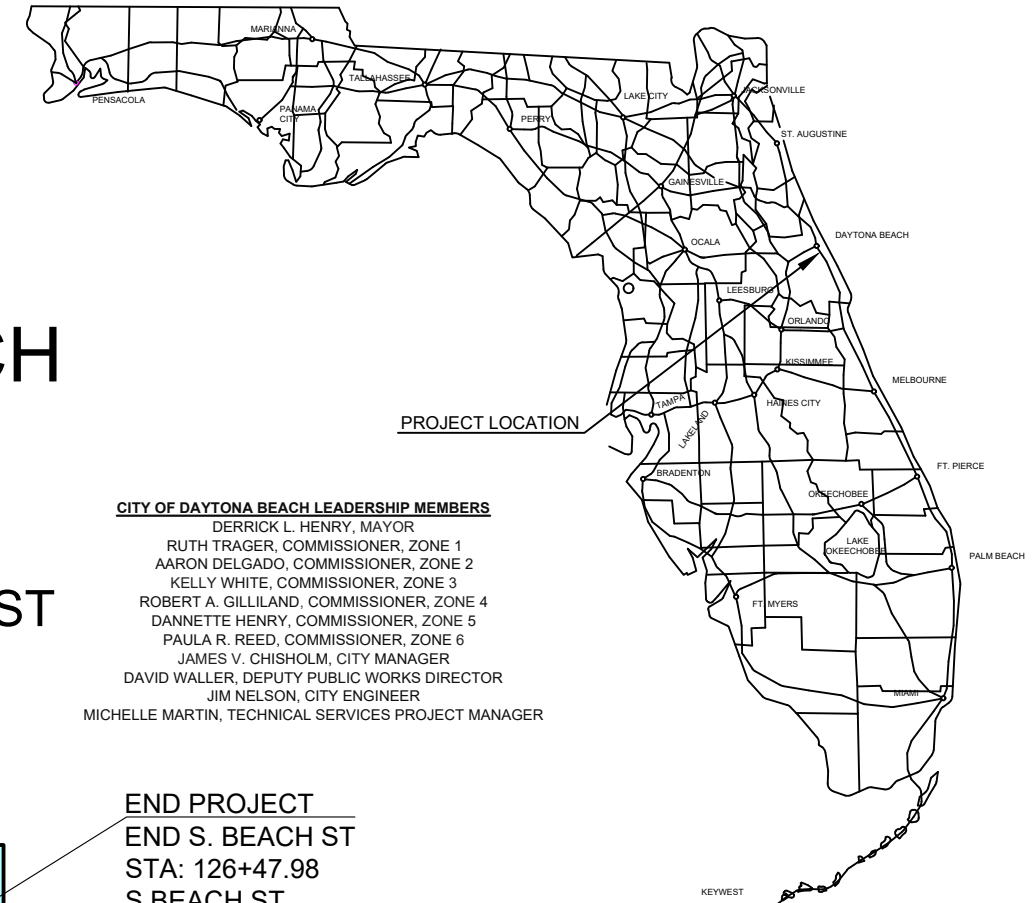


INDEX OF ROADWAY PLANS

| SHEET | TITLE |
|---|---|
| 01 | KEY SHEET |
| 01A | SIGNATURE PAGE |
| 02 | SUMMARY OF PAY ITEMS |
| 03 - 04 | DRAINAGE MAP |
| 05 | GENERAL NOTES |
| * 06 - 08 | TYPICAL SECTION |
| * 09A - 17 | PLAN VIEW |
| 18 - 20 | ROADWAY PROFILE |
| * 21 - 38 | CROSS SECTIONS |
| * 39 - 44 | CONSTRUCTION DETAILS |
| 45 | SWPPP NOTES |
| * 46 - 53 | SIGNING AND PAVEMENT MARKING PLANS |
| 54 | LIGHTING PLANS - POLE DATA & LEGEND |
| * 55 - 63 | LIGHTING PLANS |
| 64 | LIGHTING PLANS - SERVICE POINT 'A' DETAIL |
| 65 | LIGHTING PLANS - DETAILS |
| * SHEETS 08, 16, 17, 35, 36, 37, 38, 39, 53, 62 AND 63 HAVE BEEN OMITTED FROM THE SET | |

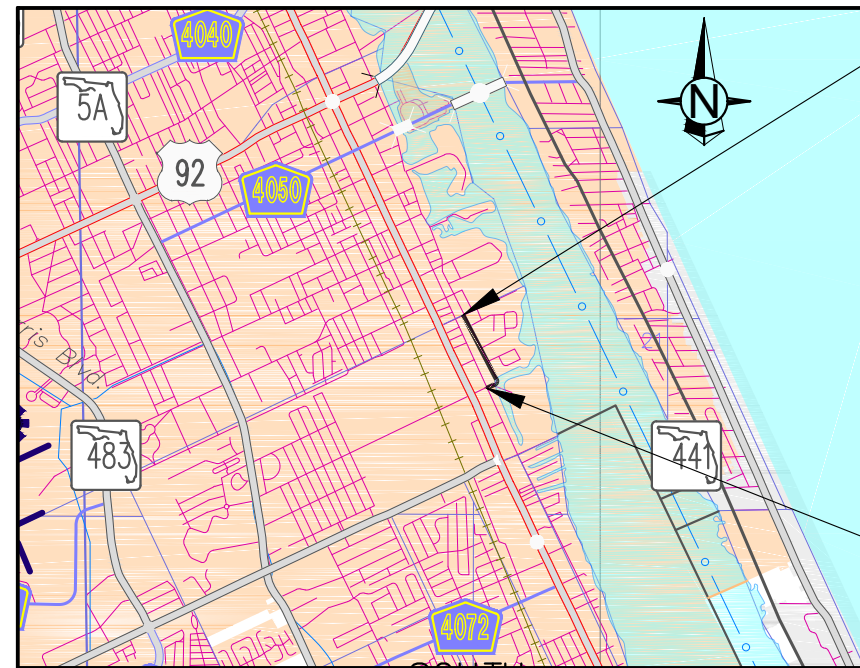


CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FLORIDA
CITY PROJECT # 2016-007
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01



CITY OF DAYTONA BEACH LEADERSHIP MEMBERS
 DERRICK L. HENRY, MAYOR
 RUTH TRAGER, COMMISSIONER, ZONE 1
 AARON DELGADO, COMMISSIONER, ZONE 2
 KELLY WHITE, COMMISSIONER, ZONE 3
 ROBERT A. GILLILAND, COMMISSIONER, ZONE 4
 DANNETTE HENRY, COMMISSIONER, ZONE 5
 PAULA R. REED, COMMISSIONER, ZONE 6
 JAMES V. CHISHOLM, CITY MANAGER
 DAVID WALLER, DEPUTY PUBLIC WORKS DIRECTOR
 JIM NELSON, CITY ENGINEER
 MICHELLE MARTIN, TECHNICAL SERVICES PROJECT MANAGER

| BEGIN / END STATIONING BY TASK | | |
|--------------------------------|-----------|-----------|
| TASK DESCRIPTION | BEGIN STA | END STA |
| Project | 100+46.89 | 126+47.98 |
| Construction | 100+46.89 | 124+50.62 |
| Shared Use Path | 101+26.93 | 124+50.62 |
| Milling and Resurfacing | 103+65.46 | 109+40.00 |
| New Construction | 106+50.00 | 108+50.00 |
| New Construction | 109+40.00 | 112+00.00 |
| Milling and Resurfacing | 112+00.00 | 124+50.62 |
| New Construction | 112+60.00 | 114+22.96 |
| New Construction | 115+50.00 | 120+50.00 |
| Pavement Marking | 100+46.89 | 126+47.98 |
| Lighting | 101+48.98 | 124+28.58 |



VICINITY MAP
1" = 1 MILE

END PROJECT
END S. BEACH ST
STA: 126+47.98
S BEACH ST

BEGIN PROJECT
BEGIN S. BEACH ST
STA: 100+46.89
WILDER BLVD

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

MIKAL REED HALE, P.E.
 TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
 80 SPRING VISTA DRIVE
 DEBARY, FL 32713
 PH: (386) 753-0558 FAX: (386) 753-0778
 E-Mail: mhale@teds-fl.com

ROADWAY PLANS PREPARED BY:



TRAFFIC ENGINEERING DATA SOLUTIONS, INC.

Phone: (386) 753-0558 80 Spring Vista Drive
 Fax: (386) 753-0778 DeBary, FL 32713

CERTIFICATE OF AUTHORIZATION NO. 27392

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

100% SUBMITTAL
01/04/2019

GOVERNING DESIGN STANDARDS:
 Florida Department of Transportation, FY 2018-2019 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

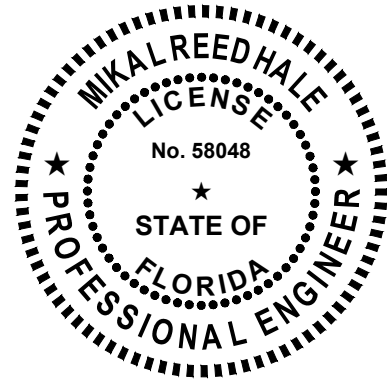
Standard Plans for Road Construction and associated IRs are available at the following website:
<http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:
 Florida Department of Transportation, January 2019 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/Specbooks>

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 08/29/2016 | TAS | REVISED PER CODB COMMENTS |
| 12/14/2016 | TAS | REVISED PER DESIGN CHANGE ORDER #1 |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

| LENGTH OF PROJECT | LINEAR FEET | MILES |
|-------------------------|-------------|-------|
| ROADWAY | 2,601.09 | 0.493 |
| BRIDGES | -- | -- |
| NET LENGTH OF PROJECT | 2,601.09 | 0.493 |
| EXCEPTIONS | -- | -- |
| GROSS LENGTH OF PROJECT | 2,601.09 | 0.493 |

ROADWAY PLANS
 ENGINEER OF RECORD: _____ MIKAL REED HALE, P.E.
 DATE: _____
 P.E. NO.: 58048



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MIKAL R. HALE, P.E., ON 10/10/2018 USING A DIGITAL SIGNATURE.

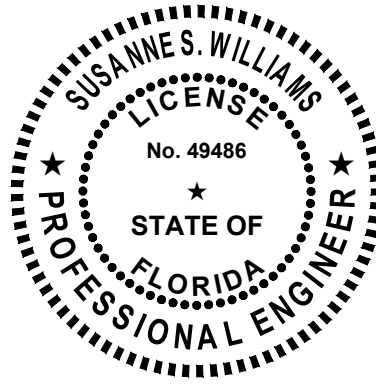
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TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
80 SPRING VISTA DR
DEBARY, FL 32713
CERTIFICATE OF AUTHORIZATION: NO.: 27392
MIKAL R. HALE, P.E. NO. 58048

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

ROADWAY PLANS

| <u>SHEET</u> | <u>TITLE</u> |
|--------------|-------------------------------|
| 01 | KEY SHEET |
| 02 | SUMMARY OF PAY ITEMS |
| 03 - 04 | DRAINAGE MAP |
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| 09A - 15 | PLAN VIEW |
| 18 - 20 | ROADWAY PROFILE |
| 21 - 34 | CROSS SECTIONS |
| 40 - 44 | CONSTRUCTION DETAILS |
| 45 | SWPPP NOTES |
| 46 - 52 | SIGNING AND PAVEMENT MARKINGS |



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY SUSANNE S. WILLIAMS, P.E., ON 10/10/2018 USING A DIGITAL SIGNATURE.

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

TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
80 SPRING VISTA DR
DEBARY, FL 32713
CERTIFICATE OF AUTHORIZATION: NO.: 27392
SUSANNE S. WILLIAMS, P.E. NO. 49486

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

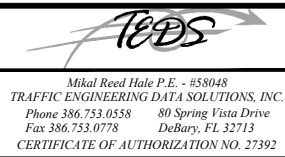
ROADWAY PLANS

| <u>SHEET</u> | <u>TITLE</u> |
|--------------|---|
| 54 | LIGHTING PLAN - POLE DATA & LEGEND |
| 55 - 61 | LIGHTING PLANS |
| 64 | LIGHTING PLAN - SERVICE POINT A DETAILS |
| 65 | LIGHTING PLAN - DETAILS |

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
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CITY OF DAYTONA BEACH



SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

SIGNATURE PAGE

SHEET NO.

01A of 65

SUMMARY OF PAY ITEMS

| PAY ITEM NO. | PAY ITEM DESCRIPTION | UNIT | QUANTITY |
|--------------------|---|------|----------|
| I. BASE BID | | | |
| 101-1 | MOBILIZATION | LS | 1 |
| 102-1 | MAINTENANCE OF TRAFFIC | LS | 1 |
| 104-10-3 | SEDIMENT BARRIER (F&I) | LF | 7262 |
| 104-11 | FLOATING TURBIDITY BARRIER (F&I) | LF | 20 |
| 104-18 | INLET PROTECTION SYSTEM (F&I) | EA | 26 |
| 110-1-1 | CLEARING AND GRUBBING | AC | 1.490 |
| 110-4 | REMOVAL OF EXISTING CONCRETE | SY | 1948 |
| 120-1 | REGULAR EXCAVATION | CY | 141 |
| 120-6 | EMBANKMENT | CY | 836 |
| 160-4 | TYPE B STABILIZATION | SY | 1888 |
| 285-7-04 | OPTIONAL BASE, BASE GROUP 04 | SY | 1833 |
| 327-70-1 | MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH) | SY | 4500 |
| 334-1-12 | SUPERPAVE ASPHALTIC CONC. TRAFFIC B | TN | 691 |
| 400-1-2 | CONC. CLASS I, ENDWALLS | CY | 1.2 |
| 425-5-1 | MANHOLE, ADJUST | EA | 4 |
| 425-6 | VALVE BOX, ADJUST | EA | 7 |
| 425-1211 | INLETS, CURB, TYPE 10, <10' (F&I) | EA | 1 |
| 425-1521 | INLETS, DT BOT, TYPE C, <10' (F&I) | EA | 2 |
| 425-1541 | INLETS, DT BOT, TYPE D, <10' (F&I) | EA | 14 |
| 425-1543 | INLETS, DT BOT, TYPE D, J BOTTOM, <10' (F&I) | EA | 4 |
| 425-2-41 | MANHOLE, P-7, <10' (F&I) | EA | 3 |
| 425-2-91 | MANHOLES, J-8, <10' (F&I) | EA | 2 |
| 430-174-115 | PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" (F&I) | LF | 598 |
| 430-174-118 | PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" (F&I) | LF | 211 |
| 430-174-136 | PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36" (F&I) | LF | 14 |
| 520-1-10 | CONCRETE CURB & GUTTER, TYPE F | LF | 6935 |
| 520-3 | VALLEY GUTTER - CONCRETE | LF | 515 |
| 522-1 | CONCRETE SIDEWALK, 4" THICK, (INCLUDES ADA RAMPS AND CAST-IN-PLACE DETECTABLE WARNING SURFACES) | SY | 2219 |
| 570-1-2 | PERFORMANCE TURF, SOD (F&I) | SY | 4999 |
| 700-1-11 | SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12SF (F&I) | AS | 35 |
| 700-1-60 | SINGLE POST SIGN, REMOVE | AS | 16 |
| 706-3 | RETRO-REFLECTIVE PAVEMENT MARKER | EA | 197 |
| 0710-11-101 | PAINTED PAVT MARK,STD,WHITE,SOLID,6" | GM | 0.728 |
| 0710-11-123 | PAINTED PAVT MARK,STD,WHITE,SOLID, 12" | LF | 568 |
| 0710-11-124 | PAINTED PAVT MARK,STD,WHITE,SOLID, 18" | LF | 294 |
| 0710-11-125 | PAINTED PAVT MARK,STD,WHITE,SOLID,24" | LF | 168 |
| 0710-11-201 | PAINTED PAVT MARK,STD,YELLOW,SOLID,6" | GM | 0.758 |
| 0710-11-224 | PAINTED PAVT MARK,STD,YELLOW,SOLID,18" | LF | 17 |
| 711-11-123 | THERMOPLASTIC,STANDARD,WHITE,SOLID,12" | LF | 568 |
| 711-11-124 | THERMOPLASTIC,STANDARD,WHITE,SOLID,18" | LF | 294 |
| 711-11-125 | THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" | LF | 168 |
| 711-11-224 | THERMOPLASTIC, STD, YELLOW, SOLID, 18" | LF | 17 |
| 711-16-101 | THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6" | NM | 0.728 |
| 711-11-224 | THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" | LF | 17 |
| 711-16-201 | THERMOPLASTIC, STD-OTH, YELLOW, SOLID, 6" | NM | 0.758 |
| 711-17 | THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS | SF | 250 |
| 1644-800 | FIRE HYDRANT, RELOCATE | EA | 3 |

| II. ALTERNATE BID 1 | | | |
|----------------------------|---|----|-------|
| 101-1 | ADDITIONAL MOBILIZATION FOR ALTERNATE BID 1 ACTIVITIES | LS | 1 |
| 102-1 | ADDITIONAL MAINTENANCE OF TRAFFIC FOR ALTERNATE BID 1 ACTIVITIES | LS | 1 |
| 104-10-3 | SEDIMENT BARRIER (F&I) | LF | 232 |
| 110-1-1 | CLEARING AND GRUBBING | AC | 0.260 |
| 120-1 | REGULAR EXCAVATION | CY | 47 |
| 120-6 | EMBANKMENT | CY | 18 |
| 160-4 | TYPE B STABILIZATION (UNDER SHARED USE PATH) | SY | 2801 |
| 522-1 | CONCRETE SIDEWALK, 4" THICK, (INCLUDES ADA RAMPS AND CAST-IN-PLACE DETECTABLE WARNING SURFACES) | SY | 582 |
| 522-2 | CONCRETE DRIVEWAYS, 6" THICK | SY | 62 |
| 570-1-2 | PERFORMANCE TURF, SOD (F&I) | SY | 595 |
| 630-2-11 | CONDUIT, F&I, OPEN TRENCH | LF | 1985 |
| 630-2-12 | CONDUIT, F&I, DIRECTIONAL BORE | LF | 446 |
| 635-2-11 | PULL & SPLICE BOX, F&I, 13" x 24" (F&I) | EA | 39 |
| 715-1-12 | LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6 | LF | 7293 |
| 715-4-11 | DECORATIVE PEDESTRIAN LED LIGHT POLE COMPLETE, FURNISH & INSTALL DECORATIVE POLE STANDARD FOUNDATION, 14' MOUNTING HEIGHT | EA | 36 |
| DB-002 | SITESCAPES AVONDALE BACKED BENCH, MODEL AV1-1011 (F&I) | EA | 2 |
| DB-006 | LANDSCAPE- TREES, LIVE OAK QUERCUS VIRGINIANA, 11-14' OVERALL HEIGHT (F&I) | EA | 20 |

PAY ITEM NOTES (I. BASE BID):

Pay Item No. 110-1-1 **CLEARING & GRUBBING** - Includes all costs associated with removal of existing fencing and railing, removal of existing trees, protection of trees, any pruning required to provide horizontal and vertical clearances, as well as root pruning per L-7 - ROOT PRUNING DETAIL on Sheet 42 - CONSTRUCTION DETAILS. All existing trees which are to remain within 50' of construction efforts shall be protected per detail L-6 - TREE PROTECTION BARRICADE DETAIL on Sheet 42 - CONSTRUCTION DETAILS.

Pay Item No. 522-1 **CONCRETE SIDEWALK, 4" THICK, (INCLUDES ADA RAMPS AND CAST-IN-PLACE (WET SET) DETECTABLE WARNING SURFACES)** - Includes all costs associated with constructing sidewalks, constructing curb ramps and cast-in-place (wet set) detectable warning surfaces with standard broom finish as per standard FDOT sidewalk construction.

Pay Item No. 570-1-2 **PERFORMANCE TURF, SOD** - Includes all costs for maintaining sod, including watering, mowing, and litter removal if required, until such time it is established and the project has been finally accepted.

PAY ITEM NOTES (II. ALTERNATE BID 1):

Pay Item No. DB-002 **SITESCAPES AVONDALE BACKED BENCH, MODEL AV1-1011 (F&I)** - Payment will be a lump sum unit price for the furnishing and installation of the bench per Manufacturer Specifications. See detail D-2 on Sheet 44 - CONSTRUCTION DETAILS.

Pay Item No. DB-006 **LANDSCAPE- TREES, LIVE OAK QUERCUS VIRGINIANA, 11-14' OVERALL HEIGHT** - Includes all cost for furnishing and installing tree and mulch as per detail L-1 on Sheet 42 - CONSTRUCTION DETAILS, and all costs for watering and maintenance until such time it is established and the project has been finally accepted.

Pay Item No. 110-1-1 **CLEARING & GRUBBING** - This pay item is intended to account for activities involved in the sidewalk, driveway, and swale construction on the south side of Wilder Blvd. from STA 101+26.93 to STA 104+00. Includes all costs associated with removal of existing fencing and railing, removal of existing trees, protection of trees, any pruning required to provide horizontal and vertical clearances, as well as root pruning per L-7 - ROOT PRUNING DETAIL on Sheet 42 - CONSTRUCTION DETAILS. All existing trees which are to remain within 50' of construction efforts shall be protected per detail L-6 - TREE PROTECTION BARRICADE DETAIL on Sheet 42 - CONSTRUCTION DETAILS.

Pay Item No. 160-4 **TYPE 'B' STABILIZATION (UNDER SHARED USE PATH)** - Includes all costs for the installation of Type 'B' Stabilization under the 2219 SY of Pay Item 522-1 included in the base bid, as well as the 595 SY of Pay Item 522-1 included in Alternate Bid 1.

Pay Item No. 570-1-2 **PERFORMANCE TURF, SOD** - Includes all costs for maintaining sod, including watering, mowing, and litter removal if required, until such time it is established and the project has been finally accepted.

Pay Item No. 715-4-11 **DECORATIVE PEDESTRIAN LED LIGHT POLE COMPLETE, FURNISH & INSTALL DECORATIVE POLE STANDARD FOUNDATION, 14' MOUNTING HEIGHT** - Includes all wiring necessary for a complete installation of a 14' mounted decorative pedestrian lighting pole and luminaire per details shown on Sheet 65 - LIGHTING PLAN - DETAILS, utilizing a standard foundation.

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
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| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |



**CITY OF
DAYTONA BEACH**

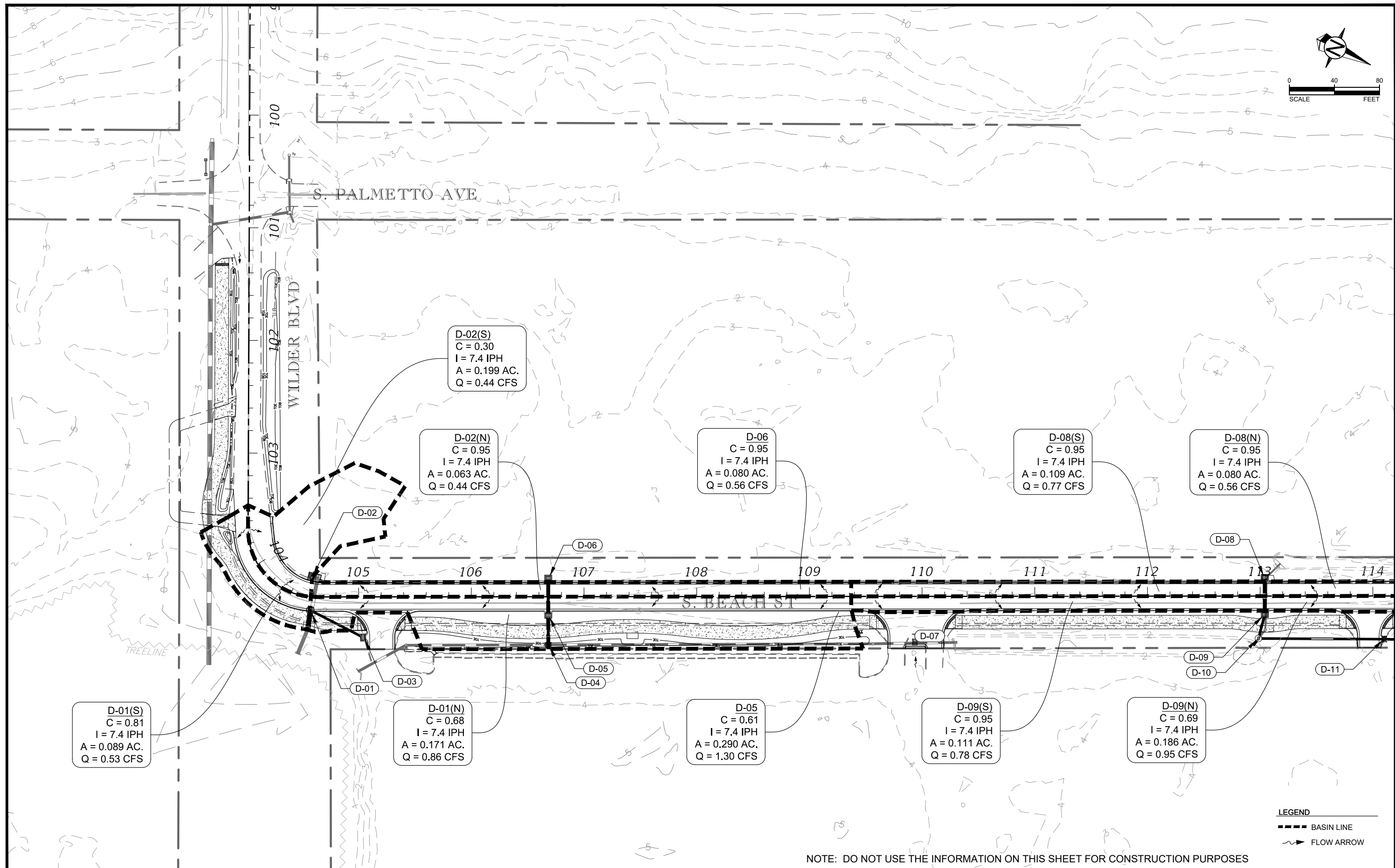
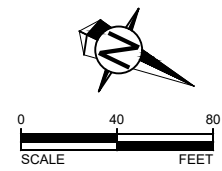


**SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01**

SUMMARY OF PAY ITEMS

SHEET NO.

02 of 65



LEGEND
 --- BASIN LINE
 ---> FLOW ARROW

NOTE: DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
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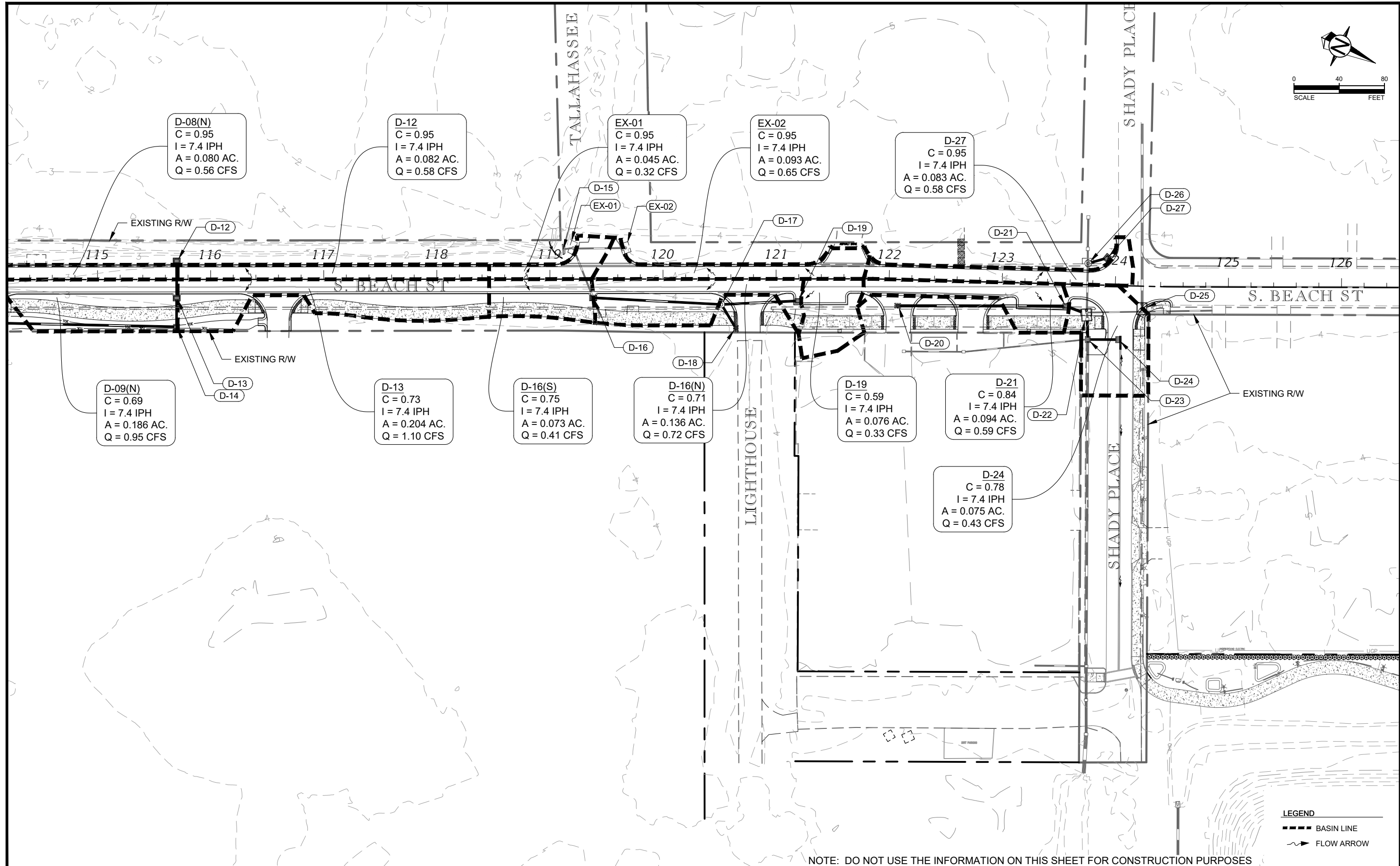
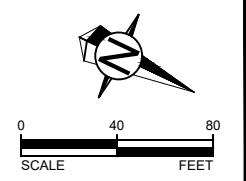
CITY OF DAYTONA BEACH



SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

DRAINAGE MAP

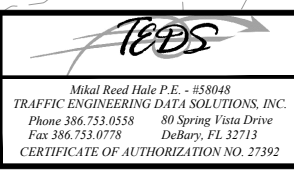
SHEET NO.
03 of 65



NOTE: DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES

LEGEND
 - - - - - BASIN LINE
 -> FLOW ARROW

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
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SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

DRAINAGE MAP

SHEET NO.
04 of 65

GENERAL NOTES:

1. BEARING STRUCTURE BASED ON NAD83, FLORIDA STATE PLANE, EAST ZONE. ELEVATIONS REFER TO N.G.V.D. OF 1929, PER FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION MONUMENT 79-78-A36 HAVING A PUBLISHED ELEVATION OF 17.10 FEET.
2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
3. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
4. UTILITY / AGENCY OWNERS: COMPANIES TELEPHONE NUMBERS

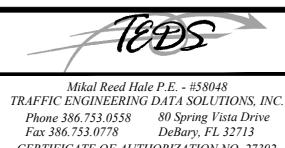
| | |
|---------------------------------|----------------|
| CITY OF DAYTONA BEACH | (386) 671-8632 |
| CITY OF SOUTH DAYTONA | (386) 322-3080 |
| AT&T / DISTRIBUTION | (386) 281-6957 |
| SPECTRUM (FORMERLY BRIGHTHOUSE) | (386) 775-4444 |
| TECO PEOPLES GAS | (386) 671-2232 |
| FPL | (407) 328-1922 |
5. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX 102 SERIES; SPECIFIC ATTENTION IS DIRECTED TO FDOT STANDARD INDEX NUMBER 102-600, 102-601, 102-602, 102-603, 102-604, AND 102-605 FOR MAINTENANCE OF VEHICULAR TRAFFIC, AND FDOT STANDARD INDEX NUMBER 102-660 FOR MAINTENANCE OF PEDESTRIAN TRAFFIC.
6. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL OF THE MAINTENANCE OF TRAFFIC (MOT) PLANS FOR ANY LANE CLOSURES FROM THE CITY OF DAYTONA BEACH'S PROJECT MANAGER, MICHELLE MARTIN ((386) 671-8632) AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURE.
7. IN ACCORDANCE WITH FDOT SPECIFICATIONS 8-6.4, SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:
 - SPEED WEEK (FEBRUARY 10-18, 2018)
 - BIKE WEEK (MARCH 9-18, 2018)
 - COKE ZERO 400 (AND RELATED EVENTS) (JULY 5-7, 2018)
 - BIKETOBERFEST (OCTOBER 18-21, 2018)
 - HALIFAX ART FESTIVAL (NOVEMBER 3-4, 2018)
 - ROLEX 24 HOUR RACE (JANUARY 27-28, 2018)
 - DAYTONA 200 (MARCH 17, 2018)
 - DAYTONA SPRING TURKEY RUN (MARCH 23-25, 2018)
 - NATIONAL CHEERLEADING CHAMPIONSHIP (APRIL 4-7, 2018)
 - TURKEY RUN (NOVEMBER 21-24, 2018)

FOR FUTURE EVENT DATES PLEASE REFER TO THE CITY'S EVENT WEBSITE: <http://www.codb.us/index.aspx?nid=369>

| REVISIONS | | |
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| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |



**CITY OF
DAYTONA BEACH**

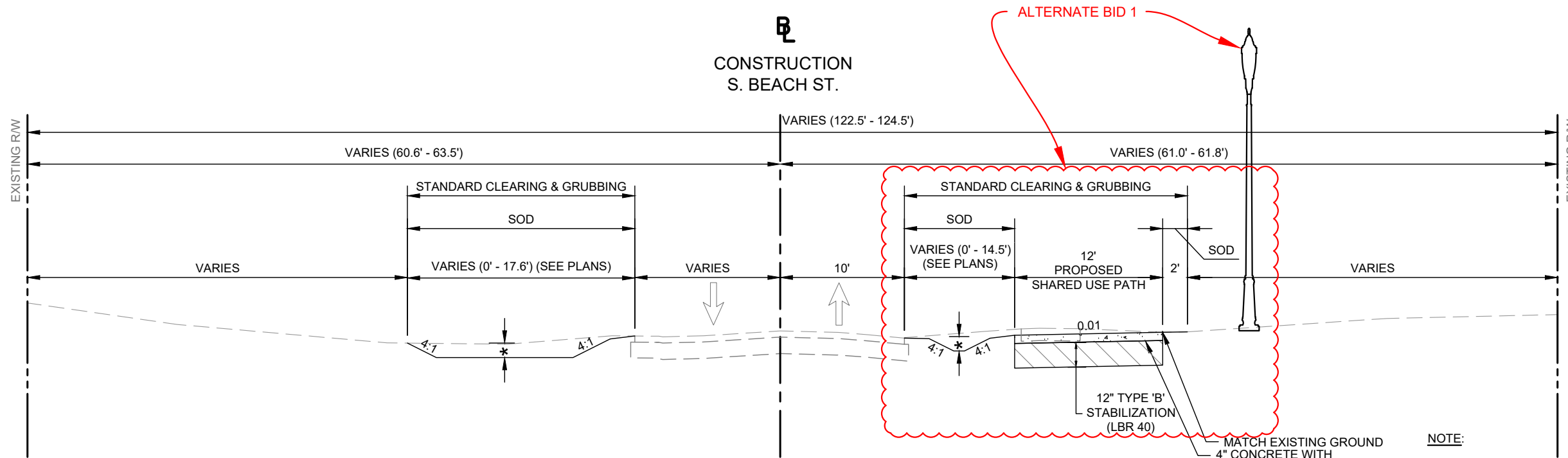


**SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01**

GENERAL NOTES

SHEET
NO.

05 of 65

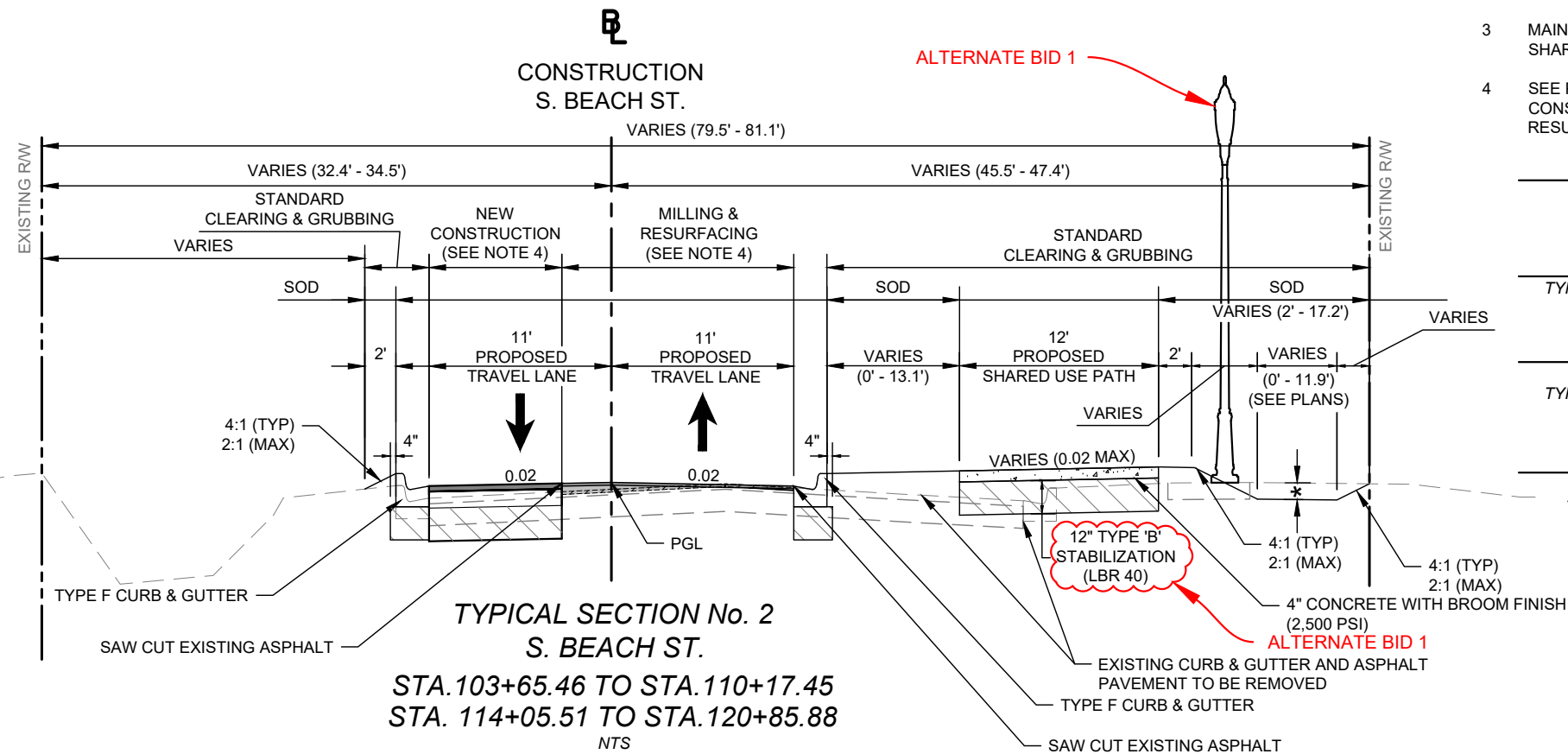


TYPICAL SECTION No. 1
S. BEACH ST.
STA. 101+26.93 TO STA. 103+65.46
 NTS

* REFER TO PLANS FOR LOCATION OF DEPRESSIONAL AREAS TO BE CONSTRUCTED AT VARIOUS LOCATIONS THROUGHOUT THE PROJECT CORRIDOR IN ORDER TO ACCUMULATE AND/OR REDIRECT RUNOFF (6" MAX DEPTH)

NOTE:

- 1 CONTRACTOR SHALL ENSURE ALL SLOPES OF THE PROPOSED SHARED USE PATHS AND DRIVEWAYS COMPLY WITH AMERICAN WITH DISABILITIES ACT (ADA), INCLUDING 2% MAXIMUM CROSS-SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE
- 2 MAINTAIN 4' MINIMUM HORIZONTAL CLEARANCE FROM SHARED USE PATH TO ANY LATERAL OBSTRUCTIONS UNLESS OTHERWISE INSTRUCTED BY THE PLANS.
- 3 MAINTAIN 8' VERTICAL CLEARANCE OVER THE PROPOSED SHARED USE PATH
- 4 SEE PLANS FOR LIMITS WHERE NEW FULL DEPTH PAVEMENT CONSTRUCTION IS REQUIRED IN LIEU OF MILLING & RESURFACING DUE TO EXTENT OF CHANGES IN PROFILE GRADE



TYPICAL SECTION No. 2
S. BEACH ST.
STA. 103+65.46 TO STA. 110+17.45
STA. 114+05.51 TO STA. 120+85.88
 NTS

- MILLING
- RESURFACING
- OVERBUILD
- BASE
- SUBBASE

- MILLING**
- MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")
- RESURFACING**
- TYPE SP-9.5 STRUCTURAL COURSE (TRAFFIC B) 1"
- NEW CONSTRUCTION**
- OPTIONAL BASE GROUP 04 WITH TYPE SP-9.5 STRUCTURAL COURSE (TRAFFIC B) 2" 12" TYPE B STABILIZATION (LBR 40)
- OVERBUILD FOR SLOPE**
- TYPE SP-9.5 OVERBUILD (TRAFFIC B) THICKNESS VARIES (3/8" TO 6") (2" MAX LIFT)

TRAIL DESIGN SPEED = 18 MPH

| REVISIONS | | |
|------------|-----|--|
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| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |



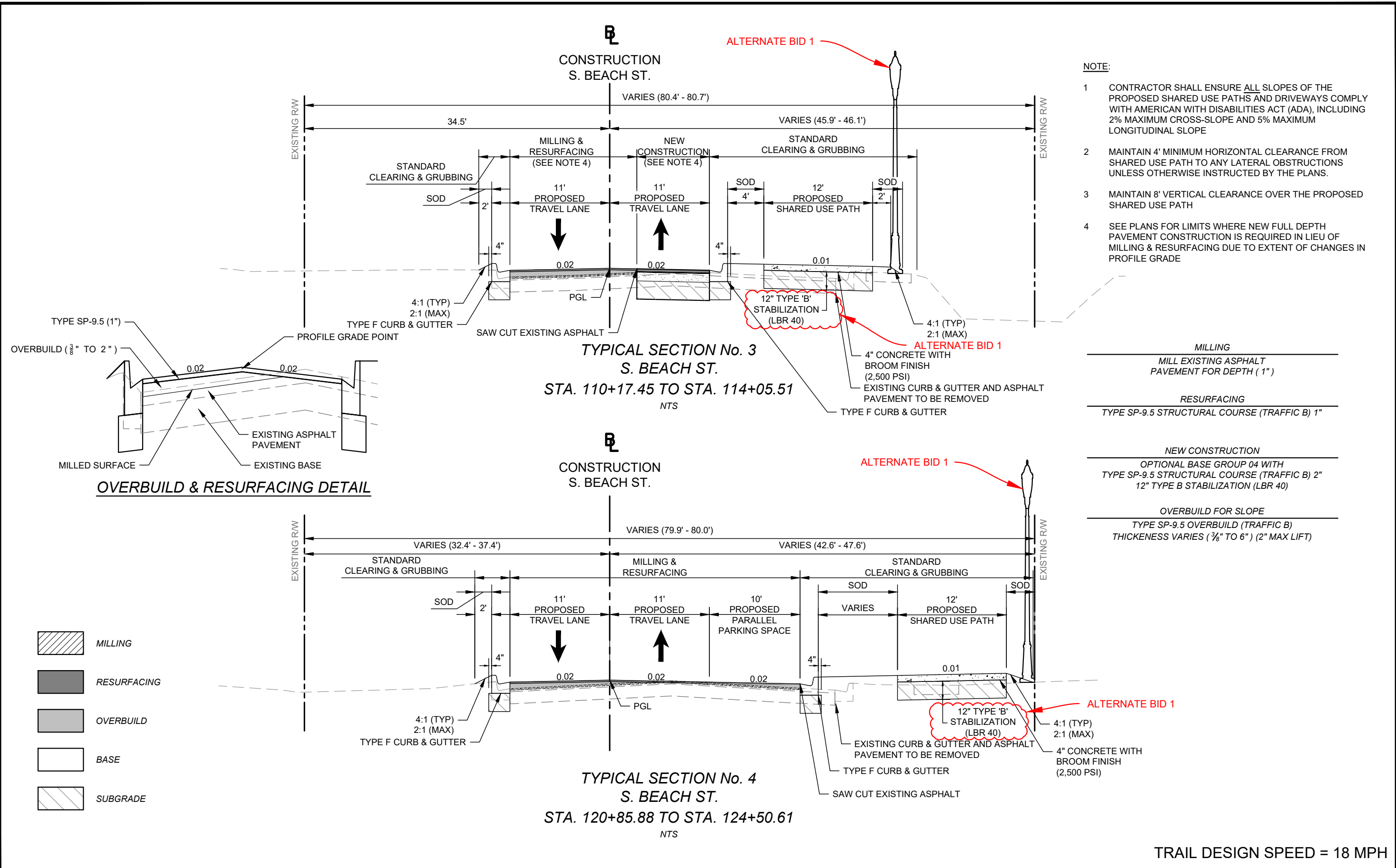
CITY OF DAYTONA BEACH

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SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

TYPICAL SECTION

SHEET NO.
 06 of 65



- NOTE:**
- 1 CONTRACTOR SHALL ENSURE ALL SLOPES OF THE PROPOSED SHARED USE PATHS AND DRIVEWAYS COMPLY WITH AMERICAN WITH DISABILITIES ACT (ADA), INCLUDING 2% MAXIMUM CROSS-SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE
 - 2 MAINTAIN 4' MINIMUM HORIZONTAL CLEARANCE FROM SHARED USE PATH TO ANY LATERAL OBSTRUCTIONS UNLESS OTHERWISE INSTRUCTED BY THE PLANS.
 - 3 MAINTAIN 8' VERTICAL CLEARANCE OVER THE PROPOSED SHARED USE PATH
 - 4 SEE PLANS FOR LIMITS WHERE NEW FULL DEPTH PAVEMENT CONSTRUCTION IS REQUIRED IN LIEU OF MILLING & RESURFACING DUE TO EXTENT OF CHANGES IN PROFILE GRADE

- MILLING**
MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")
- RESURFACING**
TYPE SP-9.5 STRUCTURAL COURSE (TRAFFIC B) 1"
- NEW CONSTRUCTION**
OPTIONAL BASE GROUP 04 WITH TYPE SP-9.5 STRUCTURAL COURSE (TRAFFIC B) 2"
12" TYPE B STABILIZATION (LBR 40)
- OVERBUILD FOR SLOPE**
TYPE SP-9.5 OVERBUILD (TRAFFIC B)
THICKNESS VARIES (3/8" TO 6") (2" MAX LIFT)

- MILLING
- RESURFACING
- OVERBUILD
- BASE
- SUBGRADE

| REVISIONS | | |
|------------|-----|--|
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| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

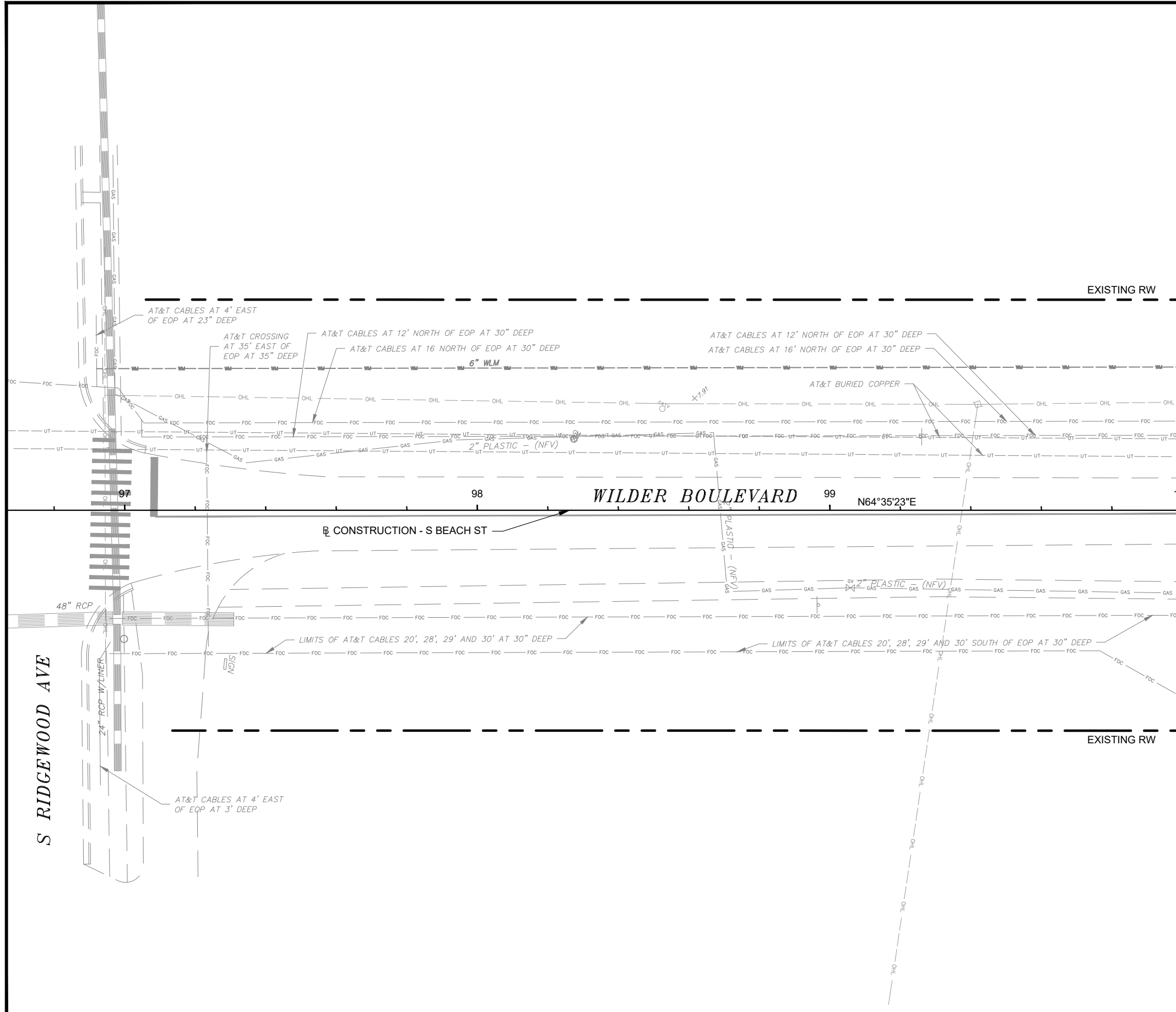
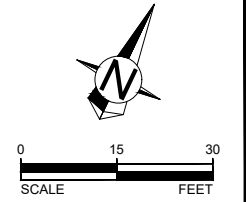


SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

TYPICAL SECTION

SHEET NO.
07 of 65

TRAIL DESIGN SPEED = 18 MPH

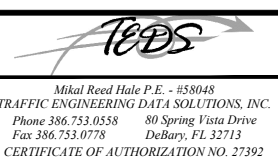


MATCHLINE STA - 100+00

| REVISIONS | | |
|------------|-----|--|
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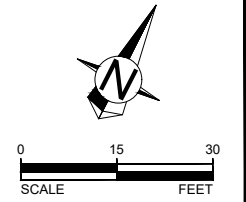
CITY OF
DAYTONA BEACH



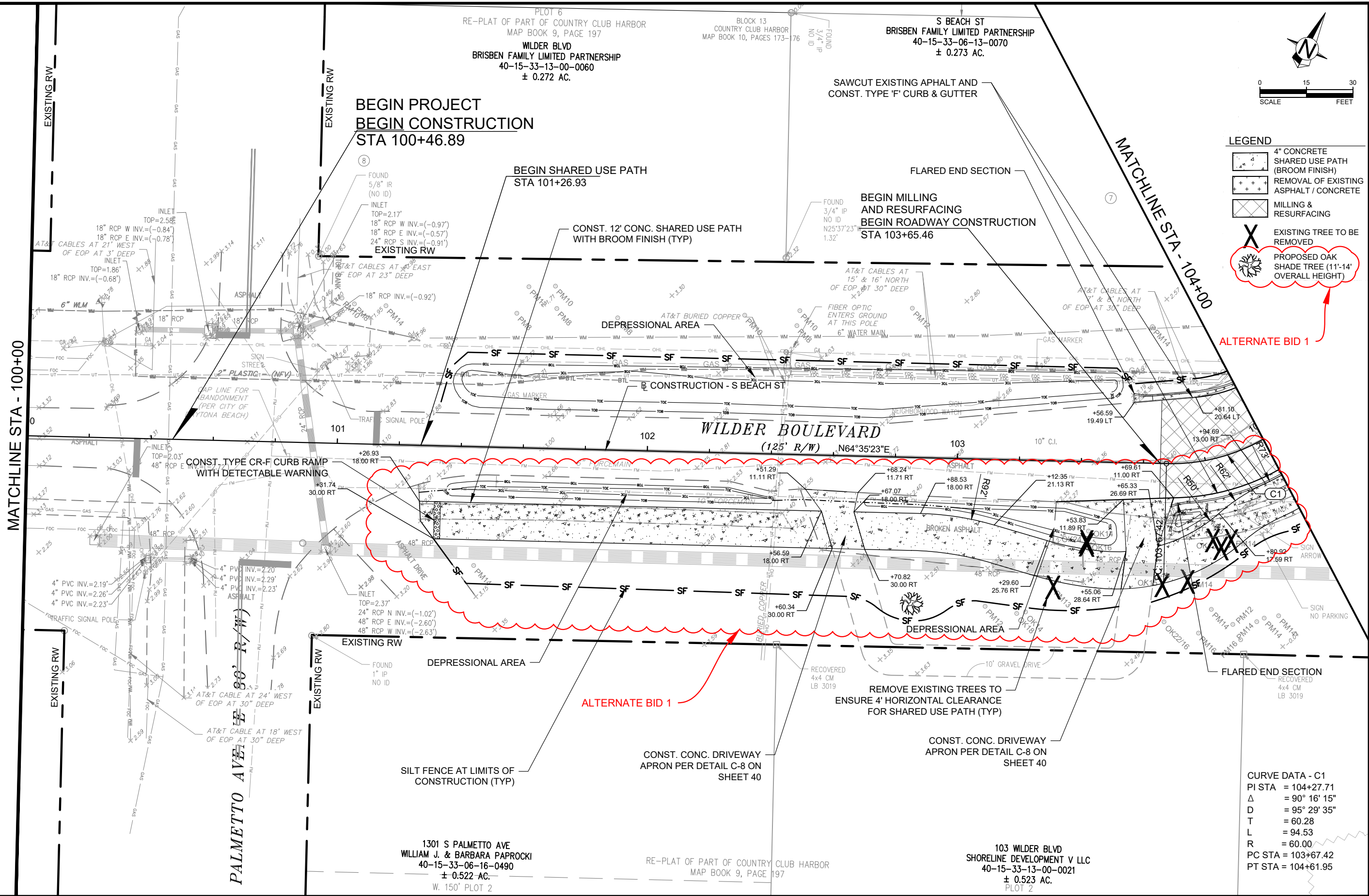
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

PLAN VIEW

SHEET NO.
09A of 65



- LEGEND**
- 4" CONCRETE SHARED USE PATH (BROOM FINISH)
 - REMOVAL OF EXISTING ASPHALT / CONCRETE
 - MILLING & RESURFACING
 - EXISTING TREE TO BE REMOVED
 - PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT)



CURVE DATA - C1
 PI STA = 104+27.71
 Δ = 90° 16' 15"
 D = 95° 29' 35"
 T = 60.28
 L = 94.53
 R = 60.00
 PC STA = 103+67.42
 PT STA = 104+61.95

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
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| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

CITY OF DAYTONA BEACH

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 CERTIFICATE OF AUTHORIZATION NO. 27392

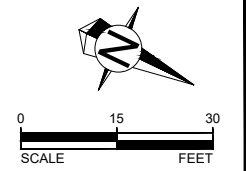
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

PLAN VIEW

SHEET NO.
09B of 65

RE-PLAT OF PART OF COUNTRY CLUB HARBOR
 MAP BOOK 9, PAGE 197
 PLOT 5
 S. BEACH ST.
 BRISBEN FAMILY LIMITED PARTNERSHIP
 40-15-33-05-01-0090
 ± 3.018 AC.

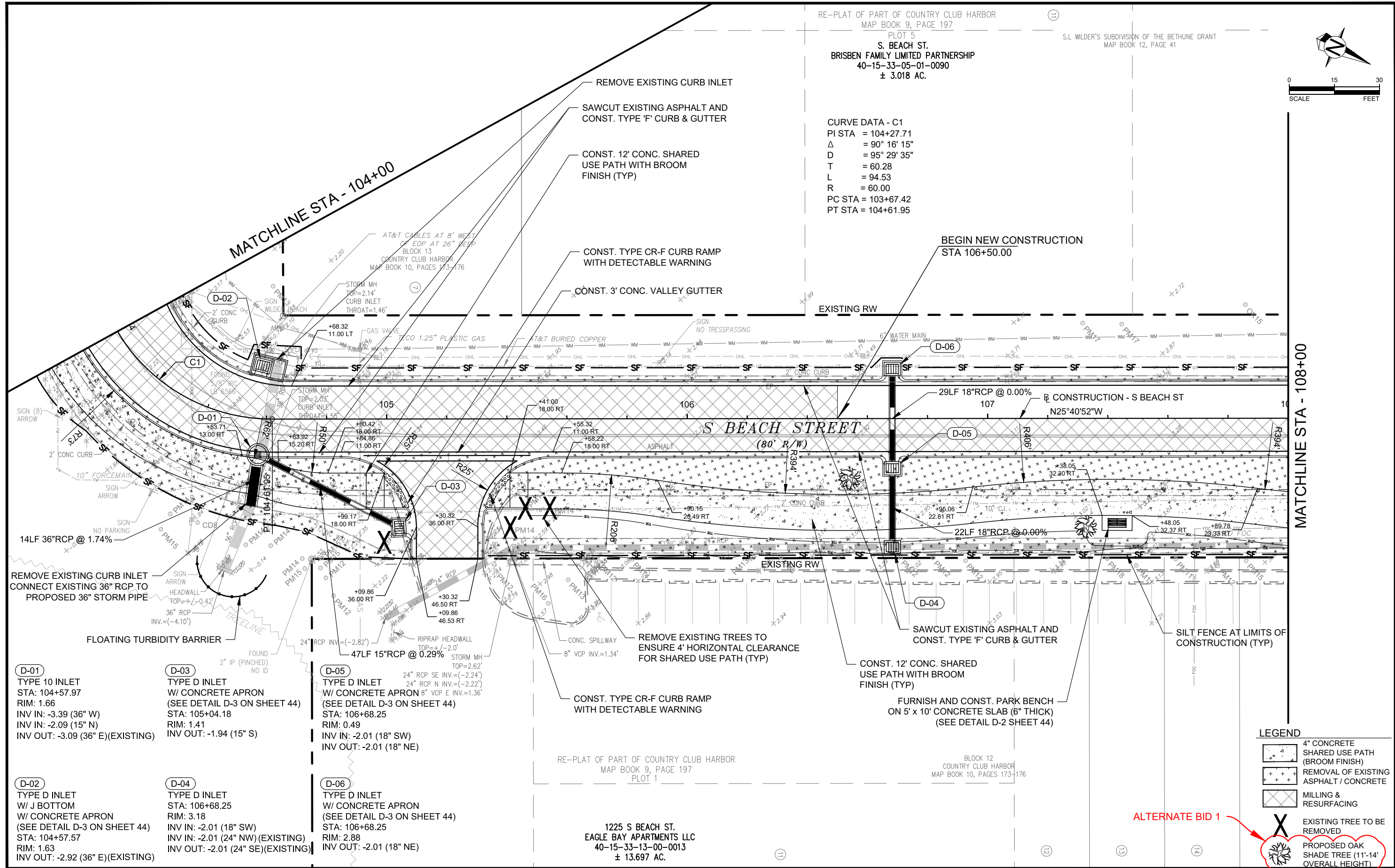
S.L. WILDER'S SUBDIVISION OF THE BETHUNE GRANT
 MAP BOOK 12, PAGE 41



CURVE DATA - C1
 PI STA = 104+27.71
 Δ = 90° 16' 15"
 D = 95° 29' 35"
 T = 60.28
 L = 94.53
 R = 60.00
 PC STA = 103+67.42
 PT STA = 104+61.95

MATCHLINE STA - 104+00

MATCHLINE STA - 108+00



D-01
 TYPE 10 INLET
 STA: 104+57.97
 RIM: 1.66
 INV IN: -3.39 (36" W)
 INV IN: -2.09 (15" N)
 INV OUT: -3.09 (36" E)(EXISTING)

D-03
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 105+04.18
 RIM: 1.41
 INV OUT: -1.94 (15" S)

D-05
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 106+68.25
 RIM: 0.49
 INV IN: -2.01 (18" SW)
 INV OUT: -2.01 (18" NE)

D-02
 TYPE D INLET
 W/ J BOTTOM
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 104+57.57
 RIM: 1.63
 INV OUT: -2.92 (36" E)(EXISTING)

D-04
 TYPE D INLET
 STA: 106+68.25
 RIM: 3.18
 INV IN: -2.01 (18" SW)
 INV IN: -2.01 (24" NW)(EXISTING)
 INV OUT: -2.01 (24" SE)(EXISTING)

D-06
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 106+68.25
 RIM: 2.88
 INV OUT: -2.01 (18" NE)

LEGEND

| | |
|--|--|
| | 4" CONCRETE SHARED USE PATH (BROOM FINISH) |
| | REMOVAL OF EXISTING ASPHALT / CONCRETE |
| | MILLING & RESURFACING |
| | EXISTING TREE TO BE REMOVED |
| | PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT) |

REVISIONS

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| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

CITY OF DAYTONA BEACH

FEEDS
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 CERTIFICATE OF AUTHORIZATION NO. 27392

SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

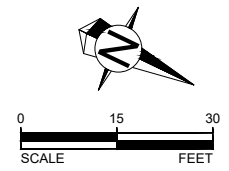
PLAN VIEW

SHEET NO.
10 of 65

RE-PLAT OF PART OF COUNTRY CLUB HARBOR
 MAP BOOK 9, PAGE 197
 PLOT 5
 S. BEACH ST.
 BRISBEN FAMILY LIMITED PARTNERSHIP
 40-15-33-05-01-0090
 ± 3.018 AC.
 S.L. WILDER'S SUBDIVISION OF THE BETHUNE GRANT
 MAP BOOK 12, PAGE 41

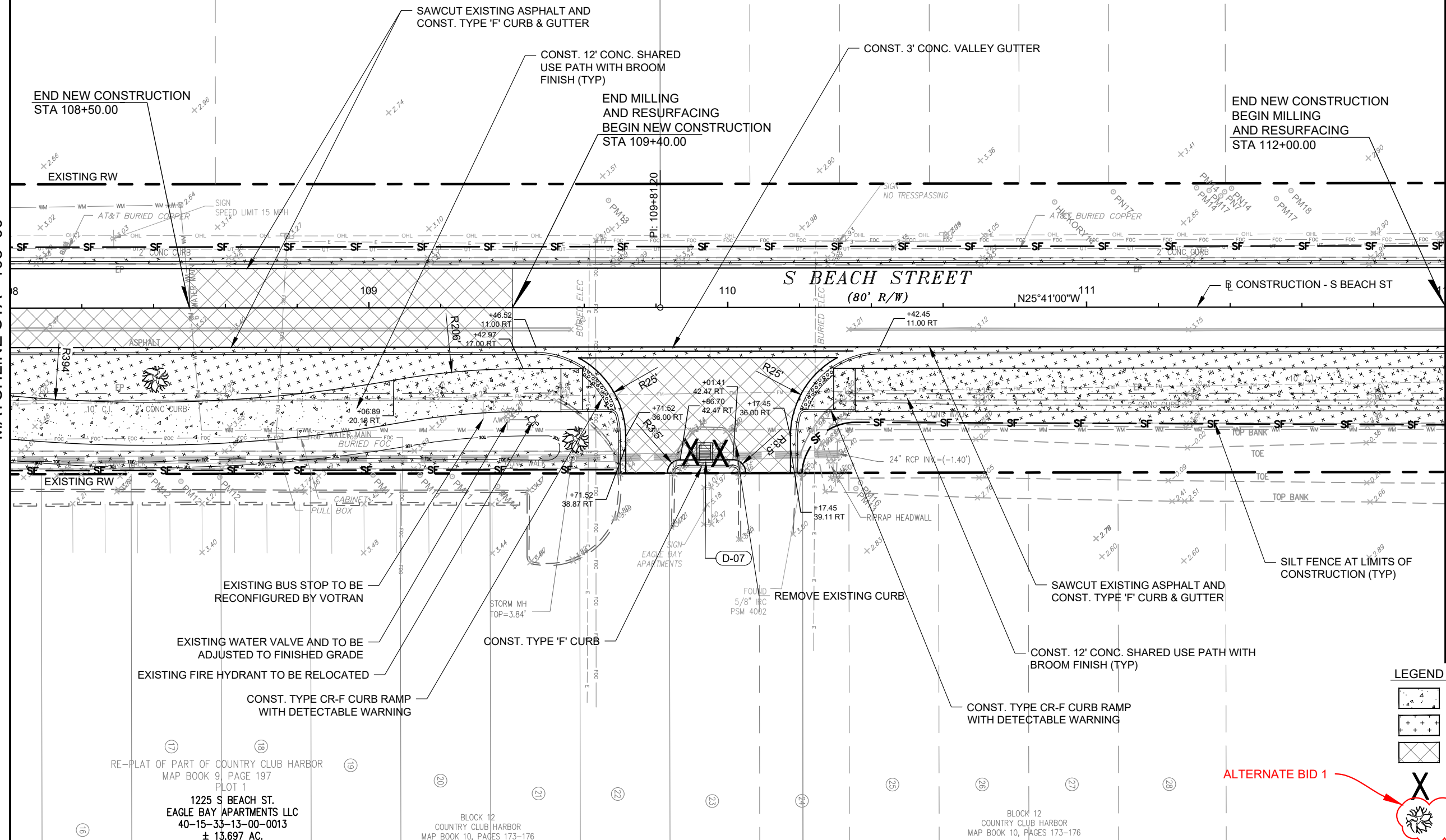
BLOCK 13
 COUNTRY CLUB HARBOR
 MAP BOOK 10, PAGES 173-176

D-07
 TYPE D INLET
 STA: 109+93.55
 RIM: 3.10
 INV IN: -1.46 (24" NW)(EXISTING)
 INV OUT: -1.46 (24" S)(EXISTING)



MATCHLINE STA - 108+00

MATCHLINE STA - 112+00



RE-PLAT OF PART OF COUNTRY CLUB HARBOR
 MAP BOOK 9, PAGE 197
 PLOT 1
 1225 S BEACH ST.
 EAGLE BAY APARTMENTS LLC
 40-15-33-13-00-0013
 ± 13.697 AC.

BLOCK 12
 COUNTRY CLUB HARBOR
 MAP BOOK 10, PAGES 173-176

BLOCK 12
 COUNTRY CLUB HARBOR
 MAP BOOK 10, PAGES 173-176

LEGEND

| | |
|--|--|
| | 4" CONCRETE SHARED USE PATH (BROOM FINISH) |
| | REMOVAL OF EXISTING ASPHALT / CONCRETE |
| | MILLING & RESURFACING |
| | EXISTING TREE TO BE REMOVED |
| | PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT) |

ALTERNATE BID 1

| REVISIONS | | |
|------------|-----|--|
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CITY OF DAYTONA BEACH

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 CERTIFICATE OF AUTHORIZATION NO. 27392

SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

PLAN VIEW

SHEET NO.
 11 of 65

RE-PLAT OF PART OF COUNTRY CLUB HARBOR
 MAP BOOK 9, PAGE 197
 PLOT 5
 S. BEACH ST.
 BRISBEN FAMILY LIMITED PARTNERSHIP
 40-15-33-05-01-0050
 ± 5.024 AC.
 BLOCK 6
 COUNTRY CLUB HARBOR
 MAP BOOK 10, PAGES 173-176

D-08
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 113+04.11
 RIM: 2.39
 INV IN: 0.36 (15" NE)(EXISTING)
 INV IN: 0.36 (15" W)(EXISTING)

D-09
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 113+04.11
 RIM: 2.39
 INV IN: 0.20 (15" E)(EXISTING)
 INV OUT: 0.28 (15" SW)

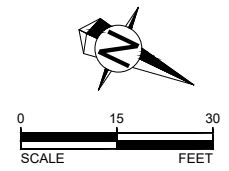
D-10
 MANHOLE TYPE P-7
 STA: 112+98.50
 RIM: 3.00
 INV IN: -0.40 (15" NW)
 INV OUT: 0.00 (15" W)
 INV OUT: -0.40 (18" E)

D-11
 TYPE C INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 114+10.18
 RIM: 2.47
 INV IN: -0.40 (15" NW)
 INV OUT: -0.40 (15" SE)

D-12
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 115+70.00
 RIM: 3.11
 INV OUT: -0.40 (15" NE)

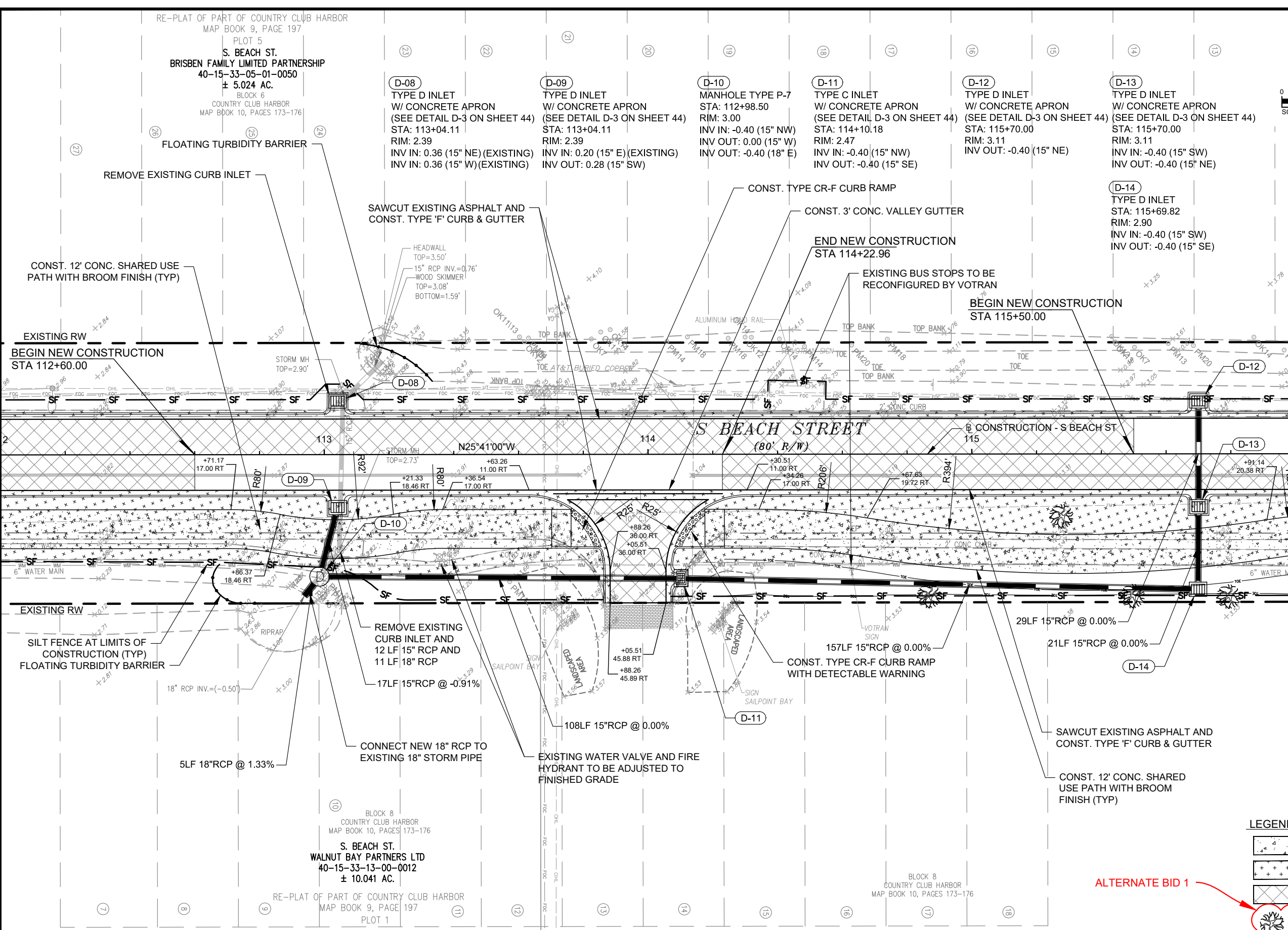
D-13
 TYPE D INLET
 W/ CONCRETE APRON
 (SEE DETAIL D-3 ON SHEET 44)
 STA: 115+70.00
 RIM: 3.11
 INV IN: -0.40 (15" SW)
 INV OUT: -0.40 (15" NE)

D-14
 TYPE D INLET
 STA: 115+69.82
 RIM: 2.90
 INV IN: -0.40 (15" SW)
 INV OUT: -0.40 (15" SE)



MATCHLINE STA - 112+00

MATCHLINE STA - 116+00



CONST. 12' CONC. SHARED USE PATH WITH BROOM FINISH (TYP)
 BEGIN NEW CONSTRUCTION STA 112+60.00

SAWCUT EXISTING ASPHALT AND CONST. TYPE 'F' CURB & GUTTER

CONST. TYPE CR-F CURB RAMP
 CONST. 3' CONC. VALLEY GUTTER

END NEW CONSTRUCTION STA 114+22.96

BEGIN NEW CONSTRUCTION STA 115+50.00

SILT FENCE AT LIMITS OF CONSTRUCTION (TYP)
 FLOATING TURBIDITY BARRIER

REMOVE EXISTING CURB INLET AND 12 LF 15" RCP AND 11 LF 18" RCP

CONST. TYPE CR-F CURB RAMP WITH DETECTABLE WARNING

SAWCUT EXISTING ASPHALT AND CONST. TYPE 'F' CURB & GUTTER

CONST. 12' CONC. SHARED USE PATH WITH BROOM FINISH (TYP)

LEGEND

| | |
|--|--|
| | 4" CONCRETE SHARED USE PATH (BROOM FINISH) |
| | REMOVAL OF EXISTING ASPHALT / CONCRETE |
| | MILLING & RESURFACING |
| | PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT) |

ALTERNATE BID 1

| REVISIONS | | |
|------------|-----|--|
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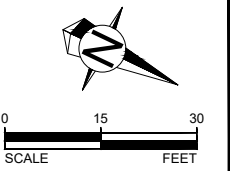
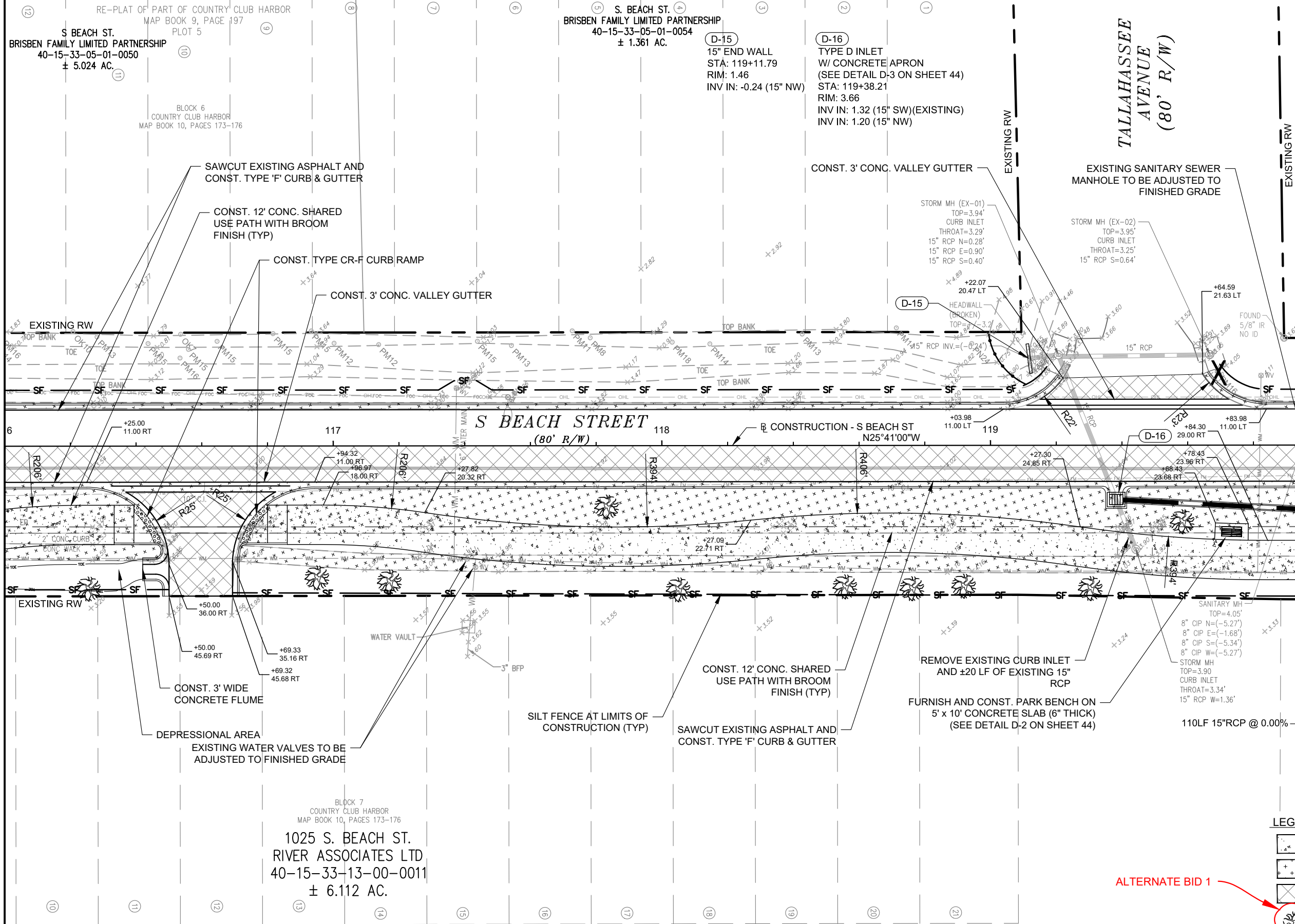
CITY OF DAYTONA BEACH

AEDS
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SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

PLAN VIEW

SHEET NO.
 12 of 65



MATCHLINE STA - 116+00

MATCHLINE STA - 120+00

RE-PLAT OF PART OF COUNTRY CLUB HARBOR
MAP BOOK 9, PAGE 197
PLOT 5
S BEACH ST.
BRISBEN FAMILY LIMITED PARTNERSHIP
40-15-33-05-01-0050
± 5.024 AC.

BLOCK 6
COUNTRY CLUB HARBOR
MAP BOOK 10, PAGES 173-176

S. BEACH ST.
BRISBEN FAMILY LIMITED PARTNERSHIP
40-15-33-05-01-0054
± 1.361 AC.

D-15
15" END WALL
STA: 119+11.79
RIM: 1.46
INV IN: -0.24 (15" NW)

D-16
TYPE D INLET
W/ CONCRETE APRON
(SEE DETAIL D-3 ON SHEET 44)
STA: 119+38.21
RIM: 3.66
INV IN: 1.32 (15" SW)(EXISTING)
INV IN: 1.20 (15" NW)

TALLAHASSEE AVENUE (80' R/W)

EXISTING RW

SAWCUT EXISTING ASPHALT AND CONST. TYPE 'F' CURB & GUTTER

CONST. 12' CONC. SHARED USE PATH WITH BROOM FINISH (TYP)

CONST. TYPE CR-F CURB RAMP

CONST. 3' CONC. VALLEY GUTTER

CONST. 3' CONC. VALLEY GUTTER

STORM MH (EX-01)
TOP=3.94'
CURB INLET
THROAT=3.29'
15" RCP N=0.28'
15" RCP E=0.90'
15" RCP S=0.40'

STORM MH (EX-02)
TOP=3.95'
CURB INLET
THROAT=3.25'
15" RCP S=0.64'

EXISTING SANITARY SEWER MANHOLE TO BE ADJUSTED TO FINISHED GRADE

FOUND 5/8" IR NO ID

HEADWALL (BROKEN)
TOP=-0.24'
15" RCP INV.=-0.24'

20.47 LT
+22.07
+20.47

15" RCP

64.59
21.63 LT

117 118 119

S BEACH STREET (80' R/W)

CONSTRUCTION - S BEACH ST N25°41'00"W

D-16
29.00 RT
+84.30
+83.98
11.00 LT

23.96 RT
+78.43
+66.43
23.68 RT

11.00 LT

27.30
24.85 RT

27.09
22.71 RT

3" BFP

WATER VAULT

CONST. 12' CONC. SHARED USE PATH WITH BROOM FINISH (TYP)

REMOVE EXISTING CURB INLET AND ±20 LF OF EXISTING 15" RCP

FURNISH AND CONST. PARK BENCH ON 5' x 10' CONCRETE SLAB (6" THICK) (SEE DETAIL D-2 ON SHEET 44)

110LF 15"RCP @ 0.00%

SANITARY MH
TOP=4.05'
8" CIP N=(-5.27')
8" CIP E=(-1.68')
8" CIP S=(-5.34')
8" CIP W=(-5.27')

STORM MH
TOP=3.90
CURB INLET
THROAT=3.34'
15" RCP W=1.36'

11.00 RT
+50.00
36.00 RT

36.00 RT

45.00 RT
+50.00
45.69 RT

35.16 RT
+69.33
45.68 RT

DEPRESSIONAL AREA

EXISTING WATER VALVES TO BE ADJUSTED TO FINISHED GRADE

SILT FENCE AT LIMITS OF CONSTRUCTION (TYP)

SAWCUT EXISTING ASPHALT AND CONST. TYPE 'F' CURB & GUTTER

BLOCK 7
COUNTRY CLUB HARBOR
MAP BOOK 10, PAGES 173-176
1025 S. BEACH ST.
RIVER ASSOCIATES LTD
40-15-33-13-00-0011
± 6.112 AC.

