OSCEOLA COUNTY, FLORIDA
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

LAKE SHORE TRAIL PLANS
FPID: 437474-1-58-01
FAN: D520-087-B

FINAL PLANSET
DATE: March 29, 2021

OSCEOLA COUNTY PROJECT MANAGER: TODD HUDSON, P.E.

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OSCEOLA COUNTY TRANSPORTATION AND TRANSIT

CHERYL GRIEB, VICE CHAIRWOMAN OF THE BOARD OF COUNTY COMMISSIONERS
PESY CHUNDHURY, COUNTY COMMISSIONER
FRED HAWKINS, COUNTY COMMISSIONER
BRANDON ARRINGTON, COUNTY COMMISSIONER
DON FISHER, COUNTY MANAGER
TAWNY N. OLORE, P.E. DIRECTOR OF TRANSPORTATION AND TRANSIT

GOVERNING STANDARD PLANS:
Florida Department of Transportation, FDOT20-21 Standard plans for Road and Bridge Construction and applicable Amendment Rules (AIR)

Standard Plans for Road Construction and associated AIRs are available at the following website:
http://www.fdot.gov/design/Standardplans.shtml

APPLICATION AIRs: AIR26-001-03, AIR21-001-04

Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, January 2021 Standard Specifications for Road and Bridge Construction at the following website:
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DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST ELECTRONICally WITH DRAINAGE CONCERNS.
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

LEGEND:

- **BASIN BOUNDARY**
- **DIRECTION OF FLOW**
- **100-YEAR FLOODPLAIN LIMITS**
- **PROPOSED DRAINAGE STRUCTURE**
- **EXISTING DRAINAGE STRUCTURE**

**OSCEOLA COUNTY FLORIDA**

**DRAINAGE MAP 10**

**MATCHLINE STA. 379+60.00**

**MATCHLINE STA. 408+40.00**
TRAIL TYPICAL SECTION 5
FORTUNE RD.
STA. 235+00.00 TO STA. 283+17.99
E. LAKE SHORE BLVD.
STA. 300+00.00 TO STA. 317+00.00
STA. 332+00.00 TO STA. 341+00.00
N.T.S.

12" TYPE B STABILIZATION
(MINIMUM LBR 40)
(SEE PLANSHEETS FOR LIMITS)

EXIST. GROUND

EXIST. ROADWAY

VARIES

EXIST. R/W LINE

4" TYPICAL SECTION 5

NOTES:
SEE PLAN SHEETS FOR EASEMENT LOCATIONS

PROP. EASEMENT

0.06 (MAX.)

10'

CONST. & PROFILE TRAIL

EXIST. ROADWAY

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. OTHER SURFACE
WATER (O.S.W.)

GRAVITY WALL AND HAND RAIL
PER FDOT STANDARD PLANS 400-011

EXIST. WETLAND

EXIST. GROUND

EXIST. R/W LINE

TRAIL TYPICAL SECTION 6
E. LAKE SHORE BLVD.
STA. 281+00.00 TO STA. 332+17.99
STA. 365+40.00 TO STA. 373+72.18
STA. 383+40.00 TO STA. 399+72.18
STA. 409+38.53 TO STA. 422+90.14
STA. 432+00.00 TO STA. 445+80.19
STA. 451+72.25 TO STA. 484+06.01
N.T.S.

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. GROUND

EXIST. ROADWAY

VARIES

EXIST. R/W LINE

4" TYPICAL SECTION 6

NOTES:
SEE PLAN SHEETS FOR EASEMENT LOCATIONS

PROP. EASEMENT

0.06 (MAX.)

10'

CONST. & PROFILE TRAIL

EXIST. ROADWAY

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. OTHER SURFACE
WATER (O.S.W.)

GRAVITY WALL AND HAND RAIL
PER FDOT STANDARD PLANS 400-011

EXIST. WETLAND

EXIST. GROUND

EXIST. R/W LINE

TRAIL TYPICAL SECTION 7
E. LAKE SHORE BLVD.
STA. 341+00.00 TO STA. 365+40.00
N.T.S.

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. GROUND

EXIST. ROADWAY

VARIES

EXIST. R/W LINE

4" TYPICAL SECTION 7

NOTES:
SEE PLAN SHEETS FOR EASEMENT LOCATIONS

PROP. EASEMENT

0.06 (MAX.)

10'

CONST. & PROFILE TRAIL

EXIST. ROADWAY

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. OTHER SURFACE
WATER (O.S.W.)

GRAVITY WALL AND HAND RAIL
PER FDOT STANDARD PLANS 400-011

EXIST. WETLAND

EXIST. GROUND

EXIST. R/W LINE

TRAIL TYPICAL SECTION 8
E. LAKE SHORE BLVD.
STA. 373+01.73 TO STA. 399+72.18
STA. 409+38.53 TO STA. 422+90.14
STA. 445+80.19 TO STA. 484+06.01
N.T.S.

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. GROUND

EXIST. ROADWAY

VARIES

EXIST. R/W LINE

4" TYPICAL SECTION 8

NOTES:
SEE PLAN SHEETS FOR EASEMENT LOCATIONS

PROP. EASEMENT

0.06 (MAX.)

10'

CONST. & PROFILE TRAIL

EXIST. ROADWAY

12" TYPE B STABILIZATION
(MINIMUM LBR 40)

EXIST. OTHER SURFACE
WATER (O.S.W.)

