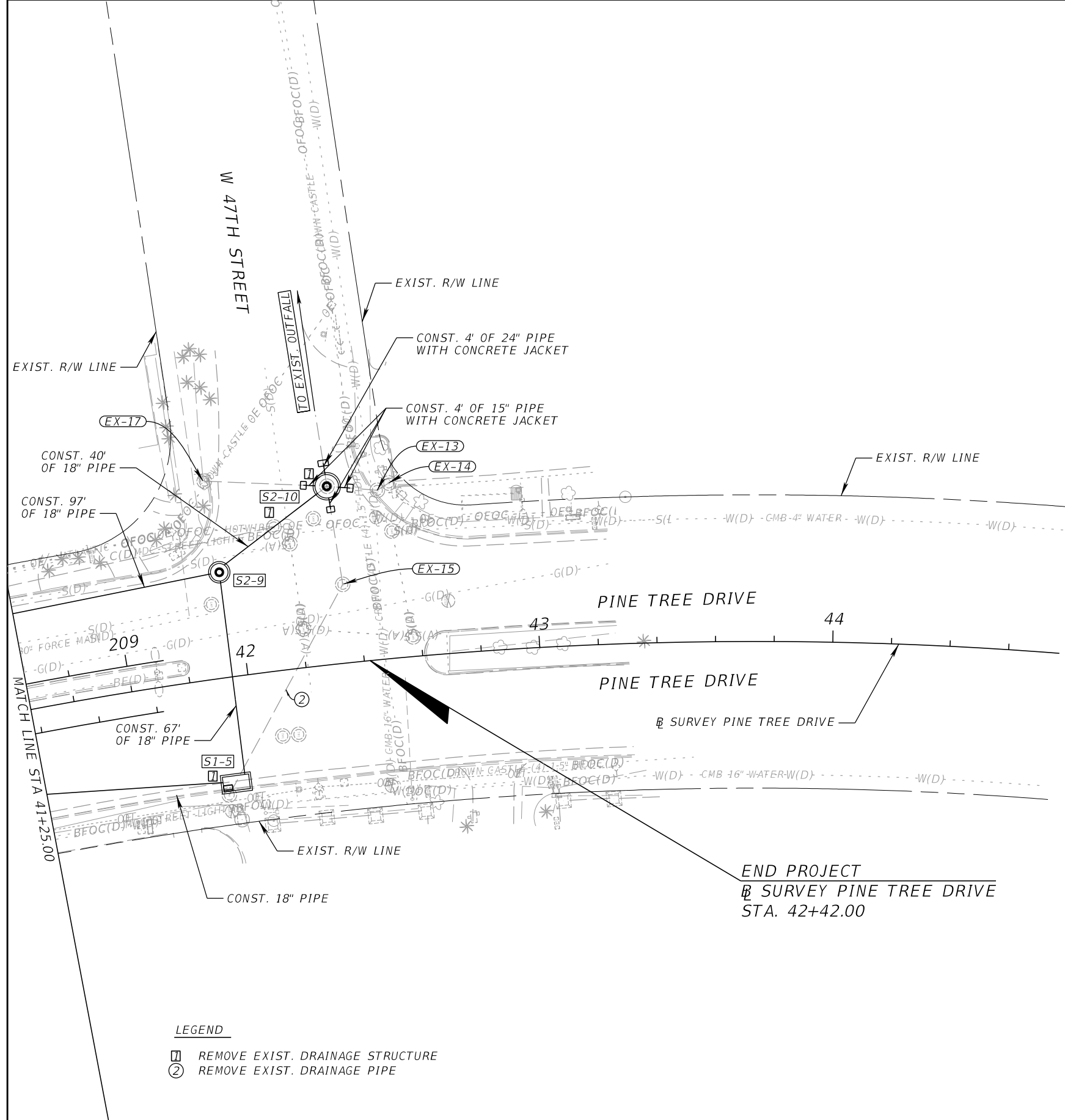
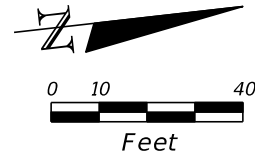
| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

Kimley»Horn
 Registry 696
 Leonte I. Almonte, P.E.
 P.E. License No. 70822
 355 Alhambra Circle - Suite 1400
 Coral Gables, Florida 33134

MIAMI BEACH
 COUNTY: MIAMI-DADE
 PROJECT: PINE TREE DRIVE & 46TH STREET

ROADWAY PLAN
 END MILLING, OVERBUILD & RESURFACING PINE TREE DRIVE STA. 40+78.00 (SEE SPECIAL DETAILS)

| | |
|-----------|----|
| SHEET NO. | 13 |
|-----------|----|



- LEGEND**
- ① REMOVE EXIST. DRAINAGE STRUCTURE
 - ② REMOVE EXIST. DRAINAGE PIPE

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

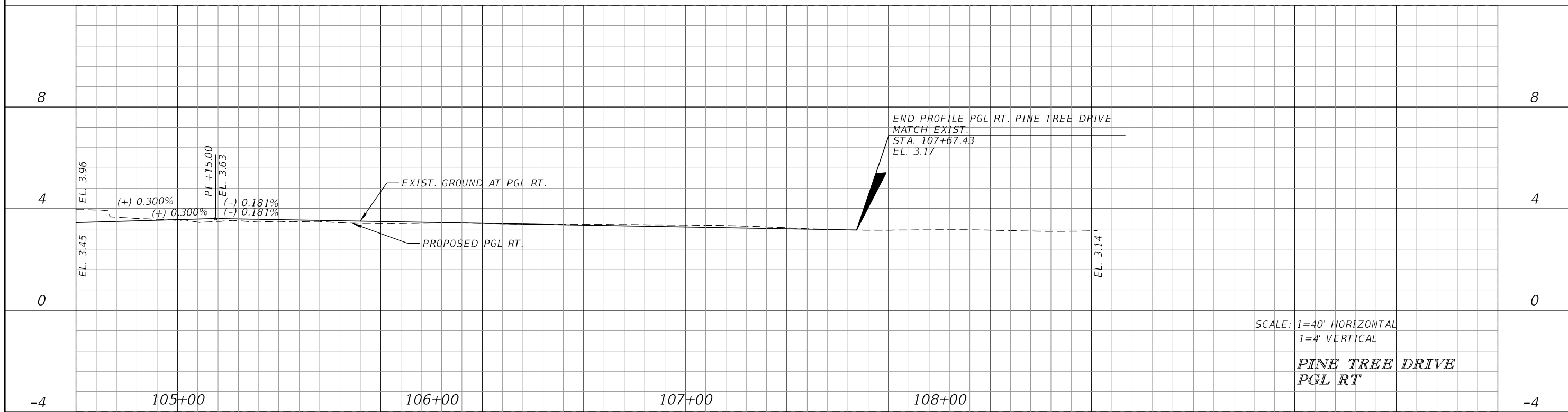
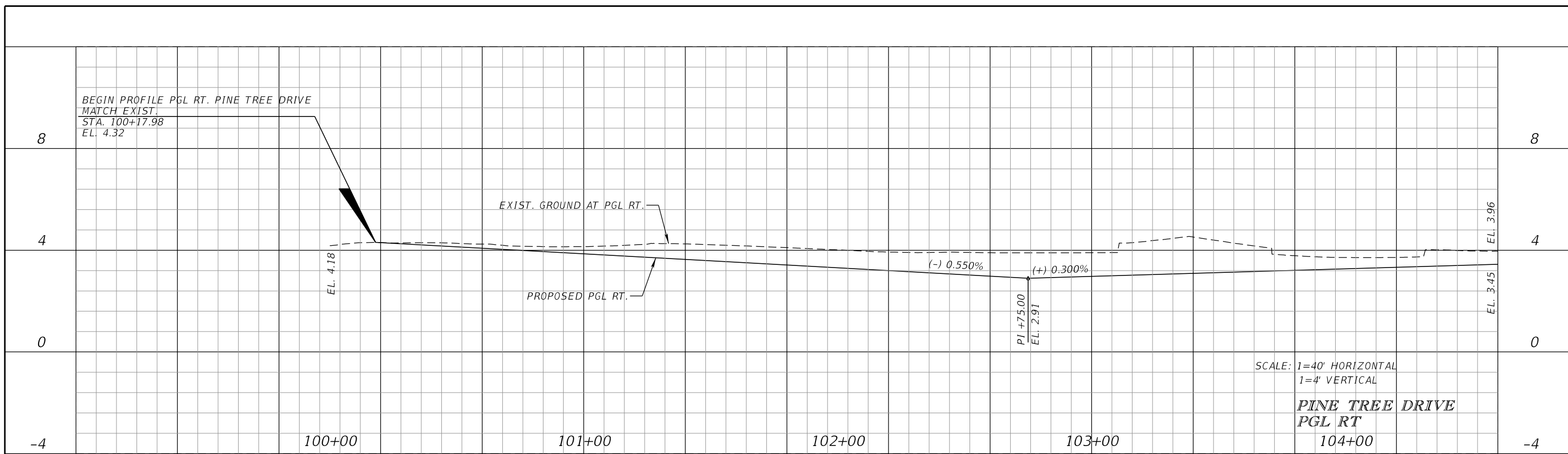
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 P.E. License No. 70822
 355 Alhambra Circle - Suite 1400
 Coral Gables, Florida 33134

| | |
|--------------------|-------------------------------|
| MIAMI BEACH | |
| COUNTY | PROJECT |
| MIAMI-DADE | PINE TREE DRIVE & 46TH STREET |