LEGEND

| | |
|--|--|
| | 4" CONCRETE SHARED USE PATH (BROOM FINISH) |
| | REMOVAL OF EXISTING ASPHALT / CONCRETE |
| | MILLING & RESURFACING |
| | PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT) |

ALTERNATE BID 1

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
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| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

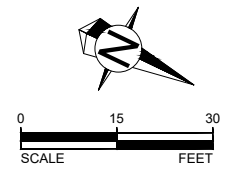
CITY OF DAYTONA BEACH

FEEDS
Mikal Reed Hale P.E. - #58048
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713
CERTIFICATE OF AUTHORIZATION NO. 27392

SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

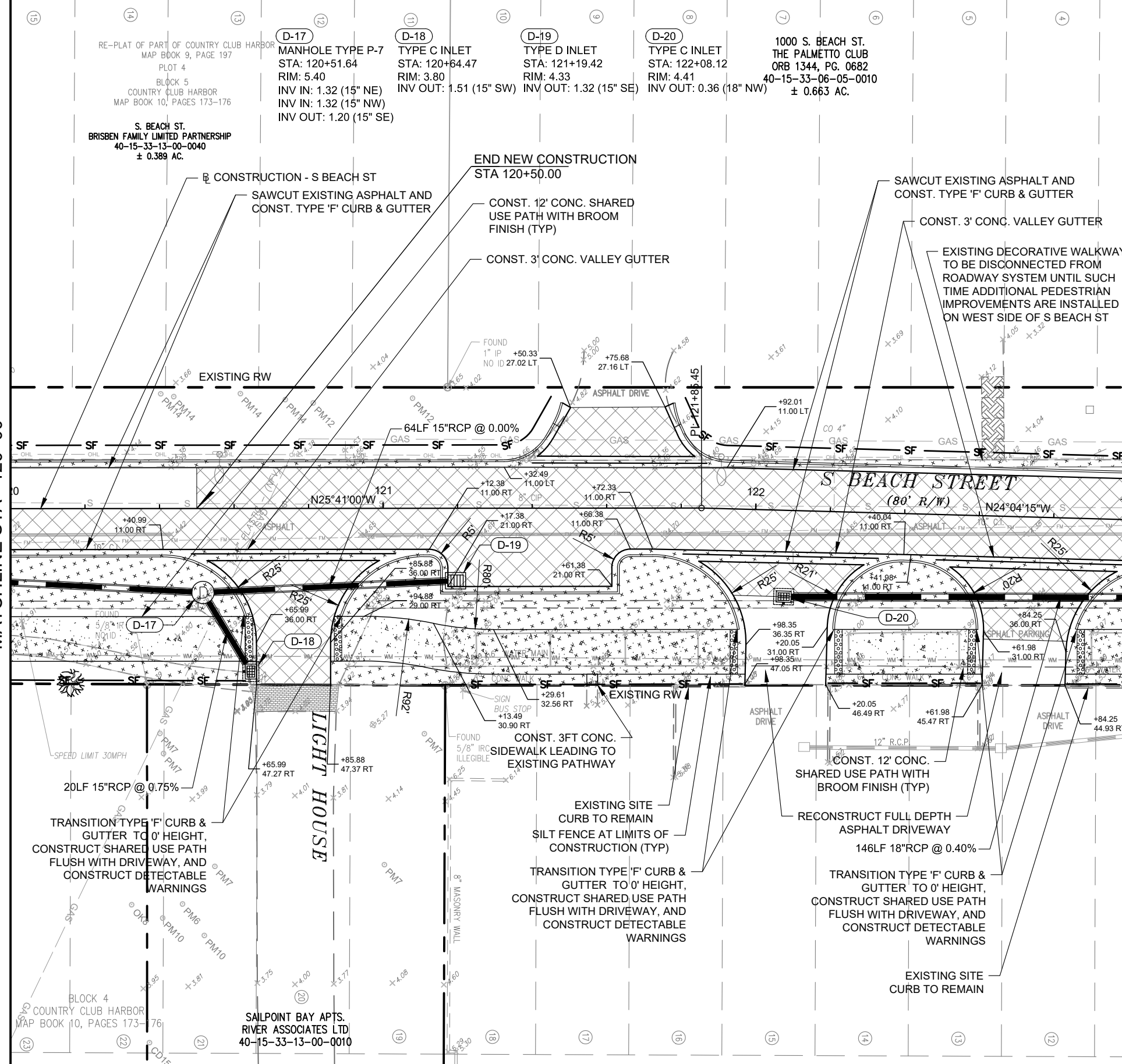
PLAN VIEW

SHEET NO.
13 of 65



MATCHLINE STA - 120+00

MATCHLINE STA - 123+00



LEGEND

| | |
|--|--|
| | 4" CONCRETE |
| | SHARED USE PATH (BROOM FINISH) |
| | REMOVAL OF EXISTING ASPHALT / CONCRETE |
| | MILLING & RESURFACING |
| | PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT) |

ALTERNATE BID 1

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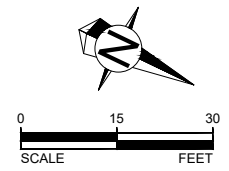
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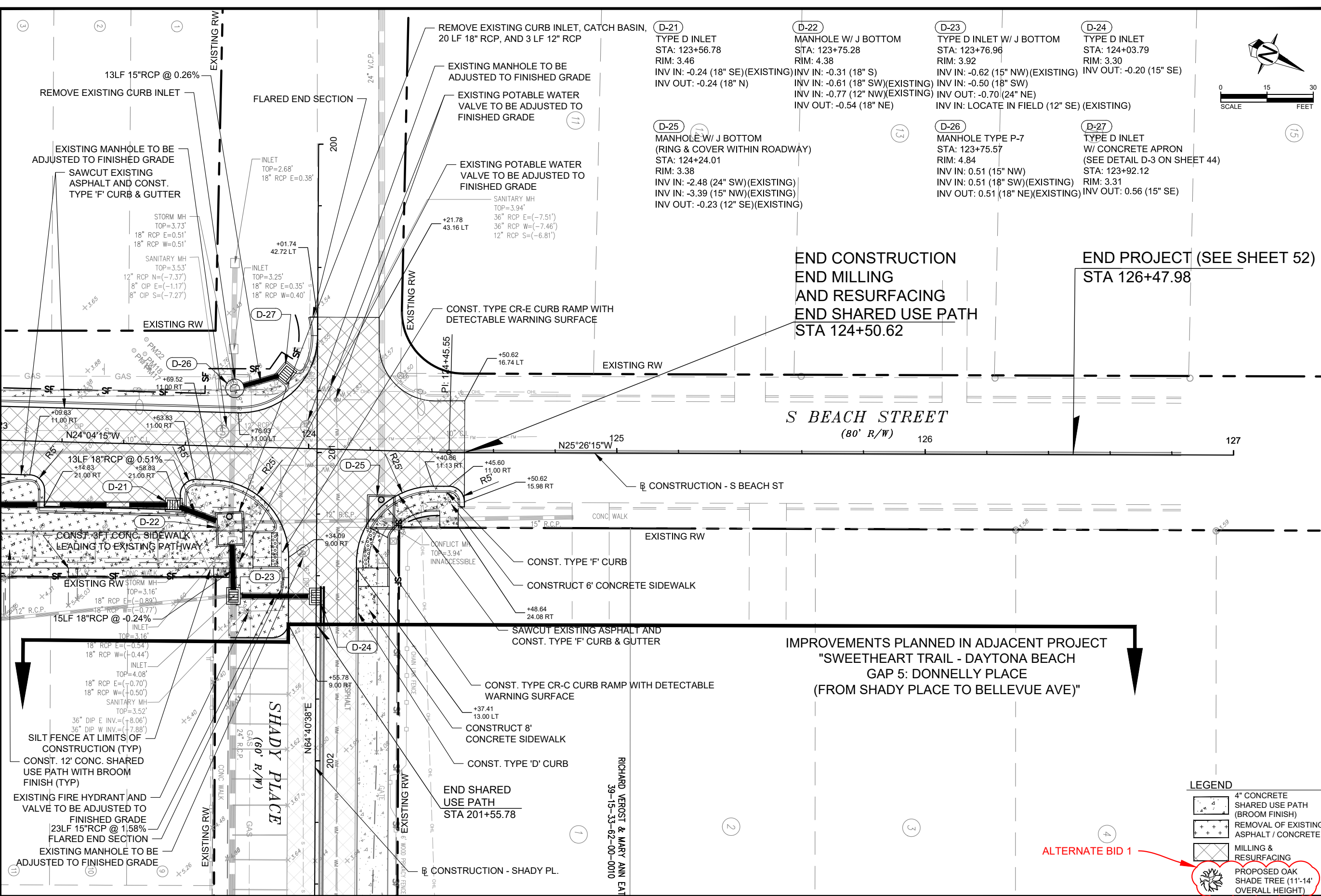
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

PLAN VIEW

SHEET NO.
14 of 65



MATCHLINE STA - 123+00



END CONSTRUCTION
END MILLING
AND RESURFACING
END SHARED USE PATH
STA 124+50.62

END PROJECT (SEE SHEET 52)
STA 126+47.98

IMPROVEMENTS PLANNED IN ADJACENT PROJECT
"SWEETHEART TRAIL - DAYTONA BEACH
GAP 5: DONNELLY PLACE
(FROM SHADY PLACE TO BELLEVUE AVE)"

LEGEND

| | |
|--|--|
| | 4" CONCRETE SHARED USE PATH (BROOM FINISH) |
| | REMOVAL OF EXISTING ASPHALT / CONCRETE |
| | MILLING & RESURFACING |
| | PROPOSED OAK SHADE TREE (11'-14' OVERALL HEIGHT) |

ALTERNATE BID 1

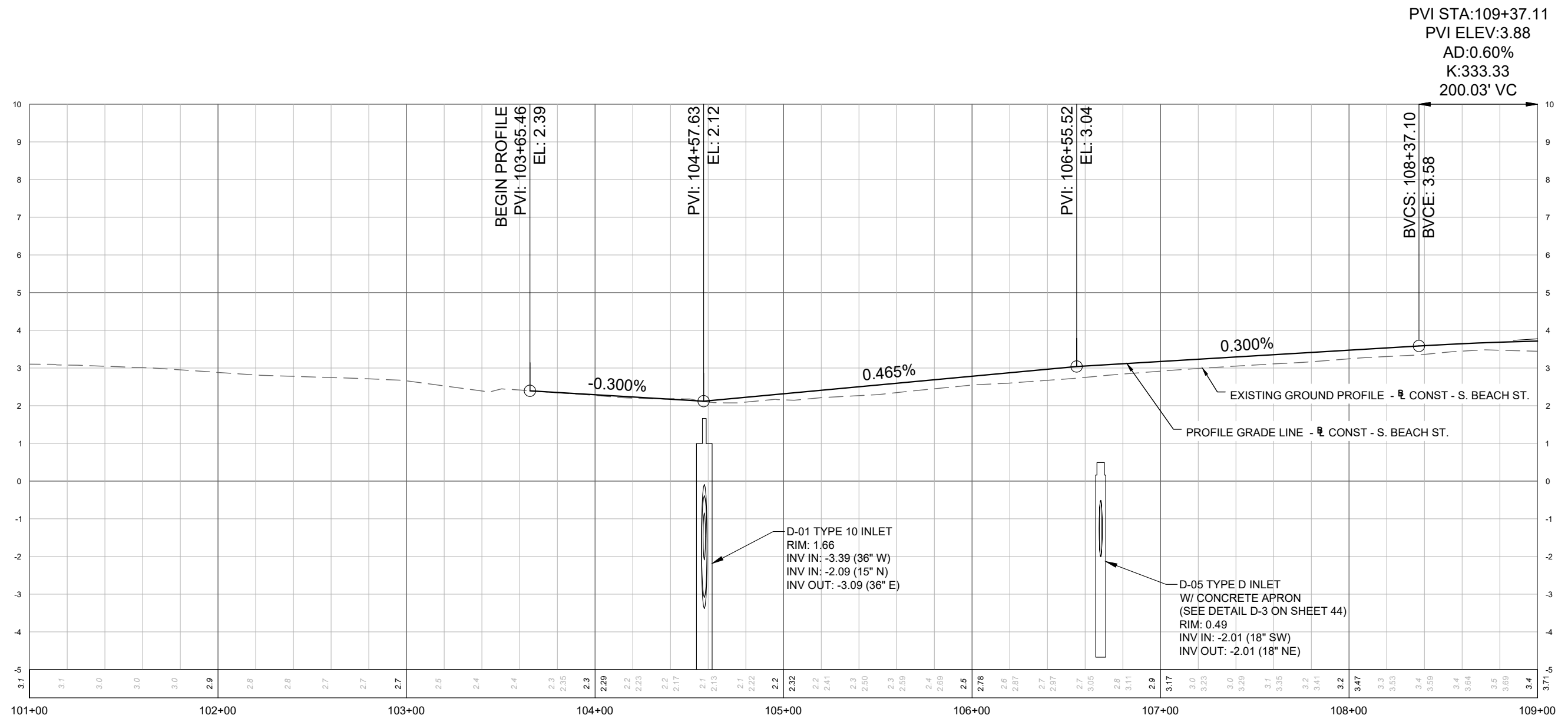
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DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

PLAN VIEW

SHEET NO.
15 of 65

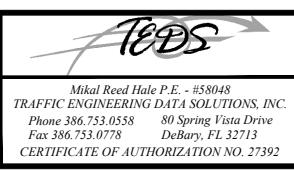


SCALE
H = 1" = 60'
V = 1" = 3'

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CITY OF
DAYTONA BEACH



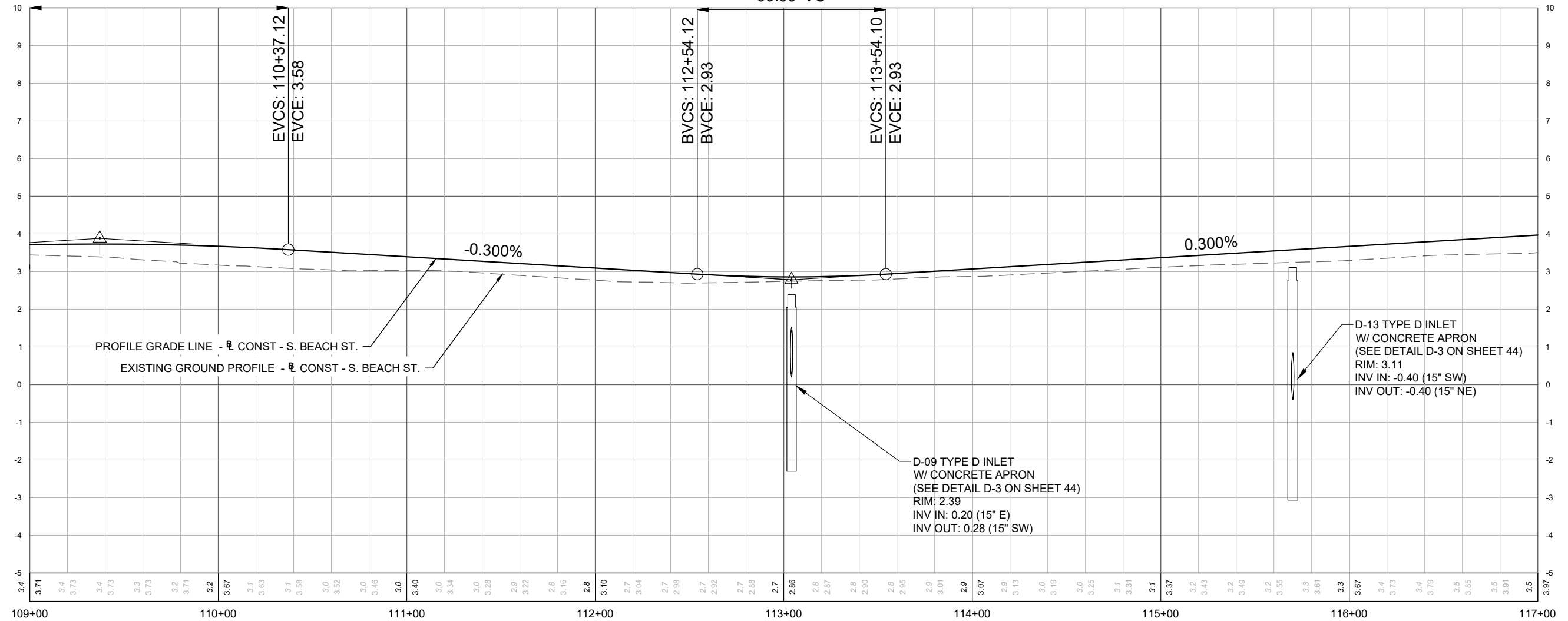
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

ROADWAY PROFILE

SHEET
NO.
18 of 65

HIGH POINT ELEV: 3.73
 HIGH POINT STA: 109+37.12
 PVI STA: 109+37.11
 PVI ELEV: 3.88
 AD: 0.60%
 K: 333.33
 200.03' VC

LOW POINT ELEV: 2.86
 LOW POINT STA: 113+04.12
 PVI STA: 113+04.11
 PVI ELEV: 2.78
 AD: 0.60%
 K: 166.67
 99.99' VC

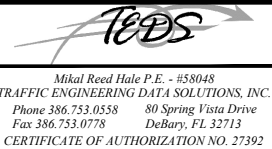


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CITY OF
 DAYTONA BEACH

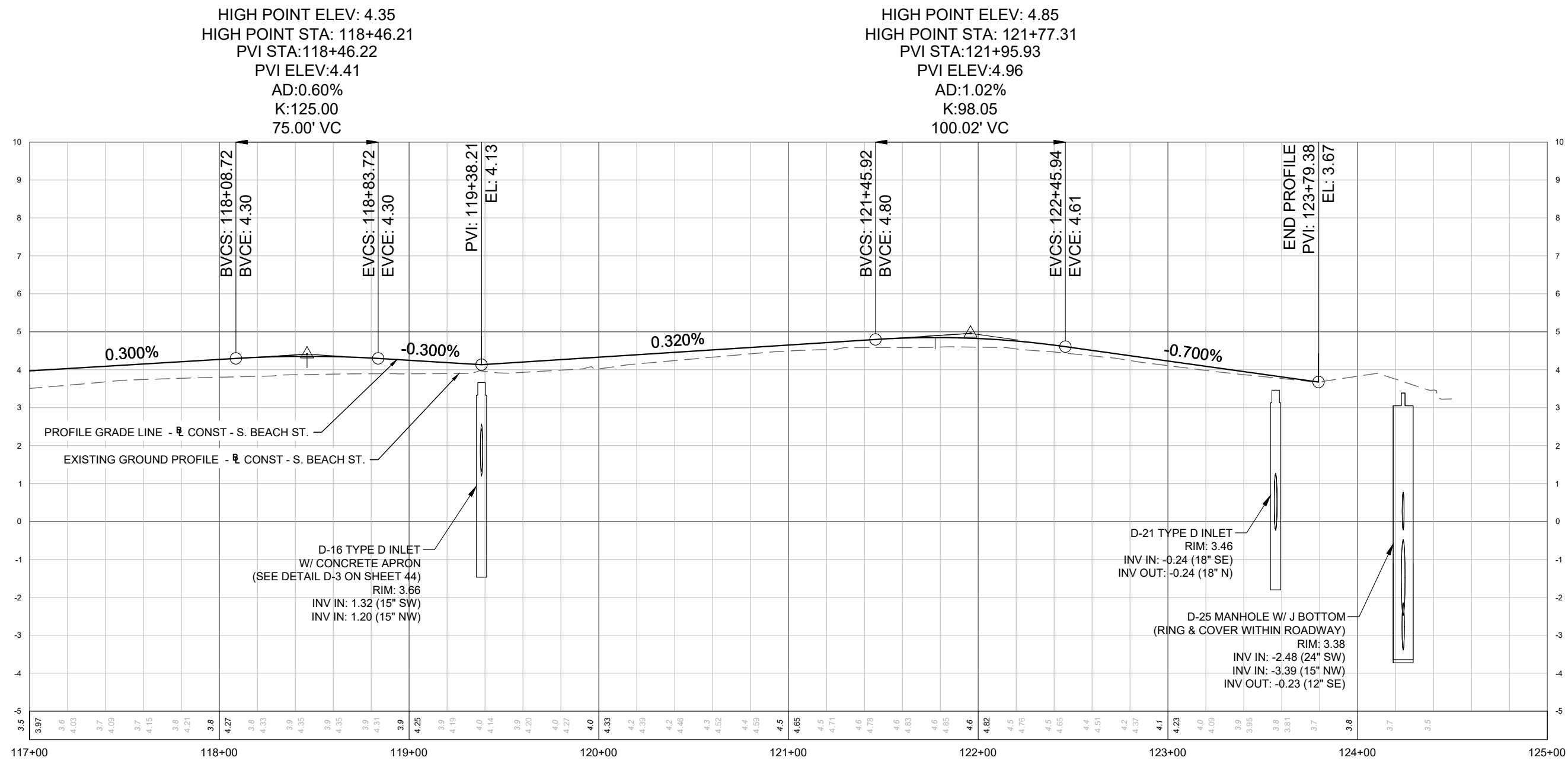


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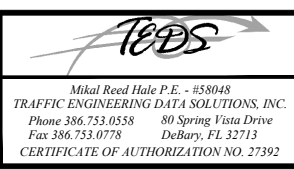
ROADWAY PROFILE

SHEET
 NO.
 19 of 65



SCALE
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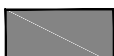
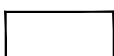





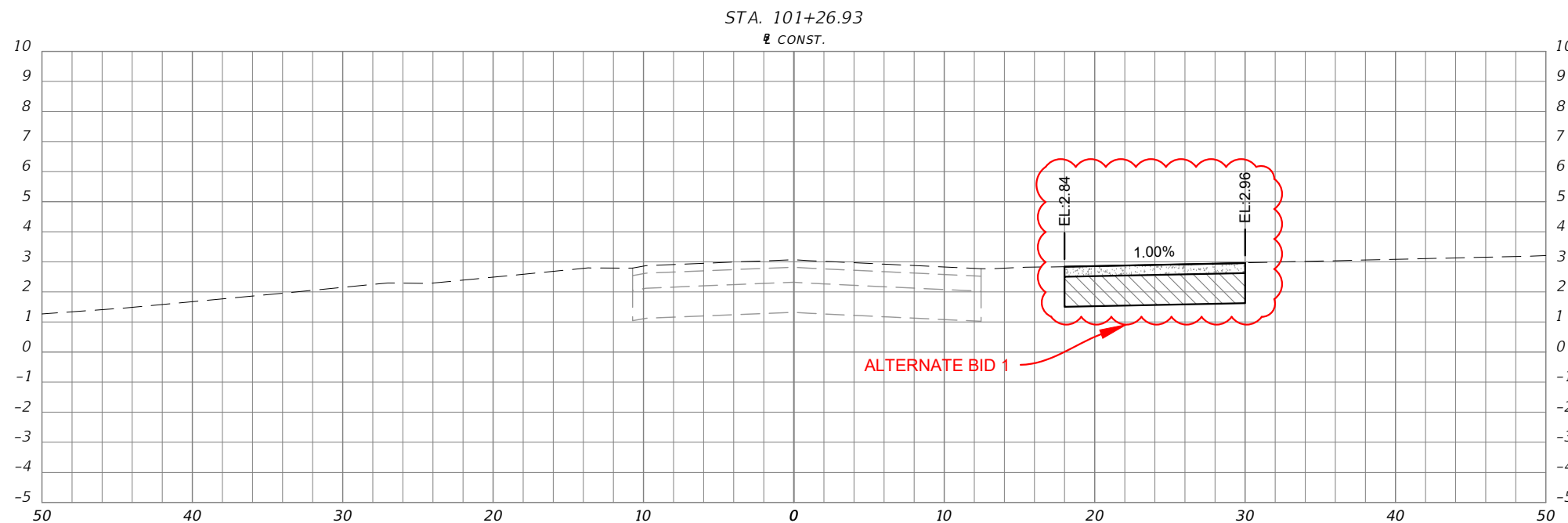
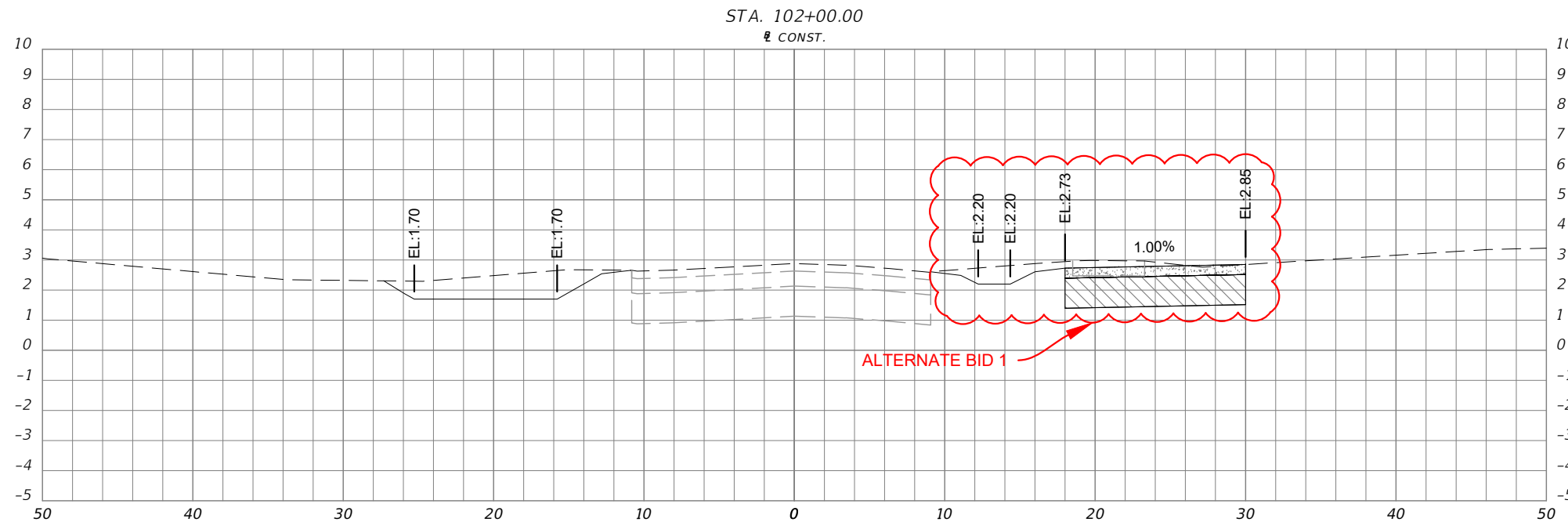
SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

ROADWAY PROFILE

SHEET NO.
 20 of 65

LEGEND
CROSS SECTION SYMBOLS

-  CONCRETE SIDEWALK
-  MILLING
-  RESURFACING/ASPHALT
-  OVERBUILD
-  BASE
-  STABILIZED SUBGRADE
-  PROPOSED GRADE
-  EXISTING GRADE

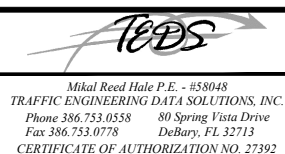


SCALE:
1" = 10' HORIZ.
1" = 5' VERT.

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CITY OF
DAYTONA BEACH







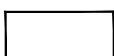



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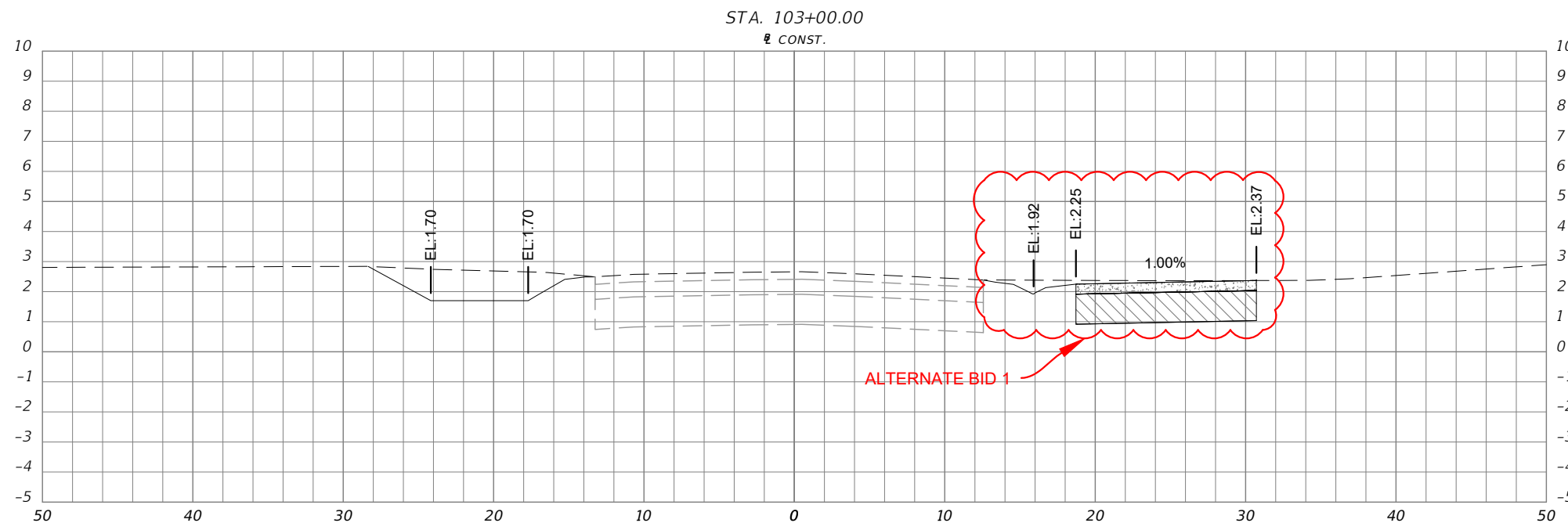
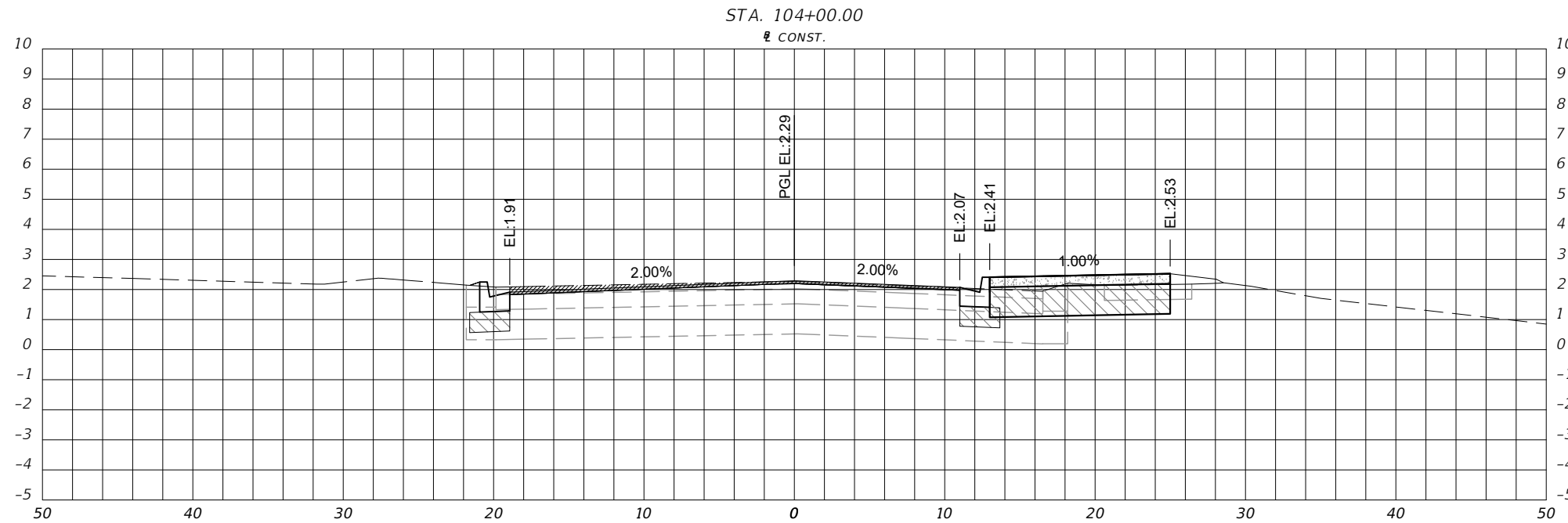
CROSS SECTIONS

SHEET
NO.

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LEGEND
CROSS SECTION SYMBOLS

-  CONCRETE SIDEWALK
-  MILLING
-  RESURFACING/ASPHALT
-  OVERBUILD
-  BASE
-  STABILIZED SUBGRADE
-  PROPOSED GRADE
-  EXISTING GRADE

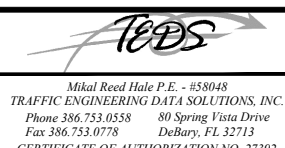


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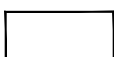



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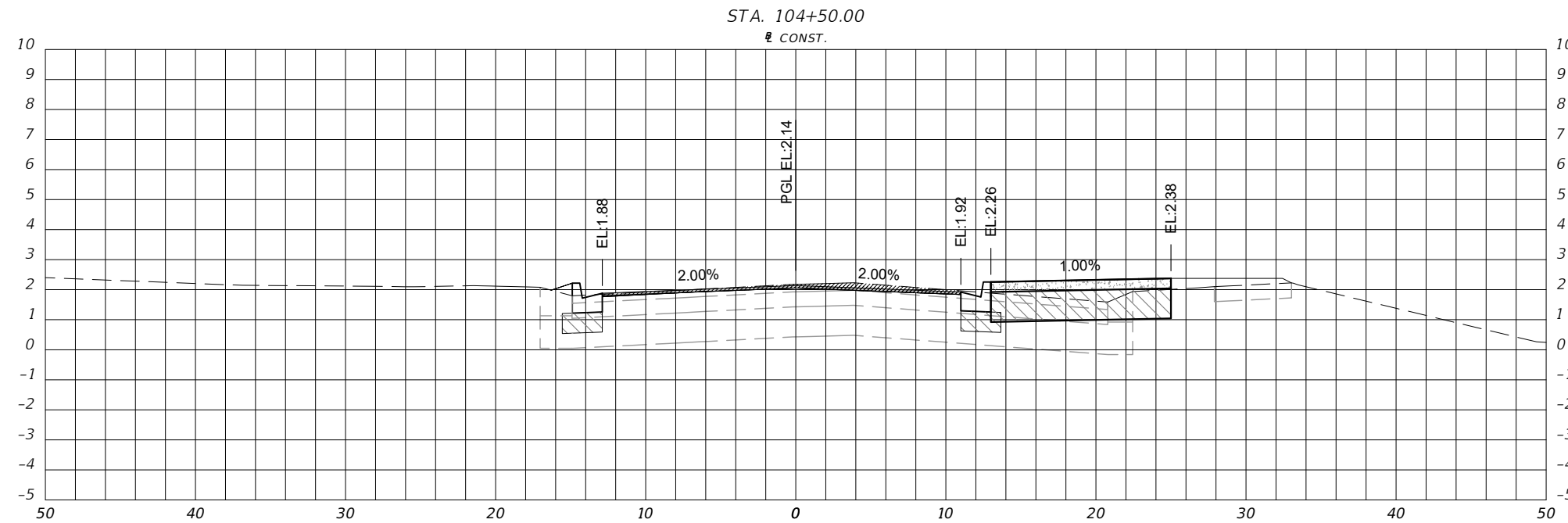
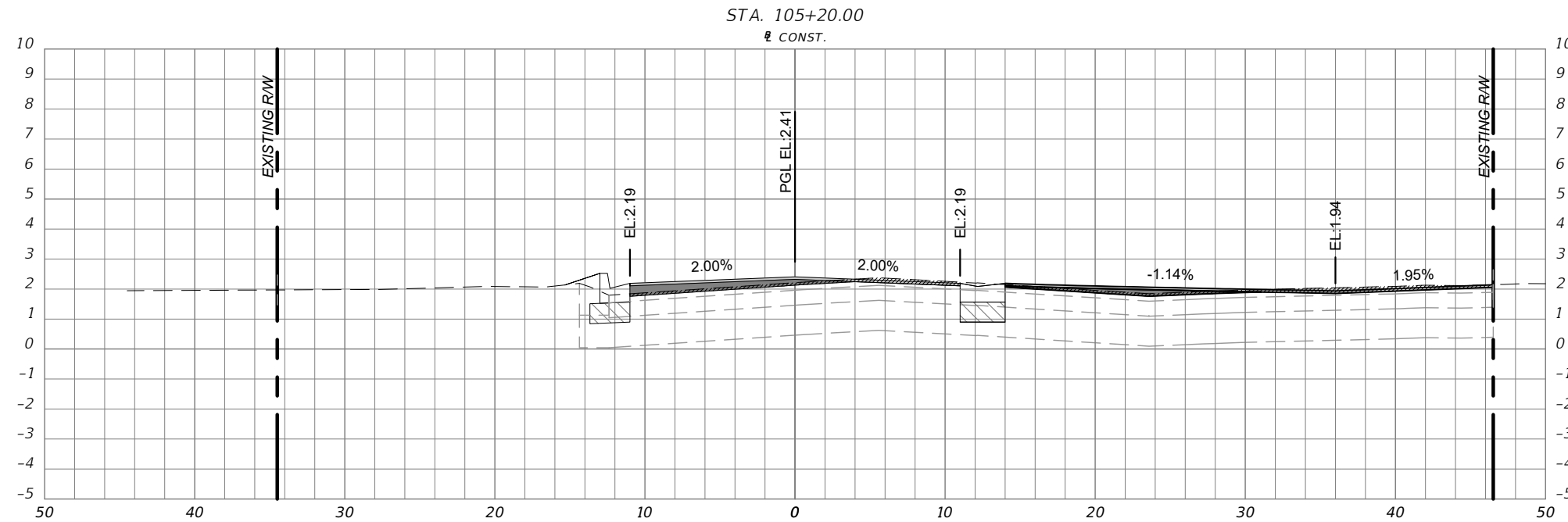
CROSS SECTIONS

SHEET
NO.