GRAVITY WALL AND HAND RAIL
PER FDOT STANDARD PLANS 400-011

EXIST. WETLAND

EXIST. GROUND

EXIST. R/W LINE
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- **Rev.:** 5:20:57 PM
- **PE #:** Paul W. Yeargain
- **Certificate of Authorization #:** 3932
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**OSCEOLA COUNTY**

**FLORIDA**

**SUMMARY OF DRAINAGE STRUCTURES 4**

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**OSCEOLA COUNTY**

**FLORIDA**

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418 + 50.00 | LT | YD, PIPE |

SHEET TOTALS

PLAN QTY

FINAL QTY

Engineers | Scientists
Planners | Designers

225 E. Robinson Street, Suite 300
Orlando, FL 32801  (407) 839-4006

Certificate of Authorization # 3932

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

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Martinez, Bryce
1/29/2021 5:21:17 PM

OSCEOLA COUNTY

SUMMARY OF DRAINAGE STRUCTURES

FLORIDA

SUMMARY OF DRAINAGE STRUCTURES 6

SHEET NO. 25
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#### LINE AND CURVE GEOMETRY AND BENCHMARKS TABLES

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<td>Line and curve geometry and benchmarks tables 01</td>
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**FORTUNE RD. - EAST**

### Benchmark Table

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<tr>
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### Curve Table

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<th>P.J. STATION</th>
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<th>T</th>
<th>L</th>
<th>R</th>
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<tbody>
<tr>
<td>C2-1</td>
<td>200+77.25</td>
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<td>400+31.95</td>
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<td>C2-4</td>
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<td>225+83.91</td>
<td>226+02.14</td>
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<td>226+32.09</td>
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<tr>
<td>C2-6</td>
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<td>232+93.67</td>
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<td>C2-11</td>
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<td>C2-12</td>
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### Line and Curve Geometry and Benchmarks Tables

**Sheet No.: 02**
**LINE TABLE**

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<th>LINE #</th>
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<th>BEARING</th>
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<tbody>
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<tr>
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**LINE TABLE**

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**CURVE DATA**

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GENERAL NOTES

1. ELEVATIONS SHOWN HEREON ARE BASED ON N.G.V.D. 1929 DATUM. REFERENCE BENCHMARK 15 08-58, ELEVATION = 61.29.

2. BEARINGS SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM 1983 (FSPCS 1983) AS REFERENCED TO THE N.G.V.D. 1929 DATUM. EASTING IS CONSIDERED POSITIVE AND NORTHERN LATITUDE IS CONSIDERED POSITIVE AS DETERMINED FROM GLOBAL POSITIONING SYSTEM (GPS).

3. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK IN DANGER OF BEING DAMAGED, DESTROYED, OR MOVED ARE TO BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THE REFERENCE DRAWING, AS WELL AS ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE PROJECT ENGINEER ARE TO BE PROTECTED BY CONSTRUCTION AND/OR EROSION CONTROL MEASURES.

4. ALL SYNTHETIC HAY BALES, ROCK BAGS, TURBIDITY CURTAINS, TARPULLINS AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

5. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED BASEMENT OR DRAINAGEzell. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE PROJECT AND FOR MAINKINDICATING TO THE COUNTY STAFF PRIOR TO THE BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETE OF THE WORK. ALL SUCH CORNERS AND MONUMENTS SHOWN ON THE REFERENCES DRAWING, INCLUDING ALL REFERENCES TO THE DISTRICT LOCATION ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYORS REFERENCE DRAWING. IN addition, ALL COSTS OF REFERENCING, RESTORING AND PRESERVING IN THE BID UNIT PRICE FOR ITEM 101-1 MOBILIZATION.
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
**FORTUNE ROAD (WEST) ROADWAY PLAN & PROFILE 29**

**EXIST. PROFILE**

**NO WORK IN THIS AREA. FOR INFORMATION PURPOSES ONLY.**

**EXIST. R/W**

**PROP. R/W**

**1" = 20' HORIZONTAL**

**1" = 4 VERTICAL**

---

**OSCEOLA COUNTY FLORIDA**

---

**Engineers | Scientists**

---

**Planners | Designers**

---

**225 E. Robinson Street, Suite 300**

**Orlando, FL 32801  (407)839-4006**

---

**Certificate of Authorization # 3932**

---

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

---

**Martinez, Bryce**

---

**2/19/2021 9:52:21 AM**

---

**Mark F. Bertoncini, P.E.**

---

**PE # 63437**

---

**THE GRAPHIC INFORMATION SHOWN ABOVE WAS CREATED AND DRAWN BY A REGISTERED TRANSPORTATION ENGINEER.**

---

**FOR INFORMATION PURPOSES ONLY.**
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
FORTUNE ROAD (EAST) ROADWAY
PLAN & PROFILE 21

ROLL: 256-000.00
MATCHLINE STA 256+000.00
MATCHLINE STA 258+000.00

ENGINEERS |
SCIENCES |
PLANNERS |
DESIGNERS

225 E. Robinson Street, Suite 300
Orlando, FL 32801  (407)839-4006
Certificate of Authorization # 3932

\vhb\gbl\proj\Orlando\63053.01 Lakeshore\cad\te\63053.01 Lakeshore\Roadway\PLPRRD02.dwg

Martinez, Bryce
2/18/2021 6:29:51 PM

OCEOLA COUNTY
FLORIDA

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004' F.A.C.
EAST LAKE SHORE BLVD.

FLOODPLAIN LIMITS

Matchline STA 303+00
Matchline STA 305+00

Exist. R/W
Exist. O.S.W.