ROADWAY PLAN

SHEET NO.
14

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



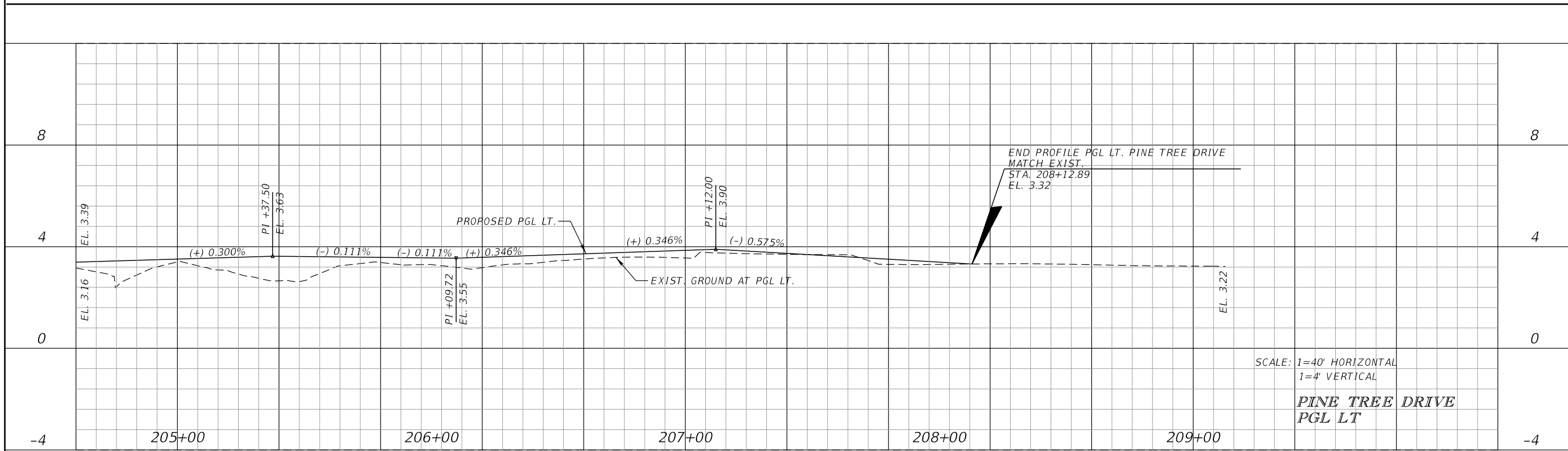
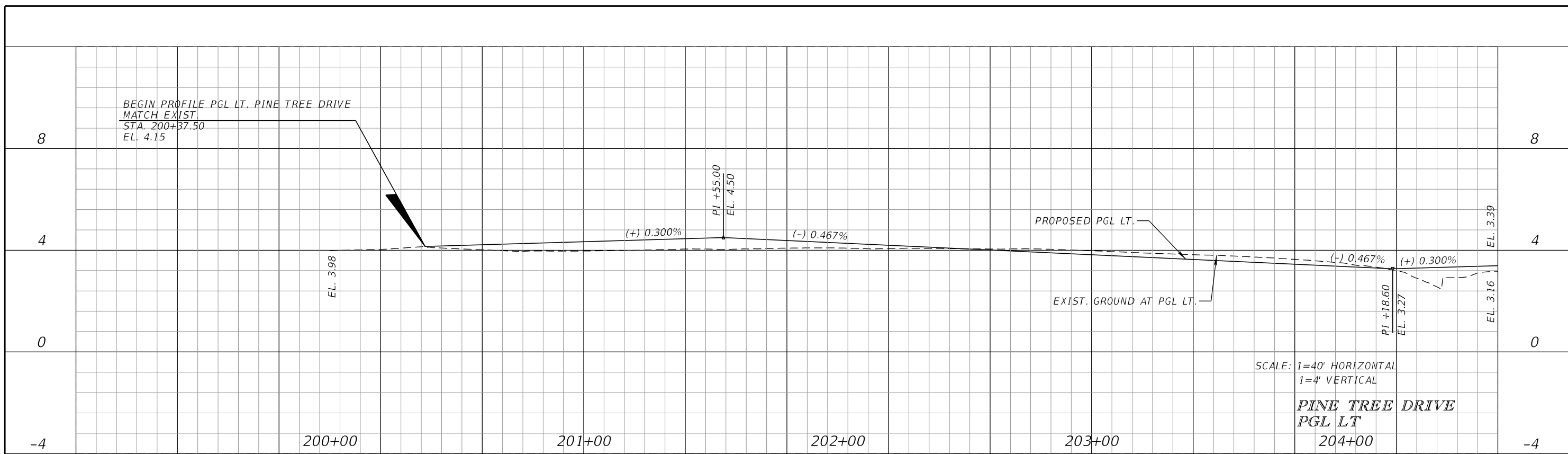
| REVISIONS | | | |
|-----------|-------------|------|-------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION |
| | | | |

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MIAMI BEACH
COUNTY: MIAMI-DADE
PROJECT: PINE TREE DRIVE & 46TH STREET

PROFILE

SHEET NO.
15



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

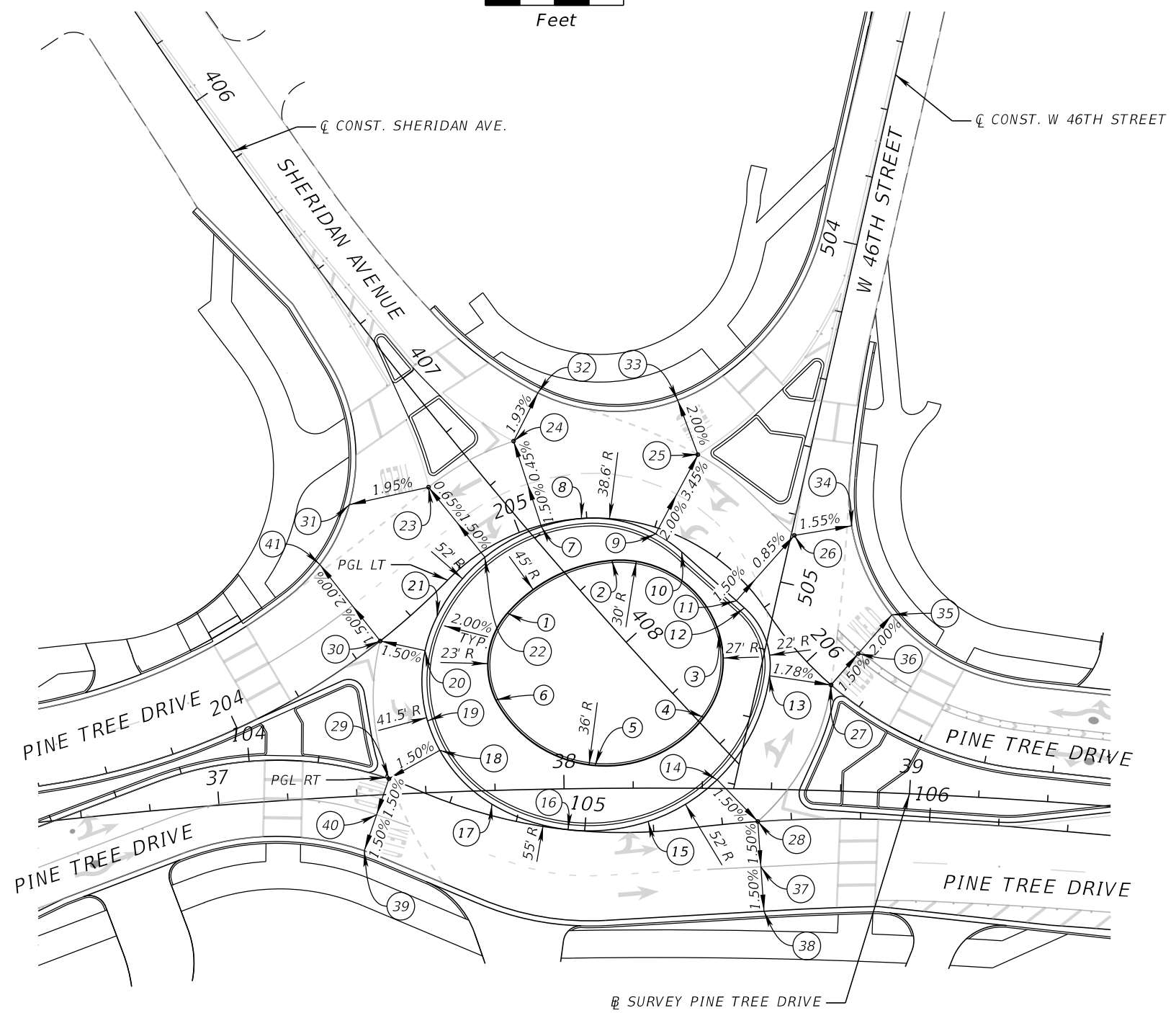
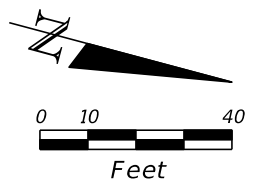
Kimley»Horn
Registry 696
Leonte I. Almonte, P.E.
P.E. License No. 70822
355 Alhambra Circle - Suite 1400
Coral Gables, Florida 33134