22 of 65

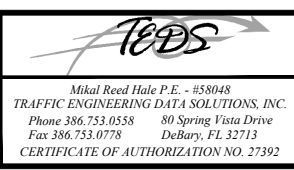
LEGEND
CROSS SECTION SYMBOLS

-  CONCRETE SIDEWALK
-  MILLING
-  RESURFACING/ASPHALT
-  OVERBUILD
-  BASE
-  STABILIZED SUBGRADE
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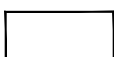





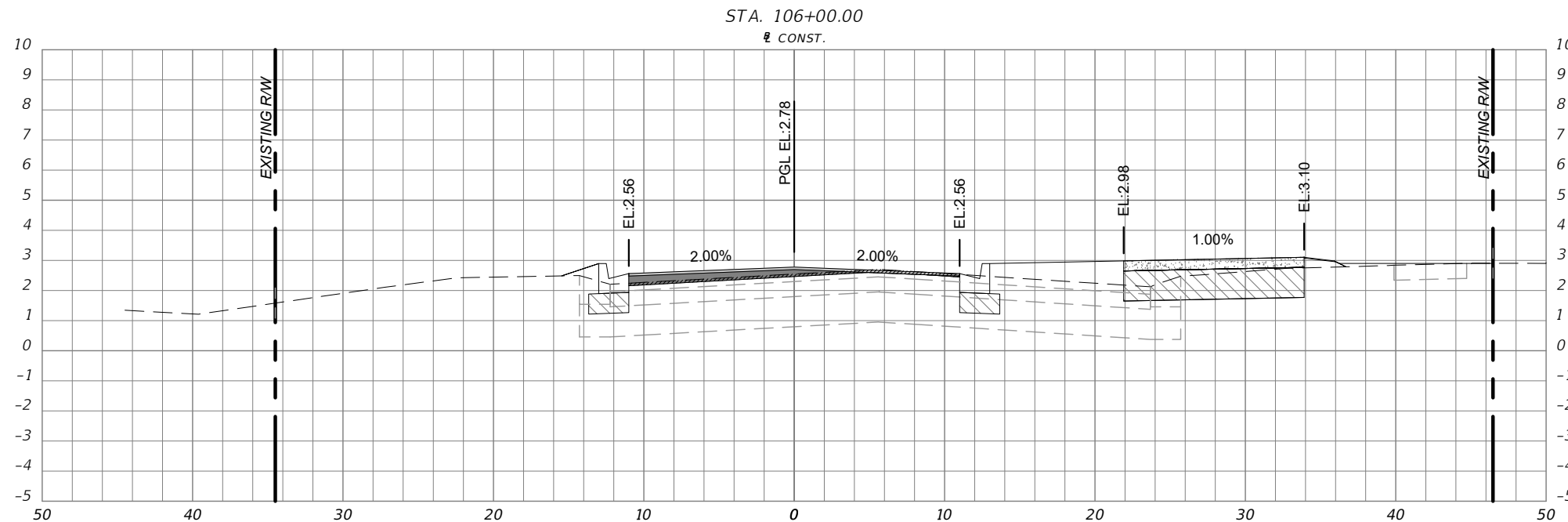
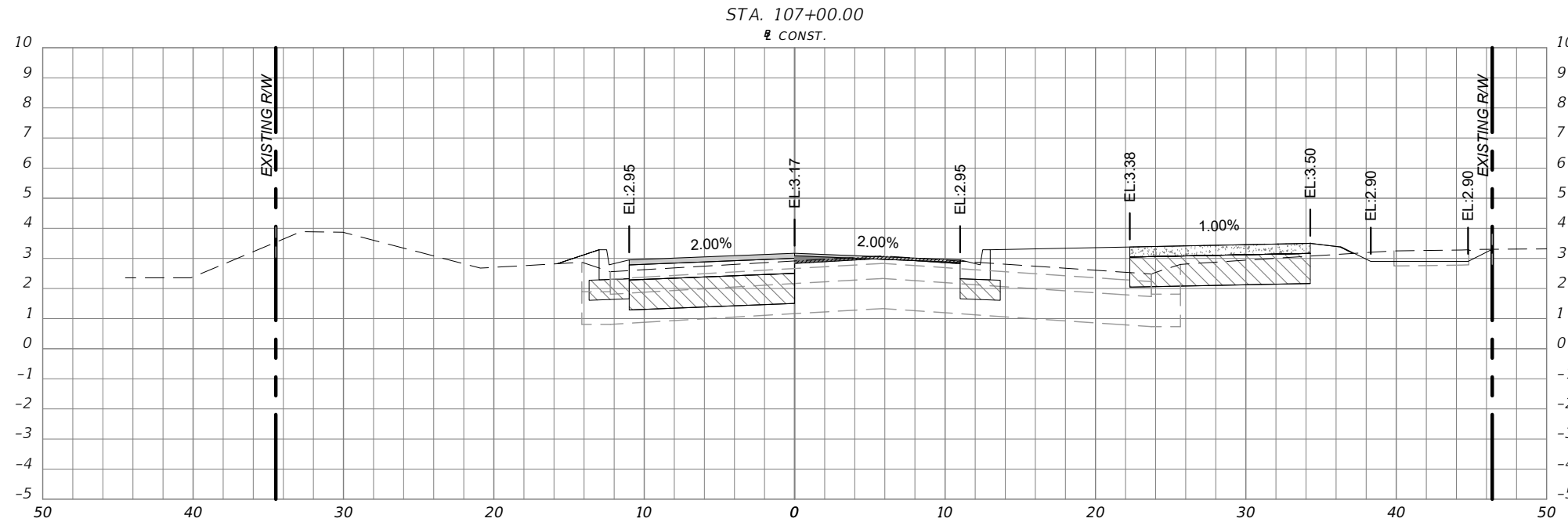
**SWEETHEART TRAIL
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FPID: 439866-1-54-01**

CROSS SECTIONS

SHEET
NO.
23 of 65

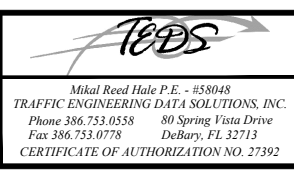
LEGEND
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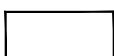





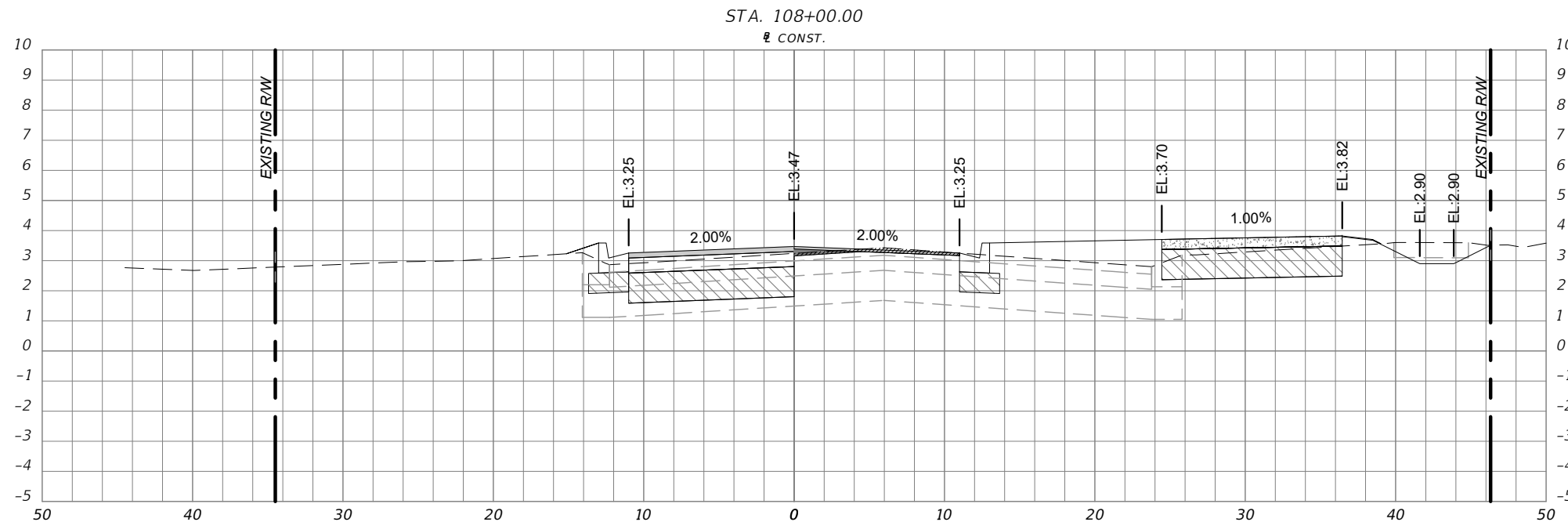
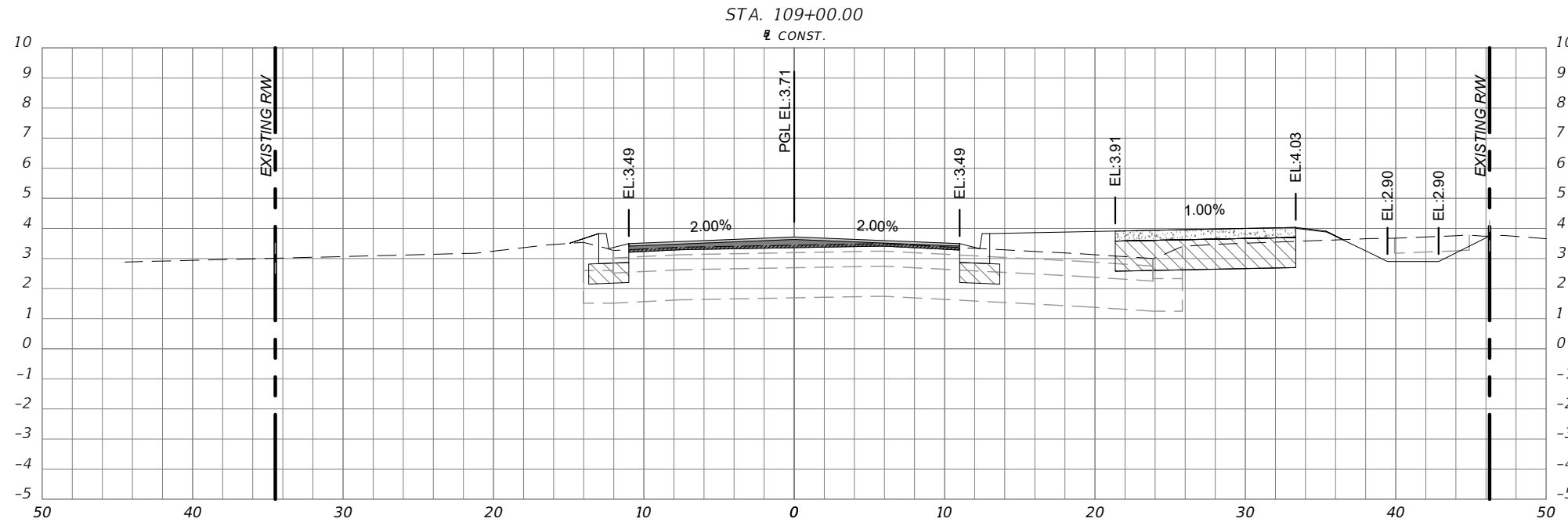
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CROSS SECTIONS

SHEET
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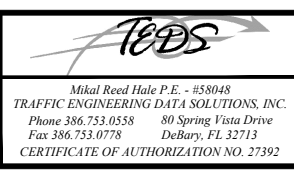
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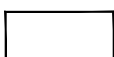





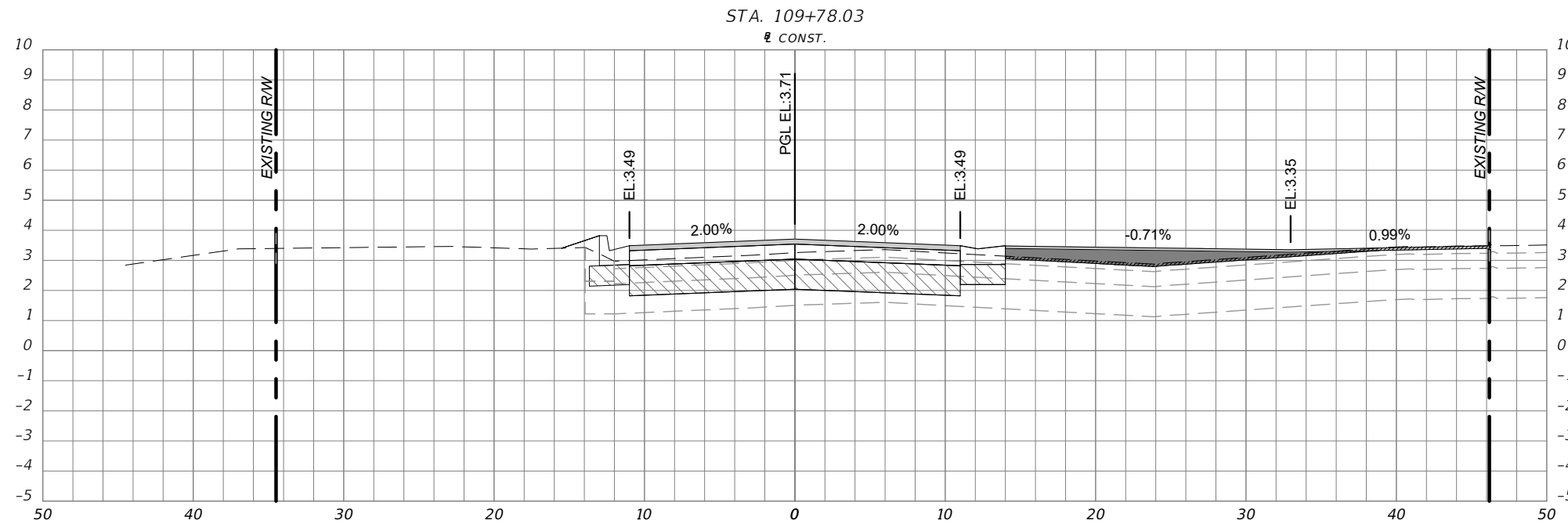
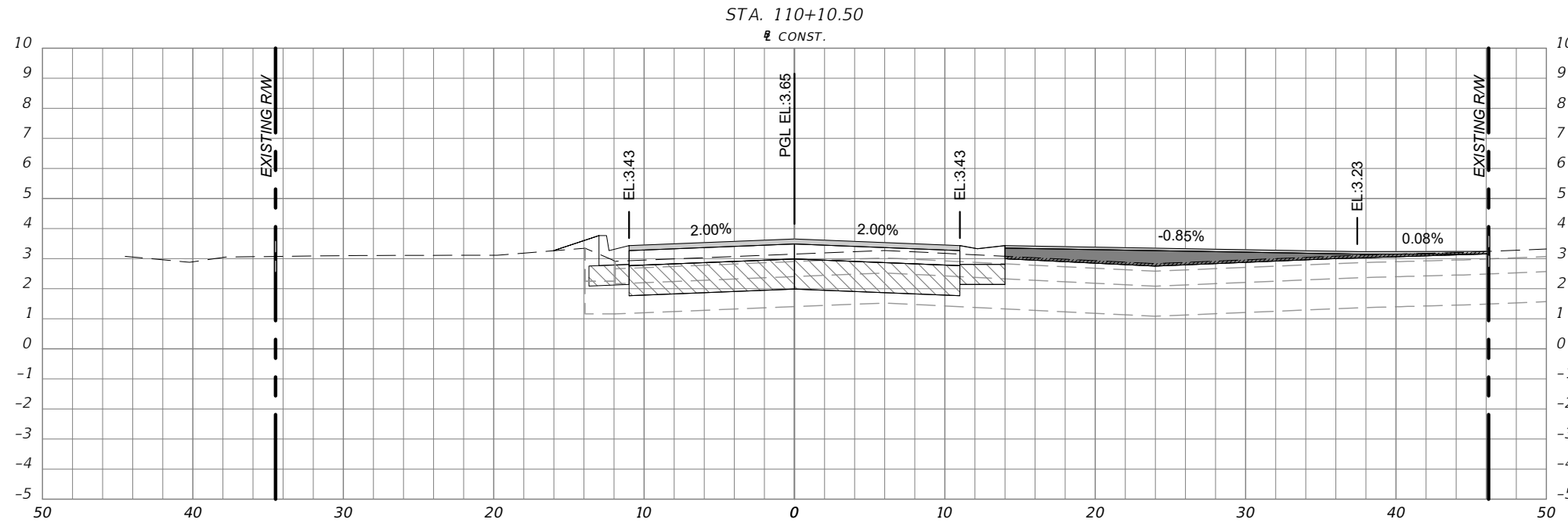
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CROSS SECTIONS

SHEET
NO.
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LEGEND
CROSS SECTION SYMBOLS

-  CONCRETE SIDEWALK
-  MILLING
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-  BASE
-  STABILIZED SUBGRADE
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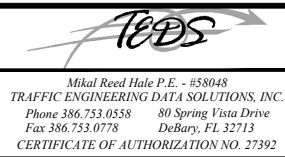


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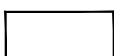



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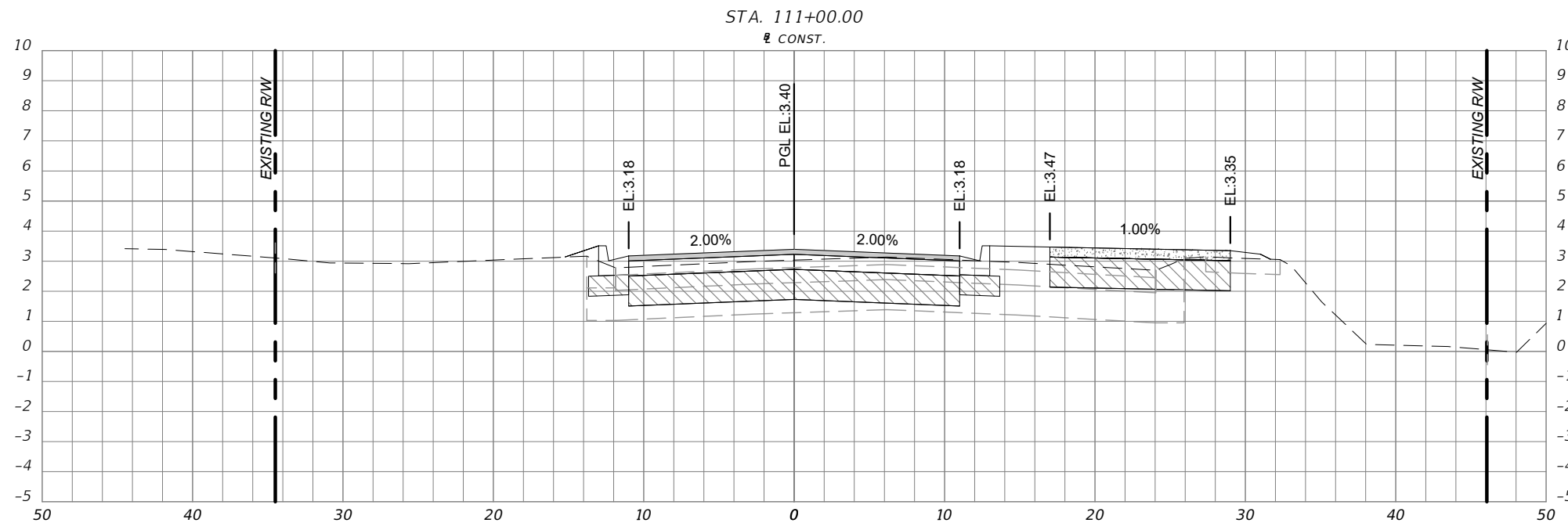
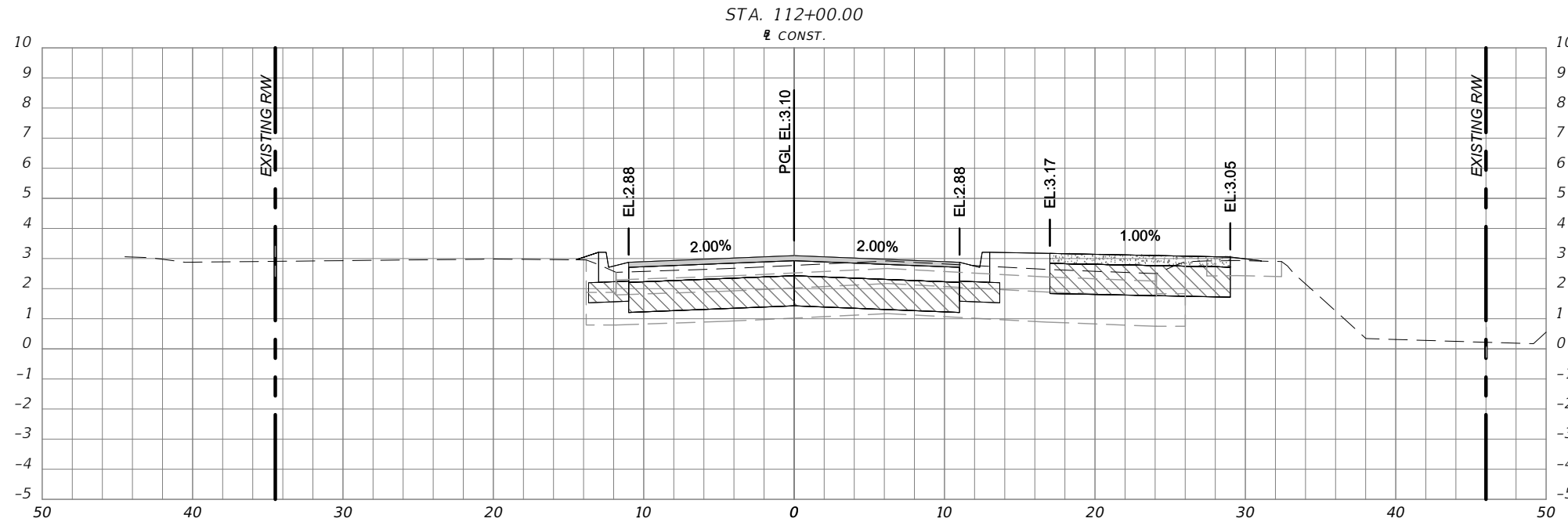
CROSS SECTIONS

SHEET
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LEGEND
CROSS SECTION SYMBOLS

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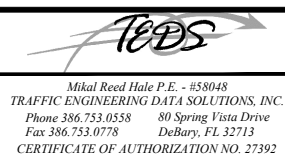


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| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
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CITY OF
DAYTONA BEACH







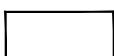



SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

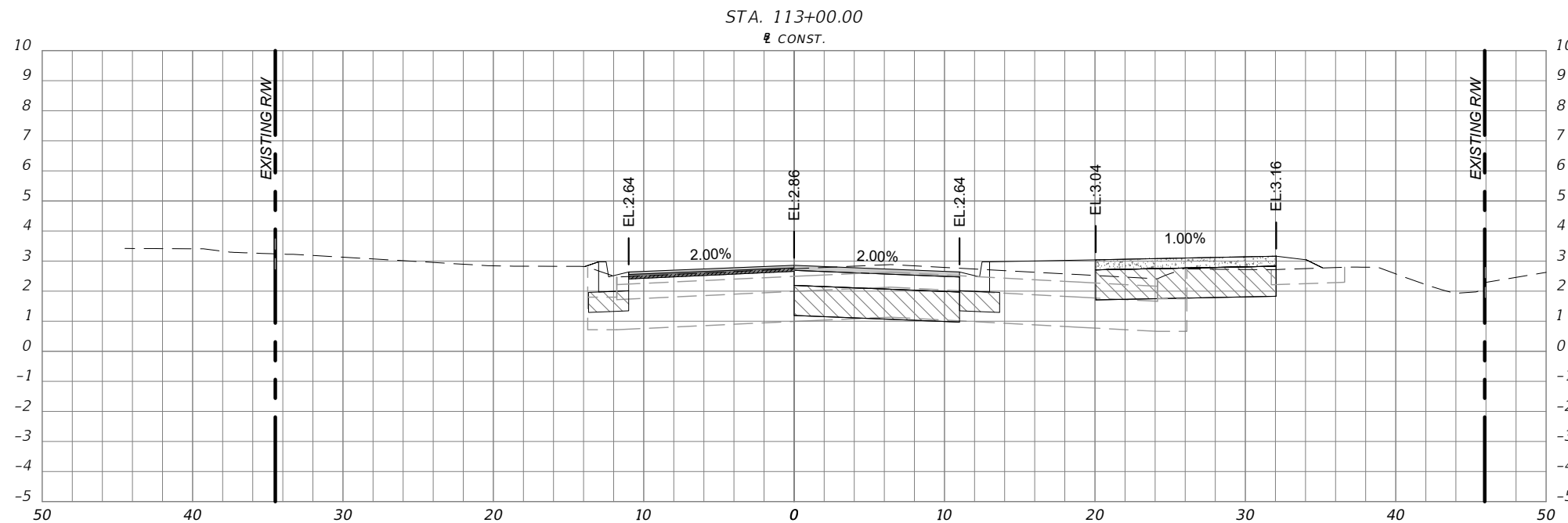
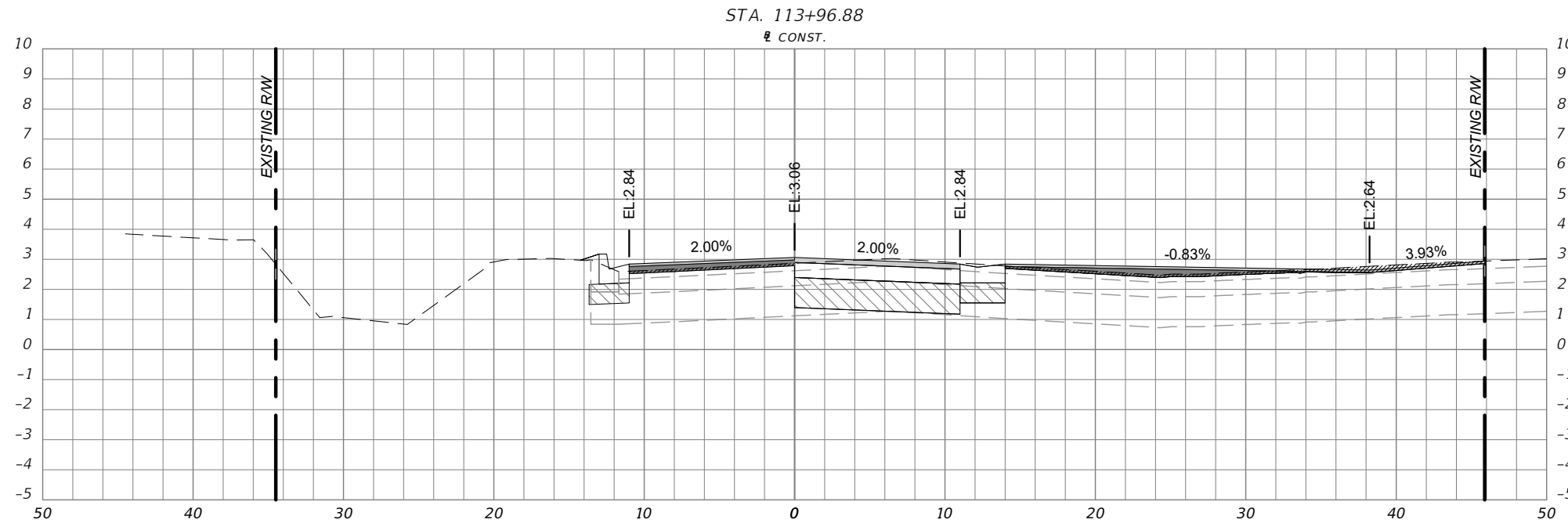
CROSS SECTIONS

SHEET
NO.

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LEGEND
CROSS SECTION SYMBOLS

-  CONCRETE SIDEWALK
-  MILLING
-  RESURFACING/ASPHALT
-  OVERBUILD
-  BASE
-  STABILIZED SUBGRADE
-  PROPOSED GRADE
-  EXISTING GRADE

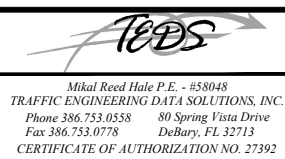


SCALE:
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1" = 5' VERT.

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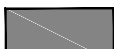
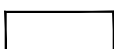



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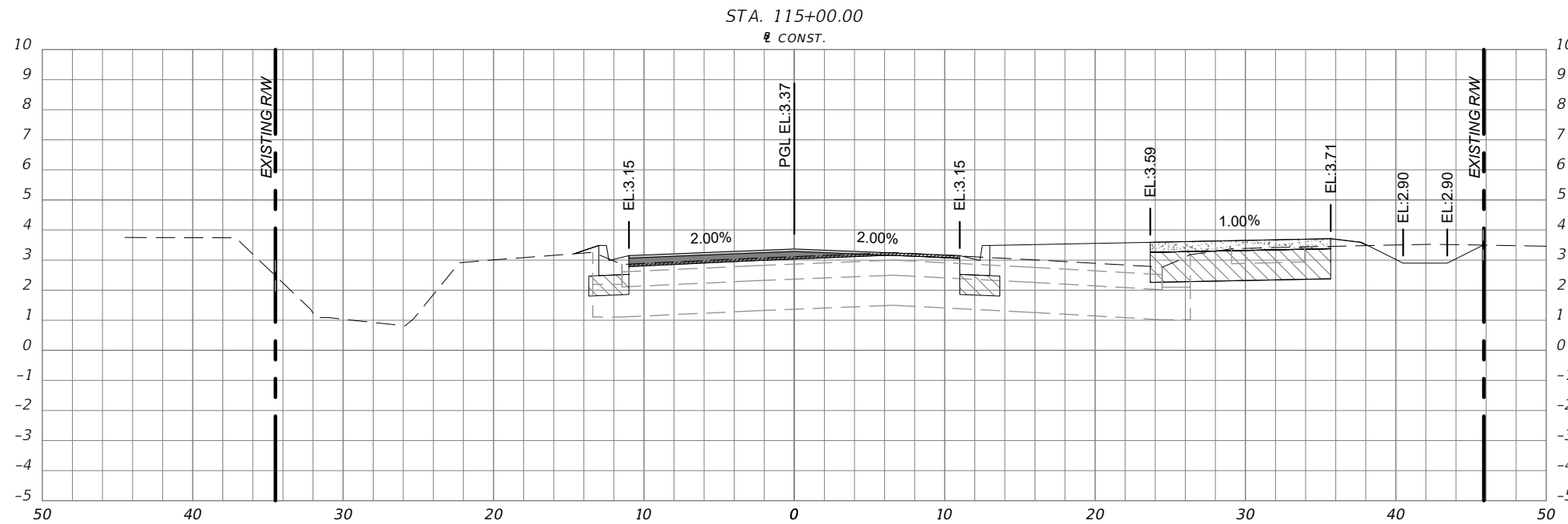
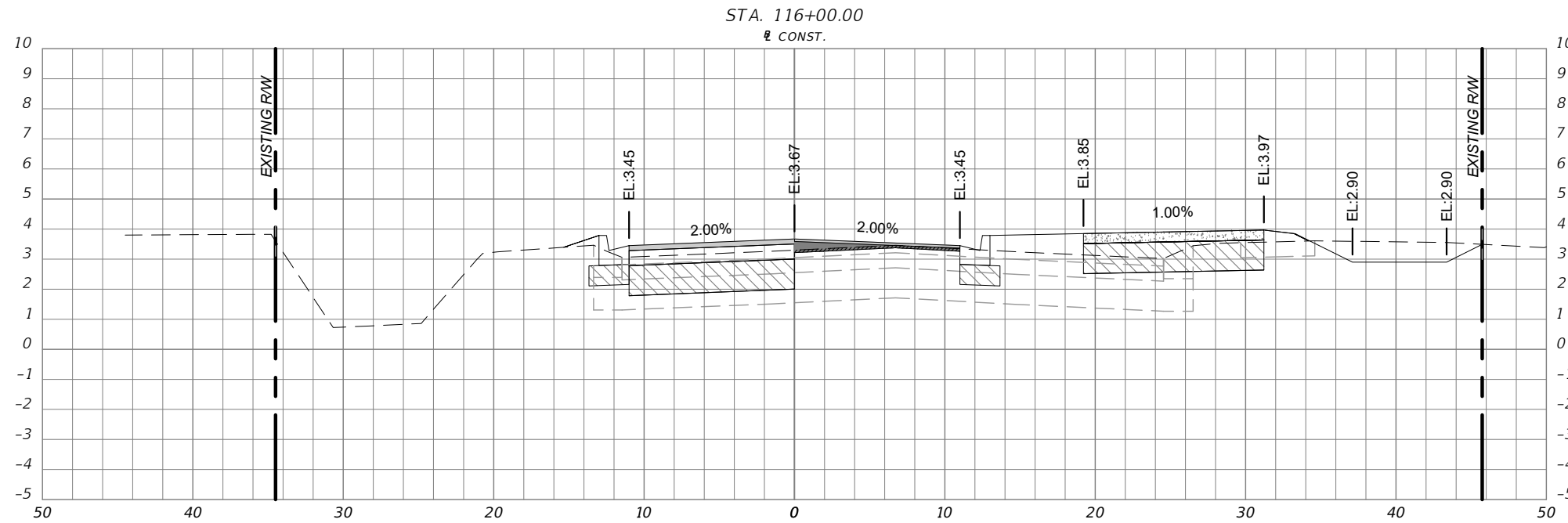
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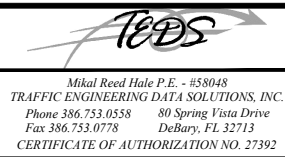


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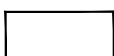



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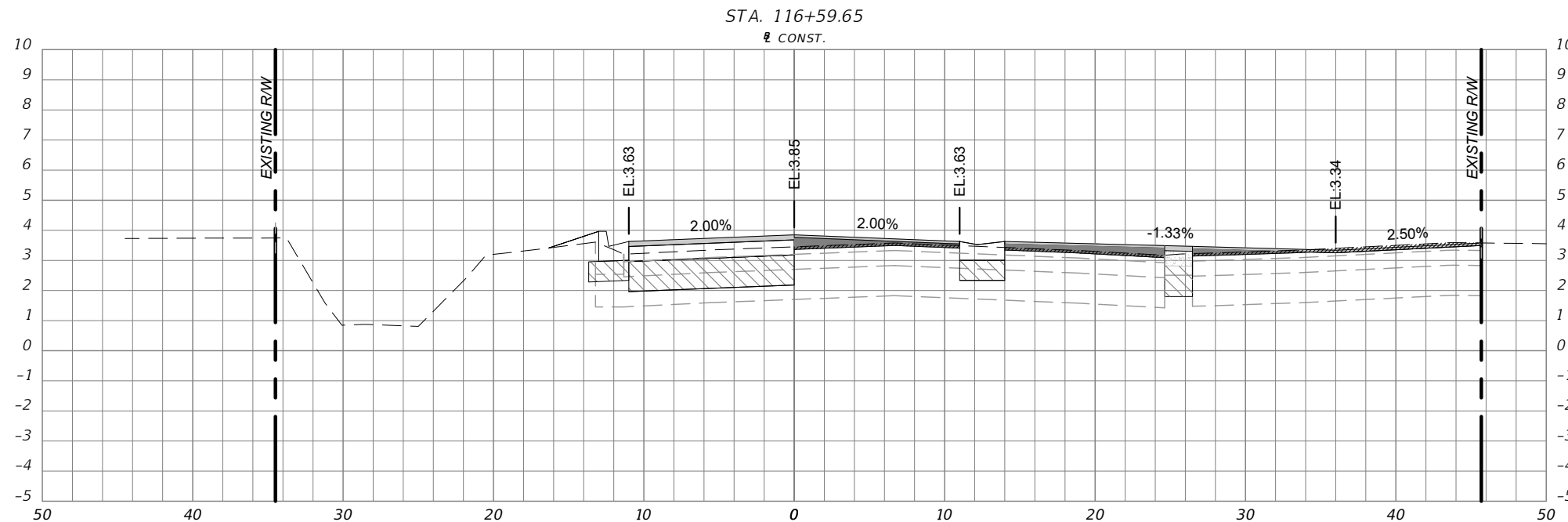
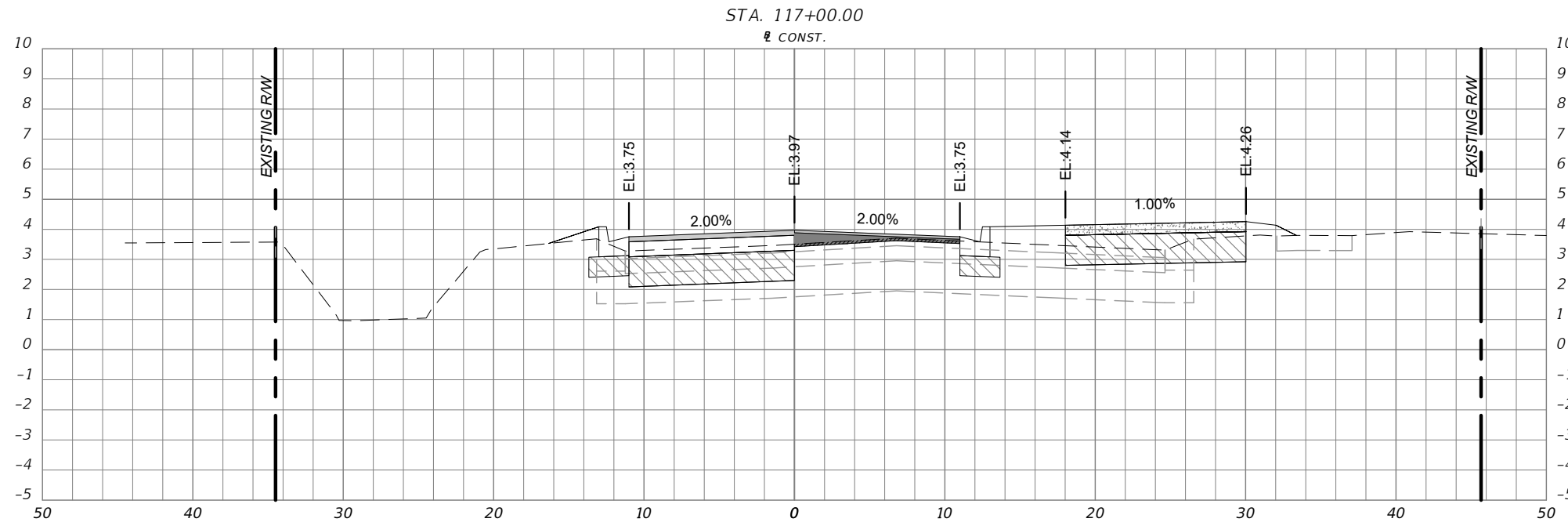
CROSS SECTIONS

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LEGEND
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CITY OF
DAYTONA BEACH

TEDS

Mikal Reed Hale P.E. - #58048
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713
CERTIFICATE OF AUTHORIZATION NO. 27392

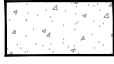



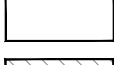



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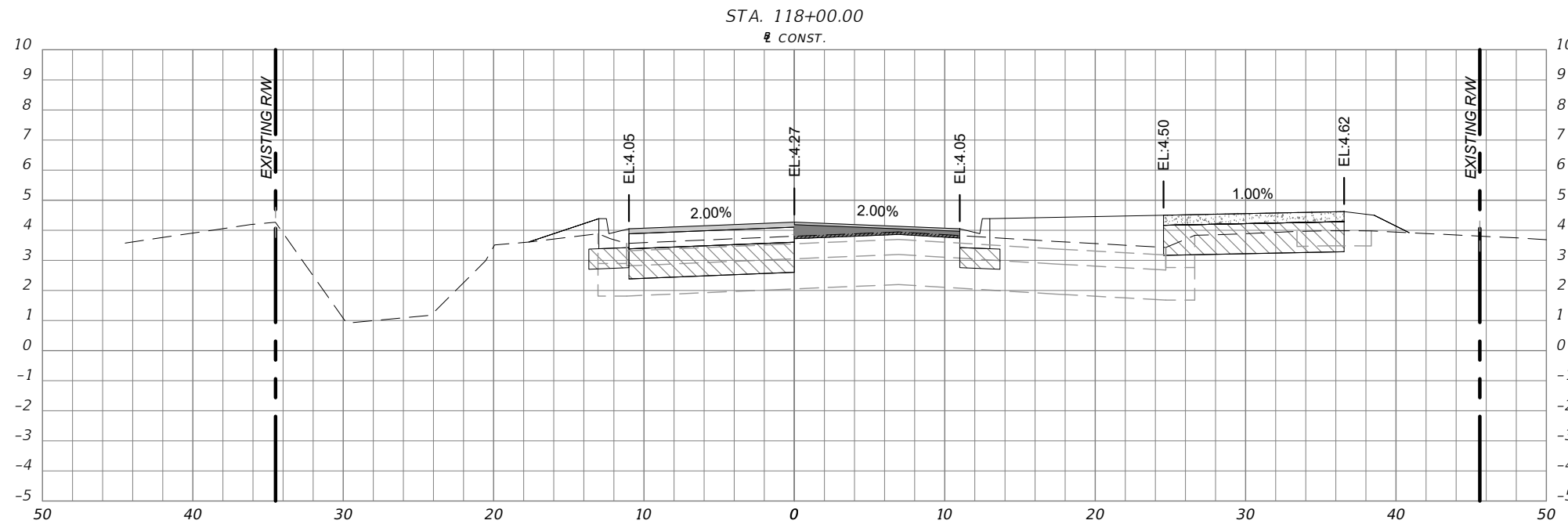
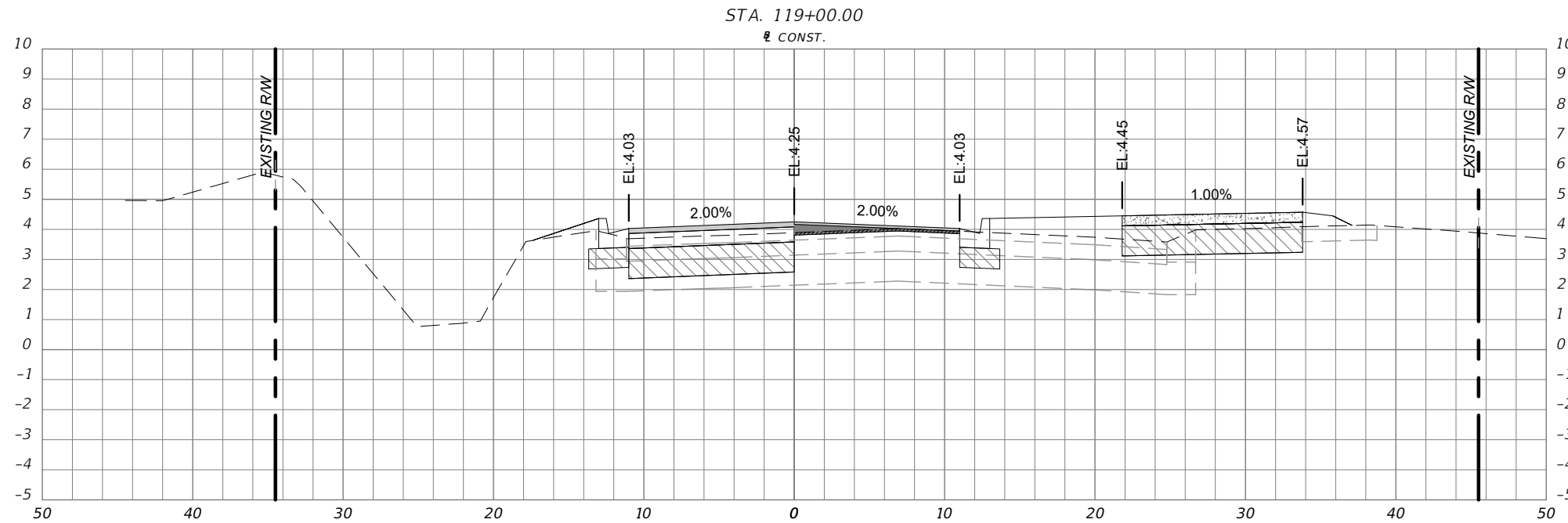
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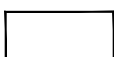



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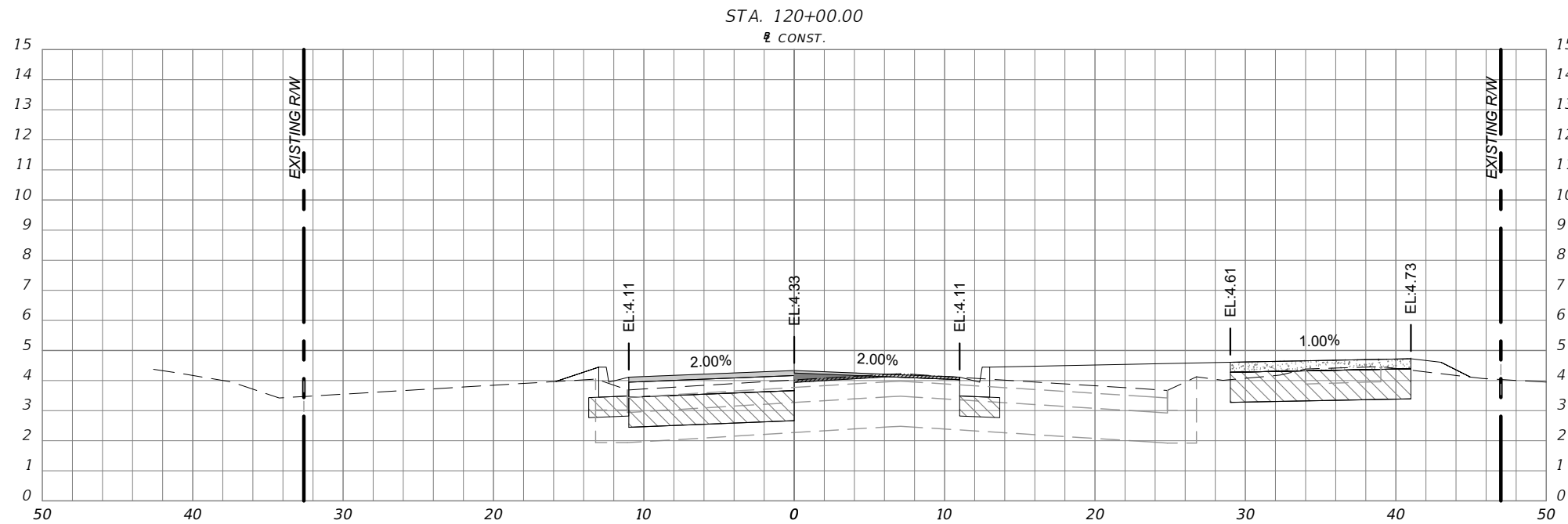
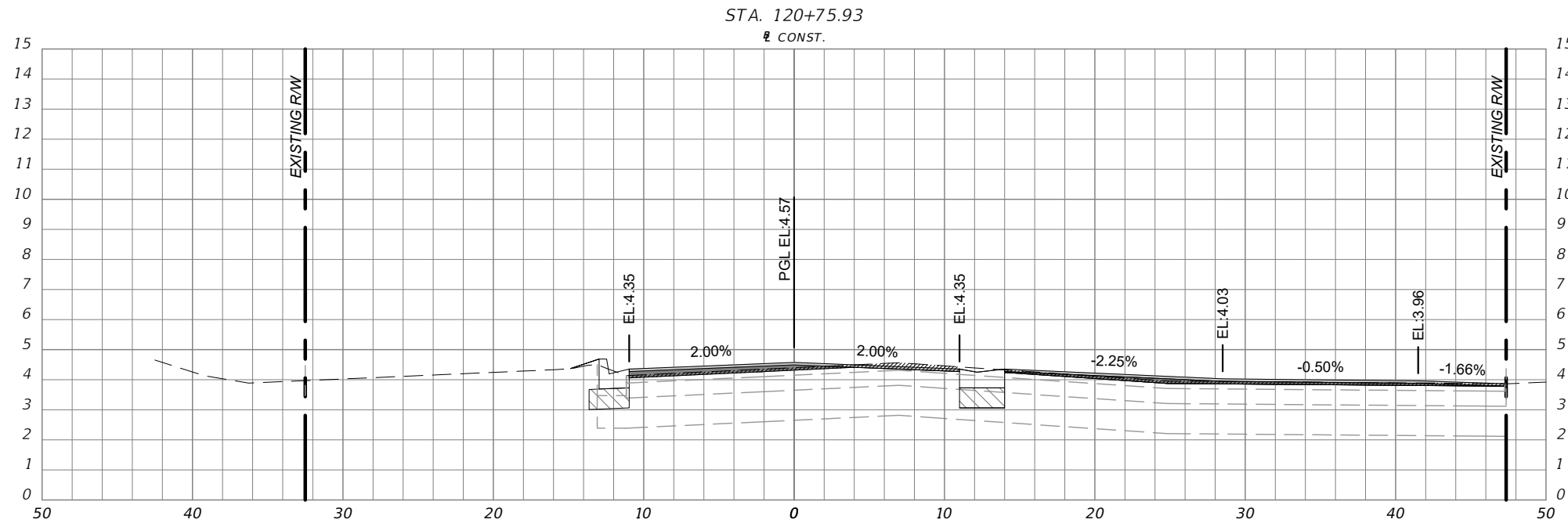
CROSS SECTIONS