Legend

- Asphalt Trail
- 6" Concrete Driveway
- Flood Plain

Const. 38" x 60" ERCP
Const. 14" x 23" ERCP

Matchline STA 302+80.00
Matchline STA 305+60.00

Prop. Profile
Ditch Profile

Prop. Profile
38" x 60" Pipe

Prop. Profile
38" x 60" Pipe

Prop. Profile
38" x 60" Pipe

Prop. Profile
38" x 60" Pipe

Prop. Profile
38" x 60" Pipe

Prop. Profile
38" x 60" Pipe

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38" x 60" Pipe

Prop. Profile
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Prop. Profile
38" x 60" Pipe

Prop. Profile
38" x 60" Pipe
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W
10' TRAIL
5.1' SOD
21.9'
17.7'
12.2'
10.24 RT.
17.7'
105.20
19" X 30" PIPE
FL. 60.55
FL. 58.50
18" PERFORATED HDPE
S-454
S-453
S-455
STA 480+00.00 (-8.31)
CONST. YARD DRAIN (12" X 12")
INDEX NO. 425-060
TOP EL. 61.80
FL 58.55 SE
FL 58.55 SW
FL 58.55 NE
FL 60.55 NW
CONST. 148 LF OF 18"
PERFORATED HDPE
10' TRAIL
5.1' SOD
29.4'
9.97 RT.
29.4'
.+05.20
10.24
RT.
.+07.49
10.24
RT.
.+00.00
10.24
RT.
.+05.20
10.24
RT.
.+07.49
10.24
RT.
MATCHLINE STA. 478+60.00
MATCHLINE STA. 481+40.00
MATCHLINE STA. 481+00.00
MATCHLINE STA. 480+00.00
MATCHLINE STA. 479+00.00
LAKESHORE BOULEVARD (SOUTH)
ROADWAY PLAN & PROFILE 29
OSCEOLA COUNTY
FLORIDA
ENGINEERS | SCIENTISTS
PLANNERS | DESIGNERS
225 E. Robinson Street, Suite 300
Orlando, FL 32801  (407)839-4006
Certificate of Authorization # 3932
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004' F.A.C.
\vhb\gbl\proj\Orlando\63053.01 Lakeshore\cad\te\63053.01 Lakeshore\Roadway\PLPRRD04.dwg
Martinez, Hillary
2/2/2021 11:15:17 AM
R-124
### CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

**FORTUNE ROAD - LAKE SHORE BOULEVARD MULTIPLE-USE TRAIL**

**STATIONS REFERENCE BASELINE OF CONSTRUCTION**

- **FORTUNE ROAD APPROXIMATE BEGIN STA.:** 893876
- **APPROXIMATE END STA.:** 894011
- **FORTUNE ROAD APPROXIMATE BEGIN STA.:** 892307
- **APPROXIMATE END STA.:** 892472
- **EAST LAKE SHORE BOULEVARD APPROXIMATE BEGIN STA.:** 890400
- **APPROXIMATE END STA.:** 890491
- **EAST LAKE SHORE BOULEVARD APPROXIMATE BEGIN STA.:** 890525
- **APPROXIMATE END STA.:** 890663

### ORGANIC CONTENT

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<th>STRATUM NO.</th>
<th>% ORGANIC CONTENT</th>
<th>MOISTURE CONTENT</th>
<th>SIEVE ANALYSIS RESULTS</th>
<th>ATTERRBECK LIMITS</th>
<th>CORROSION TEST RESULTS</th>
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### NOTES

1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT soil strata at each boring location only. Any subsoil connecting lines that are shown are for estimating earthwork only and do not indicate actual stratum limits. Subsurface variations between borings should be anticipated as detailed in Section 2-4 of the Foot Standard Specifications for Road and Bridge Construction. For further details see Section 120-3 of the Foot Design Specifications.

2. GROUNDWATER LEVEL SHOWN AS "-", WHERE ENCOUNTERED AT TIME OF SURVEY. ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS "X". GROUNDWATER NOT ENCOUNTERED SHOWN AS "-".

3. REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE FOOT STANDARD PLANS INDEX 120-002 UNLESS OTHERWISE SHOWN ON PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 120-003.

4. SOIL ANALYSIS INCLUDES DATA FROM TRAIL BORINGS.

5. THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.

6. THE SYMBOL "NP" REPRESENTS NON-PLASTIC.

7. STRATA 1, 2 AND 5 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-001.

8. STRATUM 3 SHALL BE TREATED AS MUCK (M) MATERIAL, IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-001.

9. STRATUM 4 SHALL BE TREATED AS PLASTIC (P) MATERIAL, IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-001.

10. STRATUM 5 MAY BE DIFFICULT TO DEWATER, Excavate and MAY REQUIRE SPECIALIZED EQUIPMENT AND/OR PROCEDURE TO FACILITATE EXCAVATION OR PENETRATION. STRATUM 5 MAY NEED TO BE PULVERIZED PRIOR TO USE AS FILL.