MIAMI BEACH
COUNTY
PROJECT
**PINE TREE DRIVE
& 46TH STREET**

PROFILE

SHEET NO.
16

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



| ROUNDBOUT POINT DATA TABLE | | | | |
|----------------------------|-----------|----------|---------------|-----------|
| ID | STATION | OFFSET | BASELINE | ELEVATION |
| 1 | 407+71.06 | 20.21 RT | SHERIDAN AVE. | 4.01 |
| 3 | 407+79.45 | 12.63 LT | SHERIDAN AVE. | 4.03 |
| 5 | 408+16.12 | 21.77 LT | SHERIDAN AVE. | 4.06 |
| 7 | 408+31.29 | 1.89 LT | SHERIDAN AVE. | 4.32 |
| 8 | 38+08.99 | 6.57 LT | PINE TREE DR. | 4.17 |
| 9 | 37+80.86 | 26.14 LT | PINE TREE DR. | 4.24 |
| 11 | 407+58.66 | 3.60 LT | SHERIDAN AVE. | 3.55 |
| 12 | 407+64.46 | 13.91 LT | SHERIDAN AVE. | 3.57 |
| 14 | 407+82.13 | 27.22 LT | SHERIDAN AVE. | 3.65 |
| 15 | 504+97.86 | 29.85 RT | W 46TH STREET | 3.66 |
| 17 | 505+08.12 | 11.25 RT | W 46TH STREET | 3.66 |
| 18 | 505+09.64 | 8.48 RT | W 46TH STREET | 3.65 |
| 19 | 505+27.16 | 2.94 LT | W 46TH STREET | 3.87 |
| 21 | 38+44.26 | 2.51 LT | PINE TREE DR. | 3.81 |
| 22 | 38+24.28 | 9.67 RT | PINE TREE DR. | 3.66 |
| 23 | 38+00.95 | 11.84 RT | PINE TREE DR. | 3.57 |
| 24 | 37+78.97 | 3.92 RT | PINE TREE DR. | 3.55 |
| 25 | 37+64.49 | 12.10 LT | PINE TREE DR. | 3.65 |
| 26 | 37+61.31 | 20.74 LT | PINE TREE DR. | 3.63 |
| 27 | 37+61.39 | 41.08 LT | PINE TREE DR. | 3.56 |
| 28 | 407+58.75 | 36.18 RT | SHERIDAN AVE. | 2.84 |
| 29 | 407+54.78 | 14.59 RT | SHERIDAN AVE. | 3.50 |
| 30 | 407+29.01 | 14.05 RT | SHERIDAN AVE. | 3.23 |
| 31 | 407+34.45 | 13.38 LT | SHERIDAN AVE. | 3.30 |
| 32 | 504+69.36 | 31.42 RT | W 46TH STREET | 2.95 |
| 33 | 504+85.99 | 0.94 LT | W 46TH STREET | 3.40 |
| 34 | 38+76.32 | 30.57 LT | PINE TREE DR. | 3.55 |
| 35 | 38+56.23 | 9.41 RT | PINE TREE DR. | 3.56 |
| 36 | 37+49.46 | 4.55 LT | PINE TREE DR. | 3.40 |
| 37 | 37+48.88 | 44.44 LT | PINE TREE DR. | 3.36 |
| 38 | 407+13.68 | 28.98 RT | SHERIDAN AVE. | 2.81 |
| 39 | 407+28.09 | 27.70 LT | SHERIDAN AVE. | 3.00 |
| 40 | 504+55.36 | 40.58 RT | W 46TH STREET | 2.62 |
| 41 | 504+79.02 | 16.27 LT | W 46TH STREET | 3.15 |
| 42 | 38+94.84 | 49.20 LT | PINE TREE DR. | 3.08 |
| 43 | 38+85.50 | 39.72 LT | PINE TREE DR. | 3.35 |
| 44 | 38+57.39 | 22.47 RT | PINE TREE DR. | 3.36 |
| 45 | 38+58.53 | 35.30 RT | PINE TREE DR. | 3.16 |
| 46 | 37+41.30 | 15.89 RT | PINE TREE DR. | 3.07 |
| 47 | 37+45.41 | 5.68 RT | PINE TREE DR. | 3.24 |
| 49 | 37+30.10 | 64.10 LT | PINE TREE DR. | 2.87 |

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

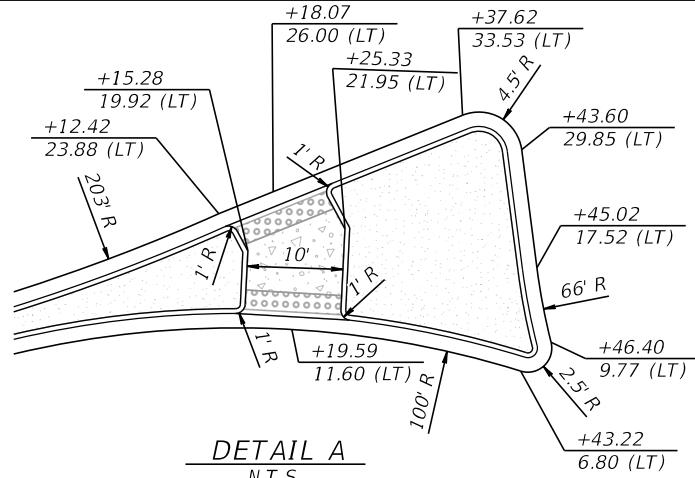
Kimley»Horn
 Registry 696
 Leonte I. Almonte, P.E.
 P.E. License No. 70822
 355 Alhambra Circle - Suite 1400
 Coral Gables, Florida 33134

MIAMI BEACH
 COUNTY: MIAMI-DADE
 PROJECT: PINE TREE DRIVE & 46TH STREET

INTERSECTION LAYOUT

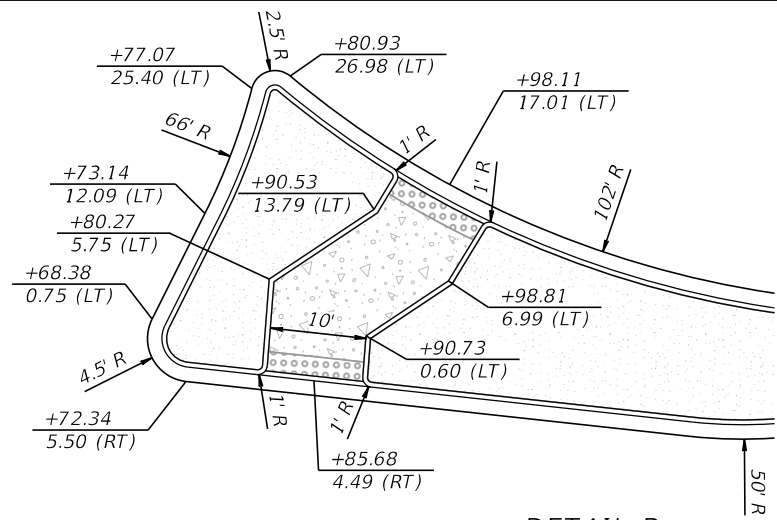
SHEET NO.
 17

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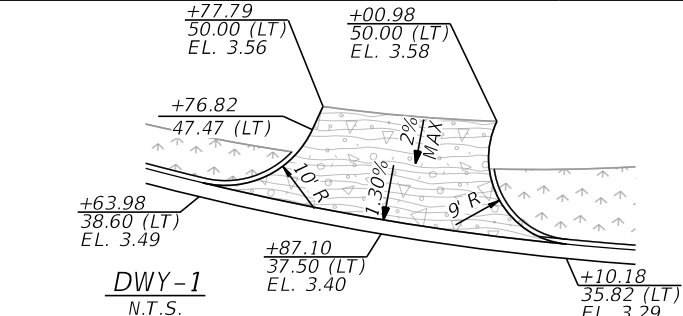
DETAIL A
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



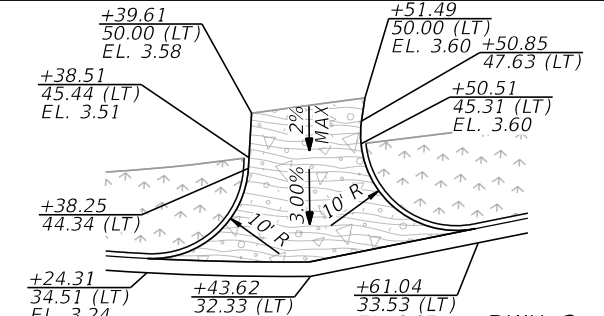
DETAIL B
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



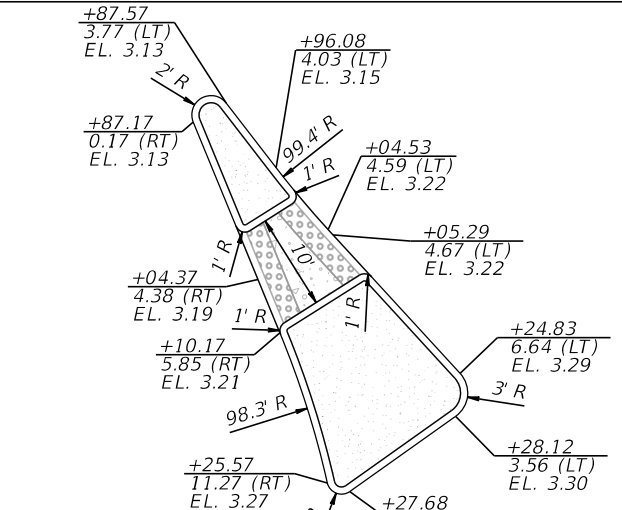
DWY-1
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



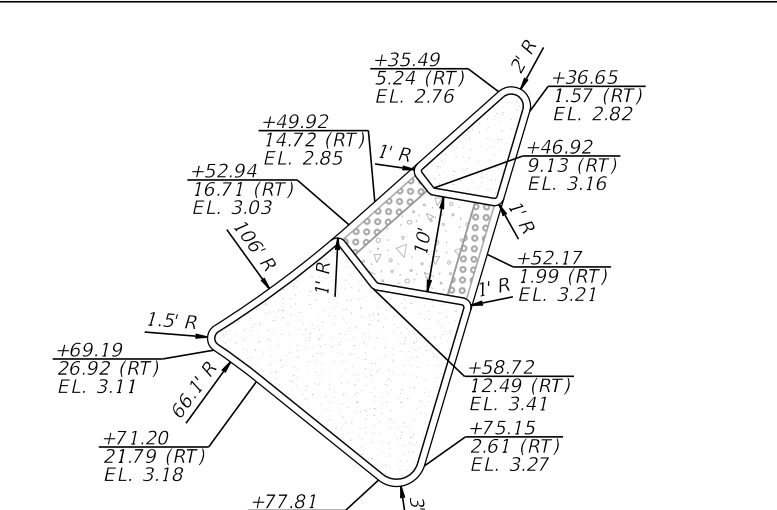
DWY-2
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



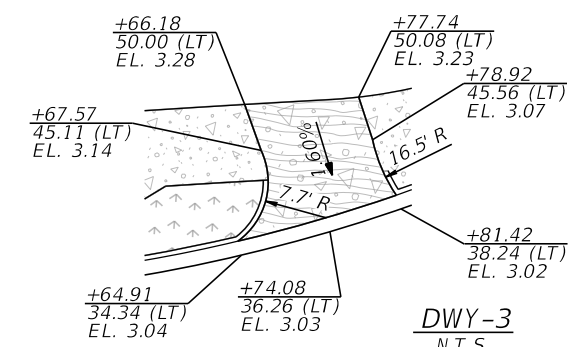
DETAIL C
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{C} CONST. SHERIDAN AVE.



