

# DREDGED MATERIAL MANAGEMENT AREA SJ-14 WEIR AND WALKWAY REPLACEMENT

## ST JOHNS COUNTY, FLORIDA



LOCATION MAP  
N.T.S.



### DRAWING INDEX

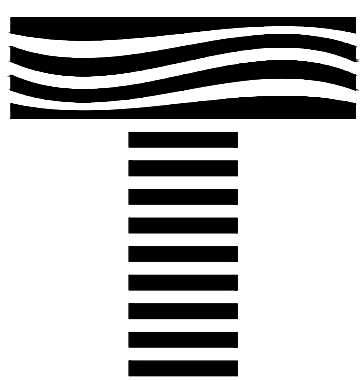
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VICINITY MAP  
1"= 2000' (22x34)  
1"= 4000' (11x17)

REFERENCE:  
OPEN STREET MAP, ESRI



|                                                                                                                                                                                                                                                               |                                                                                                          |           |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------|-----------------------------|
| <div>TAYLOR<br/>ENGINEERING, INC.</div> <div></div> <div>10199 SOUTHSIDE BLVD<br/>SUITE 310<br/>JACKSONVILLE, FLORIDA 32256<br/>(904)-731-7040<br/>REGISTRY # 4815</div> | PROJECT TITLE                                                                                            |           | SEAL                        |
|                                                                                                                                                                                                                                                               | DREDGED MATERIAL<br>MANAGEMENT AREA SJ-14<br>WEIR AND WALKWAY<br>REPLACEMENT<br>ST JOHNS COUNTY, FLORIDA |           |                             |
|                                                                                                                                                                                                                                                               | PROJECT NO                                                                                               | C2021-071 |                             |
|                                                                                                                                                                                                                                                               | DATE                                                                                                     | DEC 2021  | KEITH A. KNIGHT P.E.# 58084 |
| C-1                                                                                                                                                                                                                                                           |                                                                                                          |           | SHEET 1 OF 16               |