11. STRATUM 6 SHALL BE TREATED AS HIGH PLASTIC (H) MATERIAL, IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-001.

12. STRATUM 2, 4 AND 5 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION IN ACCORDANCE WITH FOOT STANDARD PLANS INDEX 120-001.
EAST LAKESHORE BOULEVARD - WALL 3

W.18
STA. 437+00, 3' LEFT
HARNESS TYPE: MANUAL
HARNESS TYPE: MANUAL
DATE DRILLED: 12/31/19
DATE DRILLED: 12/31/19
-200 200
MC=211
L=21
F=41
-200=20

LEGEND
- STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
HA= HAND AUGERED FOR UTILITY CLEARANCE
SH= ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
G= ENCOUNTERED GROUNDWATER DEPTH (FT.)
BT= BORING TERMINATED AT DEPTH INDICATED
-0%= PERCENT PASSING NO. 200 U.S. STANDARD WIRE
MC= PERCENT NATURAL MOISTURE CONTENT
L= LIQUID LIMIT
P= PLASTICITY INDEX
N= NON-PLASTIC
OC= PERCENT ORGANIC CONTENT
B= SAND
S= SAND AND SILT
M= SAND AND MUCK
O= ORGANIC CLAY

GENERAL NOTES
SUBSURFACE CONDITIONS SHOWN ON THE BORING DESCRIBES THE CONDITONS ENCYCLED AT THE BORING LOCATIONS. ACTUAL CONDITIONS NEAR THE BORING MAY VARY FROM THOSE SHOWN. UNCOMPACTED SOIL CLASSIFICATIONS SHOWN ON THE BORING ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

GENERAL PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-5318. STANDARD PENETRATION RESISTANCE ARE SHOWN ON THE BORING AT THE TEST DEPTH IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING PROJECT PLANS PROVIDED BY VHB AND A SUB-METER ACCURACY GPS UNIT (RODE)

SPLIT SPOON SAMPLER:
WEDGE DIAMETER: 1.25 IN.
OUTER DIAMETER: 3.0 IN.
AVERAGE HAMMER CRISP: 76 R.
HARNESS WEIGHT: 145 LBS.

ENVIRONMENTAL CLASSIFICATION:
ENVIRONMENT: STEEL, MODERATELY AGGRESSIVE (H12-14)
CONCRETE, SLIGHTLY AGGRESSIVE (C1-14)

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL
GRANULATORY CLASS
SAND
SAND AND SILT
SAND AND MUCK
ORGANIC CLAY

REVISIONS
DATE DESCRIPTION
CHRISTOPHER P. MEYER, P.E.
CONSULTANTS, INC.
2591 MICHIGAN AVENUE, SUITE D
KISSIMMEE, FL 34741-8133

OCEOLA COUNTY SHEET TITLE: WALL SPT BORING RESULTS
OSCEOLA COUNTY FLORIDA OSCEOLA MULTI-USE TRAIL
PROJECT NO.
9128
DATE CHK NO.
R.
 CHECKED BY: CONTI PROJECT NO.
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R.
109+00.00

110+50.00

112+00.00

108+50.00

110+00.00

111+50.00

108+00.00

109+50.00

111+00.00
269+00.00

270+00.00

271+00.00

268+70.00

269+50.00

270+50.00
### Cross Sections 25

**Engineers**: Mark F. Bertoncini, P.E.  
**Scientists**: Martinez, Bryce  
**Planners**: PE #63437  
**Designers**:  

**Date**: 2/18/2021 7:02:05 PM

#### XS-67

**Description**: 

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<th>Description</th>
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**Legend**:

- **Flood Plain**

**Scale**:

- 1" = 10' Horizontal
- 1" = 5' Vertical

**Notes**:

- **OSCEOLA COUNTY FLORIDA**
- **E. LAKESHORE BLVD. - NORTH**
- **CROSS SECTIONS 25**

**Sheet No.**: X5-67

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**Engineers**: Mark F. Bertoncini, P.E.  
**Scientists**: Martinez, Bryce  
**Planners**: PE #63437  
**Designers**:  

**Date**: 2/18/2021 7:02:05 PM

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**Legend**:

- **Flood Plain**

**Scale**:

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- 1" = 5' Vertical

**Notes**:

- **OSCEOLA COUNTY FLORIDA**
- **E. LAKESHORE BLVD. - NORTH**
- **CROSS SECTIONS 25**

**Sheet No.**: X5-67
Cross Sections 02
XS-79

405+00.00

405+50.00

406+00.00

407+00.00

406+25.00

405+00.00

405+70.00

406+25.00

407+00.00

E. LAKESHORE BLVD. - SOUTH

OSCEOLA COUNTY

FLORIDA

Engineers | Scientists

Planners | Designers

225 E. Robinson Street, Suite 300
Orlando, FL 32801  (407)839-4006

Certificate of Authorization # 3932

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Martinez, Hillary

1/29/2021 8:51:15 PM
E. LAKESHORE BLVD. - SOUTH
CROSS SECTIONS 15

438+50.00
439+00.00
439+50.00

LIMIT OF MUCK REMOVAL

EXIST. O.S.W.
EXIST. R/W
EXIST. EOP

LEGEND
- FLOOD PLAIN

FLOOD PLAIN

Martinez, Hillary
1/29/2021 8:54:10 PM

E. LAKESHORE BLVD. - SOUTH
CROSS SECTIONS 15

XL-63053.01 Lakeshore
Roadway

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225 E. Robinson Street, Suite 300
Orlando, FL 32801  (407)839-4006

Certificate of Authorization # 3932

Mark F. Bertoncini, P.E.
PE # 63437

1" = 10' Horizontal
1" = 5' Vertical
NOTE A:
FLANKING IS REQUIRED UPSTREAM AND DOWNSTREAM OF THE AREA OF COVERAGE IN CHANNEL APPLICATIONS.

NOTE 1.
THE DETAIL ILLUSTRATES THE INTENT OF WORK TO BE CONDUCTED.