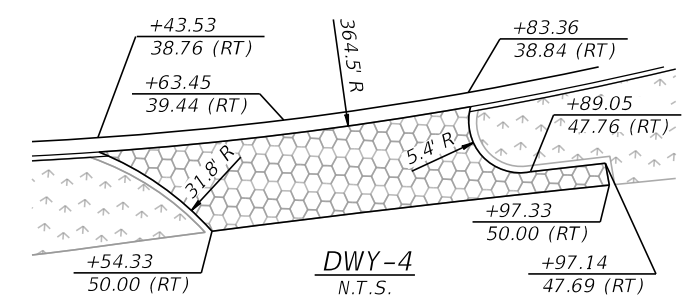
DETAIL D
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{C} CONST. W 46TH STREET.



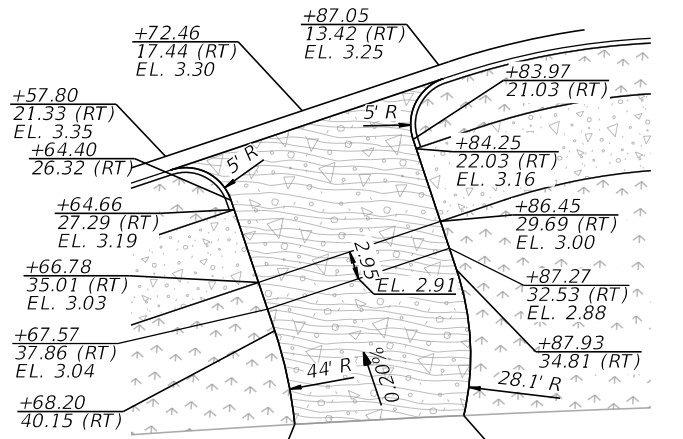
DWY-3
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



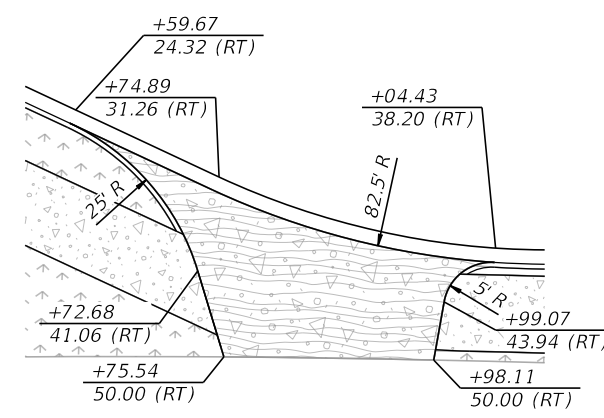
DWY-4
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



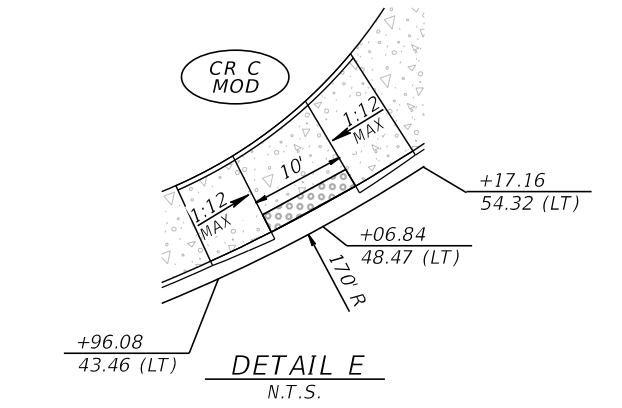
DWY-5
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



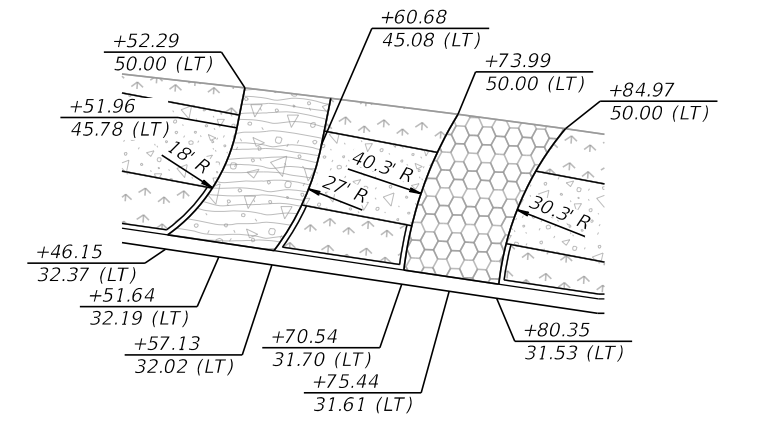
DWY-6
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



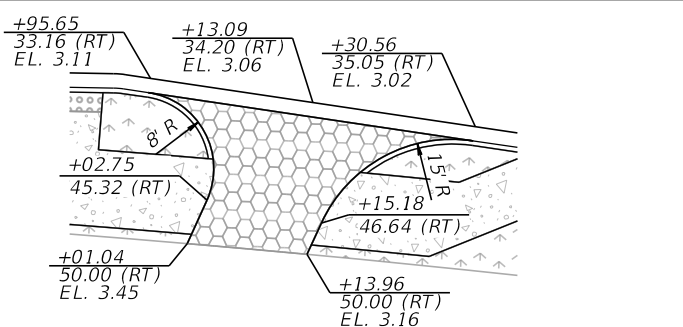
DETAIL E
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



DWY-8 & 9
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.



DWY-7
N.T.S.

NOTE: PARTIAL STATIONS AND OFFSETS BASED ON \mathcal{B} SURVEY PINE TREE DR.

NOTE TO REVIEWER
HARMONIZATION REQUIREMENTS TO BE INCLUDED IN THE SUBMITTAL TO MIAMI-DADE COUNTY.

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

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 Registry 696
 Leonte I. Almonte, P.E.
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 Coral Gables, Florida 33134

MIAMIBEACH
 COUNTY: MIAMI-DADE
 PROJECT: PINE TREE DRIVE & 46TH STREET

SPECIAL DETAILS

SHEET NO.
18

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

BEGIN MILLING, OVERBUILD
& RESURFACING
(CONNECT TO EXISTING)
SHERIDAN AVENUE
STA. 405+67.71

BEGIN MILLING, OVERBUILD
& RESURFACING
(CONNECT TO EXISTING)
SHERIDAN AVENUE
STA. 503+19.99

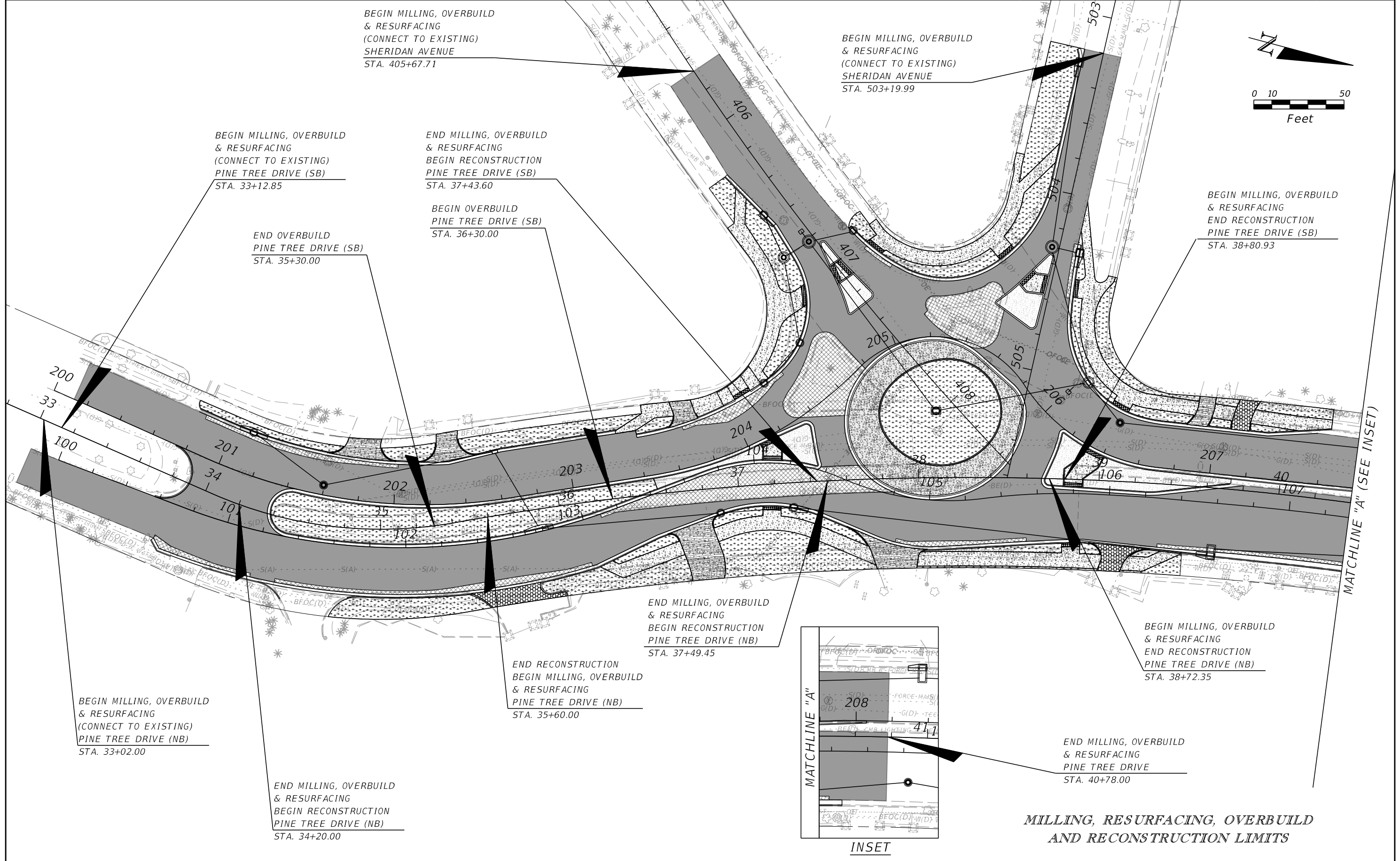
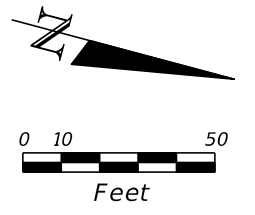
BEGIN MILLING, OVERBUILD
& RESURFACING
(CONNECT TO EXISTING)
PINE TREE DRIVE (SB)
STA. 33+12.85

