UTILITIES COMMISSION,
CITY OF NEW SMYRNA BEACH, FLORIDA
FIELD STREET 115KV THREE-WAY TIE SWITCH INSTALLATION
ITB #06-21

COVER SHEET, LOCATION MAP, VICINITY MAP, AND INDEX OF DRAWINGS

PREPARED BY

ISSUED FOR BID
NOT FOR CONSTRUCTION

VOLUSIA COUNTY MAP

PROJECT AREA

STATE MAP

PROJECT LOCATION

FREEMAN G. BASS, P.E.

PROFESSIONAL ENGINEERS OF FLORIDA

FREDERICK WILSON ASSOCIATES, INC.
ENGINEERING SERVICES

PROVINCIAL IMPRINT: CITY OF NEW SMYRNA BEACH
13. LOCATION
b. THE WORK SHALL TAKE PLACE IN VOLUSIA COUNTY, FLORIDA, FROM THE INTERSECTION OF NORTH GLENCOE ROAD AND THE NEW SMYRNA BEACH MULTI-USE TRAIL TO A POINT 300 FEET EAST ALONG THE MULTI-USE TRAIL. THE PROJECT SITE IS NORTH OF STATE HIGHWAY 405 AND EAST OF 405. CONTRACTOR SHALL COORDINATE WITH THE UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FOR ACCESS TO PROJECT SITE.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE TRANSFORMER MULTI-USE PATH DURING Construction ACTIVITIES.

15. THE CONTRACTOR IS ADVISED THAT THERE ARE EXISTING GOPHER TORTOISE BURROWS IN THE PROJECT AREA. THE OWNER WILL PERFORM AN ENVIRONMENTAL SURVEY PRIOR TO THE START OF THE PROJECT TO IDENTIFY THESE LOCATIONS. CONTRACTOR SHALL NOTIFY OWNER IF ADDITIONAL PROTECTED WILDLIFE IS IDENTIFIED WHILE ON SITE.

ABBREVIATIONS & WORK DESCRIPTIONS

WORK DESCRIPTIONS EXAMPLES

R/W - REMOVE POLE
H/S - INSTALL SHOE TRANSFORMER ON AD
E/OFF - EXISTING SERVICE TRANSFORMER OFF
S/INS - SERVICE INSTALL
T/TRANS - TRANSFORMER BANK
C/B - CIRCUIT BREAKER
L.A. - LIGHTNING ARRESTER
U.C.B. - UTILITIES COMMISSION OF NEW SMYRNA BEACH
T - TRANSFER
H/W - HIGH WIRE
H/S - HIGH STRENGTH
S.H. - SHIELD
N.O. - NORMALLY OPEN

NOTES:
A. HANG OR INSTALL
E. EXISTING
R. REMOVE

PROPOSED
EXISTING
DESCRIPTION

1. PROJECT SPECIFICATIONS: FORM AN INTEGRAL PART FOR THE PROJECT CONSTRUCTION DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS FOR BID PROPOSALS. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FOR ACCESS TO PROJECT SITE.

2. PHASE RELATIONSHIP FOR TRANSMISSION LINES SHALL BE A & C TO BOTTOM AND AS SHOWN ON THE DRAWINGS.


4. WHERE UNDERGROUND FACILITIES ARE IN CLOSE PROXIMITY TO A PROPOSED POLE, THE CONTRACTOR SHALL SURVEY THE UTILITY WITHIN THE 20 FEET. WHERE THERE IS A POSSIBLE RISK TO A UTILITY DUE TO EXCAVATION, THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO PROTECT THE UTILITY, AND IS RESPONSIBLE FOR ANY DAMAGE TO THAT UTILITY.

5. PREVIEW SHALL BE FOR FURNISH AND INSTALL.

6. MATERIAL MANUFACTURERS AND STOCK NUMBERS SHOWN ARE RECOMMENDATIONS AS TO FORM, FIT AND QUALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE APPROPRIATE G LINAL WOOD IN ACCORDANCE WITH THE CONTRACTOR FOR LOCATION MARKING ON EXCAVATING OF UNDERGROUND FACILITIES BEFORE EXCAVATING. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. WHERE UNDERGROUND FACILITIES ARE IN CLOSE PROXIMITY TO A PROPOSED POLE, THE CONTRACTOR SHALL SURVEY AND VERIFY ANY EXPRESSED UTILITIES, AND SHALL TAKE ALL STEPS NECESSARY TO PROTECT THE UTILITY. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED TO SUBSURFACE UTILITIES.

7. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE STOP, 300 SOUTH 2ND STREET, SUITE 300, TAMPA, FL 33602, AT LEAST 60 DAYS PRIOR TO CONSTRUCTION FOR LOCATION MARKING OR EXCAVATION OF UNDERGROUND FACILITIES BEFORE EXCAVATING. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. WHERE UNDERGROUND FACILITIES ARE IN CLOSE PROXIMITY TO A PROPOSED POLE, THE CONTRACTOR SHALL SURVEY AND VERIFY ANY EXPRESSED UTILITIES, AND SHALL TAKE ALL STEPS NECESSARY TO PROTECT THE UTILITY. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE CAUSED TO SUBSURFACE UTILITIES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS FOR CONSTRUCTION OPERATIONS WITHIN COUNTY AND STATE ROAD RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SEDIMENT CONTROL DUE TO CONSTRUCTION ACTIVITIES.

10. CONTRACTOR SHALL COORDINATE WITH U.C.B. BEFORE CUTTING ANY EXISTING CONDUCTORS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PHASE ROTATION, SETTING UP VICES, ETC. TO AND THE SAFETY OF THE WORKERS AND THE PUBLIC.

12. CONTRACTOR SHALL PROVIDE OVERHEAD CABLE SPLICES, INSIDE NECESSARY.

ABBR.
H - HANG OR INSTALL
E - EXISTING
R - REMOVE
R/P - REMOVE POLE
LS - LIGHTNING ARRESTER
U.C.B. - UTILITIES COMMISSION OF NEW SMYRNA BEACH
T - TRANSFER
H/W - HIGH WIRE
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POLES AP17A, FS31, AND FS33
FRAMING AND ELEVATIONS

FIELD STREET 115KV
THREE-WAY SWITCH
INSTALLATION

ISSUED FOR BID
NOVEMBER 19, 2020
NOT FOR CONSTRUCTION

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

CHECKED
DRAWN
DATE
SHEET
SCALE:
ENGINEER
DRAWING NO.
DATE
REVISION DESCRIPTION
APPROVED
NO.
BY
DESIGN ENGINEER:
PE LICENSE NO.:
### 0° to 30° Double Dead-End Transmission

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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<th>Qty.</th>
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<tbody>
<tr>
<td>1</td>
<td>Bolt, Machine, HDG, 1/2&quot; x Required Length, 3/16” Neck</td>
<td>Penn-Union</td>
<td>SA1013</td>
<td>8</td>
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<tr>
<td>2</td>
<td>Square Curved Washer, 3/4&quot; or 7/8&quot; Bolt, HDG, 4”</td>
<td>Penn-Union</td>
<td>SA1013</td>
<td>3</td>
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<td>Locknut, Machine, HGD, 7/8&quot; Bolt, Concave Square</td>
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<tr>
<td>4</td>
<td>Bolt, Machine, HDG, 7/8&quot; x Required Length, With Nuts</td>
<td>Hubbell</td>
<td>YCB-30</td>
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### Shield Wire DDE - Tap

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### Transmission Jumper Post, 795 AAC

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POLE DESIGN TO THE NESC 2017 AND GRADE B CONSTRUCTION.

- EXTREME WIND = 125MPH
- LIGHT WIND = 30MPH
- NO WIND

1. THE ORIENTATIONS OF LOADS ARE AS SHOWN IN THE VIEWS.
2. ULTIMATE WIND ON POLE = 40.80 kips/ft FOR 3-ID LOADS
   (EXTREME WIND = 125MPH)
3. ALL LOADS GIVEN IN POUNDS AND INCLUDE THE APPROPRIATE OUT
   DEFLECTION.
4. POLE DESIGNED TO THE NESC 2017 AND GRADE B CONSTRUCTION.

GENERAL NOTES:

6'-8" - 3#6 AW

TRANSMISSION LOADING TREE
FIELD STREET 115KV THREE-WAY SWITCH INSTALLATION
TRANSMISSION LOADING TREE
AND POLE DRILLING DETAILS
POLE AP17A

ISSUED FOR BID
NOVEMBER 16, 2020
NOT FOR CONSTRUCTION

ED-7
ROAD: NONE
SHEET: 10 OF 12

FIELD STREET 115KV
THREE-WAY SWITCH
INSTALLATION