NOTE 2.
THE CONTRACTOR MAY USE OTHER EQUIVALENT PRODUCTS AT THE PROJECT ENGINEER'S APPROVAL.
NOTE:
FOR SIDE STREETS, OVERLAY SHOULD START AT THE TRAVEL LANE TO 10 FT PAST THE TRENCH LINE.
STORMWATER POLLUTION PREVENTION PLAN: LAKESHORE TRAIL
OSCEOLA COUNTY, FLORIDA

1.0 SITE DESCRIPTION:

1.1. NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT INCLUDES THE ADDITION OF A SEVEN MILE, 10 FT WIDE TRAIL. THE PROJECT WILL START AT THE INTERSECTION OF FORTUNE ROAD AND US 192, AND CONTINUE EAST ALONG FORTUNE ROAD. OVER THE TURNPIKE (SR-91) BRIDGE THROUGH SIMPSON ROAD, AND THEN SOUTH INTO LAKE SHORE BOULEVARD. PART IN PARTIN SETTLEMENT ROAD.

THE TRAIL WILL CONTINUE SOUTH ON LAKE SHORE BOULEVARD, PAST THE C-31 CANAL BRIDGE, AND CONNECT INTO THE EXISTING TRAIL JUST NORTH OF COLUMBIA AVENUE. THE EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED WITHIN THE ENTIRE PROJECT LIMITS. EXISTING DITCHES WILL BE MAINTAINED OR REGRADED TO PROVIDE POSITIVE DRAINAGE AND EQUIVALENT VOLUME TO EXISTING OUTFALLS.

1.2. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL TO THE CANALS.
2. STORM DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
3. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF TRAIL.

1.1. AREA ESTIMATES:

| TOTAL SITE AREA:   | 30.14 ACRES | TOTAL AREA TO BE DISTURBED: | 20.14 ACRES |

1.2. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.41
DURING: VARIES FROM 0.41 TO 0.59
AFTER: 0.59

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE TRAIL ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEETS. IN GENERAL, THE SOILS ARE CLAYEY SANDS.

1.6. OUTFALL INFORMATION:

THERE ARE 11 OUTFALLS.

#1 DESCRIPTION: EXISTING BASS SLough CANAL AT STA. 156+25.00
LOCATION: LATITUDE 28° 18’ 5” N, LONGITUDE 81° 18’ 31” W
EST. DRAINAGE AREA SIZE: 3.07 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#2 DESCRIPTION: EXISTING UNNAMED DITCH AT STA. 212+40.00
LOCATION: LATITUDE 28° 18’ 15” N, LONGITUDE 81° 20’ 49” W
EST. DRAINAGE AREA SIZE: 1.76 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#3 DESCRIPTION: EXISTING UNNAMED CANAL AT STA. 312+80.00
LOCATION: LATITUDE 28° 18’ 8” N, LONGITUDE 81° 19’ 20” W
EST. DRAINAGE AREA SIZE: 4.2 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#4 DESCRIPTION: EXISTING UNNAMED CANAL AT STA. 371+60.00
LOCATION: LATITUDE 28° 17’ 10” N, LONGITUDE 81° 19’ 17” W
EST. DRAINAGE AREA SIZE: 2.56 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#5 DESCRIPTION: EXISTING UNNAMED CANAL AT STA. 387+95.00
LOCATION: LATITUDE 28° 18’ 15” N, LONGITUDE 81° 19’ 11” W
EST. DRAINAGE AREA SIZE: 6.43 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#6 DESCRIPTION: EXISTING CANAL AT STA. 401+60.00
LOCATION: LATITUDE 28° 18’ 37” N, LONGITUDE 81° 19’ 0” W
EST. DRAINAGE AREA SIZE: 1.48 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#7 DESCRIPTION: EXISTING CANAL AT STA. 401+80.00
LOCATION: LATITUDE 28° 18’ 44” N, LONGITUDE 81° 19’ 5” W
EST. DRAINAGE AREA SIZE: 0.66 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#8 DESCRIPTION: EXISTING CANAL AT STA. 418+30.00
LOCATION: LATITUDE 28° 18’ 16” N, LONGITUDE 81° 18’ 46” W
EST. DRAINAGE AREA SIZE: 2.38 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#9 DESCRIPTION: EXISTING CANAL AT STA. 434+50.00
LOCATION: LATITUDE 28° 18’ 26” N, LONGITUDE 81° 18’ 46” W
EST. DRAINAGE AREA SIZE: N/A
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#10 DESCRIPTION: EXISTING CLOUD CANAL AT STA. 454+80.00
LOCATION: LATITUDE 28° 15’ 60” N, LONGITUDE 81° 18’ 34” W
EST. DRAINAGE AREA SIZE: 2.87 ACRES
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

#11 DESCRIPTION: EXISTING INLET AT STA. 483+90.00
LOCATION: LATITUDE 28° 15’ 42” N, LONGITUDE 81° 18’ 9” W
EST. DRAINAGE AREA SIZE: N/A
RECEIVING WATER NAME: EAST LAKE TOHOPEKALIGA

1.4. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS. THE EXISTING AND PROPOSED DITCHES ARE SHOWN IN THE PLAN SHEETS.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS. THE EXISTING AND PROPOSED DITCHES ARE SHOWN IN THE PLAN SHEETS.

* SURFACE WATERS: THERE ARE SURFACE WATER IMPACTS ASSOCIATED WITH THIS PROJECT.

2.0 CONTROLS:

2.1. EROSION AND SEDIMENT CONTROLS:

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPTREAM AREAS ARE STABILIZED.

2.2. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPTREAM AREAS ARE STABILIZED.
2.4 Fertilizers and Pesticides:
In the sediment and erosion control plan, the contractor shall describe the procedures for applying fertilizers and pesticides. The proposed procedures shall comply with applicable subsections of Section 570 of the specifications.