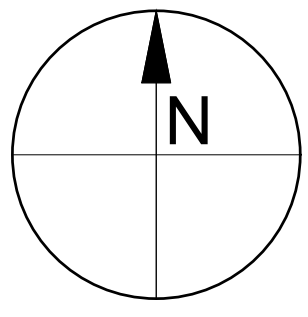
1. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR INSPECTION BY THE EOR, ENGINEER, AND OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE EOR AND THE ENGINEER AS NECESSARY FOR CONSTRUCTION INSPECTION. THE CONTRACTOR SHALL NOTIFY THE EOR AND THE ENGINEER AT APPROPRIATE AND APPROVED TIMES DURING THE COURSE OF THE WORK THAT THE CONTRACTOR IS READY FOR INSPECTION. WORK THAT IS ASSEMBLED OR COVERED SO THAT THE ENGINEER CANNOT INSPECT THE WORK PROPERLY SHALL BE DISASSEMBLED, UNCOVERED, OR DESTROYED AS NECESSARY FOR INSPECTION. THE COSTS OF REPAIR OR RESTORATION OF THIS WORK SHALL BE BORNE SOLELY BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR THE ENGINEER TO OBSERVE AND INQUIRE ABOUT THE WORK. THIS MAY INCLUDE PROJECT MANAGERS, SUPERINTENDENTS, FOREMEN, LABORERS, LADDERS, HARD HATS, BOATS, LIFE JACKETS, LIFTS, SCAFFOLDING, MEASURING DEVICES, SURVEY EQUIPMENT, ETC.
4. ALL REQUIRED SUBMITTALS OR MANUFACTURER'S INFORMATION SHALL BE IN U.S. CUSTOMARY UNITS. ALL SUBMITTALS USING METRIC UNITS WILL BE REJECTED AND RETURNED WITHOUT COMMENT.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
6. THE CONTRACTOR SHALL LOCATE ALL ABOVE-GROUND AND BELOW-GROUND UTILITIES BEFORE BEGINNING WORK.
7. IN THE CASE OF AN INCONSISTENCY BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT NOT CLARIFIED BY ADDENDUM, THE BETTER QUALITY OR GREATER QUANTITY OF WORK SHALL BE PROVIDED IN ACCORDANCE WITH THE ENGINEER'S INTERPRETATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ADJACENT FACILITIES CAUSED BY HIS ACTIVITIES DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL RESTORE ALL SUCH DAMAGES TO THEIR PRE-CONSTRUCTION CONDITION AT NO COSTS TO THE OWNER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING AND DEWATERING OF ALL OPEN EXCAVATIONS. SHORING AND TRENCHING SHALL COMPLY WITH OSHA STANDARDS AND THE FLORIDA SAFE TRENCH ACT.
10. DRAINAGE FROM STORMWATER, GROUND WATER, OR DE-WATERING SHALL BE CONTROLLED ONSITE. DRAINAGE NOT PREVIOUSLY DISCHARGED OFFSITE SHALL NOT BE DISCHARGED TO ADJACENT PROPERTIES DURING THE COURSE OF THE WORK.
11. ONSITE SOILS SHALL NOT BE ALLOWED TO ERODE OR OTHERWISE MOVE TO ADJACENT PROPERTIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRIERS AND SIGNS ADEQUATE TO PREVENT NORMAL PUBLIC ACCESS.
13. THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS AND SHALL KEEP A RECORD OF ALL DEVIATIONS FROM THE ORIGINAL DRAWINGS MARKED IN RED PENCIL OR PEN. THE RECORD DRAWINGS SHALL BE KEPT ONSITE AND SHALL BE AVAILABLE FOR OBSERVATION BY THE ENGINEER.
14. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING, BRACING, OR OTHER MEANS/METHODS NECESSARY TO STABILIZE THE STRUCTURE UNTIL COMPLETED WITH ALL COMPONENTS INSTALLED. UNLESS SPECIFICALLY STATED IN THE DRAWINGS, THE CONTRACTOR SHALL ASSUME THE EOR HAS ONLY DESIGNED THE STRUCTURE(S) FOR THE FINAL CONSTRUCTED AND ASSEMBLED STATE AS SHOWN ON THE DRAWINGS.
15. ALL PERMANENT MATERIAL SHALL BE NEW, USED, RECONDITIONED, OR REMANUFACTURED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER IN WRITING.
16. ALL STORAGE OR STOCKPILING OF TOOLS AND MATERIAL, AND OPERATION OF HEAVY EQUIPMENT ASSOCIATED WITH CONSTRUCTION SHALL BE LIMITED TO AREAS AUTHORIZED BY THE ENGINEER.
17. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, COUNTY, AND MUNICIPAL RULES AND REGULATIONS.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT SUPPLIED BY THE OWNER. COSTS OF OBTAINING PERMITS NOT SUPPLIED BY THE OWNER SHALL BE BORNE BY THE CONTRACTOR. THIS SHALL INCLUDE BUT NOT BE LIMITED TO: NPDES PERMIT (OR NOI), CLEARING OR LAND DISTURBANCE PERMITS, TREE IMPACT PERMITS, CITY OR COUNTY BUILDING PERMITS, DRIVEWAY OR ENTRANCE PERMITS, TEMPORARY UTILITIES PERMITS, ETC.
2. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS. ALL WETLAND AREAS AND WATER BODIES OUTSIDE THE SPECIFIC LIMITS OF CONSTRUCTION AUTHORIZED BY THIS PERMIT SHALL BE PROTECTED FROM EROSION, SILTATION, SCOURING, AND/OR DEWATERING. WITHIN 7 DAYS OF ANY CONSTRUCTION ACTIVITY, EROSION BARRIERS SHALL BE INSTALLED PRIOR TO ANY EXCAVATION OR PLACEMENT OF FILL MATERIAL. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED AREAS ARE STABILIZED.
3. EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS ARE A MINIMUM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY PERMIT AUTHORITIES. ANY ADDITIONAL EROSION CONTROL MEASURES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COSTS TO THE OWNER.
4. IF HISTORICAL OR ARCHAEOLOGICAL ARTIFACTS ARE DISCOVERED AT ANY TIME ON THE PROJECT SITE, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD AND CEASE WORK IN THE AREA THE ARTIFACTS WERE IDENTIFIED. AS-BUILT SURVEYS
1. THE CONTRACTOR SHALL INCLUDE THE COST OF AN AS-BUILT SURVEY IN THE BID PRICE. THE AS-BUILT SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEY LICENSED IN THE STATE THE PROJECT IS IN AND SHALL SHOW THE LOCATION AND ELEVATION OF ALL CONSTRUCTED FEATURES.