END MILLING, OVERBUILD
& RESURFACING
BEGIN RECONSTRUCTION
PINE TREE DRIVE (SB)
STA. 37+43.60

END OVERBUILD
PINE TREE DRIVE (SB)
STA. 35+30.00

BEGIN OVERBUILD
PINE TREE DRIVE (SB)
STA. 36+30.00

BEGIN MILLING, OVERBUILD
& RESURFACING
END RECONSTRUCTION
PINE TREE DRIVE (SB)
STA. 38+80.93



MATCHLINE "A" (SEE INSET)

END MILLING, OVERBUILD
& RESURFACING
BEGIN RECONSTRUCTION
PINE TREE DRIVE (NB)
STA. 37+49.45

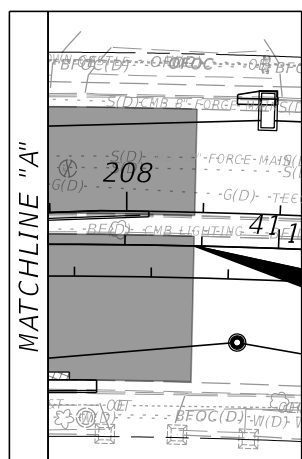
BEGIN MILLING, OVERBUILD
& RESURFACING
END RECONSTRUCTION
PINE TREE DRIVE (NB)
STA. 38+72.35

BEGIN MILLING, OVERBUILD
& RESURFACING
(CONNECT TO EXISTING)
PINE TREE DRIVE (NB)
STA. 33+02.00

END RECONSTRUCTION
BEGIN MILLING, OVERBUILD
& RESURFACING
PINE TREE DRIVE (NB)
STA. 35+60.00

END MILLING, OVERBUILD
& RESURFACING
PINE TREE DRIVE
STA. 40+78.00

END MILLING, OVERBUILD
& RESURFACING
BEGIN RECONSTRUCTION
PINE TREE DRIVE (NB)
STA. 34+20.00



INSET

**MILLING, RESURFACING, OVERBUILD
AND RECONSTRUCTION LIMITS**

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

Kimley»Horn
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MIAMIBEACH

COUNTY: MIAMI-DADE
PROJECT: PINE TREE DRIVE & 46TH STREET

SPECIAL DETAILS

SHEET NO.
19

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S1-1

STA. 35+87.00, 11.24 RT
CONST. INLET TYPE P-6
INDEX 425-010, 425-021
EOP EL 2.91
FL (-) 1.35 AH
FL (-) 1.35 LT
BOTTOM EL (-) 3.35

S2-1

STA. 34+13.00, 40.25 LT
CONST. INLET TYPE P-6 (3.5' DIA)
INDEX 425-010, 425-021
EOP EL 3.38
FL (-) 1.00 AH
BOTTOM EL (-) 3.00

S2-7

STA 39+10.00, 32.50 LT
CONST. MH TYPE P-8 (3.5' DIA)
INDEX 425-001, 425-010
RIM EL 3.34
FL (-) 2.20 AH
FL (-) 2.20 BK
BOTTOM EL (-) 4.20

S4-2

STA 406+81.55, 3.65 RT
CONST. MH TYPE J-8 (6.0' DIA)
INDEX 425-001, 425-010
RIM EL 3.06
FL (-) 1.60 AH
FL (-) 1.60 BK
FL (-) 1.05 LT
FL (-) 1.60 RT
BOTTOM EL (-) 3.60

S1-2

STA. 36+89.00, 13.93 RT
CONST. INLET TYPE P-9 (3.5' DIA)
INDEX 425-010, 425-024
EOP EL 2.87
FL (-) 1.50 BK
FL (-) 1.50 RT
BOTTOM EL (-) 3.50

S2-2

STA. 34+65.00, 22.05 LT
CONST. MH TYPE P-8 (3.5' DIA)
INDEX 425-001, 425-010
RIM EL 4.23
FL (-) 1.10 AH
FL (-) 1.10 BK
BOTTOM EL (-) 3.10

S2-8

STA 40+96.00, 38.55 LT (CENTER OF INLET)
STA 40+96.00, 35.80 LT (CENTER OF BOX)
CONST. INLET TYPE J-5 (3.5' X 9.0')
INDEX 425-010, 425-021
EOP EL 2.21
FL (-) 2.50 AH
FL (-) 2.50 BK
BOTTOM EL (-) 4.50

S4-3

STA 406+80.00, 20.00 RT
CONST. MH TYPE J-8 (5.0' DIA)
INDEX 425-001, 425-010
RIM EL 2.70
FL (-) 1.55 AH
FL (-) 1.55 LT
FL (-) 1.55 RT
BOTTOM EL (-) 3.55

S1-3

STA. 37+30.00, 13.75 RT
CONST. INLET TYPE P-5 (3.5' DIA)
INDEX 425-010, 425-021
EOP EL 3.03
FL (-) 1.55 AH
FL (-) 1.55 BK
BOTTOM EL (-) 3.55

S2-3

STA. 35+69.50, 35.18 LT
CONST. INLET TYPE P-9
INDEX 425-010, 425-024
EOP EL 2.95
FL (-) 1.25 BK
FL (-) 1.25 RT
BOTTOM EL (-) 3.25

S2-9

STA 41+95.00, 35.95 LT
CONST. MH TYPE J-8 (6.0' DIA)
INDEX 425-001, 425-010
RIM EL 2.45
FL (-) 3.00 AH
FL (-) 2.70 BK
FL (-) 2.70 RT
BOTTOM EL (-) 5.00

S4-4

STA 406+92.00, 19.55 LT
CONST. INLET TYPE P-9 (3.5' DIA)
INDEX 425-010, 425-024
EOP EL 2.90
FL (-) 1.50 BK
BOTTOM EL (-) 3.50

S1-4

STA 39+65.00, 37.44 RT (CENTER OF INLET)
STA 39+65.05, 35.70 RT (CENTER OF BOX)
CONST. INLET TYPE J-5 (3.5' X 7.0')
INDEX 425-010, 425-021
EOP EL 2.80
FL (-) 1.90 AH
FL (-) 1.90 BK
BOTTOM EL (-) 3.90

S2-4

STA. 37+18.00, 56.04 LT
CONST. INLET TYPE P-9 (3.5' DIA)
INDEX 425-010, 425-024
EOP EL 2.84
FL (-) 1.35 AH
BOTTOM EL (-) 3.35

S2-10

STA 42+33.50, 60.65 LT
CONST. MH TYPE J-8 (8.0' DIA)
INDEX 425-001, 425-010
RIM EL 2.65
FL (-) 1.66 AH
FL (-) 1.96 BK/LT
FL (-) 3.20 BK/RT
FL (-) 3.55 LT
FL (-) 1.66 RT
BOTTOM EL (-) 5.55

S5-1

STA 503+28.00, 11.87 RT
CONST. INLET TYPE P-5
INDEX 425-010, 425-021
EOP EL 2.04
FL (-) 1.90 RT
BOTTOM EL (-) 3.90

S1-4A

STA 40+90.00, 24.85 RT
CONST. MH TYPE P-8 (3.5' DIA)
INDEX 425-001, 425-010
RIM EL 2.73
FL (-) 2.20 AH
FL (-) 2.20 BK
BOTTOM EL (-) 4.20

S2-5

STA 37+38.30, 77.23 LT
CONST. INLET TYPE P-9 (3.5' DIA)
INDEX 425-010, 425-024
EOP EL 2.76
FL (-) 1.45 LT
FL (-) 1.45 RT
BOTTOM EL (-) 3.45

S3-1

STA 38+10.00, 37.00 LT
CONST. DBI TYPE F (3.5' DIA)
INDEX 425-010, 425-053
GRATE EL 3.45
FL (-) 1.80 AH
FL (-) 1.80 BK
BOTTOM EL (-) 3.80

S5-2

STA 504+31.00, 11.15 LT (CENTER OF INLET)
STA 504+31.00, 11.65 LT (CENTER OF BOX)
CONST. INLET TYPE P-5
INDEX 425-010, 425-021
EOP EL 2.77
FL (-) 1.75 BK
BOTTOM EL (-) 3.75

S1-5

STA 41+88.00, 37.47 RT (CENTER OF INLET)
STA 41+91.05, 36.05 RT (CENTER OF BOX)
CONST. INLET TYPE J-9 (5.0' X 9.0')
INDEX 425-010, 425-024
EOP EL 2.02
FL (-) 2.50 BK
FL (-) 2.50 LT
BOTTOM EL (-) 4.50

S2-6



STA 38+92.00, 53.93 LT
CONST. INLET TYPE J-9 (5.0' DIA)
INDEX 425-010, 425-024
EOP EL 2.96
FL (-) 2.15 AH
FL (-) 2.15 BK
FL (-) 2.15 LT
BOTTOM EL (-) 4.15