2.5 Toxic Substances:
In the sediment and erosion control plan, the contractor shall provide a list of toxic substances that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.

2.6 Approved State and Local Plans and Permits:
*SPM, Permit exemption.

2.7 Maintenance:
In the sediment and erosion control plan, the contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction. The maintenance plan shall not be a minimum, comply with the following:
- *Silt fence: Maintain in accordance with specification section 104. The contractor should anticipate replacing silt fence on 12 month intervals.
- *Sediment barriers: Remove sediment as per manufacturer's recommendations or when water ponds in unacceptable amounts or areas.

4.0 Inspections:
Qualified personnel shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater. To comply, the contractor shall install and maintain rain gauges and record the daily rainfall. Where sites have been permanently stabilized, inspections shall be conducted at least once every month. The contractor shall also inspect that controls installed in the field agree with the latest stormwater pollution prevention plan.

- *Points of discharge to waters of the United States.
- *Points of discharge to municipal separate storm drain systems.
- *Areas used for storage of materials that are exposed to precipitation.
- *Structural controls.
- *Stormwater management systems.
- *Locations where vehicles enter or exit the site.

The contractor shall inspect that controls are in place. The structural practices shall include at least the following, unless otherwise approved by the engineer:
- *Providing inlet protection and sediment barriers in accordance with specification section 104.
- *Sod.

2.B Stormwater Management:
Existing and proposed swales will be maintained along the trail and several storm drain systems will be constructed to convey stormwater runoff to eleven (11) outfalls. See Item 1.E. for outfall information.

The proposed trail will require a permit exemption from the South Florida Water Management District (SFWMD). The project complies with the applicable standards within SFWMD and Osceola County.

2.C.1 Waste Disposal:
In the sediment and erosion control plan, the contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the engineer:
- *Providing litter control and collection within the project during construction activities.
- *Disposing of fertilizer or other chemical containers according to EPA standard practices as detailed by the manufacturer.

2.C.2 Off-Site Vehicle Tracking and Dust Control:
In the sediment and erosion control plan, the contractor shall describe the proposed methods for minimizing off-site vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the engineer:
- *Covering loaded haul trucks with tarpaulins.
- *Removing excess dirt from roads daily.
- *Using roadway sweepers during dust generating activities such as excavation and milling operations.

2.C.3 State and Local Regulations for Waste Disposal, Sanitary Sewer, or Septic Tank Regulations:
In the Section 104 erosion control plan, the contractor shall describe the proposed procedures to comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.
EXIST. 8" PVC FM TO REMAIN (TWA)
EXIST. BURIED TV TO REMAIN (CHARTER)
PROP. R/W
MATCHLINE STA. - 10560.00
MATCHLINE STA. - 11120.00

EXIST. BURIED TV TO REMAIN (CHARTER)
NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.

FORTUNE RD.

PI STA. 140+10.66
Curb Rise: U=+03.85

PI STA. 141
Curb Rise: U=-03.85

NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.

FORTUNE RD.

PI STA. 142+50.51
Curb Rise: U=+07.02

PI STA. 143
Curb Rise: U=-07.02

NO WORK IN THIS AREA.
FOR INFORMATION PURPOSES ONLY.
FORTUNE RD.

EXIST. CURB (TO REMAIN)

NO WORK IN THIS AREA. FOR INFORMATION PURPOSES ONLY.

FORTUNE RD.

EXIST. OVERHEAD TV TO BE REMOVED (CHARTER)

NO WORK IN THIS AREA. FOR INFORMATION PURPOSES ONLY.
FORTUNE ROAD (WEST) UTILITY
ADJUSTMENT 15

THIS SPACE WAS INTENTIONALLY LEFT BLANK
EXIST 16" C900-DR-18 RM TO REMAIN (TWA)

EXIST 12" PVC WM TO REMAIN (TWA)

EXIST BURIED FOC TO REMAIN (AT&T)

MATCHLINE STA. - 32240.00

MATCHLINE STA. - 32520.00

E. LAKE SHORE BLVD.
EXIST. BURIED TELEPHONE TO REMAIN (CENTURYLINK)
EXIST. BURIED TV TO REMAIN (CHARTER)
EXIST. BURIED TELEPHONE TO REMAIN (CENTURYLINK)
EXIST. BURIED TV TO REMAIN (CHARTER)
EXIST. BURIED FOC TO REMAIN (AT&T)
EXIST. HYDRANT TO BE RELOCATED AT PROP. STORM (AT&T)
EXIST. RM VALVE TO BE ADJUSTED (TWA)
EXIST. WM VALVE TO BE ADJUSTED (TWA)
EXIST. BURIED TELEPHONE TO BE RELOCATED AT PROP. STORM (CENTURYLINK)
EXIST. BURIED TV TO BE RELOCATED AT PROP. STORM (CHARTER)
EXIST. BURIED TELEPHONE TO REMAIN (CENTURYLINK)
EXIST. BURIED TV TO REMAIN (CHARTER)
EXIST. BURIED FOC TO REMAIN (AT&T)
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<tr>
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<th>T-3 PLAN</th>
<th>T-3 FINAL</th>
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<td>630-2-12</td>
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<td></td>
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<tr>
<td>635-2-11</td>
<td>PULL &amp; SPLICE BOX (F&amp;I) (13x24)</td>
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<td>2</td>
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<td>ALUMINUM SIGNALS POLE, PEDESTAL</td>
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<td>PEDESTRIAN SIGNAL, F&amp;I LED COUNTDOWN, 1 WAY</td>
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<td>665-1-11</td>
<td>PEDESTRIAN DETECTOR (F&amp;I) (STANDARD)</td>
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<td>670-5-400</td>
<td>TRAFFIC CONTROLLER ASSEMBLY, MODIFY</td>
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Note: Pay item 670-5-400 shall include all work necessary to connect the proposed pedestrian signal cable back to the existing controller and modify the SOP and signal timing as shown herein.
GENERAL NOTES