SHEET
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LEGEND
CROSS SECTION SYMBOLS

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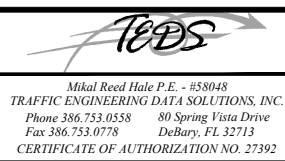


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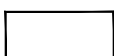



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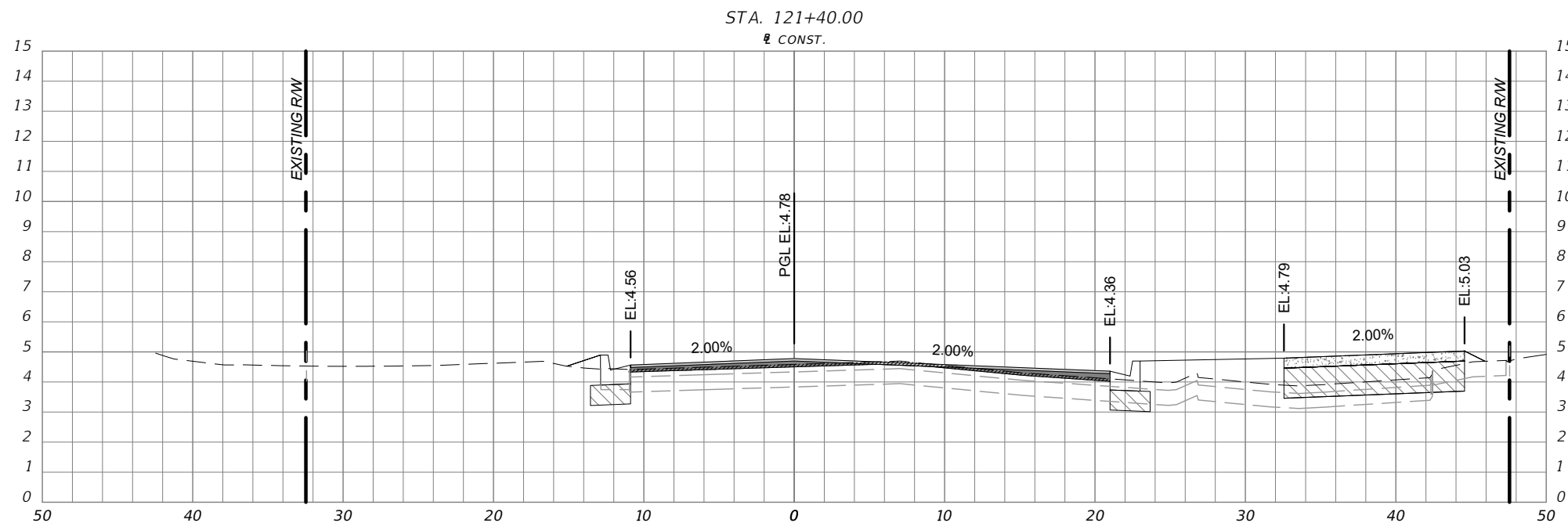
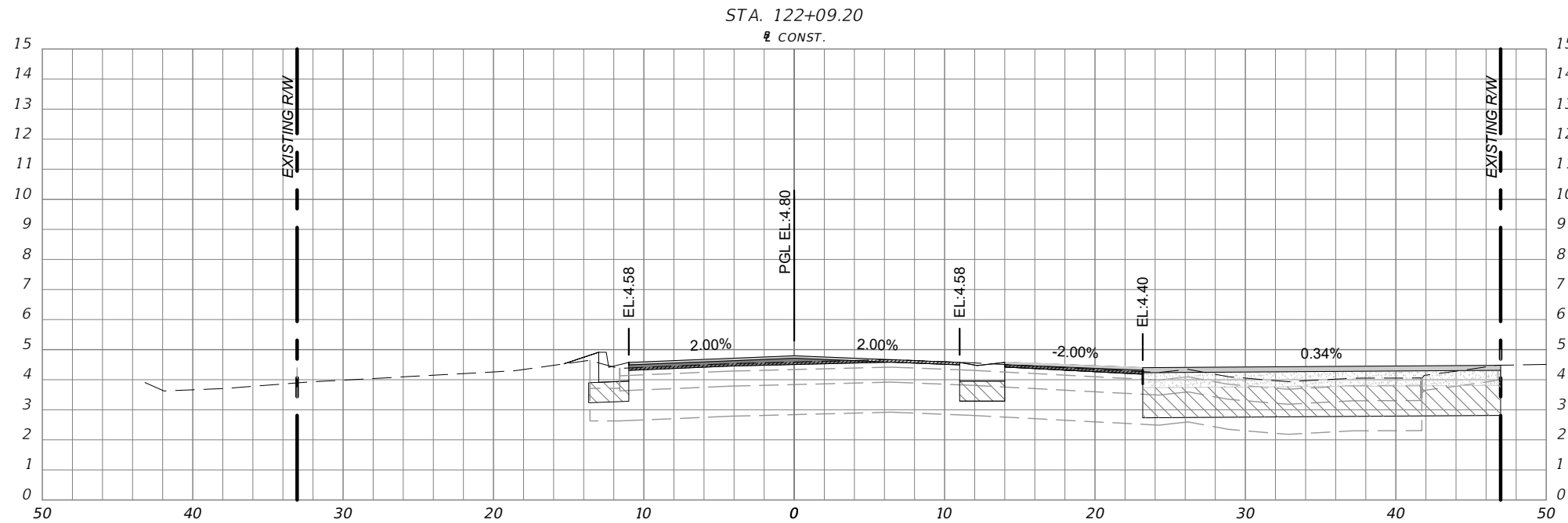
CROSS SECTIONS

SHEET
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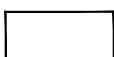



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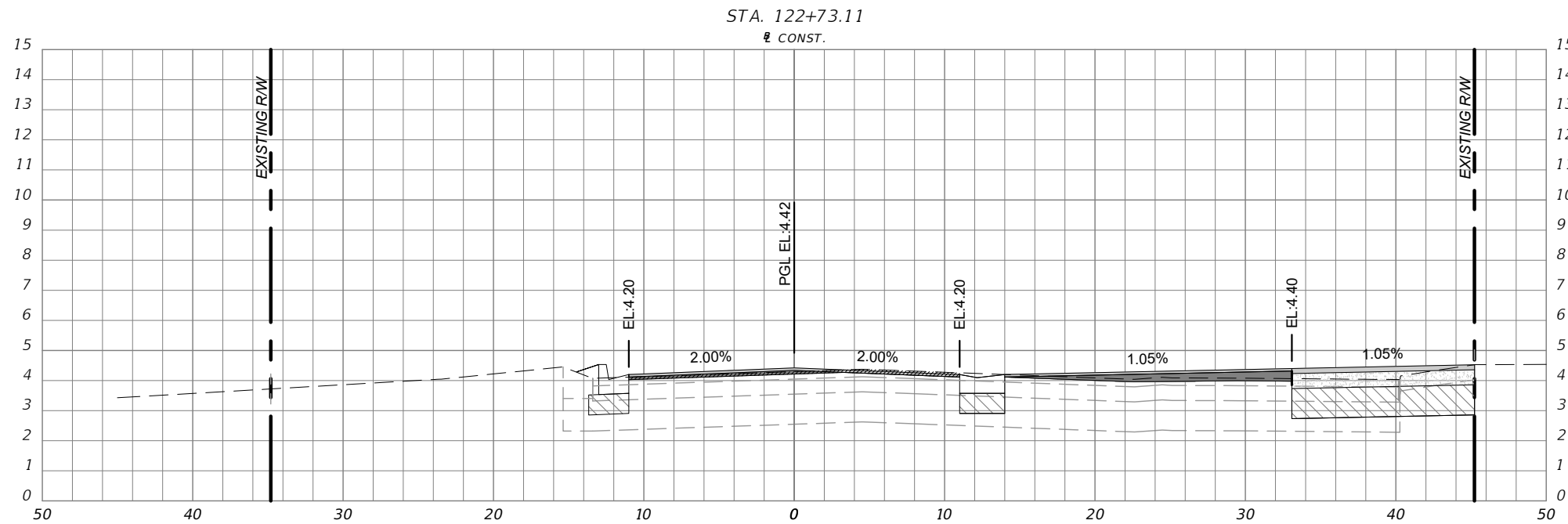
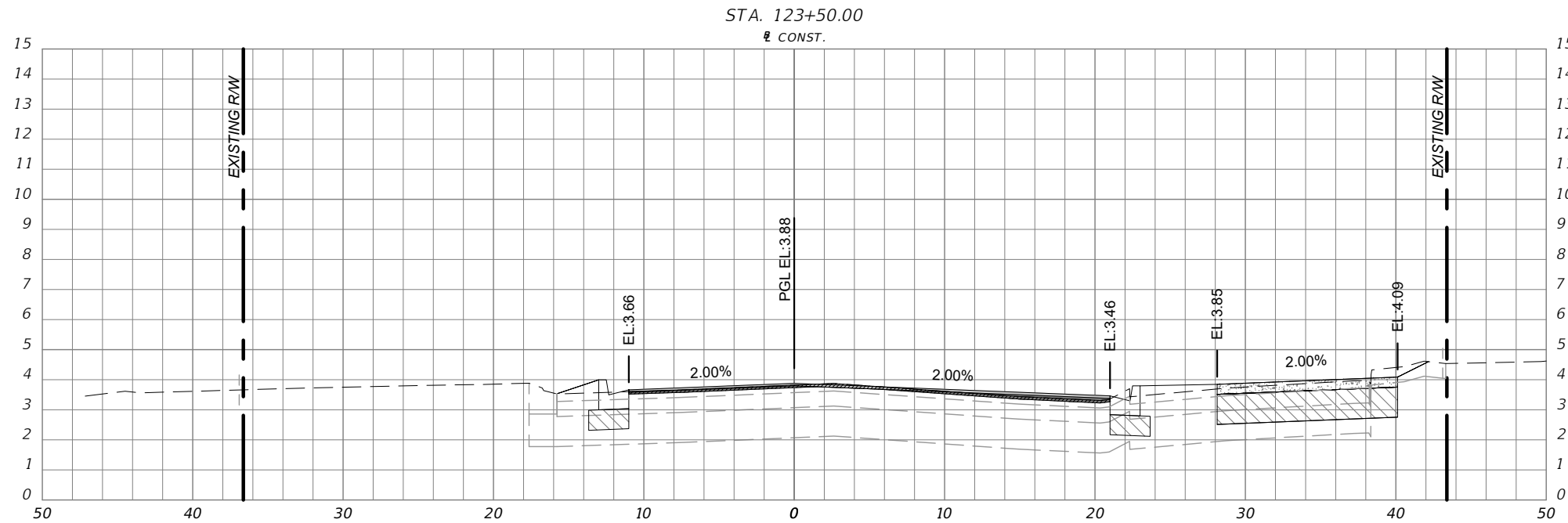
CROSS SECTIONS

SHEET
NO.

33 of 65

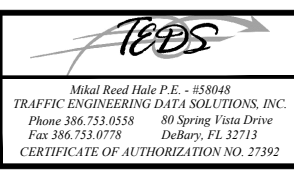
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FPID: 439866-1-54-01

CROSS SECTIONS

SHEET NO.
34 of 65

TRAFFIC CONTROL NOTES:

- CONTRACTOR SHALL PERFORM ALL PROJECT WORK IN ACCORDANCE WITH FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2018-2019. NO LANE CLOSURES ARE PERMITTED BETWEEN THE HOURS OF 7 A.M. AND 7 P.M. NIGHT WORK MAY BE SCHEDULED TO LESSEN TRAFFIC IMPACT & INCONVENIENCE TO GENERAL PUBLIC AND MUST BE APPROVED BY CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL OBTAIN PRIOR APPROVAL OF HIS MAINTENANCE OF TRAFFIC (MOT) PLANS FOR ANY LANE CLOSURES FROM THE CITY TRAFFIC ENGINEERING DIVISION AT LEAST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURE.
- EXISTING SIGNING AND PAVEMENT MARKINGS TO BE MAINTAINED UNLESS SHOWN OTHERWISE IN THESE PLANS.
- TWO (2) WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT ENTIRE LENGTH OF PROJECT.
- TWO (2) WAY ACCESS TO BUSINESSES AND PRIVATE DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY DRIVEWAY CLOSURES MAY BE ALLOWED IF SHARED ACCESS IS AVAILABLE OR IF WRITTEN AUTHORIZATION FROM THE PROPERTY OWNER IS PROVIDED TO CITY PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
- VARIABLE MESSAGE BOARDS SHALL BE INSTALLED 48 HOURS PRIOR TO LANE CLOSURES. CONTRACTOR IS RESPONSIBLE FOR ADEQUATE NUMBER OF BOARDS AND LOCATIONS. TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.
- ALL TRAFFIC CONTROL SIGN AND PAVEMENT MARKINGS SHALL COMPLY WITH THE FDOT STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2018-2019 AND THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION WITH REVISIONS 1 AND 2.
- CONTRACTOR TO MAINTAIN TRAFFIC AND PROPER DROP OFF CRITERIA PER INDEX 102. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PROPER DEVICES WHEN A DROP OFF CONDITION CANNOT BE AVOIDED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE GENERAL PUBLIC AND PUBLIC AGENCIES OF ROAD CLOSURES AT LEAST 48 HOURS IN ADVANCE.
- AFFECTED ROADWAYS SHALL BE RESTORED AND NO LANE CLOSURES WILL BE PERMITTED DURING THE CITY OF DAYTONA BEACH SPECIAL EVENT PERIOD UNLESS PRIOR WRITTEN NOTIFICATION IS OBTAINED FROM CITY OF DAYTONA BEACH TRAFFIC ENGINEERING DIVISION.

THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

TRAFFIC CONTROL NOTES
T-9

Drawing Date: 11/2020
Drawn By: JAP
Checked By: JAP
Scale: N/A
Revision Date: 02/2021
File Name: 6-4

POTABLE WATER CONSTRUCTION & DESIGN STANDARDS

- THE CITY'S UTILITIES DEPARTMENT SHALL BE GIVEN A MINIMUM OF 3 BUSINESS DAYS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY POTABLE WATER SYSTEM CONSTRUCTION.
- ALL DEWATERING ACTIVITIES EITHER DIRECTLY DISCHARGED OR THAT SUBSEQUENTLY USE THE CITY'S STORMWATER SYSTEM TO CONVEY GROUND OR SURFACE WATER FROM A SITE SHALL REQUIRE A STANDARD OF GENERAL USE PERMIT AS PER ARTICLE 7 SECTION 7 OF THE LAND DEVELOPMENT CODE. A PERMIT SHALL BE REQUIRED PRIOR TO ENGAGING IN ANY DEWATERING ACTIVITIES, OR IN ANY CONSTRUCTION ACTIVITIES. DEWATERING ACTIVITIES INCLUDE THE REMOVAL OF GROUND WATER FROM A CONSTRUCTION SITE, ENCLOSED VAULT, COFFERDAM, OR TRENCHES ALLOWING CONSTRUCTION OR MAINTENANCE TO BE DONE IN THE DRY, OR ANY ACTIVITY WHICH CHANGES THE IMPERVIOUS AREA OF LAND. SITE SPECIFIC PERMITS SHALL REQUIRE THE PAYMENT OF A PER ACRE FEE BASED ON THE SIZE OF THE DEVELOPMENT. GENERAL PURPOSE PERMITS SHALL REQUIRE THE PAYMENT OF AN ANNUAL FEE BASED ON ROUTINE SCHEDULE OF MAINTENANCE ACTIVITIES DISCHARGING DIRECTLY OR SUBSEQUENTLY INTO THE CITY'S MS4. DEWATERING PERMIT APPLICATIONS MAY BE FOUND AT <http://www.codb.us/index.aspx?nid=262>. FEES ARE SUBJECT TO ARTICLE 20 SECTION 3.1 OF THE LAND DEVELOPMENT CODE AND MUST BE SUBMITTED TO THE CITY OF DAYTONA BEACH UTILITY DEPARTMENT AT 125 BASIN STREET SUITE 100, DAYTONA BEACH FL 32114 BEFORE ANY USE OF THE MS4 WILL BE ALLOWED. FAILURE TO COMPLY WILL RESULT IN THE TERMINATION OF ACCESS TO THE CITY'S MS4 SYSTEM.
- ALL WORK PERFORMED UPON POTABLE WATER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR OR GENERAL CONTRACTOR LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
- UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE DEPARTMENT OF HEALTH, AND THAT AS-BUILT DRAWINGS (MEETING THE CITY'S AS-BUILT DRAWING REQUIREMENTS) ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THIS SYSTEM.
- WATER DISTRIBUTION SYSTEM SHALL BE DESIGNED TO COMPLY WITH THE CITY'S FIRE (WATER) FLOW CODE.
- ALL WATER SERVICE ENDINGS SHALL BE MARKED WITH A 2" X 4" LUMBER (PRESSURE TREATED) EXTENDING 4 FEET ABOVE GRADE, IN FRONT OF THE METER BOX WITH 2' OF ENDTRACE COILED AND CAPPED WITH AN ELSTER HYDROSEPT CAP INSIDE OF THE METER BOX.
- ALL WATER SERVICES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB.
- ALL WATER VALVES SHALL BE MARKED WITH AN "X" SAW CUT INTO THE CURB.
- ALL TAPPING OF MAINS SHALL BE PERFORMED WITH A UTILITY REPRESENTATIVE PRESENT. SCHEDULING OF THESE CONNECTIONS SHALL BE REQUIRE A MINIMUM OF 3 (THREE BUSINESS DAYS FOR NOTIFICATION AND SHALL BE COORDINATED WITH THE WATER DISTRIBUTION DIVISION (386) 671-8815.
- FOR CONSTRUCTION PURPOSES, THE PLANS SHALL DIMENSION STATIONING & OFFSETS FROM THE CENTER LINE OF CONSTRUCTION AND RIGHT-OF-WAY LINE. THE PROPOSED LOCATIONS OF ALL WATER MAINS, DEWATERING SHALL BE PROVIDED TO KEEP GROUNDWATER ELEVATION A MINIMUM OF 6 INCHES BELOW MAIN BEING LAID.
- ALL WATER MAINS SHALL BE LAID ON A FIRM UNYIELDING FOUNDATION WITH ALL UNSUITABLE MATERIAL (MUCK, ROCK, COQUINA, ETC.) REMOVED AND REPLACED WITH CLEAN GRANULAR MATERIAL.
- TRENCHES SHALL BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE CITY WITH A MINIMUM COMPACTION OF 98% IN PAVED AREAS AND 95% IN UNPAVED AREAS IN ACCORDANCE WITH AASHTO T-160 MODIFIED PROCTOR TEST.
- ON PROJECTS THAT ARE NOT INITIATED BY THE CITY IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH COMPACTION TESTS BE PROVIDED AT POINTS 12 INCHES ABOVE THE PIPE AND AT 12 INCH VERTICAL INTERVALS TO FINISH GRADE, AT A MINIMUM SPACING OF EVERY 300 FEET.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

WATER CONSTRUCTION & DESIGN STANDARDS
(PAGE 1 OF 4)
W-1

FF-15/16
Drawing Date: 01/08
Drawn By: JAP
Checked By: JAP
Scale: N/A
Revision Date: 02/2014
File Name: Water Notes W-1 Page 1

(CONT'D)

- WHERE POTABLE WATER AND SANITARY SEWER MAINS CROSS WITH LESS THAN TWELVE (12) INCHES OF VERTICAL CLEARANCE OR WHERE THE SEWER MAIN IS ABOVE THE WATER MAIN, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE, OR UPGRADED TO C-900 PVC PIPE FOR A MINIMUM LENGTH OF TWENTY (20) FEET, CENTERED ON THE POINT OF CROSSING. A MINIMUM HORIZONTAL SEPARATION OF SIX (6) FEET (SIDE TO SIDE) BETWEEN POTABLE WATER MAINS AND SEWER MAINS SHALL BE MAINTAINED WHEN AT ALL POSSIBLE. WHEN THE SIX (6) FOOT HORIZONTAL SEPARATION CANNOT BE MAINTAINED, THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF AT LEAST 18" ABOVE THE SEWAGE MAIN. ALTERNATIVELY, THE SEWER MAIN SHALL BE ENCASED WITH CONCRETE OR ENCLOSED IN A WATER TIGHT CARRIER PIPE, OR UPGRADED TO PRESSURE RATED PVC PIPE (MEETING THE AWWA C-900 OR C-905 SPECIFICATION) AND PRESSURE TESTED. *SEE PIPE SEPARATION DETAIL (W-5) AND UTILITY PIPE ENCASEMENT DETAIL (W-9).
- WATER MAINS ARE TO BE CONSTRUCTED A MINIMUM OF FOUR FEET MEASURED FROM THE OUTSIDE WALL OF THE WATER MAIN, BEHIND THE BACK OF CURB OR OUTSIDE OF THE EDGE OF ROADWAY PAVEMENT, WHICHEVER IS GREATER.
- A THREE INCH WIDE METALIZED LOCATOR TAPE SHALL BE USED FOR ALL PRESURIZED MAINS INSTALLED. THE LOCATOR TAPE SHALL BE NON-CORRODIBLE CONSISTING OF POLYETHYLENE FILM WITH METALLIC FILM AND SHALL BE CONTINUOUSLY MARKED TO IDENTIFY THE REFERENCED PIPELINE. THE TAPE SHALL BE INSTALLED EIGHTEEN INCHES DIRECTLY ABOVE THE PIPE.
- ALL NON-METALLIC WATERLINES SHALL HAVE #12 SINGLE STRAND UP RATED INSULATED COPPER WIRE ATTACHED. THE ENDS NEED TO BE SEALED WITH LIQUID TAPE.
- SINGLE RESIDENTIAL WATER SERVICES SHALL BE A COPPER 1" MINIMUM. (MEETS THE SPECIFICATIONS OF NSF-14, AND AWWA C901.)
- ALL WATER MAINS SHALL BE NSF-APPROVED FOR POTABLE WATER USE, AND SHALL HAVE A MINIMUM COVER OF 36 INCHES.
- WATER MAINS SHALL BE DUCTILE IRON PIPE (D.I.P.), CLASS 350, CEMENT LINED UNLESS OTHERWISE APPROVED BY THE CITY. ALL NON DUCTILE IRON PIPE HORIZONTAL DIRECTIONAL DRILL WATER MAINS SHALL HAVE A MINIMUM WORKING PRESSURE RATING OF 160 PSI. THE CITY MAY REQUIRE A HIGHER PRESSURE RATING DEPENDENT ON SITE CONDITIONS.
- ALL POTABLE WATER MAINS SHALL USE A THRUST RESTRAINT JOINT METHOD IN COMPLIANCE WITH THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) GUIDELINES.
- MEGALUGS, BOLTLESS RESTRAINED JOINTS, GRIPPER GASKETS, OR STAR GRIPS SHALL BE USED ON ALL RESTRAINED JOINT INSTALLATIONS. MINIMUM DEPTH OF BURY ON PIPES NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST RESTRAINT DESIGN GUIDELINES.
- GRIPPER RING GASKETS SHALL BE USED AS APPROPRIATE FOR RESTRAINING PRESSURE PIPE TO FITTINGS, VALVES, ETC.
- WATER VALVES SHALL BE PLACED AT ALL STREET INTERSECTIONS AND AT MAXIMUM SPACING OF 750 FEET. SPACING OF VALVES ON PRIMARY TRANSMISSION MAINS WILL BE DETERMINED BY THE CITY.
- AT ALL WATER MAIN TEES AND VALVES SHALL BE INSTALLED ON ALL LEGS EXCEPT ONE.
- APPROVED WATER VALVE TYPES ARE THE FOLLOWING:
A. RESILIENT SEAT GATE VALVES (AWWA C-508)
B. TAPPING VALVES WITH MECHANICAL TAPPING SLEEVE.
- ALL WATER VALVES, INCLUDING CONCRETE COLLAR (WITH DEBRIS CAP), SHALL BE ADJUSTED TO FINISHED GRADE AND THE VALVE BOX LID, PRIMED PAINTED BLUE TO MAKE THEM PLAINLY VISIBLE.
- UPON FINAL ACCEPTANCE OF NEW WATER SYSTEMS, WATER VALVES SHALL BE COMPLETELY OPENED BY PUBLIC UTILITIES PERSONNEL. AT NO TIME SHALL CONTRACTOR OPERATE ANY EXISTING VALVES WITHOUT A CITY INSPECTOR PRESENT.
- ALL VALVES 2" AND SMALLER SHALL BE CURB STOPS. VALVES LARGER THAN 2" SHALL BE GATE VALVES.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

WATER CONSTRUCTION & DESIGN STANDARDS
(PAGE 2 OF 4)
W-2

FF-15/16
Drawing Date: 01/08
Drawn By: JAP
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Scale: N/A
Revision Date: 02/2014
File Name: Water Notes W-2 Page 2

POTABLE WATER CONSTRUCTION & DESIGN STANDARDS (CONT'D)

- TYPICALLY, A MINIMUM OF ONE FIRE HYDRANT SHALL BE LOCATED AT EVERY INTERSECTION. OTHER FIRE HYDRANTS SHALL BE LOCATED SO AS TO PRODUCE A MAXIMUM 500 FOOT RADIUS OF COVERAGE. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED TO MAKE THEM EASILY ACCESSIBLE TO FIRE PERSONNEL. THE PRIMARY HYDRANT PORT IS TO FACE THE STREET.
- IN AREAS WHERE RECLAIMED WATER IS NOT AVAILABLE THE CONTRACTOR SHALL BE REQUIRED TO TRANSFER THE WATER FROM THE POTABLE WATER LINES WITH NECESSARY BACKFLOW PREVENTION DEVICES TO THE NON-POTABLE WATER LINES FOR UTILIZATION IN THEIR PRESSURE TEST.
- THE CONTRACTOR SHALL BE REQUIRED TO PIG ALL POTABLE MAINS 6" OR GREATER IN DIAMETER LAUNCHING AND EXTRACTION POINTS SHALL BE DETERMINED BY THE CONTRACTOR.
- WITH RESPECT TO FLUSHING, PIGGING, TESTING, AND TIE-IN CONNECTIONS, THE CITY RESERVES THE RIGHT TO REQUIRE WORK TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
- THE CITY RESERVES THE RIGHT TO PERFORM THE SAMPLING AND ANALYSIS FOR BACTERIOLOGICAL CLEARANCE OF THE WATER MAIN. ANY RETESTING WILL BE AT THE CONTRACTORS EXPENSE.
- POTABLE WATER SYSTEM EXTENSIONS MAY NOT BE USED PRIOR TO FINAL TESTING. UNTIL CLEARANCE IS ACCEPTED BY THE CITY OF DAYTONA BEACH AND THE VOLLUSSIA COUNTY HEALTH DEPARTMENT.
- A BACK FLOW PREVENTER (BFP) SHALL BE PLACED ON ALL POTABLE AND FIRELINES SERVING COMMERCIAL PROPERTIES AND RESIDENTIAL WHERE ALTERNATIVE WATER IS AVAILABLE. THE TYPE OF BACKFLOW PREVENTERS REQUIRED ARE AS FOLLOWS:
POTABLE WATER SERVICE; REDUCED PRESSURE ZONE BFP
FIRELINE SERVING A FIRE SPRINKLER SYSTEM AND/OR PRIVATE FIRE HYDRANT; DOUBLE CHECK VALVE SYSTEM
FIRELINE; DOUBLE CHECK VALVE SYSTEM
IN CASES WHERE A WATER LINE SERVES BOTH DOMESTIC AND FIRE SERVICES, A REDUCED PRESSURE ZONE BFP SHALL BE REQUIRED.
- ALL JACK & BORES REQUIRED WITH COMMERCIAL DEVELOPMENTS SHALL BE AT THE SOLE COST OF THE OWNER DEVELOPER.
- ALL C-900 PVC PIPE REQUIREMENTS ARE REFERENCED TO THE C-900-97 STANDARDS. DR UPGRADES FOR BURST PROTECTION MAY BE REQUIRED WHEN USING THE C-900-07 STANDARDS.
- CHLORINATED WATER MUST BE DE-CHLORINATED PRIOR TO DISCHARGE INTO ANY JURISDICTIONAL WETLAND OR WATER BODY AS PER AWWA STANDARD ANS/AWWA C655-09.

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

WATER CONSTRUCTION & DESIGN STANDARDS
(PAGE 3 OF 4)
W-3

FF-15/16
Drawing Date: 01/08
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Checked By: JAP
Scale: N/A
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File Name: Water Notes W-3 Page 3

POTABLE WATER CONSTRUCTION & DESIGN STANDARDS TESTING REQUIREMENTS:

- ON ALL PROJECTS OTHER THAN THOSE INITIATED BY THE CITY THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY AT HIS OWN EXPENSE TO INSURE THAT COMPACTION OF ALL FILL MATERIAL IS COMPLETED PROPERLY. HOWEVER, ON ALL CITY PROJECTS THE TESTING WILL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. TESTS SHALL BE DONE ONE FOOT ABOVE THE PIPE AND THEN AT ONE FOOT VERTICAL INTERVALS UNTIL FINAL GRADE IS REACHED. IDENTIFICATION OF TEST LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REPORTS. TEST RESULTS SHALL BE FORWARDED PROMPTLY TO THE CITY'S DESIGNATED SITE INSPECTOR.
- ALL POTABLE WATER MAINS SHALL BE FLUSHED, DISINFECTED, PRESSURE TESTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE WHEN APPROPRIATE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY THE CITY'S DESIGNATED INSPECTOR WHO SHALL COORDINATE WITH CITY PERSONNEL AT THE WATER TREATMENT PLANT AT LEAST THREE (3) BUSINESS DAYS PRIOR TO BEGINNING FLUSH OF THE MAINS PRIOR TO THE COMMENCEMENT OF PRESSURE TESTING. NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF BACTERIOLOGICAL SAMPLES. THE SAMPLING TAP MUST BE DEDICATED AND CLEAN, AND DISINFECTED AND FLUSHED PRIOR TO SAMPLING. SAMPLING TAP SHALL BE SMOOTH, UNTHREADED 1/2" HOSE BIB. DISINFECTION & SAMPLING SHALL BE SCHEDULED AT THE CITY'S CONVENIENCE.
- PRESSURE TEST FOR TAPPING SADDLES AND VALVES. (MINIMUM OF 30 MINUTES AT 150 PSI OR 30 MINUTES AT MANUFACTURERS LABELED TESTING PRESSURE).
- WATERMANS SHALL BE PRESSURE TESTED TO 150 PSI FOR 4 HOURS. TESTING SHALL BE IN ACCORDANCE WITH AWWA C-900 AND AWWA C-905 AS APPLICABLE, WITH ALLOWABLE LEAKAGE TO BE X GAL/HR PER X" DIA. OF PIPE, PER X' OF MAIN TO BE TESTED.

ALLOWABLE LEAKAGE PER 1000 FT. OF PIPELINE * -GPH

| AVERAGE PRESSURE TEST | NOMINAL PIPE DIAMETER - INCHES | | | | | | | | | | AVERAGE TEST PRESSURE | | | | | | | | |
|-----------------------|--------------------------------|------|------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|-------|-------|
| (PSI) | 3 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 64 | (PSI) |
| 450 | 0.48 | 0.64 | 0.95 | 1.27 | 1.59 | 1.91 | 2.23 | 2.55 | 2.87 | 3.18 | 3.82 | 4.78 | 5.73 | 6.69 | 7.94 | 8.60 | 9.56 | 10.19 | 450 |
| 400 | 0.45 | 0.60 | 0.90 | 1.20 | 1.50 | 1.80 | 2.10 | 2.40 | 2.70 | 3.00 | 3.60 | 4.50 | 5.41 | 6.31 | 7.21 | 8.11 | 9.01 | 9.61 | 400 |
| 350 | 0.42 | 0.56 | 0.84 | 1.12 | 1.40 | 1.69 | 1.97 | 2.25 | 2.53 | 2.81 | 3.37 | 4.21 | 5.06 | 5.90 | 6.74 | 7.58 | 8.43 | 8.99 | 350 |
| 300 | 0.39 | 0.52 | 0.78 | 1.04 | 1.30 | 1.56 | 1.82 | 2.08 | 2.34 | 2.60 | 3.12 | 3.90 | 4.68 | 5.46 | 6.24 | 7.02 | 7.80 | 8.32 | 300 |
| 275 | 0.37 | 0.50 | 0.75 | 1.00 | 1.24 | 1.49 | 1.74 | 1.99 | 2.24 | 2.49 | 2.99 | 3.73 | 4.48 | 5.23 | 5.98 | 6.72 | 7.47 | 7.97 | 275 |
| 250 | 0.36 | 0.47 | 0.71 | 0.95 | 1.19 | 1.42 | 1.66 | 1.90 | 2.14 | 2.37 | 2.85 | 3.56 | 4.27 | 4.99 | 5.70 | 6.41 | 7.12 | 7.60 | 250 |
| 225 | 0.34 | 0.45 | 0.68 | 0.90 | 1.13 | 1.35 | 1.58 | 1.80 | 2.03 | 2.25 | 2.70 | 3.38 | 4.05 | 4.73 | 5.41 | 6.03 | 6.76 | 7.21 | 225 |
| 200 | 0.33 | 0.43 | 0.64 | 0.85 | 1.06 | 1.26 | 1.46 | 1.70 | 1.91 | 2.12 | 2.55 | 3.19 | 3.82 | 4.46 | 5.09 | 5.73 | 6.37 | 6.80 | 200 |
| 175 | 0.30 | 0.40 | 0.59 | 0.80 | 0.99 | 1.19 | 1.39 | 1.59 | 1.79 | 1.98 | 2.38 | 2.98 | 3.58 | 4.17 | 4.77 | 5.36 | 5.96 | 6.36 | 175 |
| 150 | 0.28 | 0.37 | 0.55 | 0.74 | 0.92 | 1.10 | 1.29 | 1.47 | 1.66 | 1.84 | 2.21 | 2.76 | 3.31 | 3.86 | 4.41 | 4.97 | 5.52 | 5.89 | 150 |
| 125 | 0.25 | 0.34 | 0.50 | 0.67 | 0.84 | 1.01 | 1.18 | 1.34 | 1.51 | 1.68 | 2.01 | 2.52 | 3.02 | 3.53 | 4.03 | 4.53 | 5.04 | 5.37 | 125 |
| 100 | 0.23 | 0.30 | 0.45 | 0.60 | 0.75 | 0.90 | 1.05 | 1.20 | 1.35 | 1.50 | 1.80 | 2.25 | 2.70 | 3.15 | 3.60 | 4.05 | 4.50 | 4.80 | 100 |

* IF THE PIPELINE UNDER TEST CONTAINS SECTIONS OF VARIOUS DIAMETERS, THE ALLOWABLE LEAKAGE WILL BE THE SUM OF THE COMPUTED LEAKAGE FOR EACH SIZE.

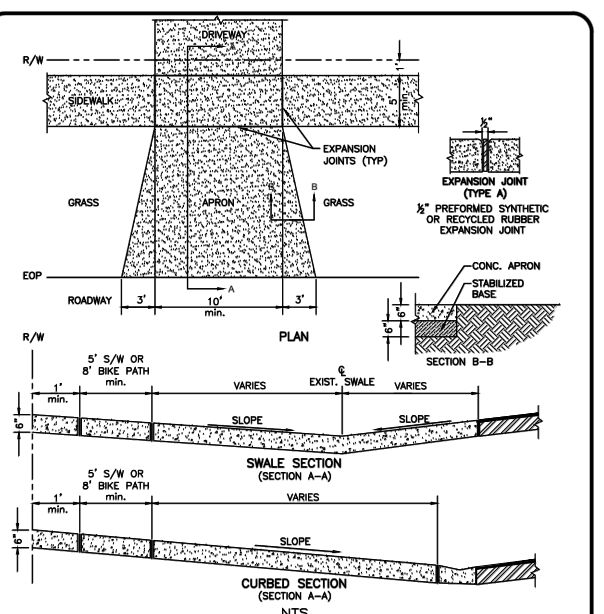
WHERE:
L = ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
S = LENGTH OF PIPE TESTED, IN FEET
D = NOMINAL DIAMETER OF PIPE, IN INCHES
P = AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST, IN POUNDS PER SQUARE INCH (GAUGE)

$$L = \frac{SD\sqrt{F}}{133,200}$$

THE CITY OF DAYTONA BEACH
UTILITIES DEPARTMENT

WATER CONSTRUCTION & DESIGN STANDARDS
(PAGE 4 OF 4)
W-4

FF-15/16
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Drawn By: JAP
Checked By: JAP
Scale: N/A
Revision Date: 02/2014
File Name: Water Notes W-4 Page 4



THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

CONCRETE DRIVEWAY APRON DETAIL
C-9

FF-15/16
Drawing Date: 01/08
Drawn By: JAP
Checked By: JAP
Scale: N/A
Revision Date: 02/2014
File Name: C-9

REVISIONS

| DATE | BY | DESCRIPTION |
|------------|-----|--|
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

CITY OF DAYTONA BEACH

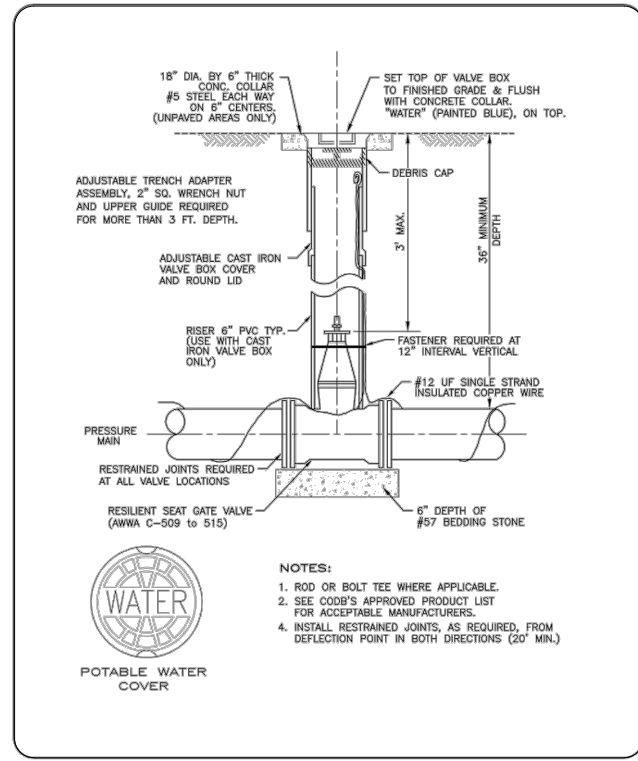
Mikal Reed Hale P.E. - #58048
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713
CERTIFICATE OF AUTHORIZATION NO. 27392

SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

CONSTRUCTION DETAILS

SHEET NO. 40 of 65

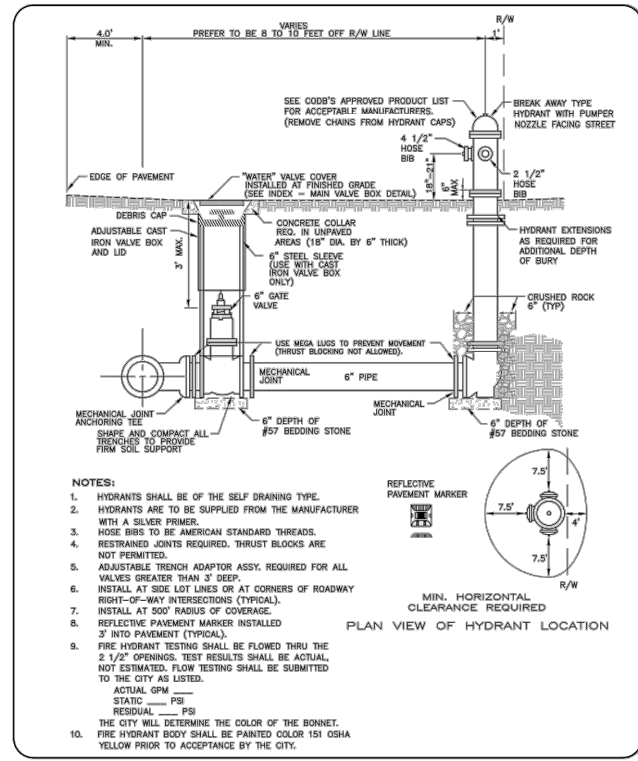
CITY PROJECT No. 2016-007



THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

WATER VALVE AND VALVE BOX DETAIL W-16

FF-15/16
Drawing Date: 01/08
Drawn By: ALB
Checked By: MP
Scale: N/A
Revision Date: 12/12
File Name: Water Valve Detail W-16
Page: 20



THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

FIRE HYDRANT ASSEMBLY DETAIL W-18

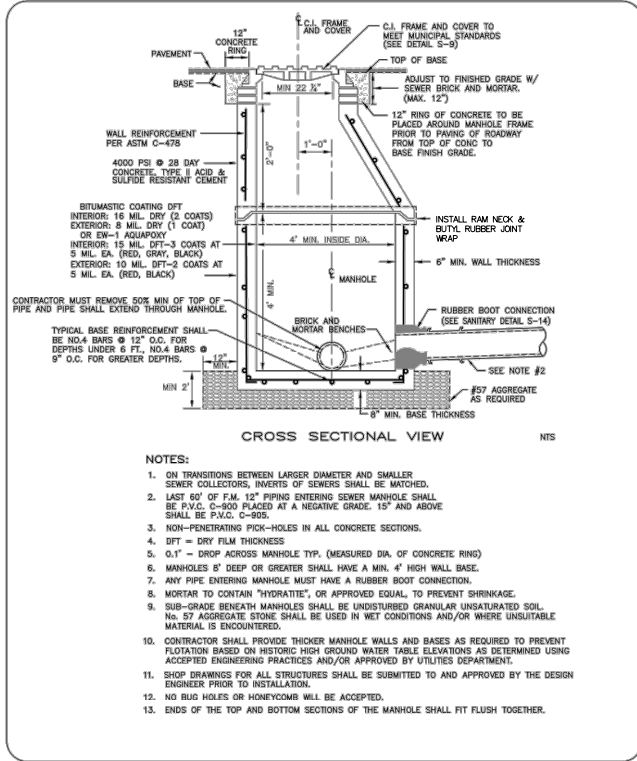
FF-15/16
Drawing Date: 01/08
Drawn By: ALB
Checked By: MP
Scale: N/A
Revision Date: 12/12
File Name: Fire Hydrant Detail W-18
Page: 22

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

| Other Pipe | Horizontal Separation | Crossings (1) | Joint Spacing @ Crossings (Full Joint Centered) |
|--|---|--|---|
| Storm Sewer, Stormwater Force Main, Reclaimed Water (2) | Water Main 3 ft. minimum | Water Main 12 inches is the minimum, except for storm sewer, then 6 inches is the minimum and 12 inches is preferred. | Alternate 3 ft. minimum |
| Vacuum Sanitary Sewer | Water Main 10 ft. preferred 3 ft. minimum | Water Main 12 inches is preferred 6 inches minimum | Alternate 3 ft. minimum |
| Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4) | Water Main 10 ft. preferred 6 ft. minimum (3) | Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred. | Alternate 3 ft. minimum |
| On-Site Sewage Treatment & Disposal System | 30 ft. minimum | | |

(1) Water mains should cross above other pipes. When water main must be below other pipes, the minimum separation is 12 inches.
(2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
(3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
(4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

Disclaimer - This document is provided for your convenience only. Please refer to F.A.C. Rule 62-555.314 for additional construction requirements.



THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT

SANITARY SEWER MANHOLE AND GENERAL NOTES S-13

FF-15/16
Drawing Date: 01/08
Drawn By: ALB
Checked By: MP
Scale: N/A
Revision Date: 06/10
File Name: Sanitary Manhole Detail S-13
Page: 11

REVISIONS

| DATE | BY | DESCRIPTION |
|------------|-----|---|
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER COB'S COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |



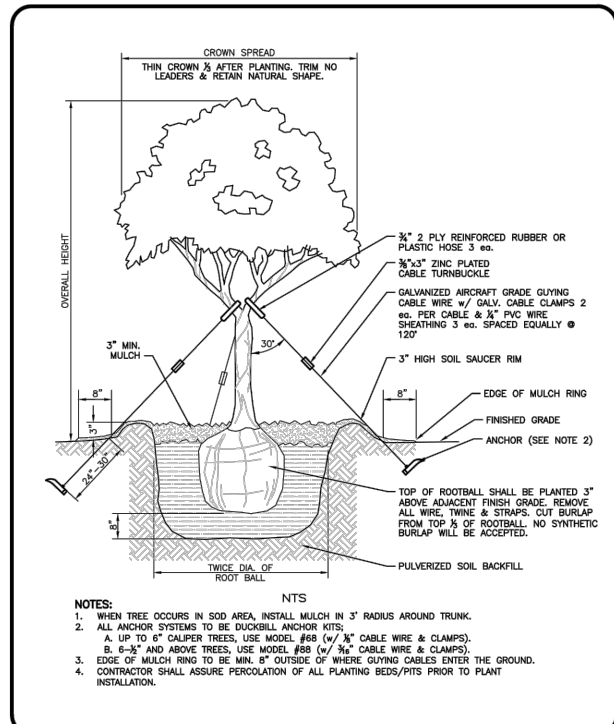
TEDS

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CERTIFICATE OF AUTHORIZATION NO. 27392

SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

CONSTRUCTION DETAILS

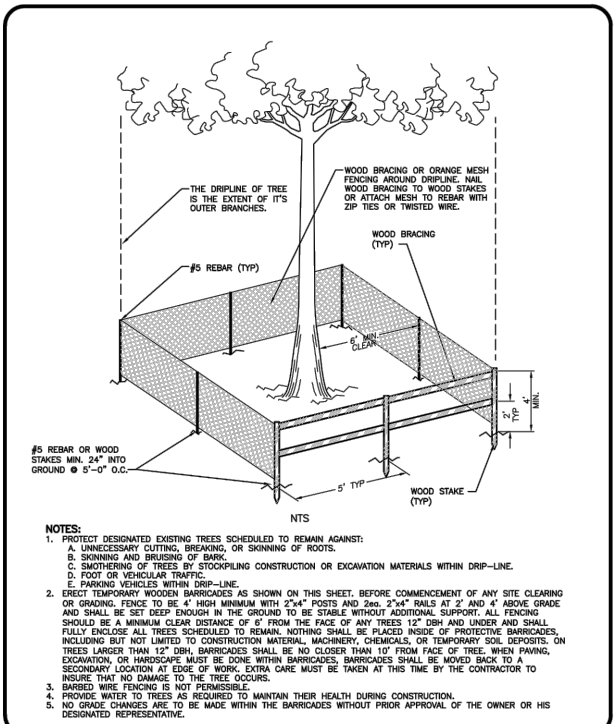
SHEET NO.
41 of 65



THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

TYPICAL TREE PLANTING DETAIL
L-1

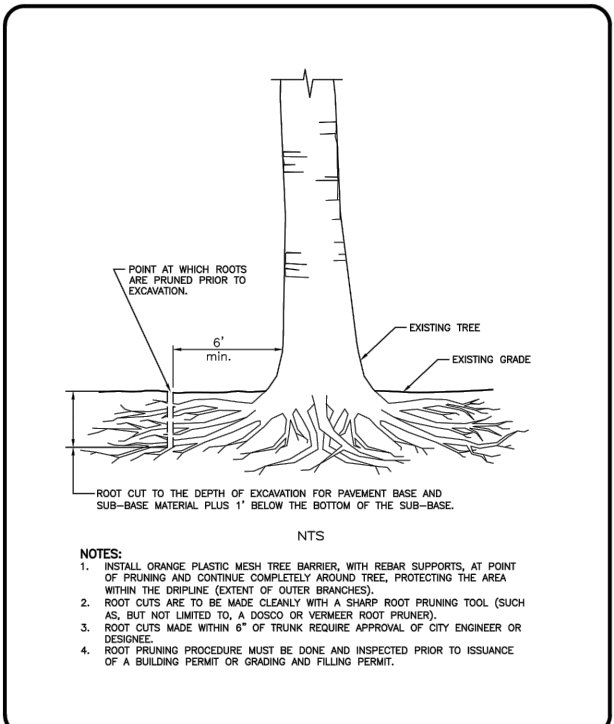
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File Name: 61-1



THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

TREE PROTECTION BARRICADE DETAIL
L-6

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Revision Date: 10/2011
File Name: 61-6



THE CITY OF DAYTONA BEACH
ENGINEERING DIVISION

ROOT PRUNING DETAIL
L-7

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Revision Date: 10/2011
File Name: 61-7

| REVISIONS | | |
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| DATE | BY | DESCRIPTION |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
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| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

THE CITY OF DAYTONA BEACH
INCORPORATED JULY 1887

CITY OF DAYTONA BEACH

FEEDS
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CONSTRUCTION DETAILS

SHEET NO.
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STORMWATER CONSTRUCTION NOTES

- 1. ALL MATERIALS AND INSTALLATION AND SEDIMENT AND EROSION CONTROL METHODS USED FOR LAND DEVELOPMENT CODE IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDEP, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JULY 2018) AND THE FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2018-2019. THE USE OF BEST MANAGEMENT PRACTICES (BMP'S) IS REQUIRED.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION STORMWATER CONSTRUCTION NOTES (PAGE 1 OF 4) ST-1

STORMWATER CONSTRUCTION NOTES (CONT'D)

- 10. IN GENERAL, ALL RETENTION/DETENTION SITES MUST BE CONSTRUCTED AND VEGETATED AS NECESSARY ON ALL PROJECTS PRIOR TO ANY ROAD, PARKING LOT, OR BUILDING CONSTRUCTION COMMENCING OR AS CURRENT PERMIT CONDITIONS DICTATE. SEWER AND WATER MAINS MAY BE INSTALLED PRIOR TO RETENTION/DETENTION SITE CONSTRUCTION IF DEWATERING IS NOT REQUIRED. HOWEVER BMP'S FOR EROSION AND SEDIMENT CONTROL WILL BE IMPLEMENTED AS NECESSARY.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION STORMWATER CONSTRUCTION NOTES (PAGE 2 OF 4) ST-2

STORMWATER CONSTRUCTION NOTES (CONT'D)

- 22. THE CITY MAY REQUEST THAT THE DEVELOPER SUBMIT A REPORT BY A QUALIFIED HYDROLOGIST OR HYDROGEOLOGIST ON THE IMPACT THE WET POND WILL HAVE ON NEIGHBORING WATER TABLE ELEVATIONS BOTH DURING CONSTRUCTION AND AFTER LAKE COMPLETION. THE CITY MAY REQUIRE GROUNDWATER MONITORING DURING THE LAKE EXCAVATION.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION STORMWATER CONSTRUCTION NOTES (PAGE 3 OF 4) ST-3

STORMWATER CONSTRUCTION NOTES (CONT'D)

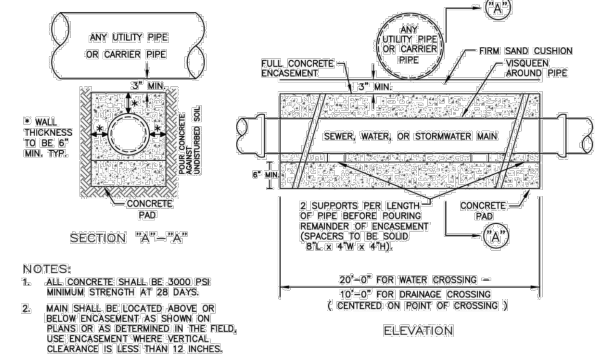
- 31. STORM INLETS SHALL BE SPACED IN SUCH A MANNER AS TO ACCEPT ONE HUNDRED (100) PERCENT OF THE DESIGN STORM RUNOFF WITHOUT IMPEDING THE FLOW OF TRAFFIC. FOR ROADWAY SECTIONS WITH DESIGN SPEEDS OF 45 MPH AND LESS AND WITHOUT FULL WIDTH SHOULDERS, SPACING RESULTING FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR SHALL NOT EXCEED ONE-HALF OF THE TRAVEL LANE ADJACENT TO THE CUTTER. FOR SITE PLANS, INLET SPACING SHALL BE DESIGNED TO ACCEPT ONE HUNDRED (100) PERCENT OF THE RUNOFF FROM A RAINFALL INTENSITY OF FOUR INCHES (4") PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION STORMWATER CONSTRUCTION NOTES (PAGE 4 OF 4) ST-4

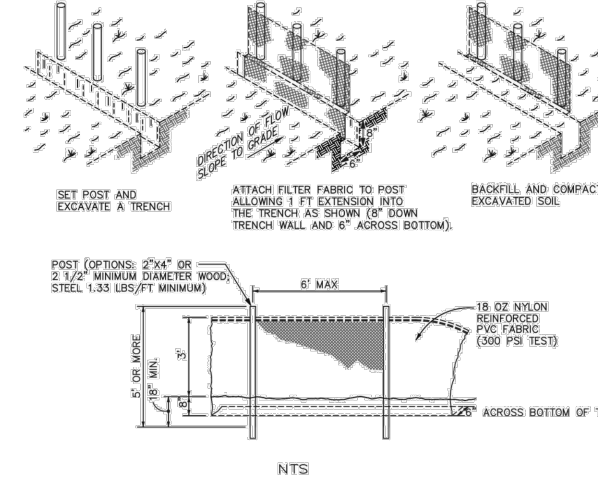
EROSION & SEDIMENT CONTROL NOTES

- 1. ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES (BMP'S) TO CONTROL EROSION, SEDIMENTATION, AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.

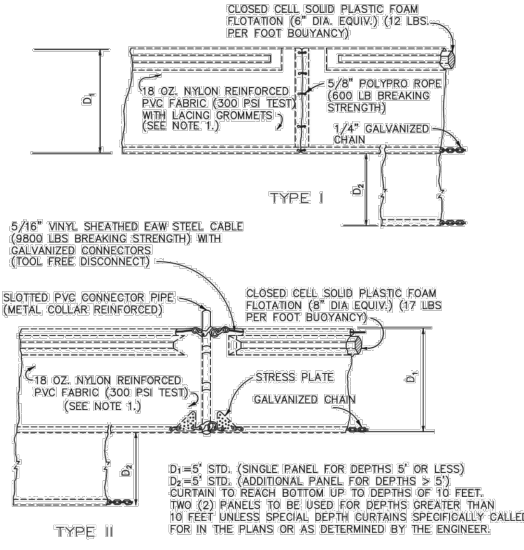
THE CITY OF DAYTONA BEACH ENGINEERING DIVISION EROSION AND SEDIMENT CONTROL NOTES ST-5



THE CITY OF DAYTONA BEACH UTILITIES DEPARTMENT UTILITY PIPE CONCRETE ENCASUREMENT DETAIL ST-7



THE CITY OF DAYTONA BEACH ENGINEERING DIVISION STAKED SILT FENCE DETAIL ST-9



THE CITY OF DAYTONA BEACH ENGINEERING DIVISION FLOATING TURBIDITY BARRIER DETAIL ST-10

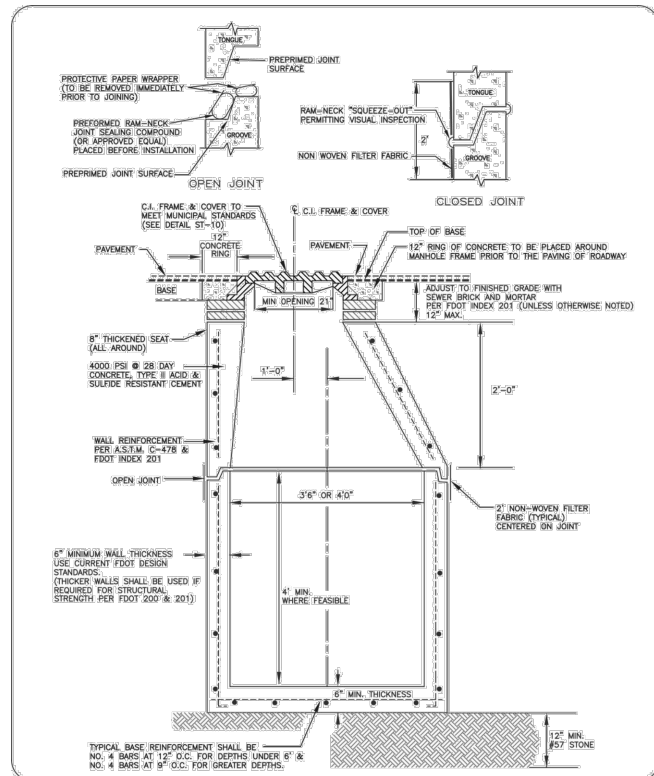
Table with columns: DATE, BY, DESCRIPTION. Rows include revision dates from 02/15/2017 to 01/04/2019.

CITY OF DAYTONA BEACH logo and name.

FEEDS logo and contact information: Mikal Reed Hale P.E. - #58048, TRAFFIC ENGINEERING DATA SOLUTIONS, INC., Phone 386.753.0558, 80 Spring Vista Drive, DeBary, FL 32713, CERTIFICATE OF AUTHORIZATION NO. 27392.

SWEETHEART TRAIL DAYTONA BEACH - GAP 6: S. BEACH ST (FROM WILDER BLVD TO SHADY PLACE) FPID: 439866-1-54-01

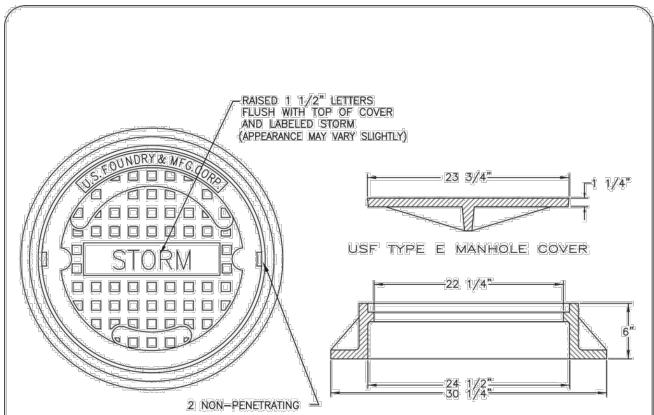
CONSTRUCTION DETAILS SHEET NO. 43 of 65 CITY PROJECT No. 2016-007



THE CITY OF DAYTONA BEACH ENGINEERING DIVISION

STORMWATER MANHOLE DETAIL ST-15

| |
|-----------------------|
| ST-15/15 |
| Drawn: JRM/10/17/15 |
| Checked: JRM/10/17/15 |
| Scale: 1/8\"/> |



- NOTES:
- MORTAR TO CONTAIN "HYDRATITE", OR APPROVED EQUAL, TO PREVENT SHRINKAGE.
 - SUB-GRADE BENEATH MANHOLES SHALL BE FIRM UNDISTURBED GRANULAR UNSATURATED SOIL. NO. 57 AGGREGATE STONE SHALL BE USED IN WET CONDITIONS AND/OR WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.
 - UNLESS DETAILED PLANS SHOW OTHERWISE, ALL MANHOLE RING AND COVER CASTINGS IN PAVED AREAS ARE TO BE ADJUSTED TO FINAL GRADE, SEALED AND SECURED IN PLACE WITH A CONCRETE COLLAR AFTER THE ROAD BASE IS PLACED AND JUST PRIOR TO PLACEMENT OF ASPHALT WEARING SURFACE.
 - CONTRACTOR SHALL PROVIDE THICKER MANHOLE WALLS AND BASES AS REQUIRED TO PREVENT FLOTATION BASED ON HISTORIC HIGH GROUND WATER TABLE ELEVATIONS AS DETERMINED USING ACCEPTED ENGINEERING PRACTICES AND/OR APPROVED BY THE UTILITIES DEPARTMENT.
 - CONCRETE COLLAR AROUND MANHOLE FRAME IS REQUIRED IN PAVED AREAS ONLY.
 - SHOP DRAWINGS FOR ALL STRUCTURES SHALL BE SUBMITTED TO AND APPROVED BY THE DESIGN ENGINEER PRIOR TO INSTALLATION.
 - NO BUG HOLES OR HONEYCOMB WILL BE ACCEPTED.
 - ENDS OF SECTION SHALL FIT FLUSH TOGETHER.
 - MANHOLES SHALL BE CLEARED OF ALL DEBRIS PRIOR TO CITY ACCEPTANCE AND SYSTEM USE.

THE CITY OF DAYTONA BEACH ENGINEERING DIVISION

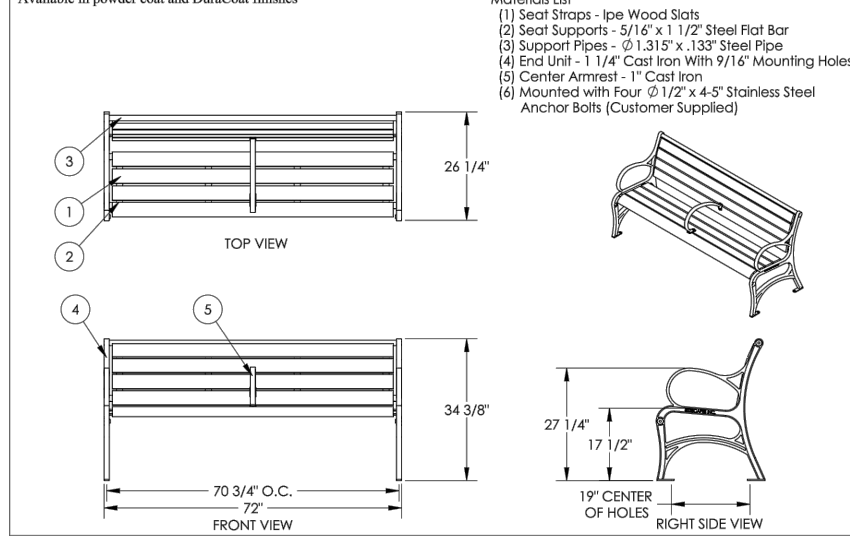
STORM-SEWER COVER DETAIL & MH GENERAL NOTES ST-16

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| ST-16/15/16 |
| Drawn: JRM/03/20/16 |
| Checked: JRM/03/20/16 |
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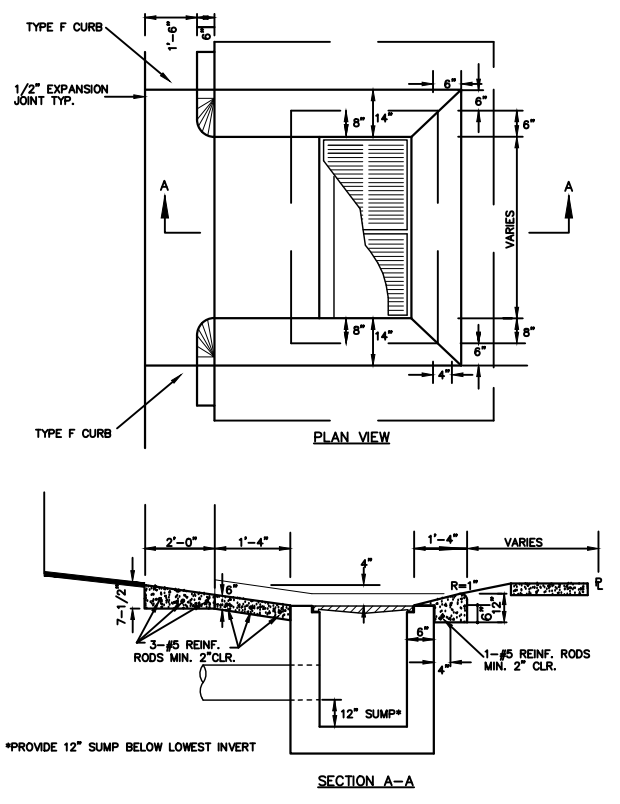
siteScapes P.O. Box 22326 Lincoln, NE 68542
 PF: 402/421-9464 | WEBSITE: www.sitescapesonline.com
 FX: 402/421-9479 | E-MAIL: info@sitescapesonline.com

TITLE: AVONDALE BACKED BENCH PRODUCT NO: AVI-1011
 INCH TOLERANCES U.O.S. FRACTION-- ± 1/16" ANG-- ± 1°

*Available in powder coat and DuraCoat finishes



PARK BENCH DETAIL (D-2)
NOT TO SCALE



STORM INLET APRON DETAIL (D-3)
NOT TO SCALE

| REVISIONS | | |
|------------|-----|--|
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| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |

THE CITY OF DAYTONA BEACH INCORPORATED JULY 1968

CITY OF DAYTONA BEACH

FEEDS

Mikal Reed Hale P.E. - #58048
 TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
 Phone 386.753.0558 80 Spring Vista Drive
 Fax 386.753.0778 DeBary, FL 32713
 CERTIFICATE OF AUTHORIZATION NO. 27392

SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

CONSTRUCTION DETAILS

SHEET NO.
44 of 65

SITE DESCRIPTION

PROJECT NAME AND LOCATION

SWEETHEART TRAIL - DAYTONA BEACH GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01
CITY OF DAYTONA BEACH
VOLUSIA COUNTY, FL

*SEE COVER SHEET FOR LOCATION MAP

PROJECT OWNER AND ADDRESS

CITY OF DAYTONA BEACH
301 S. RIDGEWOOD AVE
DAYTONA BEACH, FL 32114

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF CONSTRUCTING 0.440 MILES OF PROPOSED CONCRETE SHARED USE PATH WITH MINIMAL DISTURBANCE OF SURROUNDING AREA. REQUIRED DRAINAGE DESIGN IS LIMITED TO MODIFICATION OF THE EXISTING COLLECTION SYSTEM TO MAINTAIN THE EXISTING CONDITIONS.

PROJECT AREA: 4.931 ACRES (RIGHT OF WAY)
TOTAL DISTURBED AREA: 3.047 ACRES

ULTIMATE RECEIVING WATERS: HALIFAX RIVER

ACTIVITIES THAT REQUIRE EROSION CONTROL

CLEARING AND GRUBBING; GRADING

*SEE PLANS FOR THE LOCATION OF TEMPORARY SEDIMENT BARRIERS AND OTHER EROSION CONTROL METHODS.

SOIL PARAMETERS

TURNBULL VARIANT SAND 68

CERTIFICATION OF LOCAL, STATE AND FEDERAL LAWS

THE FOLLOWING REQUIRED PERMITS ARE BEING OBTAINED:

EXEMPTION FROM SJRWMD ENVIRONMENTAL RESOURCE PERMIT

SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF CONSTRUCTION IS AS FOLLOWS:

1. INSTALL SILT FENCES AND OTHER EROSION CONTROL METHODS
2. FINISH CLEARING AND GRUBBING
3. REMOVE AND STORE TOPSOIL
4. PROVIDE INITIAL GRADING AS REQUIRED
5. STABILIZE ALL DISTURBED AREAS AS SOON AS POSSIBLE
6. INSTALL RIGHT TURN LANE AND SIDEWALK IMPROVEMENTS
7. FINISH GRADING ENTIRE PROJECT
8. REMOVE ACCUMULATED SEDIMENT
9. REMOVE ANY ITEMS THAT ARE NOT REQUIRED

TIMING OF CONTROL MEASURES

THE INSTALLATION OF SILT FENCE (AND OTHER EROSION CONTROL MEASURES) AND TEMPORARY CONSTRUCTION ENTRANCE(S) SHALL OCCUR PRIOR TO CLEARING AND GRUBBING ACTIVITY. AFTER CONSTRUCTION IS COMPLETE, THE ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE AREAS SHALL BE REGRADED AND PERMANENTLY STABILIZED AS SHOWN ON THE PLANS.

EROSION AND SEDIMENT CONTROLS

BEST MANAGEMENT PRACTICES SHALL BE USED FOR THIS PROJECT TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN-OFF. THE LOCATION AND DETAILS OF EROSION CONTROL METHODS ARE SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN ON THE PLANS OR AS REQUIRED. HE/SHE SHALL ALSO PROVIDE THE REQUIRED EROSION PROTECTION AS REQUIRED BY LOCAL, STATE AND FEDERAL LAW.

STORM WATER MANAGEMENT

UNDER PRESENT CONDITIONS, STORM WATER RUNOFF WITHIN THE PROJECT CORRIDOR FLOWS WITHIN A SERIES OF OPEN CHANNEL AND PIPE CULVERTS JUST UPSTREAM OF THE SYSTEM'S DIRECT DISCHARGE TO THE HALIFAX RIVER. IN PROPOSED CONDITIONS, LOCAL DEPRESSIONAL AREAS WILL BE CREATED WHICH WILL RECEIVE AND STORE SMALL AMOUNTS OF RUNOFF, SUCH THAT EXISTING DRAINAGE PATTERNS ARE MAINTAINED.

STABILIZATION PRACTICES:

TEMPORARY STABILIZATION - NO TEMPORARY STABILIZATION IS ANTICIPATED TO BE REQUIRED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH PERMANENT SOD NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

WASTE DISPOSAL

WASTE MATERIALS - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

HAZARDOUS WASTE - HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.

SANITARY WASTE - SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.

OFFSITE TRACKING

A TEMPORARY CONSTRUCTION ENTRANCE OR OTHER MEASURES SHALL BE INSTALLED TO REDUCE OFFSITE TRACKING FROM CONSTRUCTION VEHICLES ENTERING AND EXITING THE PROJECT SITE, WHICH SHALL BE MAINTAINED PROPERLY TO ENSURE THEIR CONTINUED EFFECTIVE OPERATION. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPULIN.

ITEMS REQUIRING POLLUTION PREVENTION

THE FOLLOWING ITEMS ARE EXPECTED TO BE PRESENT WITHIN THE PROJECT AREA:

- CONCRETE
- FERTILIZERS
- METAL PIECES
- PETROLEUM BASED PRODUCTS
- CLEANING SUPPLIES
- DETERGENTS
- WOOD

THE FOLLOWING ARE NON-STORM WATER SOURCES THAT MAY BE ENCOUNTERED AT THE SITE AND SHOULD BE DIRECTED TO THE SEDIMENT BASIN, IF UTILIZED, PRIOR TO DISCHARGE:

- UNCONTAMINATED GROUNDWATER EXPOSED DURING EXCAVATION
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

-SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.

-STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION.

-ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.

-ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.

-PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER.

-ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

HAZARDOUS PRODUCTS

-MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.

-PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

PRODUCT SPECIFIC PRACTICES

-PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.

-CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER WITHIN THE PROJECT AREA.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

-SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.

-THE FOLLOWING CLEAN-UP EQUIPMENT MUST BE KEPT ON-SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.

-ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.

-WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.

-TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.

-AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.

-THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

MAINTENANCE AND INSPECTION PRACTICES

THE FOLLOWING ARE MAINTENANCE AND INSPECTION PRACTICES THAT SHALL BE COMPLETED BY THE CONTRACTOR:

-ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL BY THE SUPERINTENDENT OR SOMEONE UNDER HIS/HER DIRECT SUPERVISION.

-ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE KEPT IN GOOD CONDITION. REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.

-THE SILT FENCE SHALL BE CLEARED OF SEDIMENT WHEN SEDIMENT MEASURES ONE-THIRD THE HEIGHT OF THE FENCE.

-THE SILT FENCE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF FENCE.

-IF UTILIZED, THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. THEY SHALL BE CLEANED WHEN SEDIMENT REACHES 10% OF TOTAL CAPACITY AND AFTER CONSTRUCTION IS COMPLETE.

-IF UTILIZED, THE DIVERSION DIKE SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.

-ALL SEEDING/SODDING SHALL BE CHECKED FOR PROPER GROWTH AND UNIFORMITY. UNSTABILIZED AREAS SHALL BE RE-SODDED.

-A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.

-THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION. IT IS DESIGNED IN ACCORDANCE WITH AN EXISTING SYSTEM AND QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION OBTAINED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE.

SIGNED: _____ DATE: _____

MIKAL REED HALE, PE
FLORIDA REGISTRATION NUMBER: 58048
PROFESSIONAL ENGINEER

CONTRACTOR'S CERTIFICATION

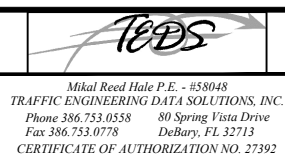
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

| SIGNATURE/DATE | COMPANY NAME/ADDRESS | RESPONSIBILITY |
|----------------|----------------------|----------------|
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| REVISIONS | | |
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CITY OF
DAYTONA BEACH



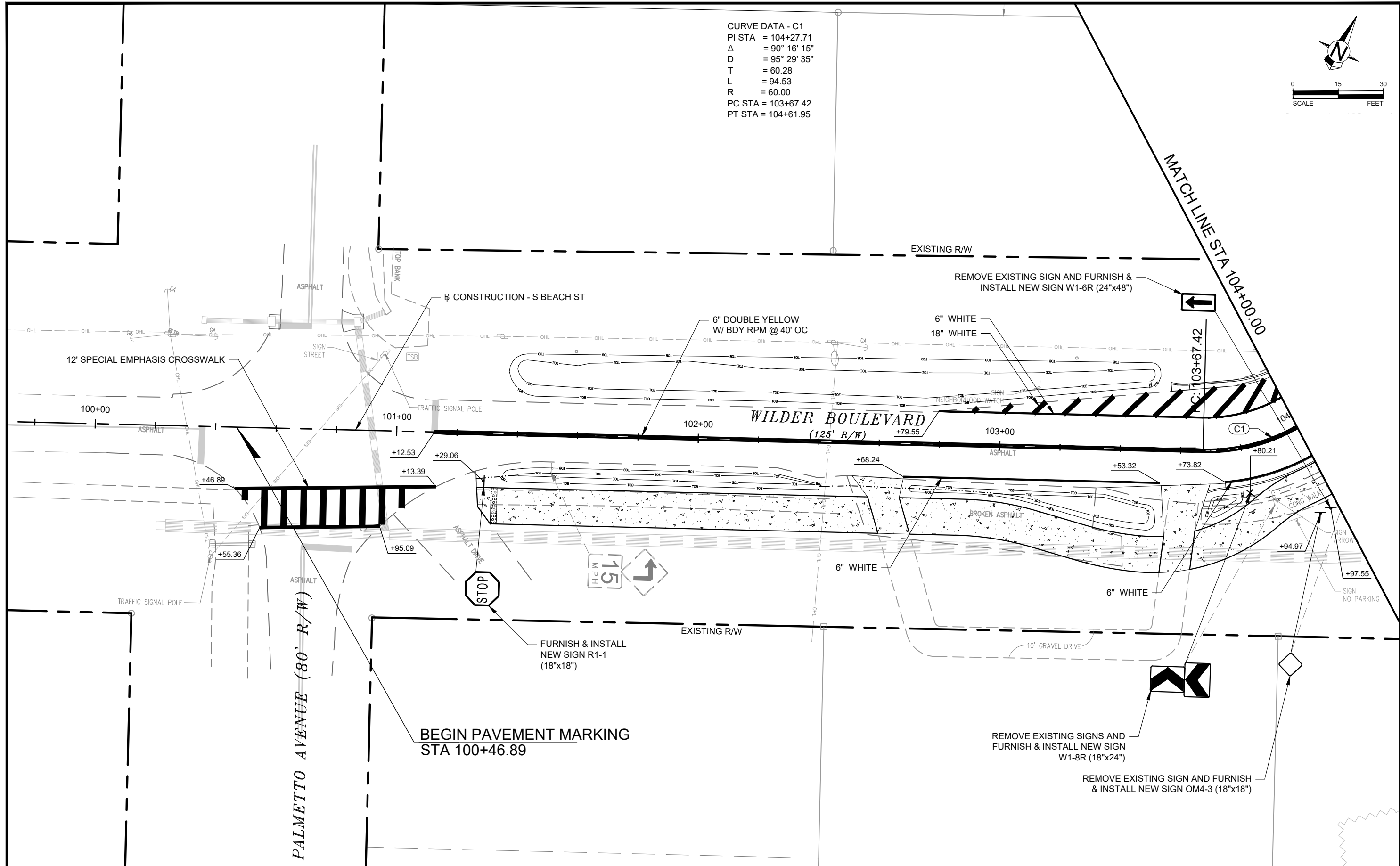
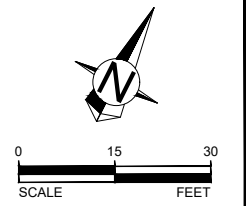
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

SWPPP NOTES

SHEET
NO.

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CURVE DATA - C1
 PI STA = 104+27.71
 Δ = 90° 16' 15"
 D = 95° 29' 35"
 T = 60.28
 L = 94.53
 R = 60.00
 PC STA = 103+67.42
 PT STA = 104+61.95



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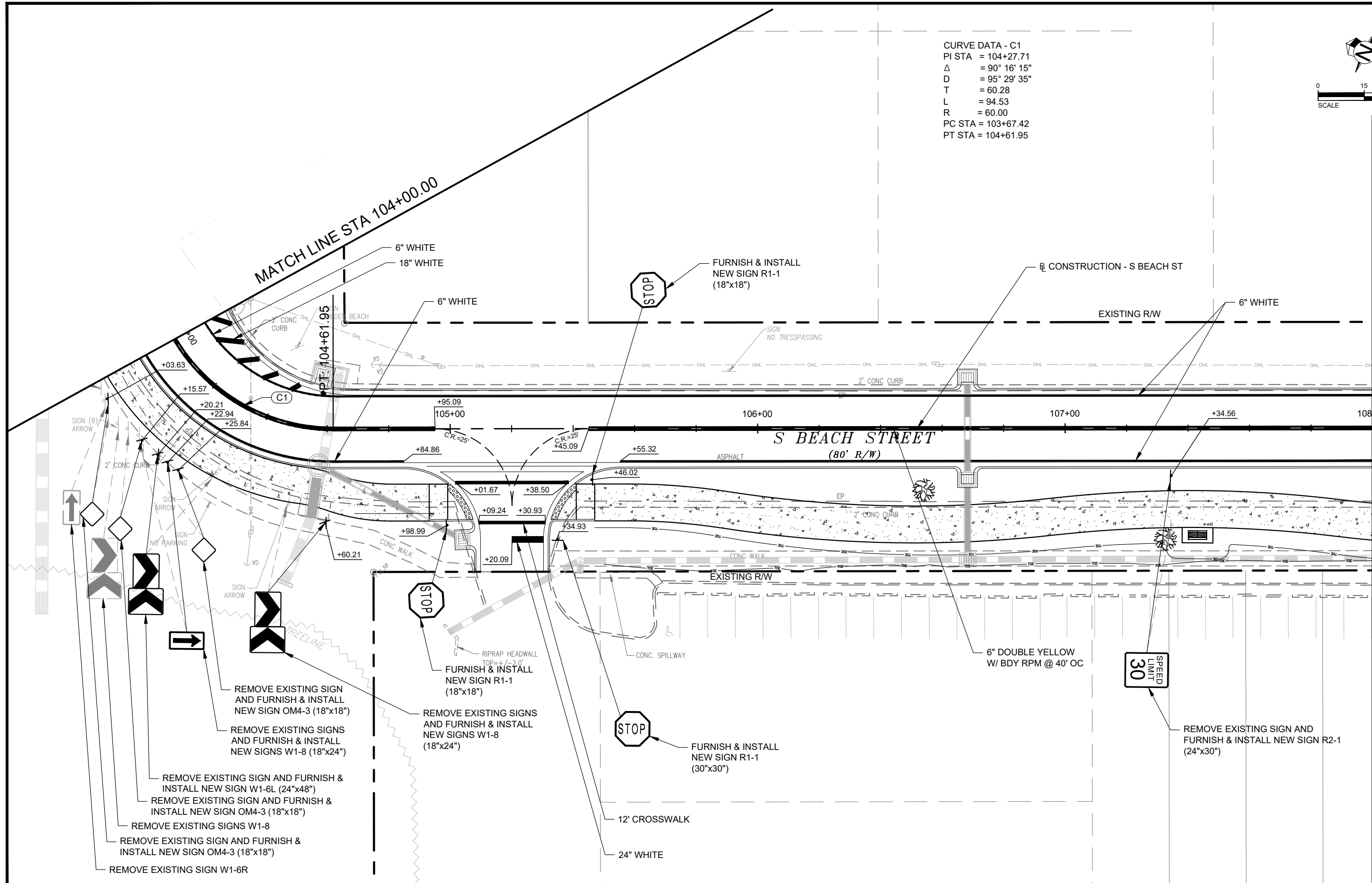
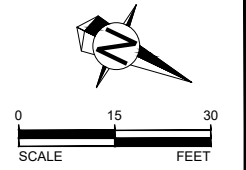
Mikal Reed Hale P.E. - #58048
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 Phone 386.753.0558 80 Spring Vista Drive
 Fax 386.753.0778 DeBary, FL 32713
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SIGNING AND PAVEMENT
 MARKING PLAN

SHEET
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MATCH LINE STA 104+00.00

MATCH LINE STA 0+00

S BEACH STREET
(80' R/W)

SIGN (8) ARROW

SIGN ARROW

SIGN NO PARKING

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

SIGN ARROW

REMOVE EXISTING SIGN AND FURNISH & INSTALL NEW SIGN OM4-3 (18"x18")

REMOVE EXISTING SIGNS AND FURNISH & INSTALL NEW SIGNS W1-8 (18"x24")

REMOVE EXISTING SIGN AND FURNISH & INSTALL NEW SIGN W1-6L (24"x48")

REMOVE EXISTING SIGN AND FURNISH & INSTALL NEW SIGN OM4-3 (18"x18")

REMOVE EXISTING SIGNS W1-8

REMOVE EXISTING SIGN AND FURNISH & INSTALL NEW SIGN OM4-3 (18"x18")

REMOVE EXISTING SIGN W1-6R

FURNISH & INSTALL NEW SIGN R1-1 (18"x18")

REMOVE EXISTING SIGNS AND FURNISH & INSTALL NEW SIGNS W1-8 (18"x24")

FURNISH & INSTALL NEW SIGN R1-1 (30"x30")

REMOVE EXISTING SIGN AND FURNISH & INSTALL NEW SIGN R2-1 (24"x30")

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CITY OF DAYTONA BEACH

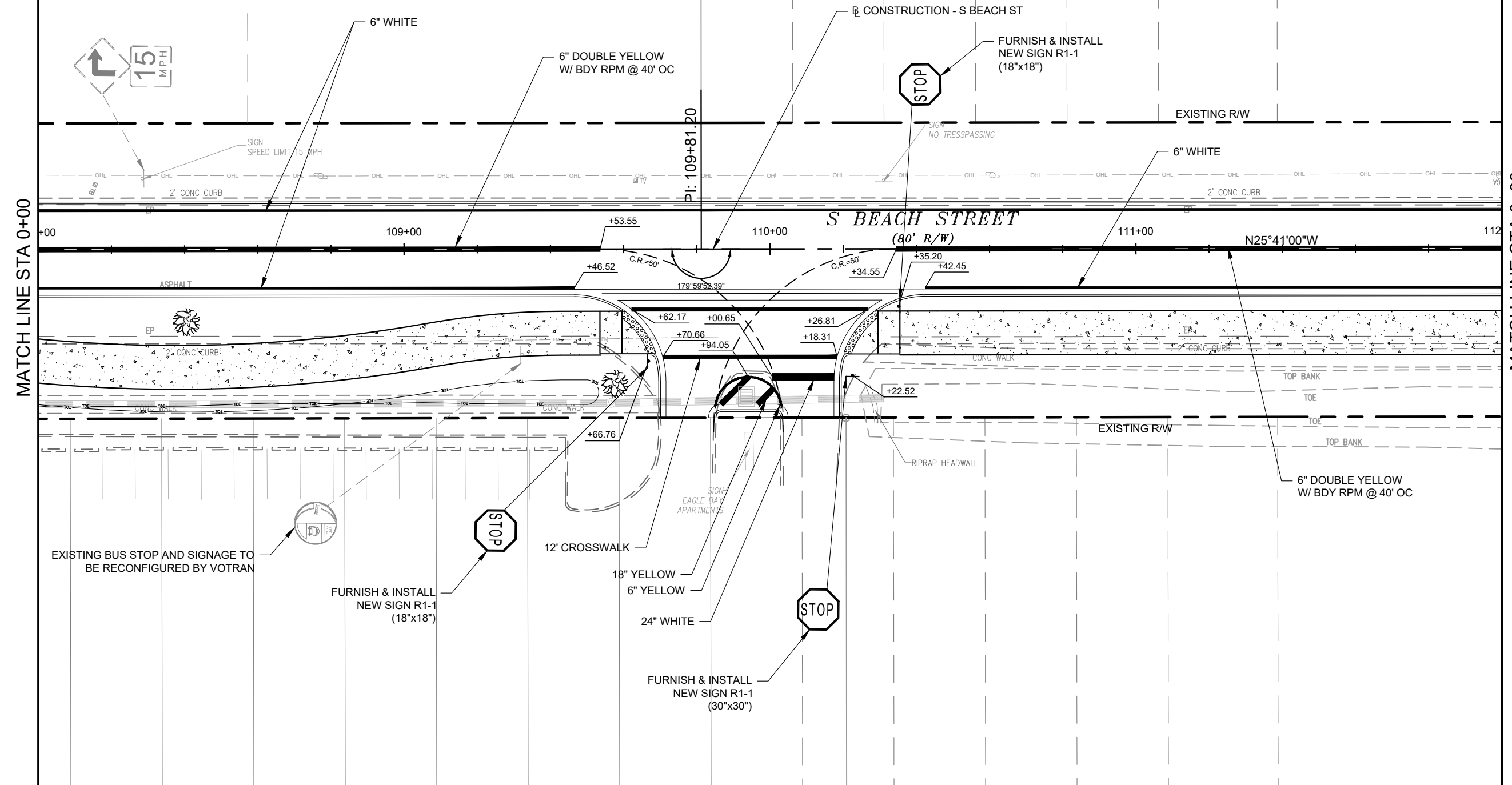
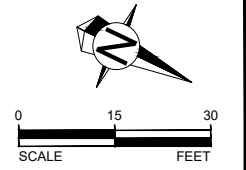
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SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.