S4-1

STA 406+55.00, 14.45 RT
CONST. INLET TYPE P-5 (3.5' DIA)
INDEX 425-010, 425-021
EOP EL 2.45
FL (-) 1.50 RT
BOTTOM EL (-) 3.50

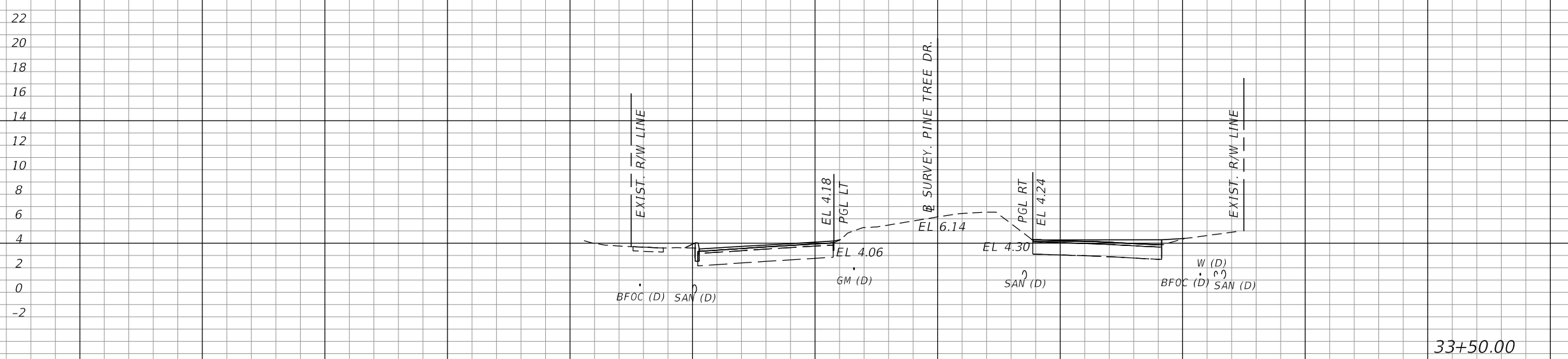
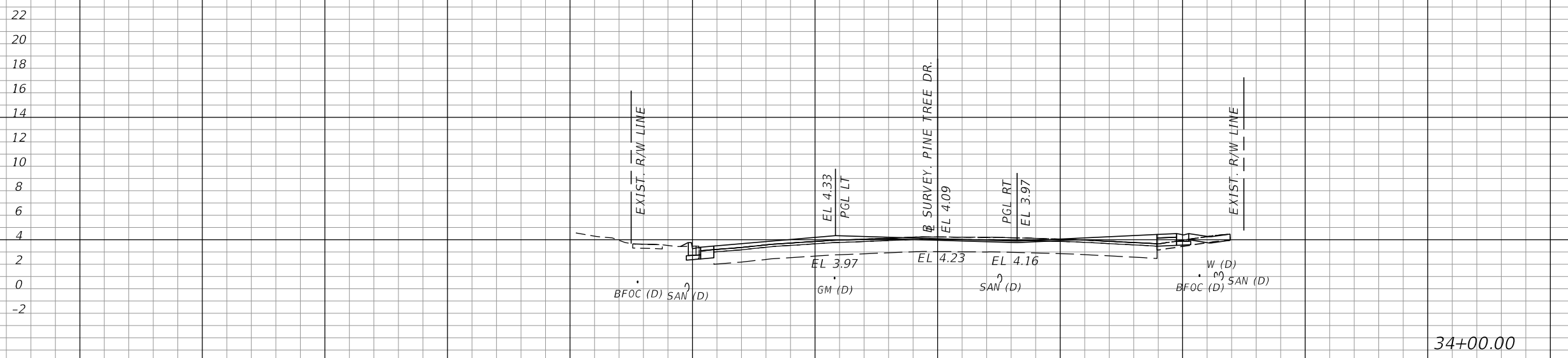
S5-3

STA 504+31.00, 4.00 RT
CONST. MH TYPE J-8 (6.0' DIA)
INDEX 425-001, 425-010
RIM EL 2.72
FL (-) 2.05 AH
FL (-) 2.05 LT
FL (-) 2.50 RT
BOTTOM EL (-) 4.50

| REVISIONS | | | |  Registry 696 Leonte I. Almonte, P.E. P.E. License No. 70822 355 Alhambra Circle - Suite 1400 Coral Gables, Florida 33134 |  | | DRAINAGE STRUCTURES | SHEET NO. 20 |
|-----------|-------------|------|-------------|---|---|---------|----------------------------|---------------------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | COUNTY | PROJECT | | |
| | | | | MIAMI-DADE | PINE TREE DRIVE & 46TH STREET | | | |

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



34+00.00

33+50.00

1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100

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

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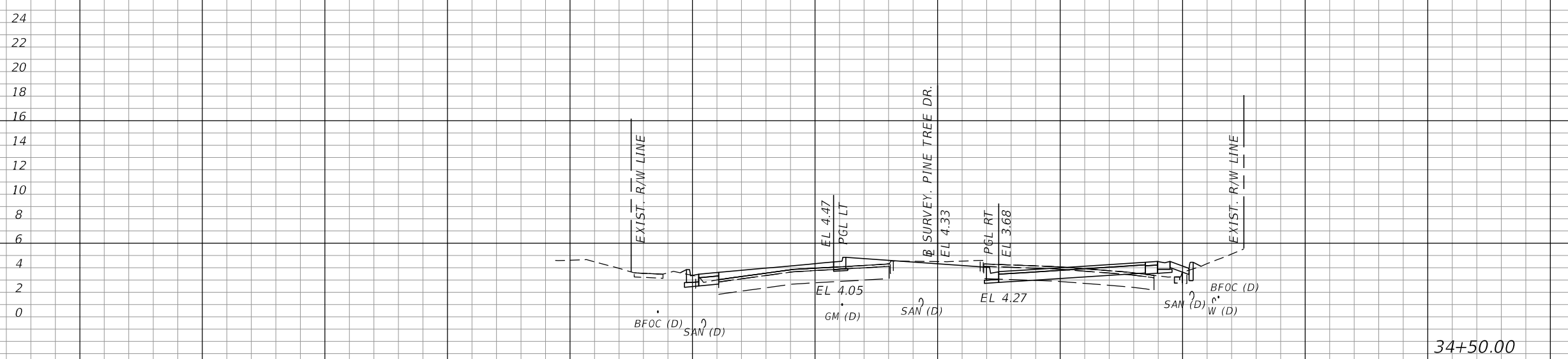
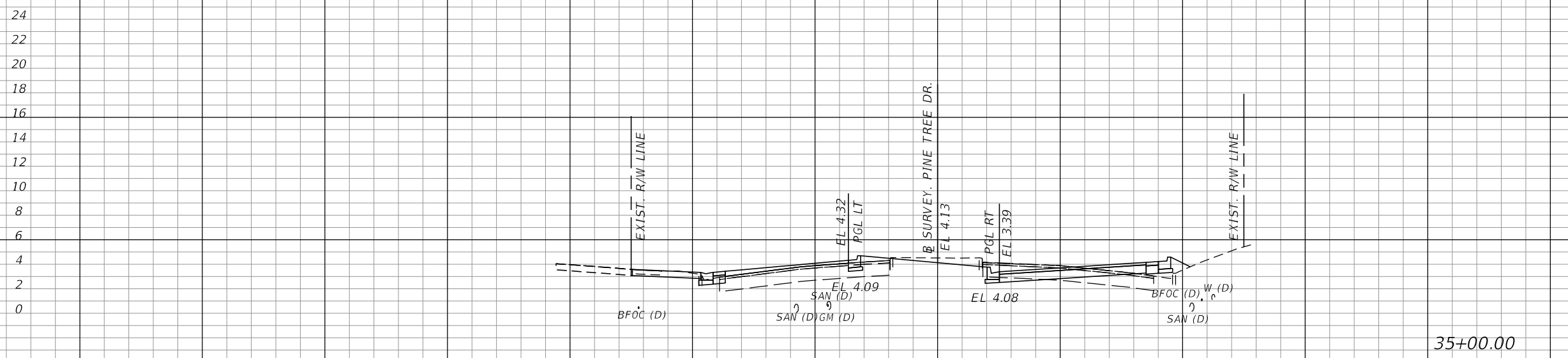
MIAMI BEACH
 COUNTY PROJECT NO.
 MIAMI-DADE PINE TREE DRIVE & 46TH STREET