COLOR CODES: SIGNAL REFERENCES

1. SIGNAL REFERENCES

2. ALL BRACKETS, SPACES, AND SPACINGS SHOULD BE IN ACCORDANCE WITH THE latest FDOT SPECIFICATIONS.

3. ALL CONSTRUCTION WORKERS SHOULD BE FAMILIAR WITH OSCEOLA COUNTY'S INSPECTION PROCEDURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION (BOTH VERTICAL AND HORIZONTAL) OF ALL UNDERGROUND CONDUIT INSTALLATION. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

4. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

5. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

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8. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

9. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

10. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

11. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

12. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.

13. THE CONTRACTOR SHALL SUBMIT A COPY OF ALL ПЕДРИЦА МАТЕРИАЛЫ TAKEN TO DRYING THE CONCRETE. THE CONTRACTOR SHALL SUBMIT A SKETCH TO THE ENGINEER FOR APPROVAL, PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR DRAWINGS AS STIPULATED IN THE CONTRACT.
**SIGNAL HEAD DETAILS**

- 3-SECTION, 1-WAY existing
- 3-SECTION, 1-WAY existing
- 3-SECTION, 1-WAY existing

**PEDESTRIAN HEAD DETAILS**

- PED SIGNAL COUNT-DOWN
- 1-SECTION, 1-WAY
- 2 AS

**MOVEMENT DIAGRAM**

PHASE 1

PHASE 2

PHASE 3

**CONTROLLER TIMINGS**

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<th>TIMING FUNCTION</th>
<th>MOVEMENT NUMBER</th>
<th>1</th>
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<td>DETECTOR FUNCTION</td>
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</tbody>
</table>

**NOTES:**

1. All existing signal equipment shall remain.
2. The intent of the 620-2-11 pay item is to connect the proposed pedestrian signal heads to the existing controller. The contractor is not expected to rewire the whole intersection.
3. Existing pull boxes and conduits to remain shall be utilized to run the proposed signal cable for the pedestrian signals back to the controller cabinet.
TRAFFIC CONTROL NOTES

1. LANE CLOSURE RESTRICTIONS ARE AS FOLLOWS:

   **FORTUNE ROAD**
   - US 192 TO SIMPSON ROAD
     - OPEN ROAD: NO RESTRICTIONS
     - SIGNALIZED (w/in 600'): 7AM TO 7PM
   - SIMPSON ROAD TO LAKESHORE ROAD
     - NO RESTRICTIONS
   - E LAKESHORE BLVD AND LAKESHORE BLVD
     - NORTH OF PARTIN SETTLEMENT ROAD
       - NO RESTRICTIONS
     - SOUTH OF PARTIN SETTLEMENT ROAD
       - OPEN ROAD: NO RESTRICTIONS
       - SIGNALIZED (w/in 600'): 3PM TO 8PM AND 7AM TO 9AM

   WORK SHALL BE PERFORMED WITH MINIMAL LANE CLOSURES. LANE CLOSURES, WHETHER IN RESTRICTED OR NON-RESTRICTED LOCATIONS, SHALL BE REQUESTED IN WRITING AND APPROVED BY THE COUNTY. REQUESTS FOR LANE CLOSURES SHALL BE MADE ONE WEEK PRIOR TO THE LANE CLOSURE NEED AND SHALL INCLUDE THE LOCATION, LENGTH, AND DURATION OF THE CLOSURE. EXCESSIVE LENGTHS AND DURATIONS WILL NOT BE ALLOWED. MULTIPLE CONCURRENT LOCATIONS WILL ALSO REQUIRE APPROVAL.

2. SHOULDER WORK TRAFFIC CONTROL SHALL CONFORM TO STANDARD PLAN 102-602.

3. SIDEWALK CLOSURES ARE ANTICIPATED AT THE FOLLOWING LOCATIONS:
   - FORTUNE ROAD BETWEEN U.S. 17-92 TO WEST SIMPSON ROAD
   - FORTUNE ROAD BETWEEN HARBOR TOWN DRIVE AND FORTUNE ROAD ATHLETIC COMPLEX
   - REMINGTON ESTATES

   SIDEWALK CLOSURE AND DETOURS SHALL CONFORM TO STANDARD PLANS INDEX 102-660. DETOURS REQUIRING CROSSING FORTUNE ROAD SHALL BEGIN AND END AT A SIGNALIZED INTERSECTION WITH PEDESTRIAN DETECTION.

3. PROVIDE A FLAGGING OPERATION AT DRIVEWAYS AND SIDE STREETS TO GUIDE VEHICLES THROUGH CONSTRUCTION WHEN TRAFFIC CONTROL DEVICES CANNOT BE MAINTAINED SUCH AS DURING PAVING OPERATIONS.

4. THE EXISTING SPEED LIMIT SHALL BE MAINTAINED THROUGH THE PROJECT LIMITS.

5. MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

6. ALL LOCAL LAW ENFORCEMENT AND EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES.

7. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS, ALL SIGNING, PAVEMENT MARKING, BARRICADES AND WARNING LIGHTS NECESSARY FOR MAINTENANCE OF TRAFFIC SHALL CONFORM TO STANDARD PLANS 102-600 SERIES.

