THE CONTRACTOR SHALL WARRANTY THE WORK FOR A MINIMUM OF ONE YEAR UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER REPAIR AND/OR REPLACE ALL DEFECTIVE MATERIALS AND WORK AT NO COSTS TO THE OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR EVALUATION BY THE ENGINEER, REGULATORY AGENCIES, AND OWNER. THE CONTRACTOR SHALL NOTIFY THE EOR AT APPROPRIATE AND APPROVED TIMES DURING THE CONSTRUCTION.

THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL STRUCTURES AND EXISTING UTILITIES, WIN TANKS SHOWN OR NOT ON THE DRAWINGS.

THE CONTRACTOR SHALL PLUG WINDBRICKS AND ALSO INDICATE THE AREAS AND LIMITS OF CONSTRUCTION.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SEPARATE DIGITAL COPY OF THE AS-BUILT SURVEY DRAWINGS IN A CAD FORMAT FOR THE ENGINEER TO SIGN AND SEAL. THE AS-BUILT SURVEY DRAWINGS SHALL BE SUBMITTED IN DIGITAL AND 22" X 34" PAPER VERSIONS (UP TO 5 COPIES) TO THE ENGINEER FOR APPROVAL. THE AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA AND SHALL STATE A SEPARATE PRICE FOR AN AS-BUILT SURVEY IN THE BID PRICE. THE AS-BUILT SURVEY SHALL BE CLEARLY DEFINED OTHERWISE IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER IN THE CONTRACT DOCUMENTS. UNLESS CLEARLY SPECIFIED OTHERWISE BY THE OWNER IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING ALL NOTICES OF COMMENCEMENTS AND NOTICES OF COMPLETION TO ALL PERMITTING AGENCIES.

THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY FOR OBSERVATION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK, THE CONTRACTOR SHALL SUBMIT THE ORIGINAL RECORD DRAWINGS TO THE OWNER. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT OBSERVE THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED BEFORE ACTION IS REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE THE STRUCTURE UNTIL COMPLETED WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL CEASE ALL WORK IN THE EVENT OF AN EMERGENCY OR IN AN AREA OF OPEN EXCAVATIONS. SHORING AND TRENCHING SHALL COMPLY WITH OSHA STANDARDS OR SIMILAR SUCH STANDARDS AS APPROVED BY THE ENGINEER. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
GENERAL PROJECT NOTES:
1. CONCRETE CAP WILL HAVE JOINTS IN CAP BASED ON ACTUAL LENGTH OF SEAWALL CONSTRUCTED AND WILL BE DETERMINED AT TIME OF ACTUAL CONSTRUCTION.
2. FINAL HELICAL ANCHOR LENGTH WILL BE DETERMINED AT TIME OF CONSTRUCTION AFTER TESTING.
3. FINAL HELICAL CONFIGURATION WILL BE DETERMINED AT TIME OF CONSTRUCTION AFTER TESTING.
4. BACKFILL IS TO OCCUR LANDWARD TO SEAWARD IN ALL INSTANCES AS NEAR AS PRACTICAL, IN 12" LIFTS.
5. BACKFILL COMPACTION WILL OCCUR UNTIL ALL BACKFILL IS IN PLACE, UPPER 24" OF BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.
6. THREE (3) HELICAL ANCHOR TESTING LOCATIONS ARE NOTED ON THIS SHEET.

REFERENCES:
1. AERIAL: OCTOBER 8, 2016 (POST HURRICANE MATTHEW)
2. SURVEY REFERENCE: A "SPECIFIC PURPOSE BOUNDARY AND TOPOGRAPHIC SURVEY" FOR TAYLOR ENGINEERING, INC.
4. AS SHOWN

VIBRATION MONITORING:
1. PRIOR TO BEGINNING THE SHEETPILE INSTALLATION, THE CONTRACTOR SHALL VISIT AND INSPECT EACH HOUSE ADJACENT TO THE PROPOSED SHEETPILE LOCATION.
2. THE CONTRACTOR SHALL TAKE PHOTOGRAPHY OF BOTH THE INTERIOR AND EXTERIOR OF EACH HOUSE TO DOCUMENT ANY EXISTING HOUSE STRUCTURAL FAILURES.
3. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A QUALIFIED GEO-TECHNICAL ENGINEER TO INSTALL AND MONITOR A VIBRATION CONTROL INSTRUMENT AT EACH HOME WHERE A SEAWALL IS TO BE INSTALLED.
4. THE VIBRATION MONITOR SHALL BE MOVED TO THE NEXT HOME AS THE SEAWALL ADVANCES.
5. AFTER THE SEAWALL IS INSTALLED, THE CONTRACTOR SHALL PERFORM A "POST" EVALUATION AND INSPECTION OF EACH HOME.
6. THE CONTRACTOR IS TO OBTAIN SIGNED RELEASES FROM EACH HOMEOWNER AFTER THE SEAWALL IS INSTALLED.