CROSS SECTIONS

SHEET NO.
21

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



35+00.00

34+50.00

1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100

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

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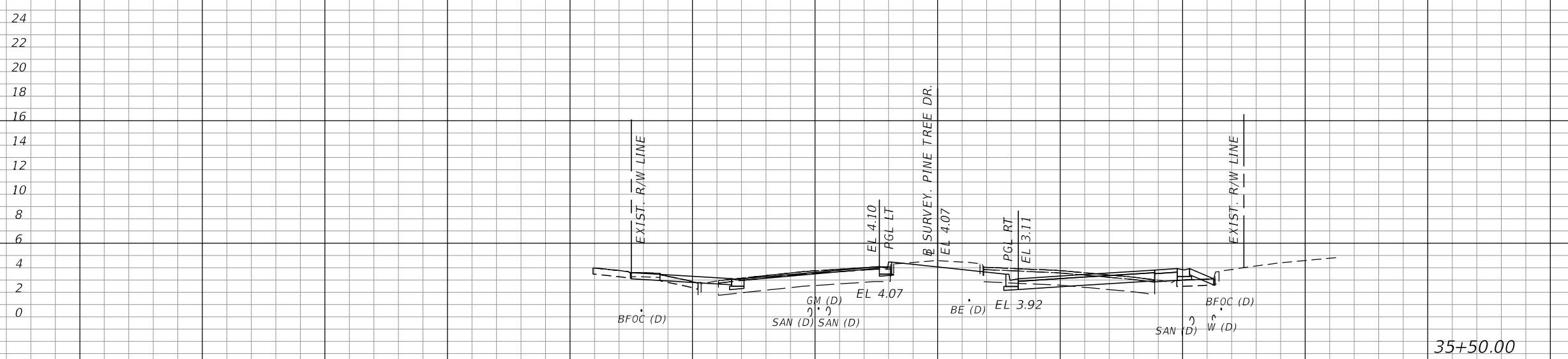
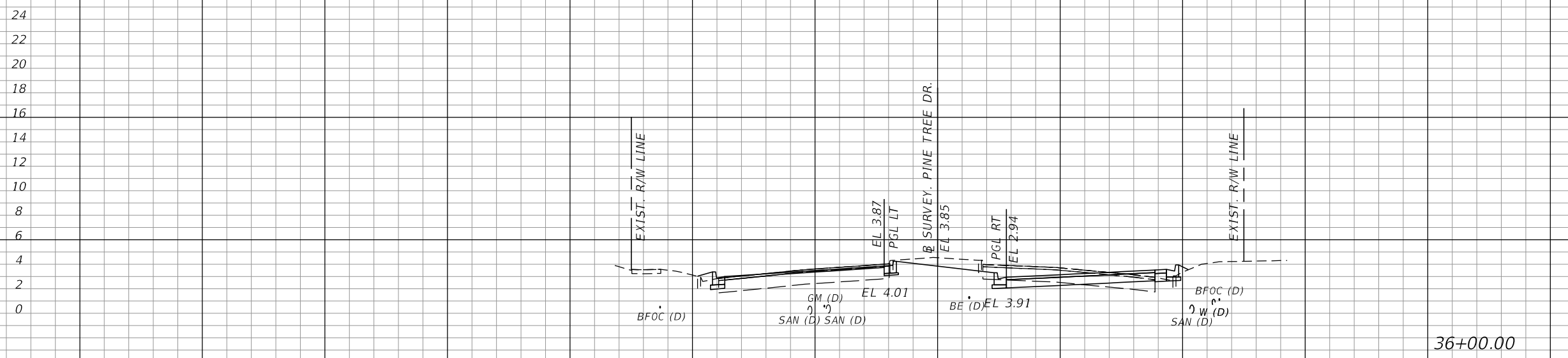
MIAMI BEACH
 COUNTY: MIAMI-DADE
 PROJECT NO.: PINE TREE DRIVE & 46TH STREET

CROSS SECTIONS

| |
|-----------|
| SHEET NO. |
| 22 |

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



36+00.00

35+50.00

1" = 20' Horizontal
1" = 10' Vertical

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

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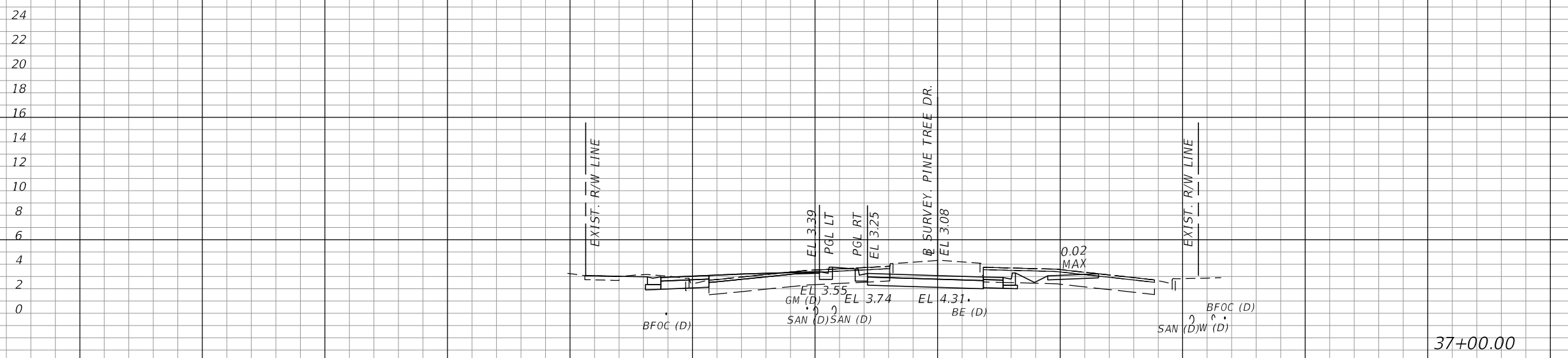
MIAMI BEACH
 COUNTY PROJECT NO.
 MIAMI-DADE PINE TREE DRIVE & 46TH STREET

CROSS SECTIONS

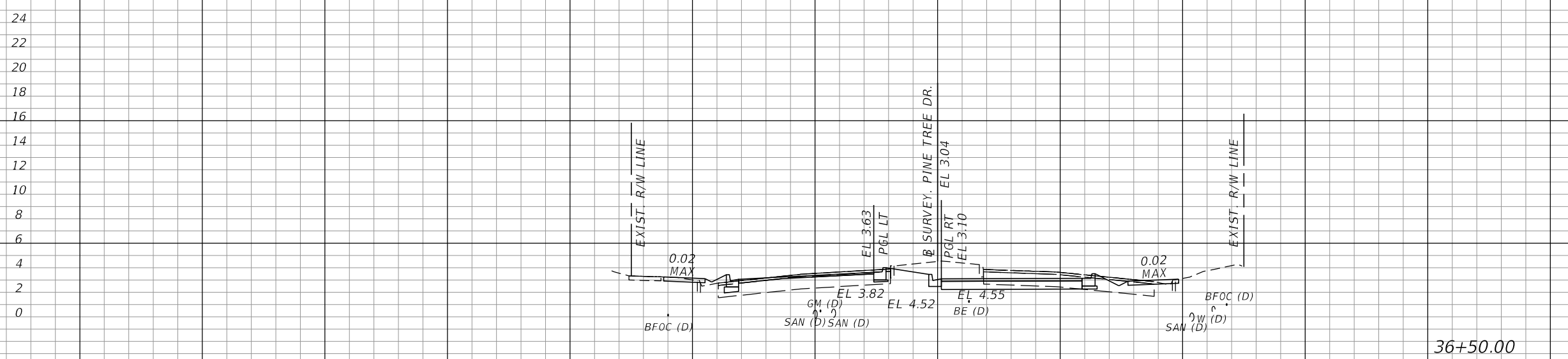
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| SHEET NO. |
| 23 |

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



37+00.00



36+50.00

1" = 20' Horizontal
1" = 10' Vertical

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

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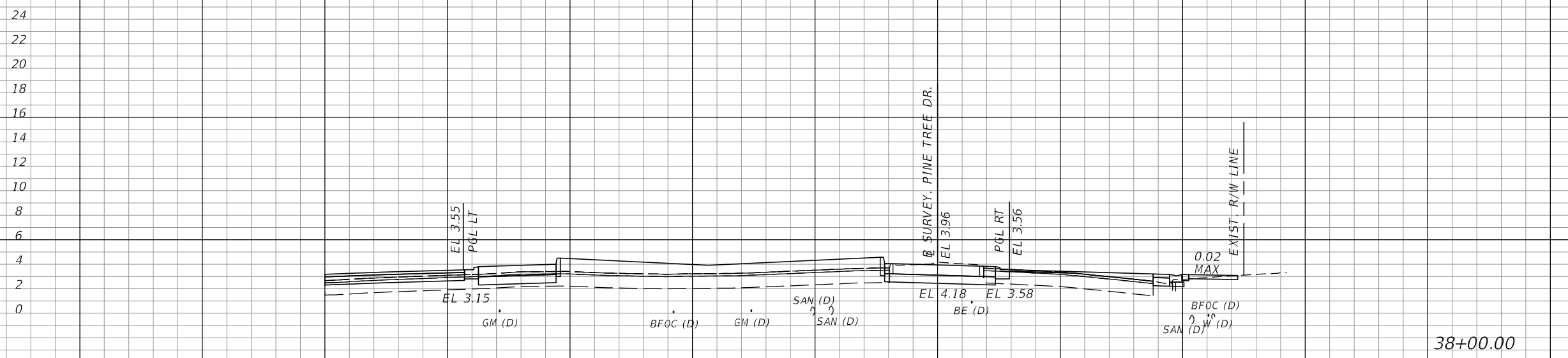
MIAMI BEACH
 COUNTY PROJECT NO.
 MIAMI-DADE PINE TREE DRIVE & 46TH STREET

CROSS SECTIONS

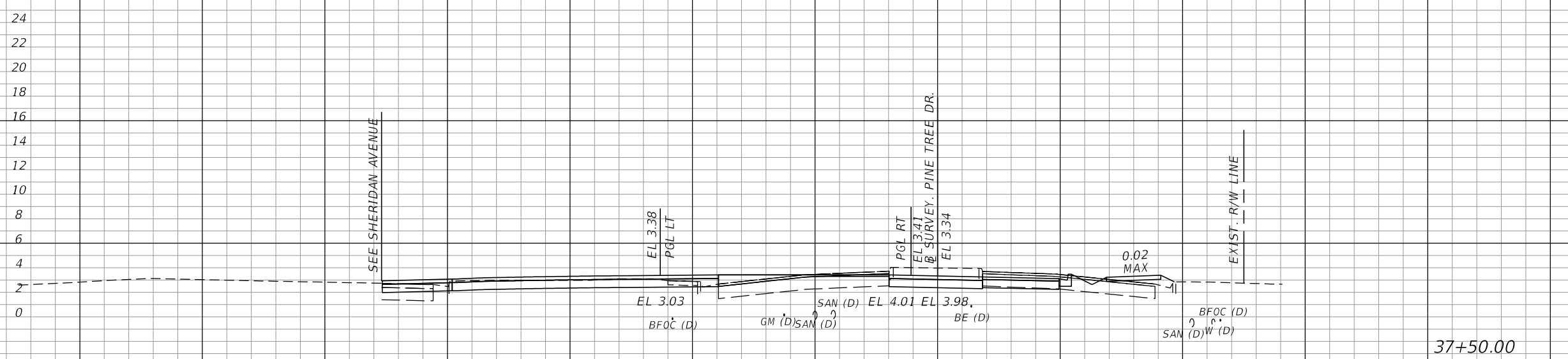
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| 24 |