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MATCH LINE STA 0+00

MATCH LINE STA 0+00

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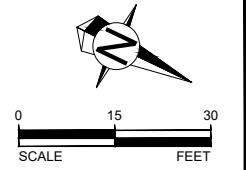


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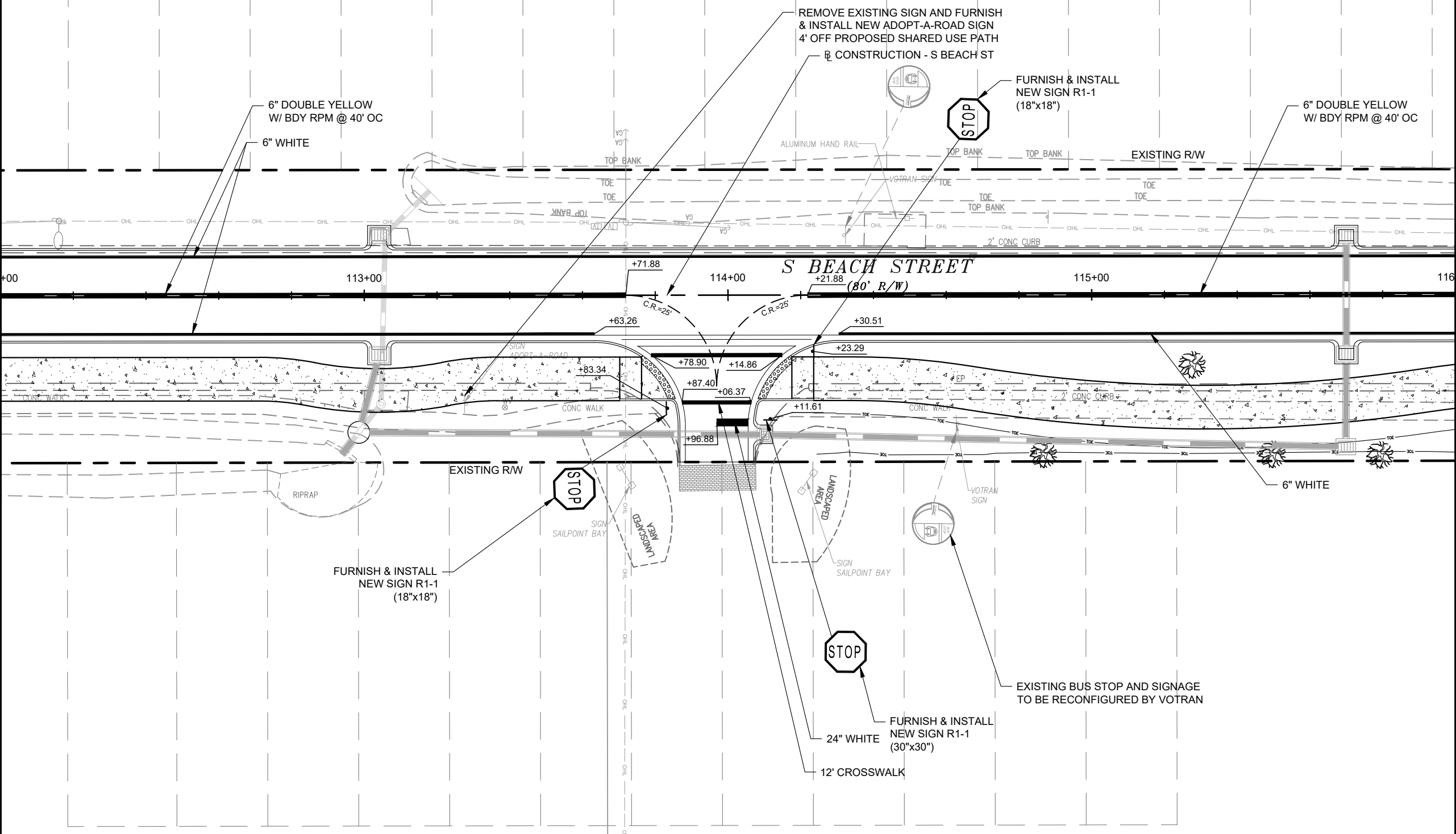
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
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MATCH LINE STA 0+00

MATCH LINE STA 0+00



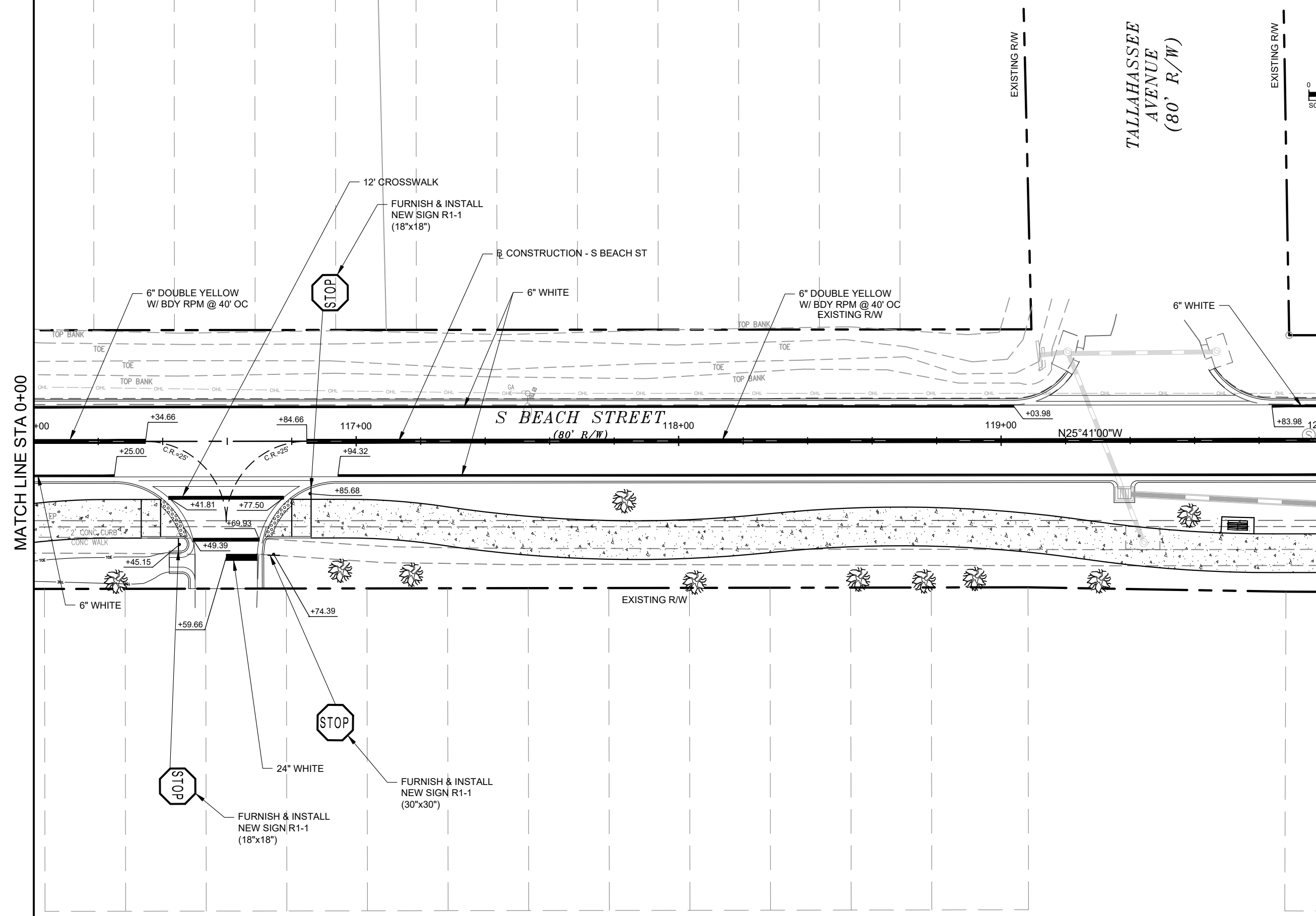
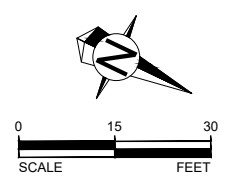
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SIGNING AND PAVEMENT
MARKING PLAN

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MATCH LINE STA 0+00

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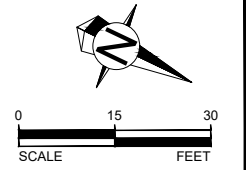
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| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
| 01/04/2019 | TAS | REVISED PER FDOT COMMENTS |



SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

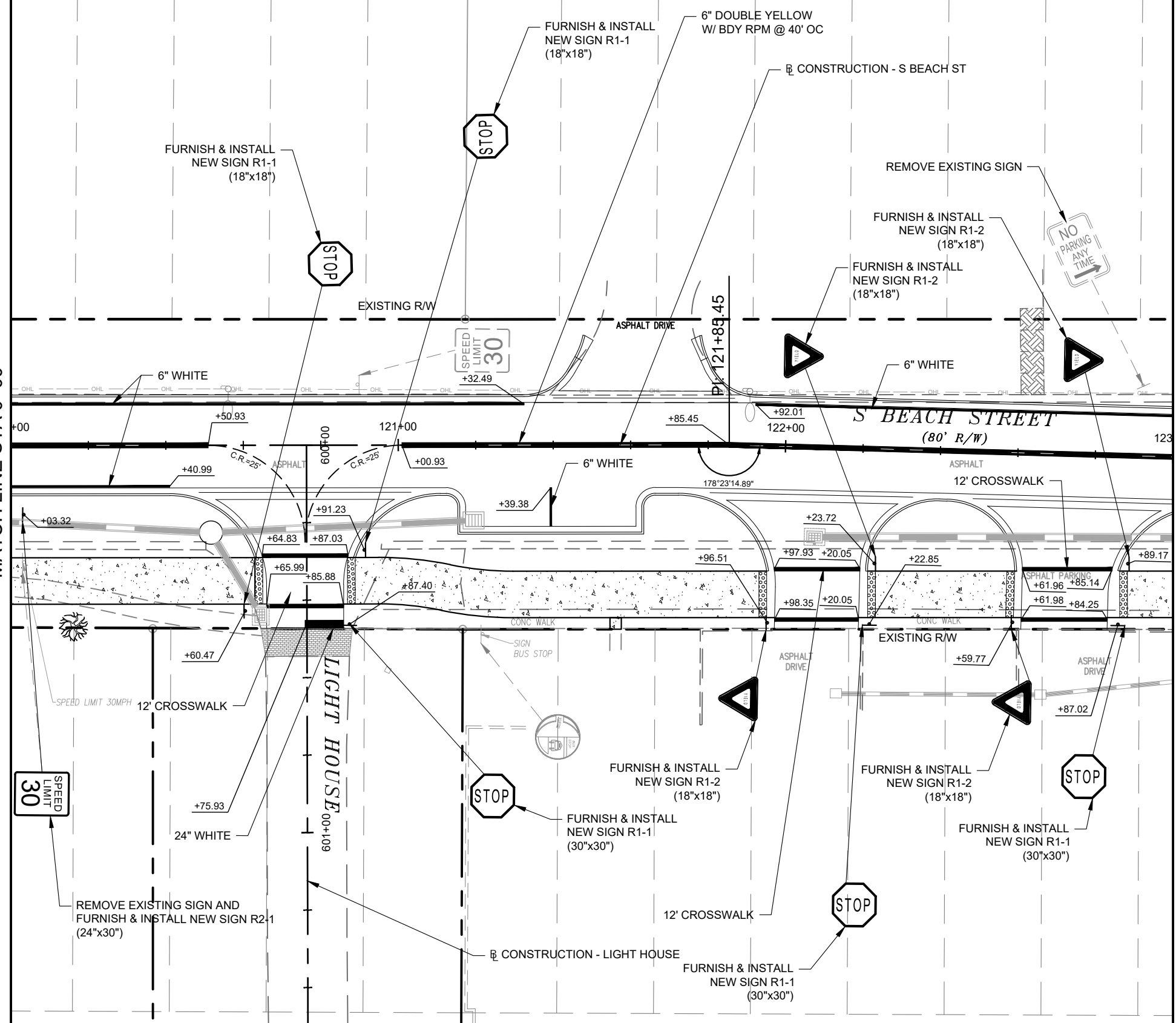
SIGNING AND PAVEMENT
MARKING PLAN

SHEET
 NO.
50 of 65



MATCH LINE STA 0+00

MATCH LINE STA 0+00



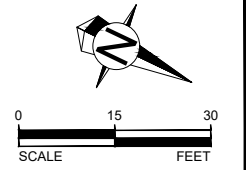
| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
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| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
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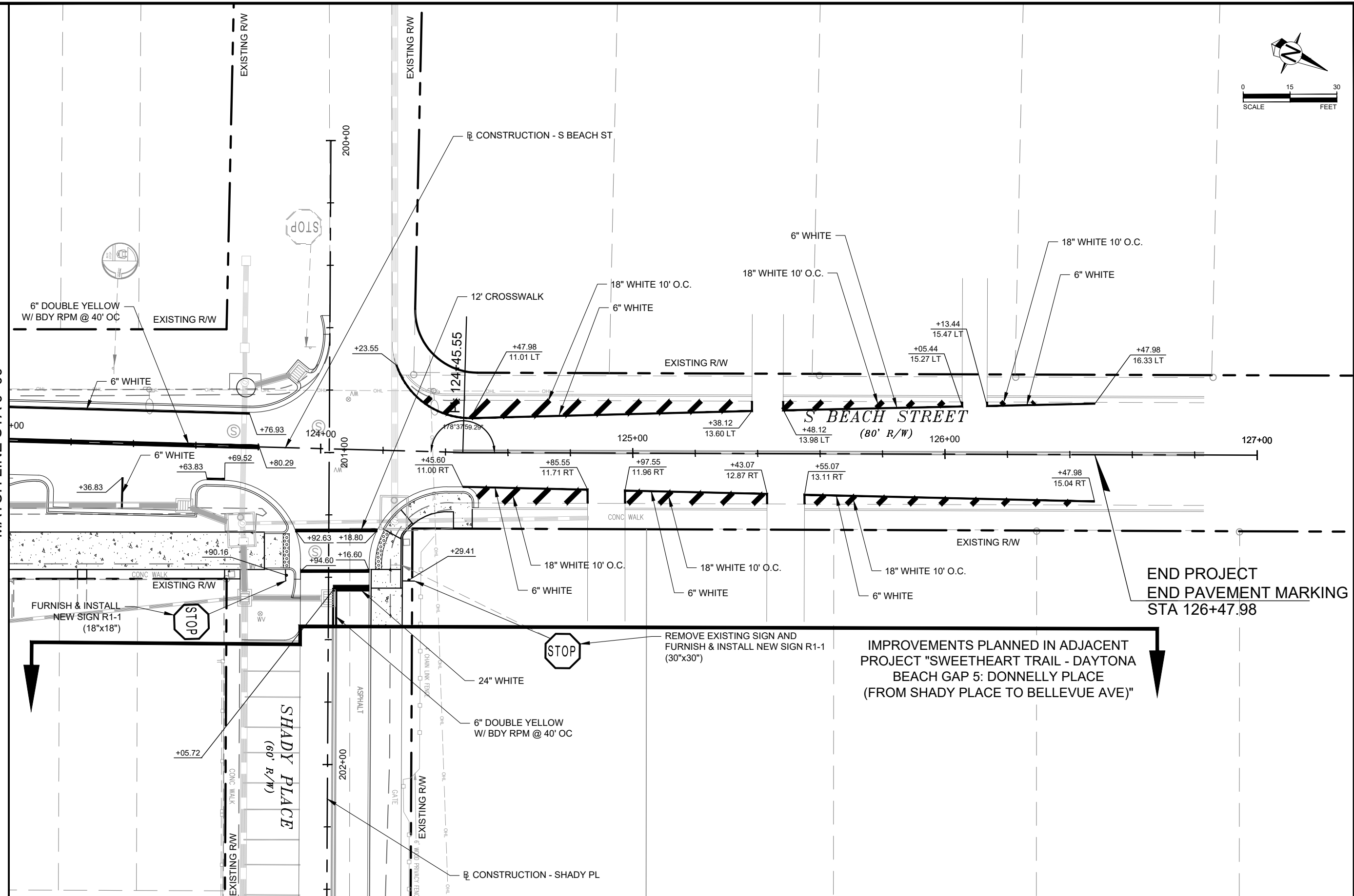
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.
51 of 65



MATCH LINE STA 0+00



END PROJECT
END PAVEMENT MARKING
STA 126+47.98

IMPROVEMENTS PLANNED IN ADJACENT
PROJECT "SWEETHEART TRAIL - DAYTONA
BEACH GAP 5: DONNELLY PLACE
(FROM SHADY PLACE TO BELLEVUE AVE)"

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
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| 10/09/2018 | TAS | REVISED PER CITY COMMENTS |
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SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

**SIGNING AND PAVEMENT
MARKING PLAN**

SHEET
NO.
52 of 65

Drawing name: Z:\2011 Projects\10359 (Daytona Beach)_Cont Civil & LA\IWA #05 - HRGT - Beach St (Phases 1 & 2)\CAD\GAP 6\PLANS\4 LIGHTING PLAN - POLE DATA & LEGEND.dwg 54 LIGHTING PLAN - POLE DATA & LEGEND Jan 04, 2019 10:47am by: Tristan

POLE DATA

| POLE No. | CIRCUIT | STATION / BASELINE | DIST. OR ARM | LUMINAIRE WATTAGE | SHIELDED | MOUNTING HEIGHT | POLE OFFSET | SIDE | PAY ITEM |
|----------|---------|--------------------|--------------|-------------------|----------|-----------------|-------------|------|-------------|
| 100 | A-1 | 101+48.98 | N / A | 35 | N | 14' | 38.09 | RT | 715-516-415 |
| 101 | A-1 | 102+26.85 | N / A | 35 | N | 14' | 37.37 | RT | 715-516-415 |
| 102 | A-1 | 103+00.20 | N / A | 35 | N | 14' | 37.89 | RT | 715-516-415 |
| 103 | A-1 | 103+70.19 | N / A | 35 | N | 14' | 41.43 | RT | 715-516-415 |
| 104 | A-1 | 104+07.53 | N / A | 35 | N | 14' | 29.00 | RT | 715-516-415 |
| 105 | A-1 | 104+44.06 | N / A | 35 | N | 14' | 29.00 | RT | 715-516-415 |
| 106 | A-1 | 104+95.45 | N / A | 35 | N | 14' | 34.00 | RT | 715-516-415 |
| 107 | A-1 | 105+65.11 | N / A | 35 | N | 14' | 34.13 | RT | 715-516-415 |
| 108 | A-1 | 106+38.11 | N / A | 35 | N | 14' | 41.04 | RT | 715-516-415 |
| 109 | A-1 | 107+10.53 | N / A | 35 | N | 14' | 37.42 | RT | 715-516-415 |
| 110 | A-1 | 107+73.54 | N / A | 35 | N | 14' | 37.72 | RT | 715-516-415 |
| 111 | A-1 | 108+36.47 | N / A | 35 | N | 14' | 40.50 | RT | 715-516-415 |
| 112 | A-1 | 109+01.64 | N / A | 35 | N | 14' | 37.29 | RT | 715-516-415 |
| 113 | A-1 | 109+62.44 | N / A | 35 | N | 14' | 33.00 | RT | 715-516-415 |
| 114 | A-1 | 110+32.04 | N / A | 35 | N | 14' | 32.00 | RT | 715-516-415 |
| 115 | A-1 | 110+99.30 | N / A | 35 | N | 14' | 31.00 | RT | 715-516-415 |
| 116 | A-1 | 111+65.68 | N / A | 35 | N | 14' | 31.00 | RT | 715-516-415 |
| 117 | A-1 | 112+30.87 | N / A | 35 | N | 14' | 31.03 | RT | 715-516-415 |
| 118 | A-1 | 112+95.80 | N / A | 35 | N | 14' | 33.14 | RT | 715-516-415 |
| 119 | A-1 | 113+62.89 | N / A | 35 | N | 14' | 32.00 | RT | 715-516-415 |
| 120 | A-1 | 114+30.86 | N / A | 35 | N | 14' | 33.00 | RT | 715-516-415 |
| 121 | A-1 | 114+95.22 | N / A | 35 | N | 14' | 36.94 | RT | 715-516-415 |
| 122 | A-1 | 115+62.71 | N / A | 35 | N | 14' | 38.49 | RT | 715-516-415 |
| 123 | A-1 | 116+31.55 | N / A | 35 | N | 14' | 33.00 | RT | 715-516-415 |
| 124 | A-1 | 117+00.15 | N / A | 35 | N | 14' | 33.03 | RT | 715-516-415 |
| 125 | A-1 | 117+69.09 | N / A | 35 | N | 14' | 40.38 | RT | 715-516-415 |
| 126 | A-1 | 118+40.33 | N / A | 35 | N | 14' | 37.61 | RT | 715-516-415 |
| 127 | A-1 | 119+12.02 | N / A | 35 | N | 14' | 40.02 | RT | 715-516-415 |
| 128 | A-1 | 119+78.83 | N / A | 35 | N | 14' | 44.96 | RT | 715-516-415 |
| 129 | A-1 | 120+46.46 | N / A | 35 | N | 14' | 44.31 | RT | 715-516-415 |
| 130 | A-1 | 121+11.86 | N / A | 35 | N | 14' | 45.13 | RT | 715-516-415 |
| 131 | A-1 | 121+78.01 | N / A | 35 | N | 14' | 46.60 | RT | 715-516-415 |
| 132 | A-1 | 122+39.99 | N / A | 35 | N | 14' | 45.13 | RT | 715-516-415 |
| 133 | A-1 | 123+07.19 | N / A | 35 | N | 14' | 43.29 | RT | 715-516-415 |
| 134 | A-1 | 123+75.50 | N / A | 35 | N | 14' | 41.43 | RT | 715-516-415 |
| 135 | A-1 | 124+28.58 | N / A | 35 | N | 14' | 33.35 | RT | 715-516-415 |

CONVENTIONAL LIGHTING DESIGN CRITERIA

| | |
|------------------------------|----------------------------|
| AVERAGE INITIAL INTENSITY | 2.5 FOOT CANDLES (TRAIL) |
| AVERAGE INITIAL INTENSITY | 1.5 FOOT CANDLES (ROADWAY) |
| UNIFORMITY RATIO AVE. / MIN. | 4:1 OR LESS |
| MAX. / MIN. | 10:1 OR LESS |
| WIND SPEED | 150 MPH |

LEGEND

SYMBOLS

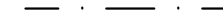
DESCRIPTION



TRAIL SIDE MOUNTED 35 WATT LED LUMINAIRE, DESIGNED FOR TYPE II, SHORT DISTRIBUTION, 350 mA DRIVER WIRED FOR 480 VOLT OPERATION. POLE MOUNTING HEIGHT OF 14 FT. USE PHILIPS LUMEC METROSCAPE LED POST TOP LUMINAIRE, MODEL MPTR-35W32LED4K-T-LE2-HS OR APPROVED EQUAL.



TRAIL SIDE MOUNTED 35 WATT LED LUMINAIRE, DESIGNED FOR TYPE III, SHORT DISTRIBUTION, 350 mA DRIVER WIRED FOR 480 VOLT OPERATION. POLE MOUNTING HEIGHT OF 14 FT. USE PHILIPS LUMEC METROSCAPE LED POST TOP LUMINAIRE, MODEL MPTR-35W32LED4K-T-LE3-HS



SCHEDULE 40 PVC CONDUIT WITH THWN-2 CONDUCTORS INSIDE (CONDUIT SIZE AS SHOWN ON LIGHTING PLANS). RUN ONE (1) 6 AWG COPPER BOND CONDUCTOR (TW GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS.



HDPE CONDUITS (1 SPARE), DIRECTIONAL BORED UNDER PAVEMENT THWN-2 CONDUCTORS INSIDE (CONDUIT SIZE AS SHOWN ON LIGHTING PLANS). EXTEND CONDUIT BEYOND EDGE OF PAVEMENT TO PULL BOXES. RUN ONE (1) 6 AWG COPPER BOND CONDUCTOR (TW GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS.



PULL BOX. FOR SPECIFICATIONS SEE SECTION 635 OF STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.



DISTRIBUTION POINT CONSTRUCTED IN PROJECT
FPID: 439867-1-54-01
(SWEETHEART TRAIL - GAP 5: DONNELLY PLACE)

ALL PROPOSED LIGHTING IS INCLUDED IN ALTERNATE BID 1

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
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| 09/27/2018 | TAS | REVISED PER CITY COMMENTS |



CITY OF DAYTONA BEACH

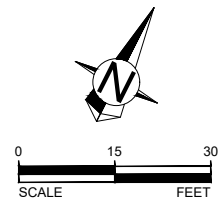
TEDS

Susanne S. Williams P.E. - #19486
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713
CERTIFICATE OF AUTHORIZATION NO. 27392

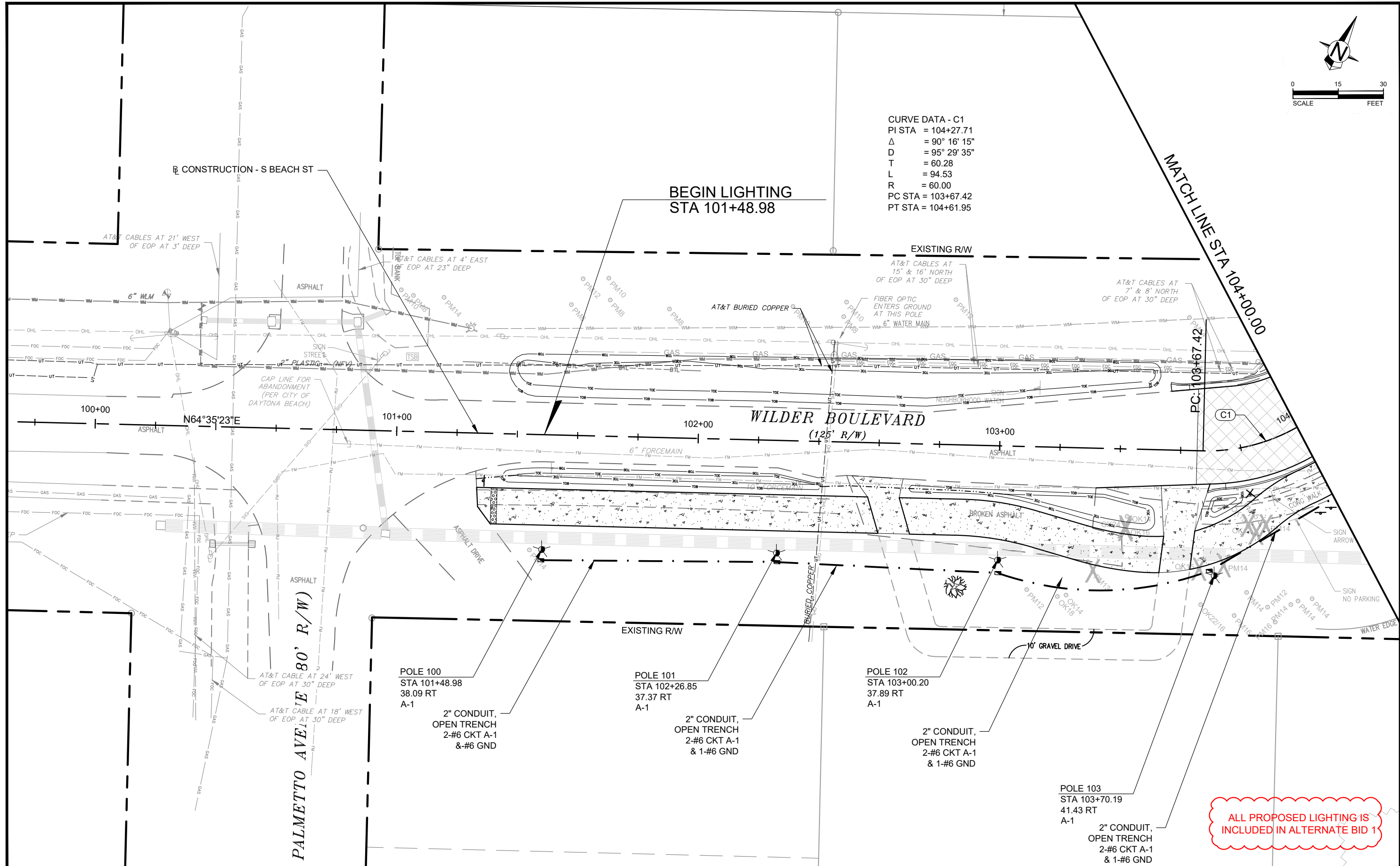
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01

LIGHTING PLAN - POLE DATA & LEGEND

SHEET NO.
54 of 65



CURVE DATA - C1
 PI STA = 104+27.71
 Δ = 90° 16' 15"
 D = 95° 29' 35"
 T = 60.28
 L = 94.53
 R = 60.00
 PC STA = 103+67.42
 PT STA = 104+61.95



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CITY OF DAYTONA BEACH

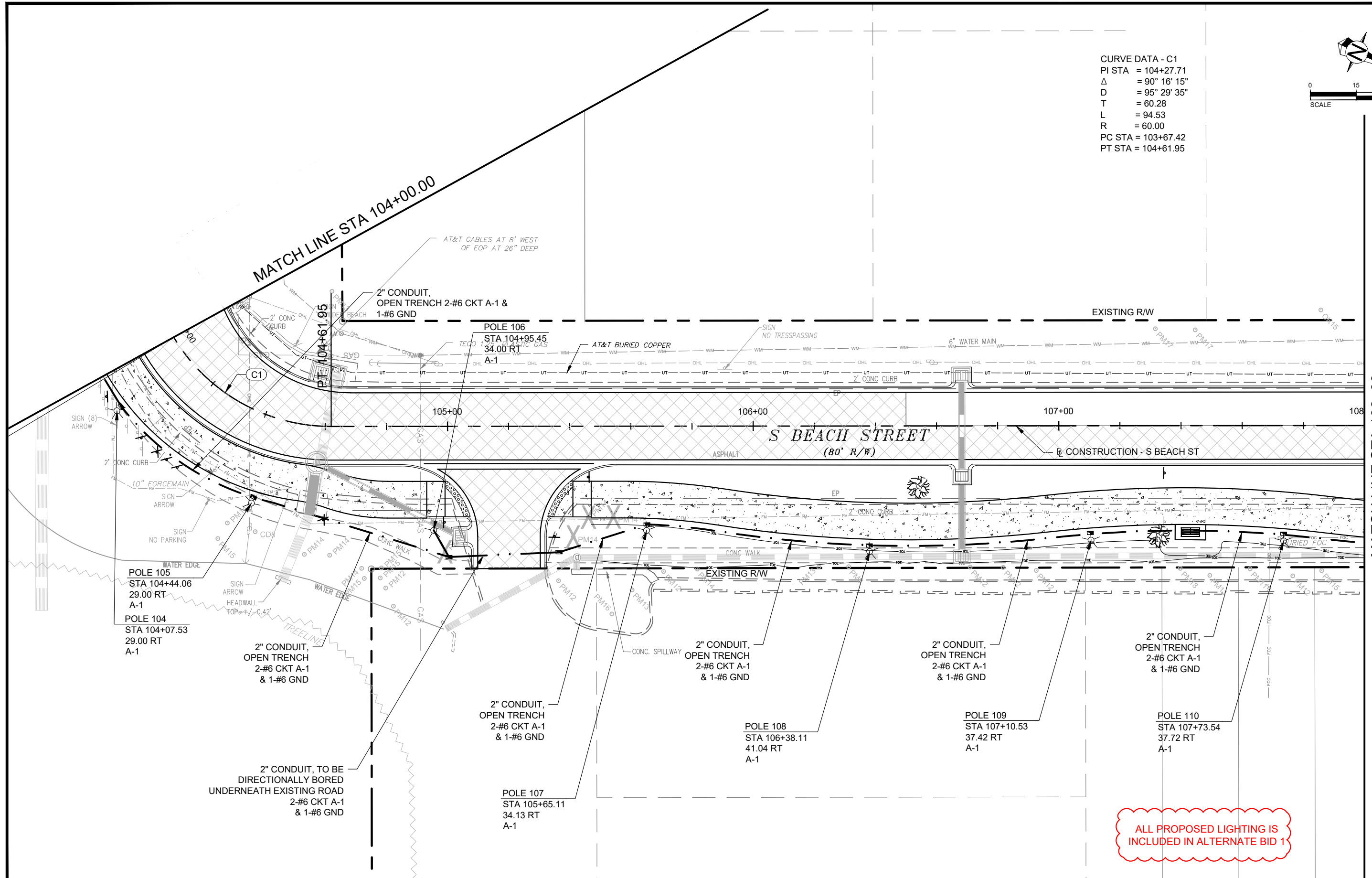
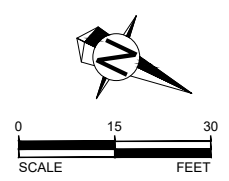


SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

LIGHTING PLAN

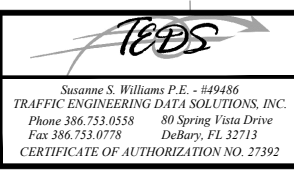
SHEET NO.
 55 of 65

CURVE DATA - C1
 PI STA = 104+27.71
 Δ = 90° 16' 15"
 D = 95° 29' 35"
 T = 60.28
 L = 94.53
 R = 60.00
 PC STA = 103+67.42
 PT STA = 104+61.95



ALL PROPOSED LIGHTING IS INCLUDED IN ALTERNATE BID 1

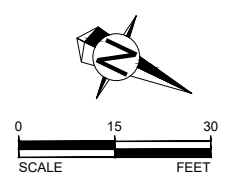
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SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

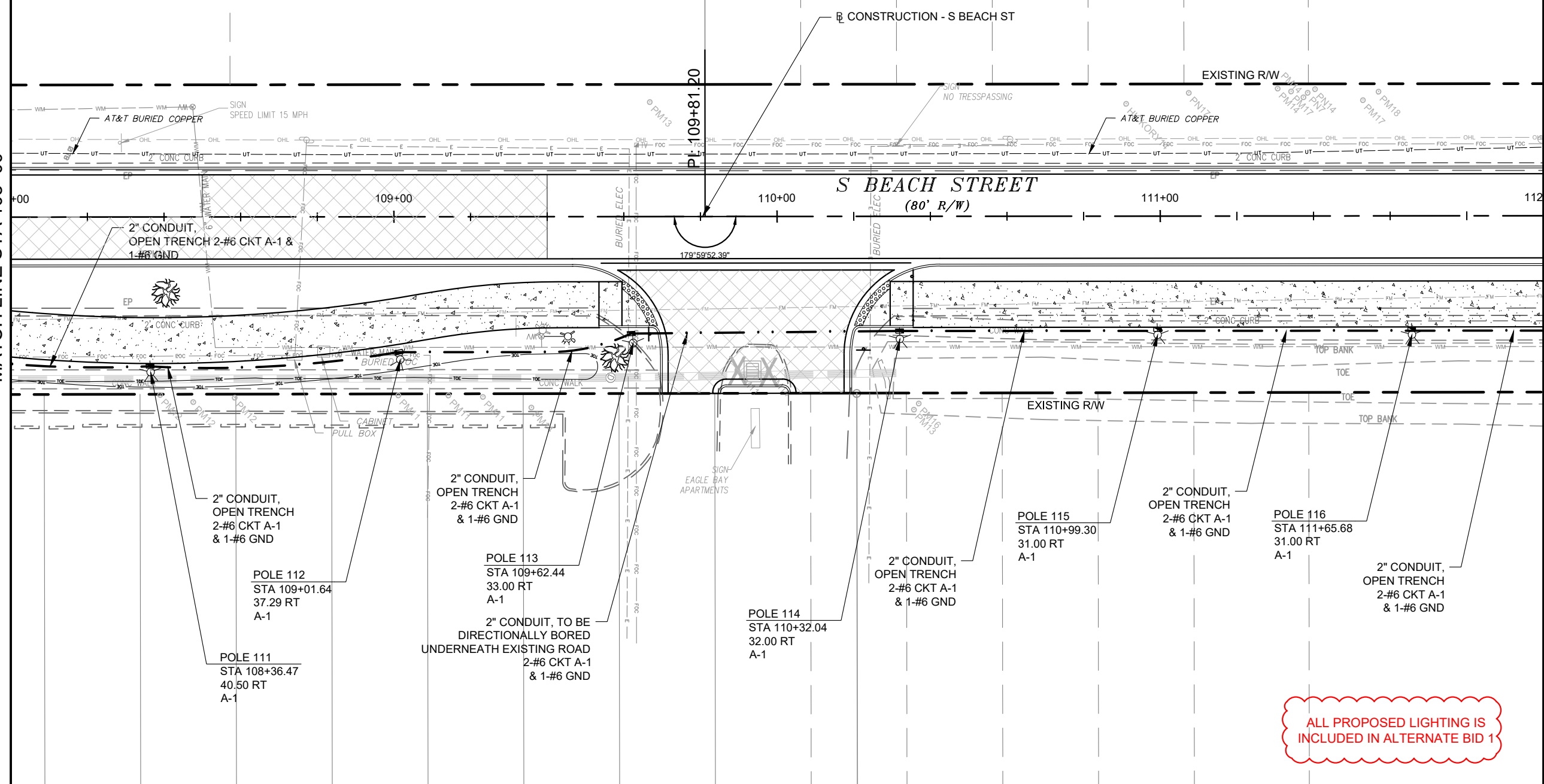
LIGHTING PLAN

SHEET NO.
 56 of 65



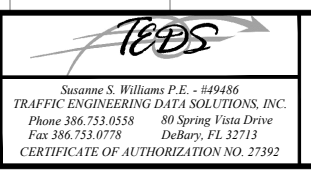
MATCH LINE STA 108+00

MATCH LINE STA 112+00



ALL PROPOSED LIGHTING IS INCLUDED IN ALTERNATE BID 1

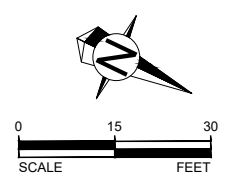
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SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

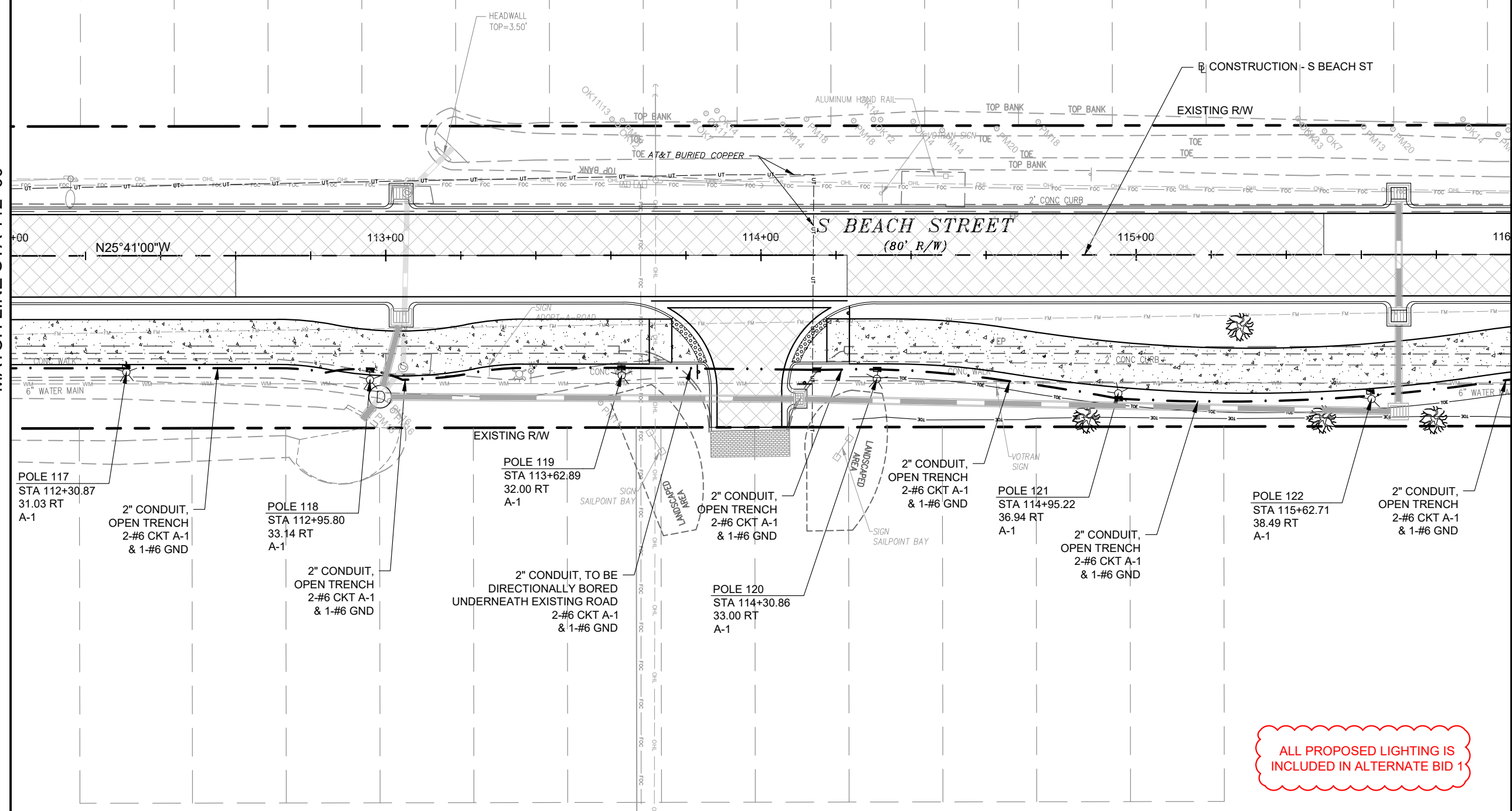
LIGHTING PLAN

SHEET NO.
57 of 65



MATCH LINE STA 112+00

MATCH LINE STA 116+00




ALL PROPOSED LIGHTING IS INCLUDED IN ALTERNATE BID 1

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
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**CITY OF
DAYTONA BEACH**