PROJECT TITLE
FLAGLER SEAWALL AT PAINTER'S HILL
CONSTRUCTION DRAWINGS
FLAGLER COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
SUNSHINE 811 - ALWAYS CALL 811 BEFORE YOU DIG
1-800-638-4097
**PROJECT TITLE:** FLAGLER SEAWALL AT PAINTER'S HILL  
**CONSTRUCTION DRAWINGS**  
FLAGLER COUNTY, FLORIDA  

**PRELIMINARY DRAWINGS:** THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

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**UNIVERSAL ENGINEERING SCIENCES**  

**HUGO H. VERKERK P.E.**  
TAYLOR ENGINEERING INC.  
10151 DEERWOOD PARK BLVD  
BLDG 300, SUITE 300  
JACKSONVILLE, FLORIDA  32256  
(904)-731-7040  
CERTIFICATE OF AUTHORIZATION # 4815  
1221 AIRPORT ROAD  
SUITE 210  
DESTIN, FL  32541  
(850)-460-7040

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**UNIVERSAL ENGINEERING SCIENCES BORING LOG**

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**C-4**  
DRAWING TITLE  
CORE BORING PROFILES

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1-800-638-4097
EXISTING CONDITIONS

185
C-5

REBECCA JOHNSON, 5/12/2017 4:23:37 PM, X:\sys\Projects\C2016-079 Flagler Coastal Seawall\Construction\Painters Hill Seawall\C2016-079-C-ExtCond.dwg

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MAY 2017

DRAFT

PRELIMINARY DRAWINGS: THESE DRAWINGS ARE NOT IN FINAL FORM, BUT ARE BEING TRANSMITTED FOR AGENCY REVIEW.

PROJECT TITLE
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CONSTRUCTION DRAWINGS
FLAGLER COUNTY, FLORIDA

SUNSHINE STATE ONE CALL OF FLORIDA
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REFERENCES
1. AERIAL: OCTOBER 8, 2016 (POST HURRICANE MATTHEW)
2. SURVEY REFERENCE: A "SPECIFIC PURPOSE BOUNDARY AND TOPOGRAPHIC SURVEY" FOR TAYLOR ENGINEERING, INC. FOR USE ON PAINTER'S HILL SEAWALL IN FLAGLER COUNTY.
4. HORIZONTAL DATUM: NORTH AMERICAN DATUM 1983 FLORIDA STATE PLANE, EAST ZONE, US FOOT

1" = 20' 40' 80'

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GRAPHIC SCALE
22X34: 1" = 20'
11X17: 1" = 40'

TAYLOR ENGINEERING INC.
1211 ARCHER ROAD
SUITE 300
JACKSONVILLE, FLORIDA 32207
(904) 731-7040

HUGH C. VERKERK P.E.
TAYLOR ENGINEERING INC.
10151 DEERWOOD PARK BLVD
BLDG 300, SUITE 300
JACKSONVILLE, FLORIDA 32256
(904) 731-7040
CERTIFICATE OF AUTHORIZATION # 4815

1221 AIRPORT ROAD
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EXISTING CONDITIONS
C-7
SHEET 1 OF 10

GRAPHIC SCALE
22X34: 1" = 20'
11X17: 1" = 40'

SEAL DESIGNED DRAWN CHECKED REVIEWED DATE SCALE PROJECT NO DRAWING TITLE SHEET OF
A B C D E F G H
NEW HELICAL ANCHORS @ 6’ CENTER TO CENTER (CHANCE SS 150) MINIMUM CAPACITY 25,000 LBS.
LENGTH OF HELICAL ANCHOR VARIES. SEE PLANS FOR DESIGNATED LENGTHS TO BE USED AT LOCATIONS. ACTUAL LENGTH AND NUMBER OF HELICAL DISCS SHALL BE DETERMINED BY THE INSTALLER AFTER THE INSTALLATION OF THE THREE (3) TEST Anchors ARE INSTALLED. (TYPICAL)
EROSION CONTROL DETAILS

1. Silt fence installation and spacing for Type III & Type IV silt fence protection are to be in accordance with Chart I, Sheet 1 of 3, of the F.D.O.T. Roadway and Traffic Design Standards.

2. The site contractor is responsible for removing the temporary erosion and sediment control devices after completion of construction and only when areas have been stabilized.

3. Erosion control barriers to be placed at each sheetpile installation area. Barrier may be moved as sheetpile installation advances.

4. Backfill and compact the excavated soil.

CROSS SECTION OF A PROPERLY INSTALLED STRAW Bale

FILTERED RUN-OFF

SILT FLOW

EROSION CONTROL AND GENERAL VEGETATION NOTES:

1. Silt fence installation and spacing for Type III & Type IV silt fence protection are to be in accordance with Chart I, Sheet 1 of 3, of the F.D.O.T. Roadway and Traffic Design Standards.

POST DIMENSIONS: 2"x4" (MIN. 2"x6"") STEEL 1.33 lbs/ft MIN. OR 3"x4" OR 1.5"x3" MIN. Ø WOOD; 3' OR 5' MIN. STAKE. PRINCIPLE POST POSITION (CANTED 20° TOWARD FLOW)

ANCHOR BALES WITH (2) 2"x2"x4' STAKES PER BALE. BACKFILL AND COMPACT THE EXCAVATED SOIL. POST...

HUGH C. VERKERK P.E. #38031

FLAGLER SEAWALL AT PAINTER’S HILL
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FLAGLER COUNTY, FLORIDA

PROJECT TITLE

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