8. TEMPORARY CRASH CUSHIONS SHALL BE IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 544-001.

9. MAINTAIN ACCESS TO RESIDENTIAL AND BUSINESS DRIVEWAYS AT ALL TIMES.

10. ADDITIONAL DETAILS ARE ON THE FOLLOWING SHEET.

11. SEE ROAD CLOSURE DETOUR FOR THE INSTALLATION OF THE CANAL C-31 BRIDGE.
FORTUNE ROAD
STA. 224+00 TO STA. 283+00

E. LAKESHORE BLVD.
FORTUNE ROAD TO COLUMBIA AVENUE

NOTES:
1. MIRROR TRAFFIC CONTROL FOR WESTBOUND WORK ZONE.
2. SEE CROSS SECTIONS FOR WORK ZONE LIMITS AND WALL SECTIONS.
3. SEE STANDARD PLAN 102-602 FOR TRAFFIC CONTROL SET UP.

OSCEOLA COUNTY
FLORIDA

TRAFFIC CONTROL PLAN
TYPICAL SECTION SHEET 2

TCP-3
1. The limits of the Articulating Concrete Block (ACB) to be installed shall extend 5 feet beyond the left coping/edge and 5 feet beyond the right coping/edge of the proposed pedestrian bridge, as shown for bidding purposes, the approximate total width shall be 24 feet and extend from top of bank (Elev. 63.0) to bottom of channel (Elev. 45.0).

2. Additional Articulating Concrete Block (ACB) details are shown on Sheet DT-1.

3. Contractor shall flank/toe-in entire perimeter of the Articulating Concrete Block (ACB) slope protection.

**Notes:**

- Approximate Straight Line Dimension from existing bridge abutment to proposed pedestrian bridge footing.
NOTES:
1. THE LIMITS OF THE ARTICULATING CONCRETE BLOCK (ACB) TO BE INSTALLED SHALL EXTEND 5 FEET BEYOND THE LEFT COPING/EDGE AND 5 FEET BEYOND THE RIGHT COPING/EDGE OF THE PROPOSED PEDESTRIAN BRIDGE, AS SHOWN. FOR BIDDING PURPOSES, THE APPROXIMATE TOTAL WIDTH SHALL BE 24 FEET AND EXTEND FROM TOP OF BANK (ELEV. 63.0) TO BOTTOM OF CHANNEL (ELEV. 45.0).

2. ADDITIONAL ARTICULATING CONCRETE BLOCK (ACB) DETAILS ARE SHOWN ON SHEET DT-1.

3. CONTRACTOR SHALL FLANK/TOE-IN ENTIRE PERIMETER OF THE ARTICULATING CONCRETE BLOCK (ACB) SLOPE PROTECTION.

C-31 CANAL
TYPICAL SECTION - CONCRETE APPROACH ON GRAVITY WALL

STA. 453+64.76 TO STA. 454+09.76
STA. 455+54.76 TO STA. 455+94.76
SCALE: 1/4"=1'-0"

APPROACH GRAVITY WALL NOTES:
1. TYPICAL SECTION WILL BE "CONCRETE APPROACH ON GRAVITY WALL".
   FOR GRAVITY WALL LAYOUT, SEE SHEET B1-02.
2. FOR LINE AND CURVE DATA, SEE TRAIL PLANS.
3. FOR RETAINING WALL SOIL PARAMETERS, SEE TABLE BELOW.

RETAINING WALL SOIL PARAMETERS

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<th>DESCRIPTION</th>
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<td>MOIST UNIT WEIGHT (PCF)</td>
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<td>BUOYANT UNIT WEIGHT (PCF)</td>
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<td>ANGLE OF WALL FRICTION</td>
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PREFABRICATED BRIDGE REACTIONS

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<td>DEAD LOAD</td>
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<td>WIND³</td>
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<td>THERMAL</td>
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1. P - UNFACTORED VERTICAL LOAD EACH BEARING PLATE (4 PER SPAN)
2. T - UNFACTORED TRANSVERSE LOAD EACH BEARING PLATE (2 PER SPAN)
3. L - UNFACTORED LONGITUDINAL LOAD EACH BEARING PLATE (4 PER SPAN)
4. DOWNWARD VERTICAL LOADS ARE POSITIVE (+), UPWARD VERTICAL LOADS ARE NEGATIVE (-).
5. THE HORIZONTAL WIND LOAD ACTING AT THE C.G. OF THE TRUSS CREATES A TRANSVERSE SHEAR AND A VERTICAL COUPLE AT THE TOP OF EACH PIER/BEARING LOCATION.
6. THE REACTIONS PROVIDED ON THE TABLE ABOVE ARE THE CONTROLLING REACTIONS PROVIDED BY PREFABRICATED TRUSS MANUFACTURERS. ALL REACTIONS DUE TO WIND ARE BASED ON THE 150 MPH WIND SPEED.
1. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF THE PREFABRICATED STEEL TRUSS SUPERSTRUCTURE AND ASSOCIATED COMPONENTS. SEE "CONTRACTOR DESIGNED SUPERSTRUCTURE" NOTES ON THE GENERAL NOTES SHEET B1-01.


3. SEE PROPOSED GRADING NOTE ON SHEET B1-01.

NOTES:

ABUTMENT ELEVATIONS

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<th>LOCATION</th>
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TYPICAL ABUTMENT ELEVATION

SCALE: 1/4"=1'-0"

TYPICAL ABUTMENT PLAN

SCALE: 1/4"=1'-0"