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



38+00.00



37+50.00

1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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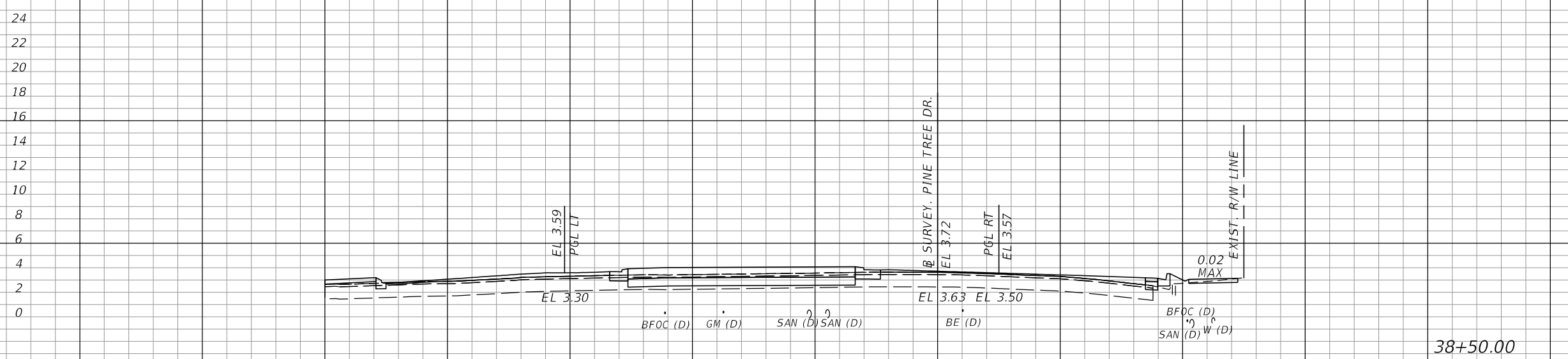
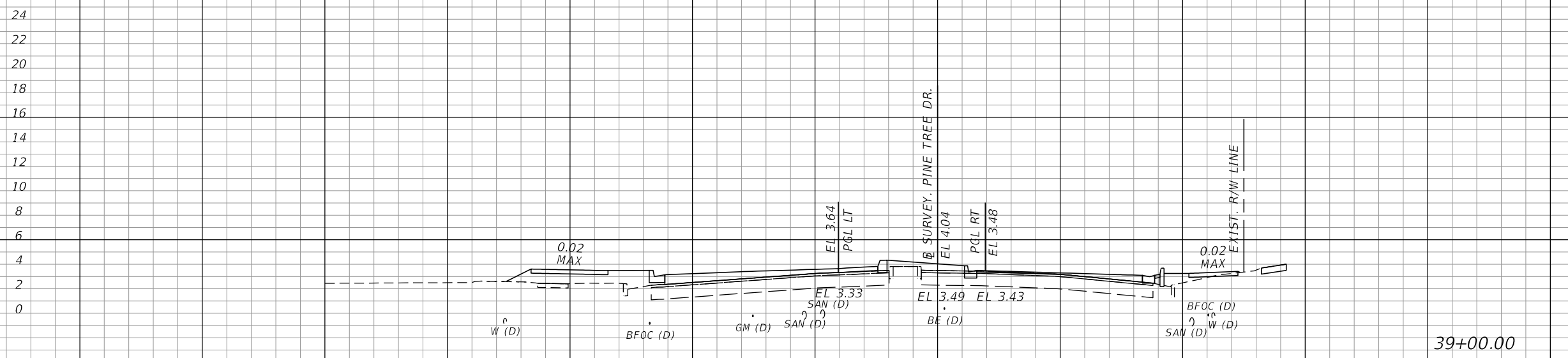
MIAMI BEACH
COUNTY
MIAMI-DADE
PROJECT NO.
PINE TREE DRIVE & 46TH STREET

CROSS SECTIONS

SHEET NO.
25

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



1" = 20' Horizontal
1" = 10' Vertical

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

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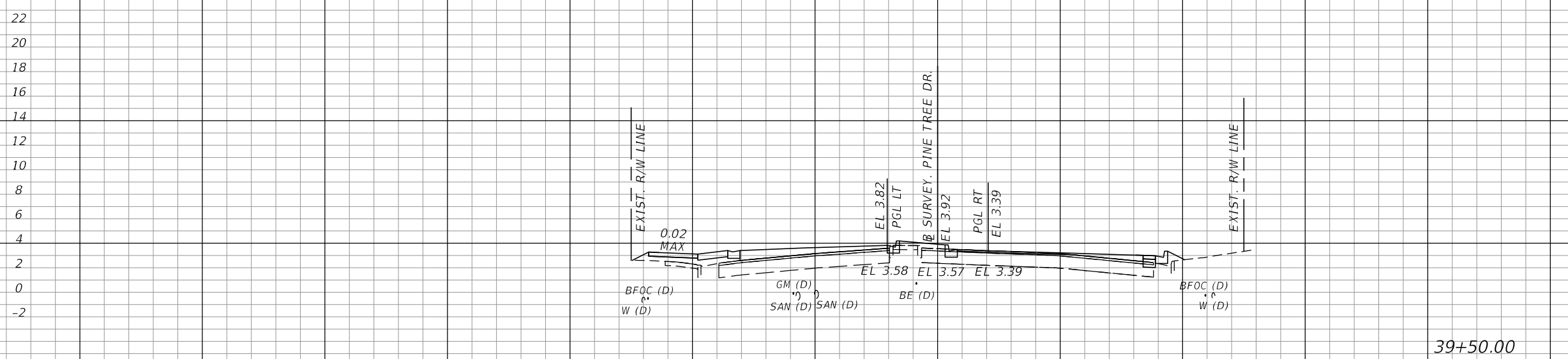
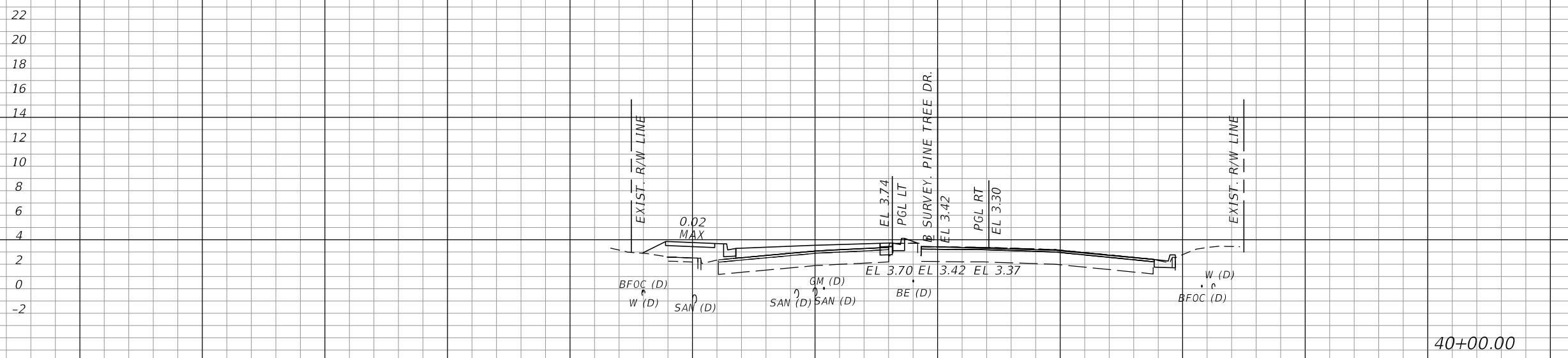
MIAMI BEACH
COUNTY: MIAMI-DADE
PROJECT NO.: PINE TREE DRIVE & 46TH STREET

CROSS SECTIONS

SHEET NO.
26

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|---------|---|------|---|------------|---|
| A | V | A | V | A | V |



40+00.00

39+50.00

1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100

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

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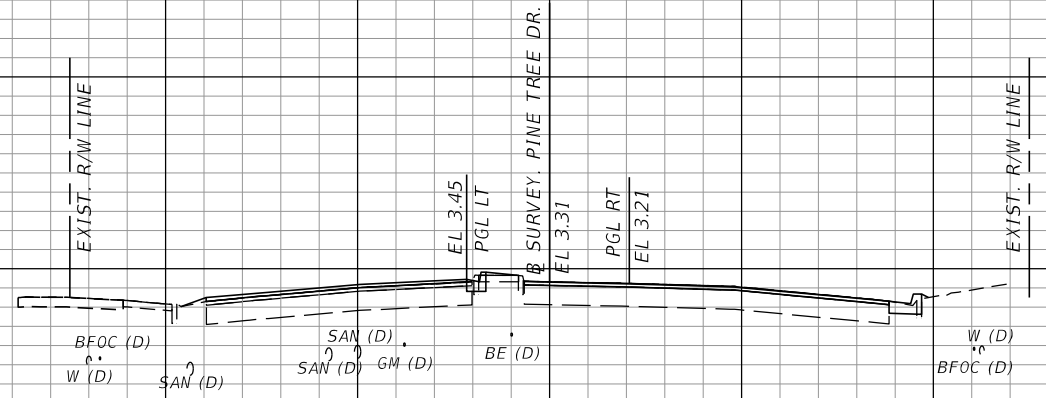
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27

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| Regular | | Exc. | | Embankment | |
|---------|---|------|---|------------|---|
| A | V | A | V | A | V |

22
20
18
16
14
12
10
8
6
4
2
0
-2



40+50.00

1" = 20' Horizontal
1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100

| REVISIONS | | | |
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| DATE | DESCRIPTION | DATE | DESCRIPTION |
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| 28 |

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