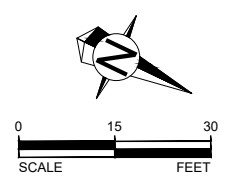


Susanne S. Williams P.E. - #49486
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CERTIFICATE OF AUTHORIZATION NO. 27392

**SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01**

LIGHTING PLAN

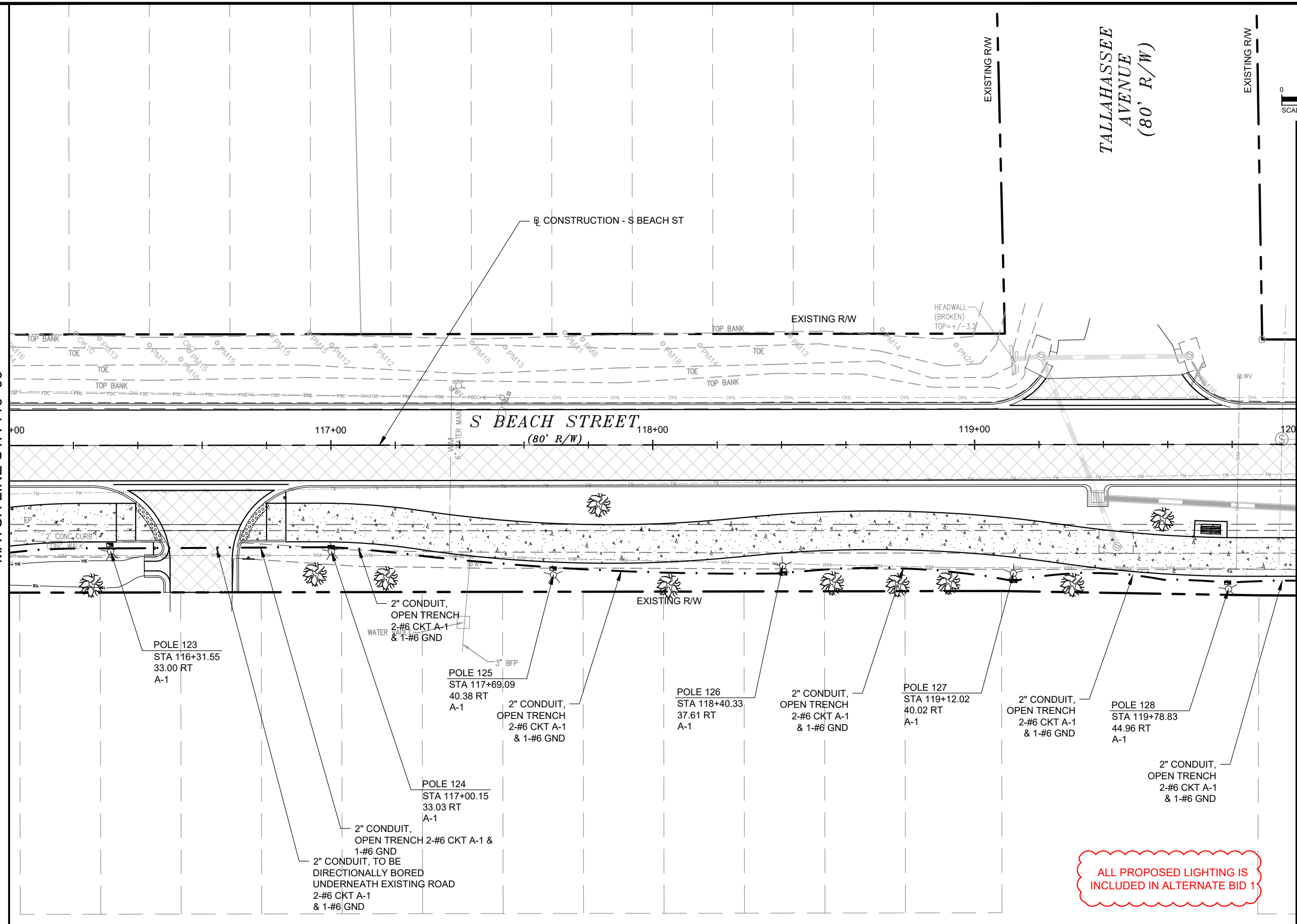
SHEET
NO.
58 of 65



TALLAHASSEE AVENUE (80' R/W)

MATCH LINE STA 116+00

MATCH LINE STA 120+00



| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
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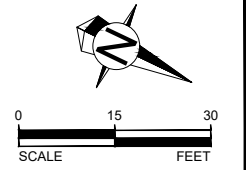
CITY OF DAYTONA BEACH

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SWEETHEART TRAIL
 DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

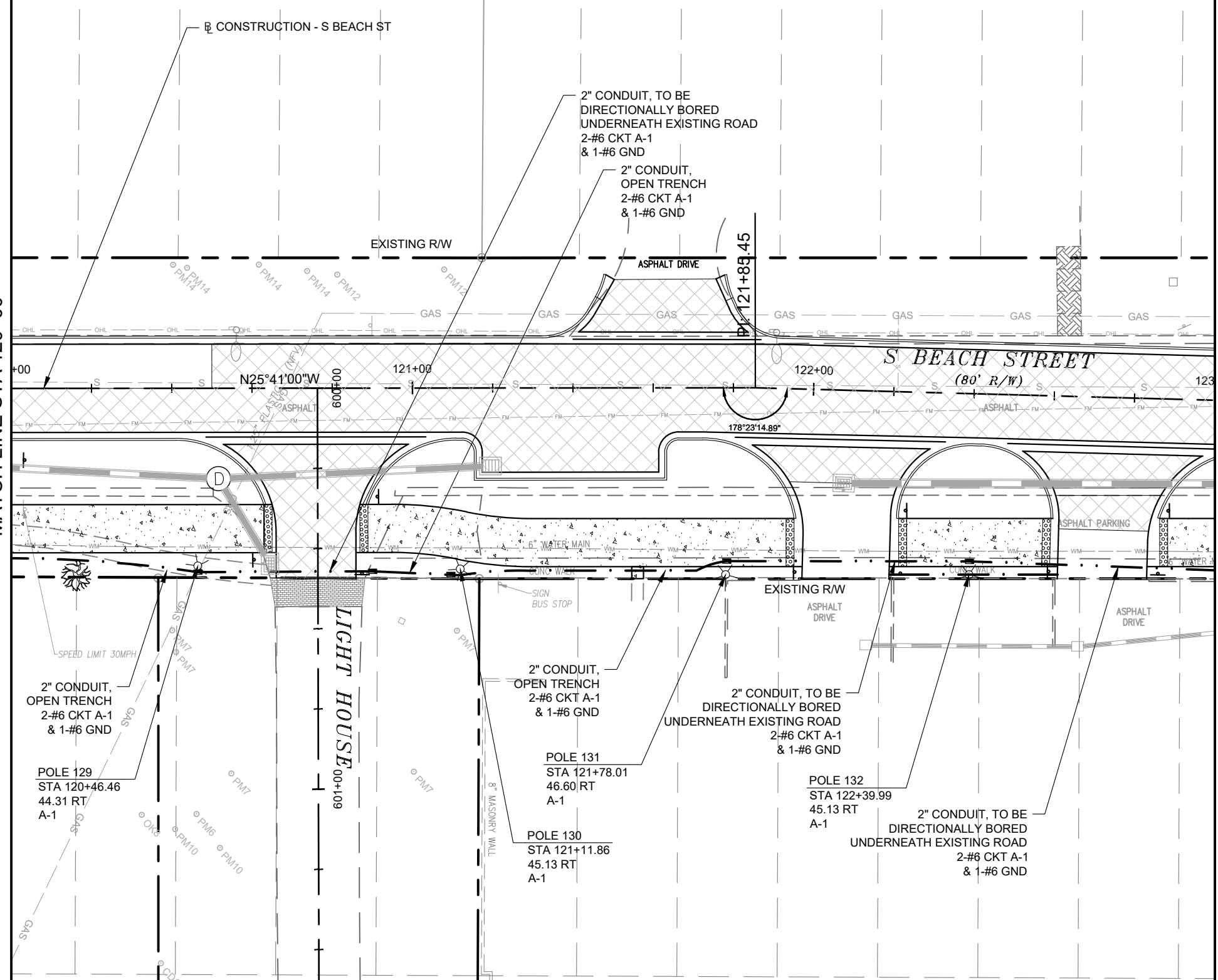
LIGHTING PLAN

SHEET NO.
 59 of 65



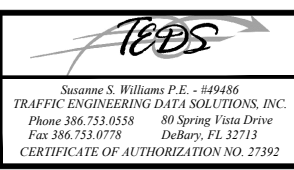
MATCH LINE STA 120+00

MATCH LINE STA 123+00



ALL PROPOSED LIGHTING IS INCLUDED IN ALTERNATE BID 1

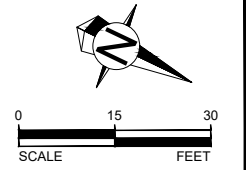
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| DATE | BY | DESCRIPTION |
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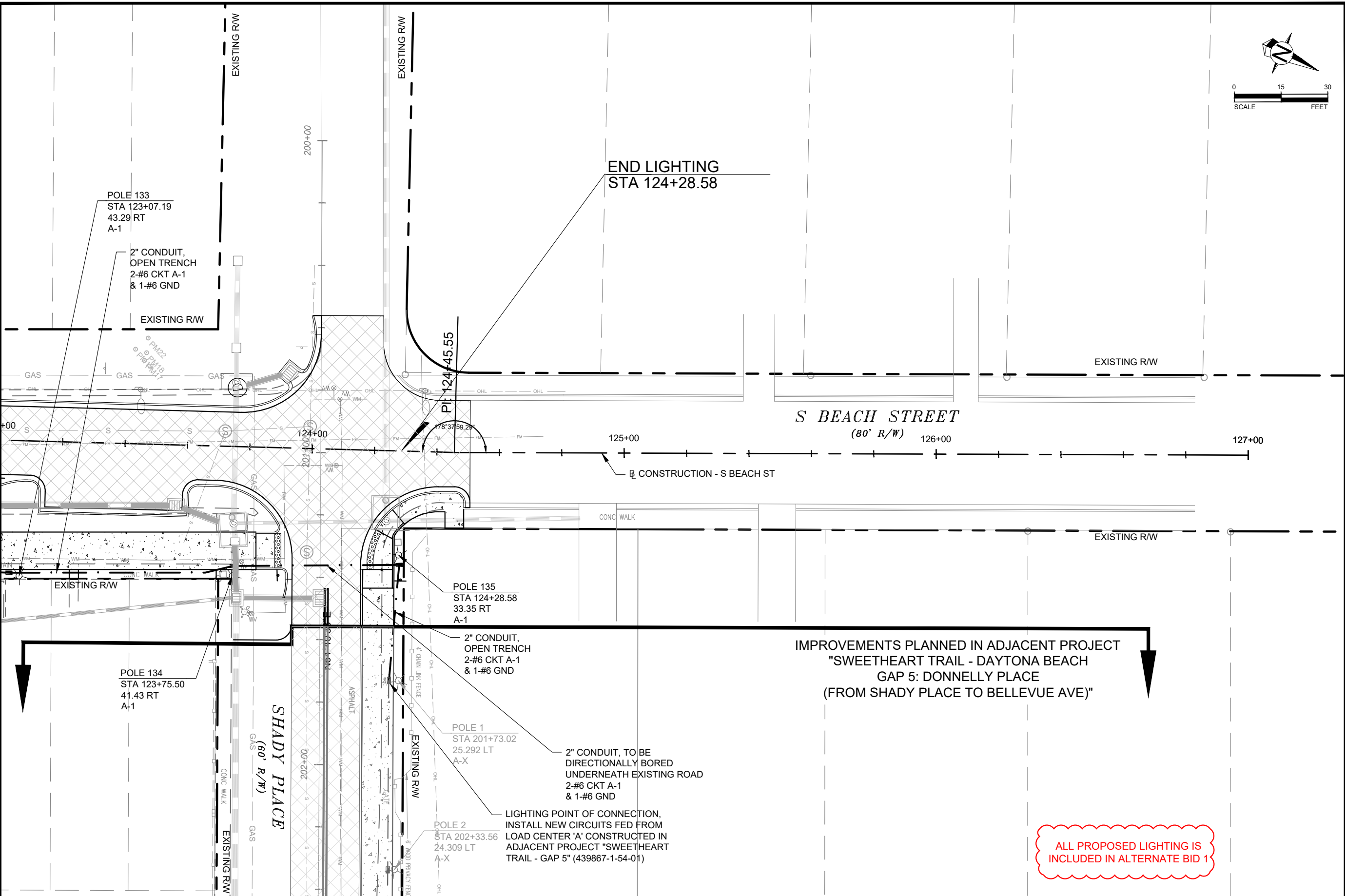
SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
 (FROM WILDER BLVD TO SHADY PLACE)
 FPID: 439866-1-54-01

LIGHTING PLAN

SHEET NO.
60 of 65



MATCH LINE STA 123+00



END LIGHTING
STA 124+28.58

S BEACH STREET
(80' R/W)

SHADY PLACE
(60' R/W)

IMPROVEMENTS PLANNED IN ADJACENT PROJECT
"SWEETHEART TRAIL - DAYTONA BEACH
GAP 5: DONNELLY PLACE
(FROM SHADY PLACE TO BELLEVUE AVE)"

ALL PROPOSED LIGHTING IS
INCLUDED IN ALTERNATE BID 1

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**CITY OF
DAYTONA BEACH**

FEEDS
Susanne S. Williams P.E. - #49486
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CERTIFICATE OF AUTHORIZATION NO. 27392

**SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01**

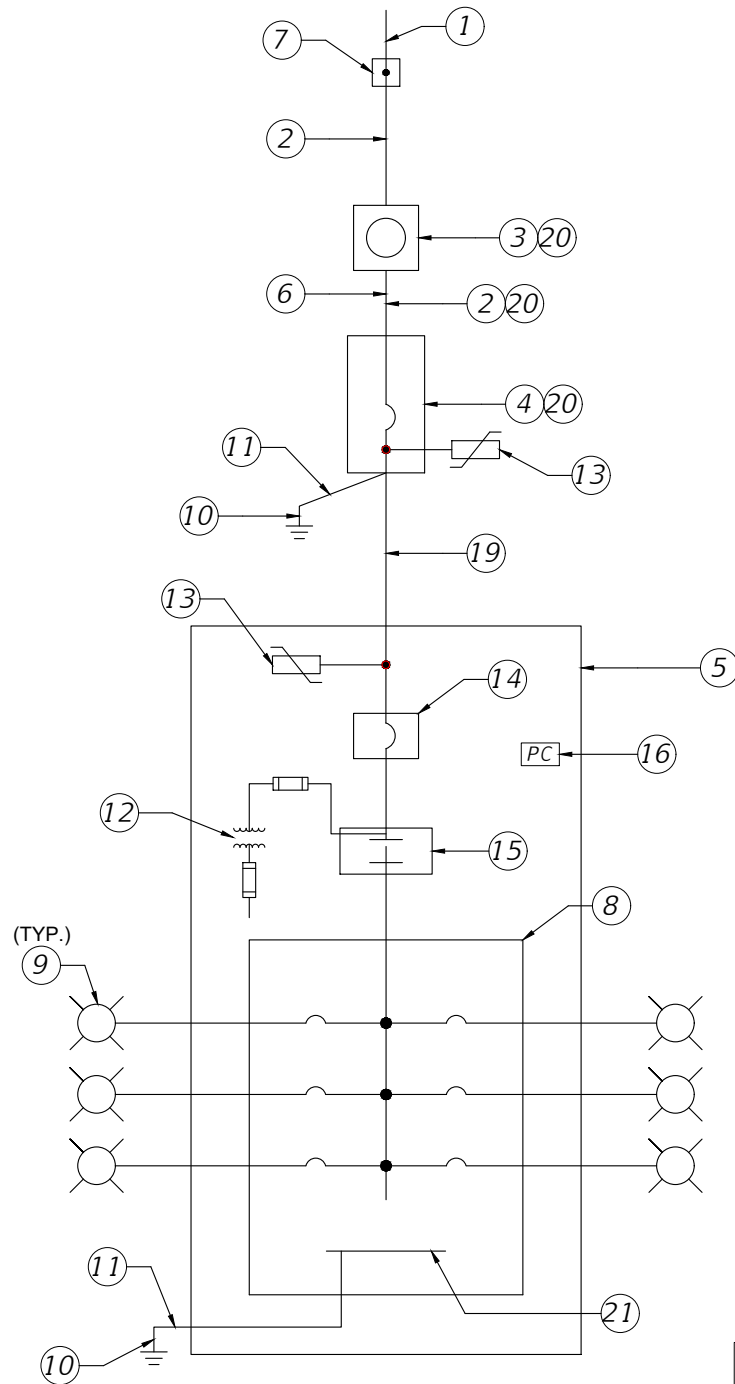
LIGHTING PLAN

SHEET
NO.
61 of 65

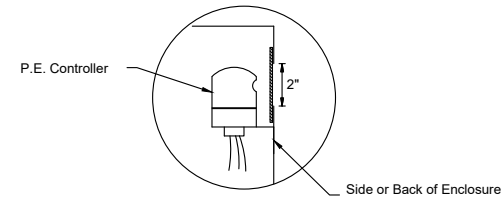
SERVICE POINT DETAIL LOAD CENTER A

Keyed Notes:

1. 240/480V, Single Phase, 3 Wire Electric Distribution Underground Service Drop.
2. 2-#1/0 AWG Ungrounded Service Conductors & 1-#1/0 AWG Grounded Service Conductor (Neutral) in 2-1/2" Underground Conduit
3. Meter Socket by Contractor
4. Service Main Disconnect: 480V, 2 Pole, S/N, 125A, 35,000 AIC Min. Rated Circuit Breaker, in Service Entrance Rated NEMA 4X Circuit Breaker Enclosure
5. Lighting Control Panel Enclosure. Dimensions as Necessary for Equipment Inside. Ground Mounted Cabinet per Index 17736.
6. Concrete Riser Pole.
7. Point of Service: Utility Company Installed Handhole. Contractor to provide 10' of slack service feeder for connection by Utility Company.
8. Main Lug Only Panelboard in NEMA 1 Enclosure. Number and Rating of Branch Circuit Breakers shall be as Indicated on Panelboard Schedule.
9. Branch Circuit to Roadway Luminaires in 2" Underground Conduit (See plan sheets for count of conduits).
10. 5/8" Copper Clad Ground Rod, 40' Long.
11. #2 Insulated Copper Ground Wire. Bond the Service Neutral to Ground at Service Main Disconnect.
12. Fused Control Power Transformer 0.5 KVA, Single Phase, 480V Primary, 120V Secondary (Part of Lighting Contactor, Shown Outside for Clarity)
13. Lightning Arrester (Surge Protective Device) Mounted on Outside of Enclosure.
14. Lighting Control Panel Main Breaker in NEMA 1 Enclosure: 480V, 2 Pole, S/N, 100 A, 35,000 AIC Min Rated.
15. 2 Pole Electrically Held Feeder Disconnect Style Lighting Contactor in NEMA 1 Enclosure: Minimum Voltage and Current Rating to Meet or Exceed Lighting Control Panel Main Breaker. 120V AC 60Hz Coil.
16. Photo Electric Switch-120V Rated.
17. Hand-off Automatic Selector Switch (Part of Lighting Contactor).
18. Concrete Pad.
19. Underground Feeder: 3 - # 1/0 & 1- # 1/0 Ground in 2-1 / 2" Underground Conduit.
20. Mount on Riser Pole.
21. Ground BUS.



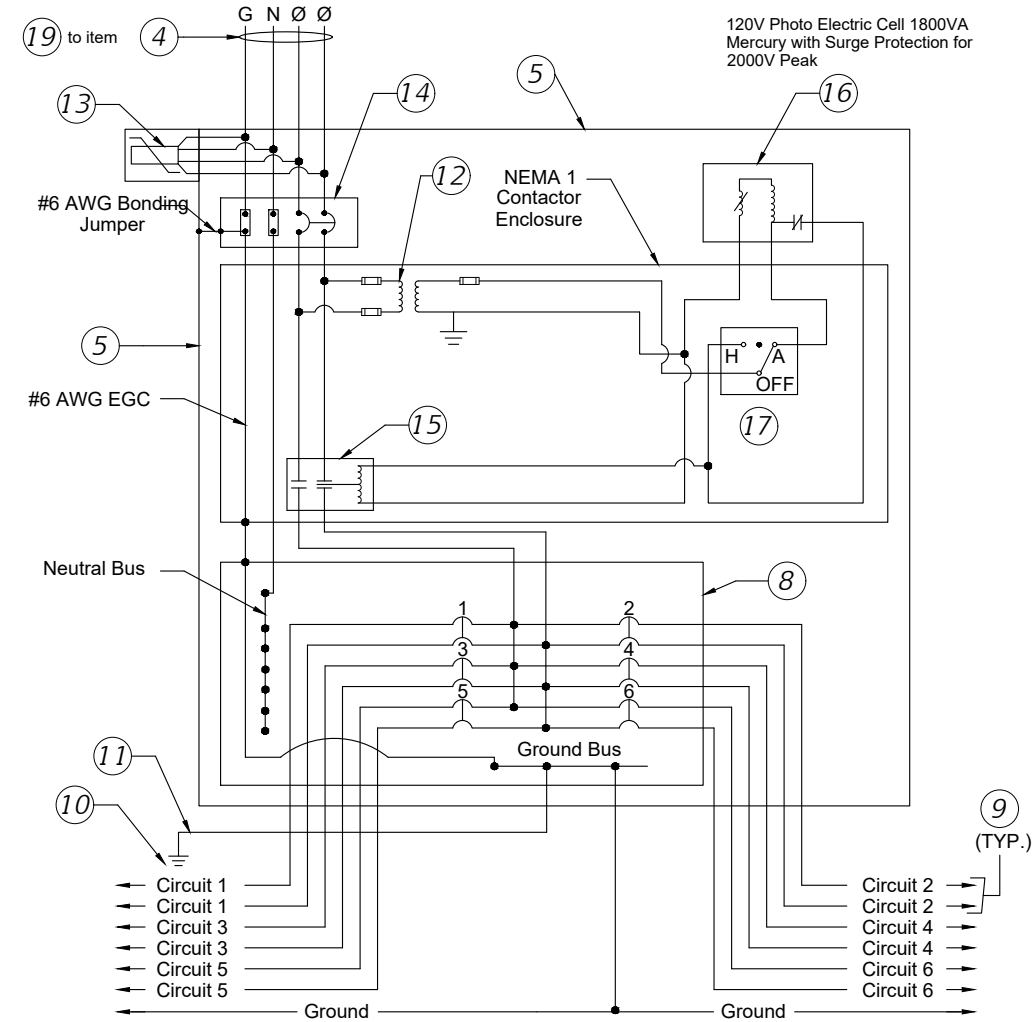
ONE LINE DIAGRAM DISTRIBUTION POINT



Cut a 2" hole in the side of the Lighting Control Panel enclosure for the operation and mounting of the P.E. controller. Use plexiglass and a clear silicone sealant to cover hole, install P.E. Controller.

PHOTO ELECTRIC CONTROLLER DETAIL

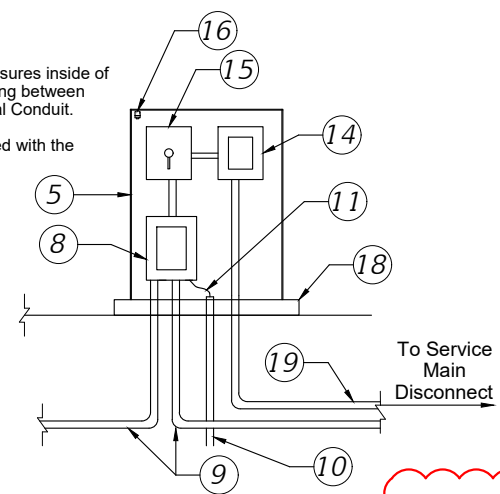
| PANELBOARD SCHEDULE | | | | | | | | | | | |
|---------------------|----------|----------------|-----------------|-------|-------------|-------------|-------|------|---------------------|----------------|-----|
| VOLTAGE: 240/480 | | | MAINS TYPE: LUG | | | | | | MAINS RATING: 200 A | | |
| PHASE: 1 | | | | | | | | | | | |
| WIRES: 3 | | | | | | | | | | | |
| CKT | CKT NAME | CONNECTED LOAD | TRIP | POLES | A LOAD (VA) | B LOAD (VA) | POLES | TRIP | CKT NAME | CONNECTED LOAD | CKT |
| 1 | A-1 | LIGHTS | 20 A | 2 | 702 | 702 | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| TOTAL LOAD (VA): | | | | | 702 | 702 | | | | | |
| TOTAL AMPS @ 480V: | | | | | 2.93 | | | | | | |



TYPICAL DISTRIBUTION POINT SCHEMATIC DETAIL

Notes:

1. All equipment shall be enclosed individual NEMA 1 Enclosures inside of the NEMA 4X Lighting Control Panel Enclosure. All wiring between these enclosures shall be installed in Intermediate Metal Conduit.
2. Shop Drawings are required for all equipment associated with the Lighting Control Panel.



RISER DIAGRAM - TYPICAL LOAD CENTER

ALL PROPOSED LIGHTING IS INCLUDED IN ALTERNATE BID 1

Drawing name: Z:\2011 Projects\10359 (Daytona Beach - Cont Civil & LA)\IWA #05 - HRGT - Beach St (Phases 1 & 2)\CAD\GAP 6\PLANS\62 LIGHTING PLANS - DETAILS.dwg 64 LIGHTING PLAN - SERVICE POINT 'A' DETAIL Jan 04, 2019 10:48am by: Tristan

| REVISIONS | | |
|------------|-----|--|
| DATE | BY | DESCRIPTION |
| 12/14/2016 | TAS | REVISED PER DESIGN CHANGE ORDER #1 |
| 02/15/2017 | TAS | REVISED PER DESIGN CHANGE ORDER #2 |
| 10/16/2017 | TAS | REVISED PER CODB COMMENTS DATED 05/30/2017 |
| 11/14/2017 | TAS | REVISED PER SJRWMD COMMENTS |
| 01/26/2018 | TAS | REVISED PER FDOT COMMENTS |
| 09/27/2018 | TAS | REVISED PER CITY COMMENTS |



**CITY OF
DAYTONA BEACH**

FEEDS
Susanne S. Williams P.E. - #49486
TRAFFIC ENGINEERING DATA SOLUTIONS, INC.
Phone 386.753.0558 80 Spring Vista Drive
Fax 386.753.0778 DeBary, FL 32713
CERTIFICATE OF AUTHORIZATION NO. 27392

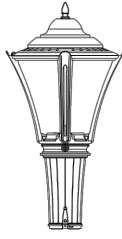
**SWEETHEART TRAIL
DAYTONA BEACH - GAP 6: S. BEACH ST
(FROM WILDER BLVD TO SHADY PLACE)
FPID: 439866-1-54-01**

**LIGHTING PLAN - SERVICE POINT
'A' DETAIL**

SHEET
NO.
64 of 65

Classic elegance meets advanced lighting technology

METROSCAPE LED POST-TOP URBAN LUMINAIRE



PHILIPS LUMEC METROSCAPE LED POST-TOP URBAN LUMINAIRE

The Philips Lumec MetroScape LED post-top luminaire features flexible, robust energy-saving solutions for heritage-styled urban architectural lighting. Crowned with an ornamental hood, the post-top model comes with a flat lens to highlight the thickness of the LEDs. The luminaire provides attractive lighting at night, adding appeal to the surroundings and promoting safe use of the environment.

Project: _____
 Location: _____
 Catalog No: _____
 Fixture Type: Lampst. Qty: _____
 Hgt: _____
 Notes: _____

Ordering guide

| Luminaire | LED Module | System | Voltage | Driver Options | Luminaire Options | Mounting | Pole | Accessories | Finish |
|-----------|-----------------------------------|---|--|--|--|--|--|-------------|--------|
| MPTR1 | Metroscape Post-Top LED Luminaire | LE2: Type I (AOTM) LE3: Type II (AOTM) LE4: Type III (AOTM) LE5: Type IV (AOTM) LE6: Type V (AOTM) LE7: Type VI (AOTM) LE8: Type VII (AOTM) LE9: Type VIII (AOTM) LE10: Type IX (AOTM) LE11: Type X (AOTM) LE12: Type XI (AOTM) LE13: Type XII (AOTM) LE14: Type XIII (AOTM) LE15: Type XIV (AOTM) LE16: Type XV (AOTM) LE17: Type XVI (AOTM) LE18: Type XVII (AOTM) LE19: Type XVIII (AOTM) LE20: Type XIX (AOTM) LE21: Type XX (AOTM) LE22: Type XXI (AOTM) LE23: Type XXII (AOTM) LE24: Type XXIII (AOTM) LE25: Type XXIV (AOTM) LE26: Type XXV (AOTM) LE27: Type XXVI (AOTM) LE28: Type XXVII (AOTM) LE29: Type XXVIII (AOTM) LE30: Type XXIX (AOTM) LE31: Type XXX (AOTM) | 120-120V 208-208V 240-240V 277-277V 347-347V 480-480V | HS: House Side Shield OVR: Dynaliner MRF: Motion Response PHR: Photoelectric cell PHX: Photoelectric cell PHZ: Photoelectric cell PHY: Photoelectric cell PHW: Photoelectric cell PHV: Photoelectric cell PHU: Photoelectric cell PHT: Photoelectric cell PHS: Photoelectric cell PHR: Photoelectric cell PHQ: Photoelectric cell PHP: Photoelectric cell PHO: Photoelectric cell PHN: Photoelectric cell PHM: Photoelectric cell PHL: Photoelectric cell PHK: Photoelectric cell PHJ: Photoelectric cell PHI: Photoelectric cell PHH: Photoelectric cell PHG: Photoelectric cell PHE: Photoelectric cell PHD: Photoelectric cell PHC: Photoelectric cell PHB: Photoelectric cell PHA: Photoelectric cell PH9: Photoelectric cell PH8: Photoelectric cell PH7: Photoelectric cell PH6: Photoelectric cell PH5: Photoelectric cell PH4: Photoelectric cell PH3: Photoelectric cell PH2: Photoelectric cell PH1: Photoelectric cell | Consult the Philips web site for details and the complete line of Pole | BE2X BE3X BE4X BE5X BE6X BE7X BE8X BE9X BE10X BE11X BE12X BE13X BE14X BE15X BE16X BE17X BE18X BE19X BE20X BE21X BE22X BE23X BE24X BE25X BE26X BE27X BE28X BE29X BE30X BE31X BE32X BE33X BE34X BE35X BE36X BE37X BE38X BE39X BE40X BE41X BE42X BE43X BE44X BE45X BE46X BE47X BE48X BE49X BE50X BE51X BE52X BE53X BE54X BE55X BE56X BE57X BE58X BE59X BE60X BE61X BE62X BE63X BE64X BE65X BE66X BE67X BE68X BE69X BE70X BE71X BE72X BE73X BE74X BE75X BE76X BE77X BE78X BE79X BE80X BE81X BE82X BE83X BE84X BE85X BE86X BE87X BE88X BE89X BE90X BE91X BE92X BE93X BE94X BE95X BE96X BE97X BE98X BE99X BE100X | Consult the Philips web site for details and the complete line of Pole | | |

- 1. Luminaire is always shipped with a standard 6-10V capacitor and 10000 hours warranty.
- 2. Not available with HS option.
- 3. Not available with OVR option.
- 4. Not available with PHR option.
- 5. Use of photoelectric cell or shorting cap is required to ensure proper operation.
- 6. Not available with PHR option.
- 7. Luminaire option (CO) is required with this accessory.
- 8. Luminaire option (CO) is required with this accessory.
- 9. Not available with PHR option.
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- 100. Not available with PHR option.

Metroscape MPTR Spec. 06/14 page 1 of 7



Specifications (continued)

Finish:
 Color to be in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (3 mil/100 microns) with a 1 mil/25 microns of tolerance. The Thermoseal resin provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as better retention in keeping with the ASTM D2244 standard and handling proof in accordance with the ASTM D2244 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistance finish in accordance with testing performed and per ASTM B117 standard.

Available options:
 BE2X: Textured Midnight Blue
 BE3X: Textured Ocean Blue
 BE4X: Textured Royal Blue
 BE5X: Textured Sandstone
 BE6X: Textured Black
 BE7X: Textured Bronze
 BE8X: Textured Forest Green
 BE9X: Textured Forest Green
 BE10X: Textured Dark Forest Green
 BE11X: Textured Green
 BE12X: Textured Medium Grey
 BE13X: Textured Aluminium
 BE14X: Textured Burgundy
 BE15X: Textured Scarlet
 BE16X: Textured Gold
 BE17X: Textured Silver
 BE18X: Textured White

LED products manufacturing standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20 standards so as to minimize ESD events that could decrease the useful life of the product.

Quality Control:
 Manufactured to ISO 9001:2008 and ISO 14001:2004 International Quality Standards Certification.

Vibration Resistance:
 Meets the ANSI C136.31, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications. (Tested for 30 over 100 000 cycles by an independent lab)

Certifications and Compliance:

CSA, UL Listed for Canada and USA.
 Meets the ANSI in the Designated International (DLC) Qualified Products List (QPL).

LED Wattage and Lumen Values - MetroScape Post Top MPTR Luminaire

LED = Philips Lumileds LUXEON T, CRI = 70, CCT = 4000K (+/- 350K)
 System (LED + driver) rated life = 100,000 hrs / 90,000 lm²

| LED Module | Typical Rated Power (W) | Typical System Power (W) | Typical System Current (A) @ 120V | LED Current (mA) | HID ¹ equivalent | Luminaire efficacy (lm/W) | BUG Rating | | |
|------------------|-------------------------|--------------------------|-----------------------------------|------------------|-----------------------------|---------------------------|------------|-------|------------|
| 16W4LED4C-T-LE3 | 1691 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 84.6 | B0-L0-G0 |
| 16W4LED4C-T-LE4 | 1704 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 85.2 | B1-L0-G1 |
| 16W4LED4C-T-LE5 | 1717 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 85.8 | B2-L0-G2 |
| 16W4LED4C-T-LE6 | 1730 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 86.4 | B3-L0-G3 |
| 16W4LED4C-T-LE7 | 1743 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 87.0 | B4-L0-G4 |
| 16W4LED4C-T-LE8 | 1756 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 87.6 | B5-L0-G5 |
| 16W4LED4C-T-LE9 | 1769 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 88.2 | B6-L0-G6 |
| 16W4LED4C-T-LE10 | 1782 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 88.8 | B7-L0-G7 |
| 16W4LED4C-T-LE11 | 1795 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 89.4 | B8-L0-G8 |
| 16W4LED4C-T-LE12 | 1808 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 90.0 | B9-L0-G9 |
| 16W4LED4C-T-LE13 | 1821 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 90.6 | B10-L0-G10 |
| 16W4LED4C-T-LE14 | 1834 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 91.2 | B11-L0-G11 |
| 16W4LED4C-T-LE15 | 1847 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 91.8 | B12-L0-G12 |
| 16W4LED4C-T-LE16 | 1860 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 92.4 | B13-L0-G13 |
| 16W4LED4C-T-LE17 | 1873 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 93.0 | B14-L0-G14 |
| 16W4LED4C-T-LE18 | 1886 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 93.6 | B15-L0-G15 |
| 16W4LED4C-T-LE19 | 1899 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 94.2 | B16-L0-G16 |
| 16W4LED4C-T-LE20 | 1912 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 94.8 | B17-L0-G17 |
| 16W4LED4C-T-LE21 | 1925 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 95.4 | B18-L0-G18 |
| 16W4LED4C-T-LE22 | 1938 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 96.0 | B19-L0-G19 |
| 16W4LED4C-T-LE23 | 1951 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 96.6 | B20-L0-G20 |
| 16W4LED4C-T-LE24 | 1964 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 97.2 | B21-L0-G21 |
| 16W4LED4C-T-LE25 | 1977 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 97.8 | B22-L0-G22 |
| 16W4LED4C-T-LE26 | 1990 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 98.4 | B23-L0-G23 |
| 16W4LED4C-T-LE27 | 2003 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 99.0 | B24-L0-G24 |
| 16W4LED4C-T-LE28 | 2016 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 99.6 | B25-L0-G25 |
| 16W4LED4C-T-LE29 | 2029 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 100.2 | B26-L0-G26 |
| 16W4LED4C-T-LE30 | 2042 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 100.8 | B27-L0-G27 |
| 16W4LED4C-T-LE31 | 2055 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 101.4 | B28-L0-G28 |
| 16W4LED4C-T-LE32 | 2068 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 102.0 | B29-L0-G29 |
| 16W4LED4C-T-LE33 | 2081 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 102.6 | B30-L0-G30 |
| 16W4LED4C-T-LE34 | 2094 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 103.2 | B31-L0-G31 |
| 16W4LED4C-T-LE35 | 2107 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 103.8 | B32-L0-G32 |
| 16W4LED4C-T-LE36 | 2120 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 104.4 | B33-L0-G33 |
| 16W4LED4C-T-LE37 | 2133 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 105.0 | B34-L0-G34 |
| 16W4LED4C-T-LE38 | 2146 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 105.6 | B35-L0-G35 |
| 16W4LED4C-T-LE39 | 2159 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 106.2 | B36-L0-G36 |
| 16W4LED4C-T-LE40 | 2172 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 106.8 | B37-L0-G37 |
| 16W4LED4C-T-LE41 | 2185 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 107.4 | B38-L0-G38 |
| 16W4LED4C-T-LE42 | 2198 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 108.0 | B39-L0-G39 |
| 16W4LED4C-T-LE43 | 2211 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 108.6 | B40-L0-G40 |
| 16W4LED4C-T-LE44 | 2224 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 109.2 | B41-L0-G41 |
| 16W4LED4C-T-LE45 | 2237 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 109.8 | B42-L0-G42 |
| 16W4LED4C-T-LE46 | 2250 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 110.4 | B43-L0-G43 |
| 16W4LED4C-T-LE47 | 2263 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 111.0 | B44-L0-G44 |
| 16W4LED4C-T-LE48 | 2276 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 111.6 | B45-L0-G45 |
| 16W4LED4C-T-LE49 | 2289 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 112.2 | B46-L0-G46 |
| 16W4LED4C-T-LE50 | 2302 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 112.8 | B47-L0-G47 |
| 16W4LED4C-T-LE51 | 2315 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 113.4 | B48-L0-G48 |
| 16W4LED4C-T-LE52 | 2328 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 114.0 | B49-L0-G49 |
| 16W4LED4C-T-LE53 | 2341 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 114.6 | B50-L0-G50 |
| 16W4LED4C-T-LE54 | 2354 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 115.2 | B51-L0-G51 |
| 16W4LED4C-T-LE55 | 2367 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 115.8 | B52-L0-G52 |
| 16W4LED4C-T-LE56 | 2380 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 116.4 | B53-L0-G53 |
| 16W4LED4C-T-LE57 | 2393 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 117.0 | B54-L0-G54 |
| 16W4LED4C-T-LE58 | 2406 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 117.6 | B55-L0-G55 |
| 16W4LED4C-T-LE59 | 2419 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 118.2 | B56-L0-G56 |
| 16W4LED4C-T-LE60 | 2432 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 118.8 | B57-L0-G57 |
| 16W4LED4C-T-LE61 | 2445 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 119.4 | B58-L0-G58 |
| 16W4LED4C-T-LE62 | 2458 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 120.0 | B59-L0-G59 |
| 16W4LED4C-T-LE63 | 2471 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 120.6 | B60-L0-G60 |
| 16W4LED4C-T-LE64 | 2484 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 121.2 | B61-L0-G61 |
| 16W4LED4C-T-LE65 | 2497 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 121.8 | B62-L0-G62 |
| 16W4LED4C-T-LE66 | 2510 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 122.4 | B63-L0-G63 |
| 16W4LED4C-T-LE67 | 2523 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 123.0 | B64-L0-G64 |
| 16W4LED4C-T-LE68 | 2536 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 123.6 | B65-L0-G65 |
| 16W4LED4C-T-LE69 | 2549 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 124.2 | B66-L0-G66 |
| 16W4LED4C-T-LE70 | 2562 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 124.8 | B67-L0-G67 |
| 16W4LED4C-T-LE71 | 2575 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 125.4 | B68-L0-G68 |
| 16W4LED4C-T-LE72 | 2588 | 20 | 0.170 | 0.105 | 0.096 | 0.090 | 350 | 126.0 | B69-L0-G69 |
| 16W4LED4C-T-LE73 | 2601 | 20 | 0.170 | 0.105 | 0.096 | | | | |