1. THE EXISTING DIKE SECTION, WEIRS, WALKWAY, AND PIPES SHALL BE REMOVED IN ACCORDANCE WITH THE DEMOLITION PLAN. ALL DEMOLISHED MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL LAWS AND REGULATIONS.
2. EXISTING DREDGED MATERIAL THAT LIES WITHIN THE FOOTPRINT OF THE PROPOSED WEIR FOUNDATION SHALL BE EXCAVATED TO THE ORIGINAL BASIN ELEVATION AS SHOWN IN THE GRADING PLAN. EXCAVATED MATERIAL SHALL BE PLACED IN THE BASIN AREA. THE CONTRACTOR SHALL ANTICIPATE DEWATERING DURING THIS PHASE OF THE WORK. DEWATERING EFFLUENT SHALL BE CONTAINED WITHIN THE BASIN AREA OF DMA SJ-14.
3. THE WEIR PAD (AS SHOWN IN THE WEIR PLAN AND PROFILE) SHALL BE CONSTRUCTION FROM CLEAN SAND OBTAINED FROM THE SPECIFIED BASIN AREA OF DMA SJ-14.
4. THE CONCRETE WORK SHALL BE COMPLETED AND ALLOWED TO CURE AS SPECIFIED IN SECTION 03 30 00 CAST-IN-PLACE CONCRETE.
5. THE NEW WEIRS, WALKWAY, PIPES SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT DRAWINGS.
6. THE DIKE SECTION SHALL BE REBUILT IN LIFTS AS DESCRIBED IN SECTION 31 23 00 - DIKE AND EARTHWORK CONSTRUCTION.
7. ALL DISTURBED GROUND SURFACE SHALL RECEIVE SOD AS DESCRIBED IN SECTION 32 92 19.

1. ALL UNITS ARE IN FEET UNLESS NOTED OTHERWISE
2. HORIZONTAL DATUM = STATE PLANE COORDINATES NAD83/FLORIDA EAST
3. VERTICAL DATUM = NAVD 88

1. THIS SECTION PROVIDES AN ABBREVIATED SUMMARY OF THE FABRICATION AND COATING REQUIREMENTS. SEE SECTION 33 40 00 STEEL BOX WEIRS FOR FULL AND DETAILED INSTRUCTIONS.
2. BOX WEIRS SHALL BE FABRICATED OF ASTM A36 OR ASTM A572 GRADE 50 STEEL. BOX WEIRS SHALL BE COATED WITH COAL TAR EPOXY.
3. LADDERS SHALL BE FABRICATED OF ASTM A36 STEEL AND HOT-DIP GALVANIZED.
4. FLAP GATES SHALL BE FABRICATED OF ALUMINUM TEMPER 6061-T6 AND SHALL NOT BE COATED.
5. WALKWAY SHALL BE FABRICATED OF ALUMINUM TEMPER 6061-T6 AND SHALL NOT BE COATED.
6. WALKWAY GRATING SHALL BE FABRICATED OF ALUMINUM TEMPER 6063-T6 AND SHALL NOT BE COATED.
7. CONNECTIONS AND ANCILLARY MATERIALS SHALL BE AS DESCRIBED IN SECTION 33 40 00 - STEEL BOX WEIRS AND ALUMINUM WALKWAYS.



**TAYLOR**  
ENGINEERING, INC.



10199 SOUTHSIDE BLVD  
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CKSONVILLE, FLORIDA 322  
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REGISTRY # 4815

AL

ITH A. KNIGHT P.E.# 58084

DREDGED MATERIAL MANAGEMENT AREA  
SJ-14 WEIR AND WALKWAY REPLACEMENT  
ST. JOHNS COUNTY, FLORIDA

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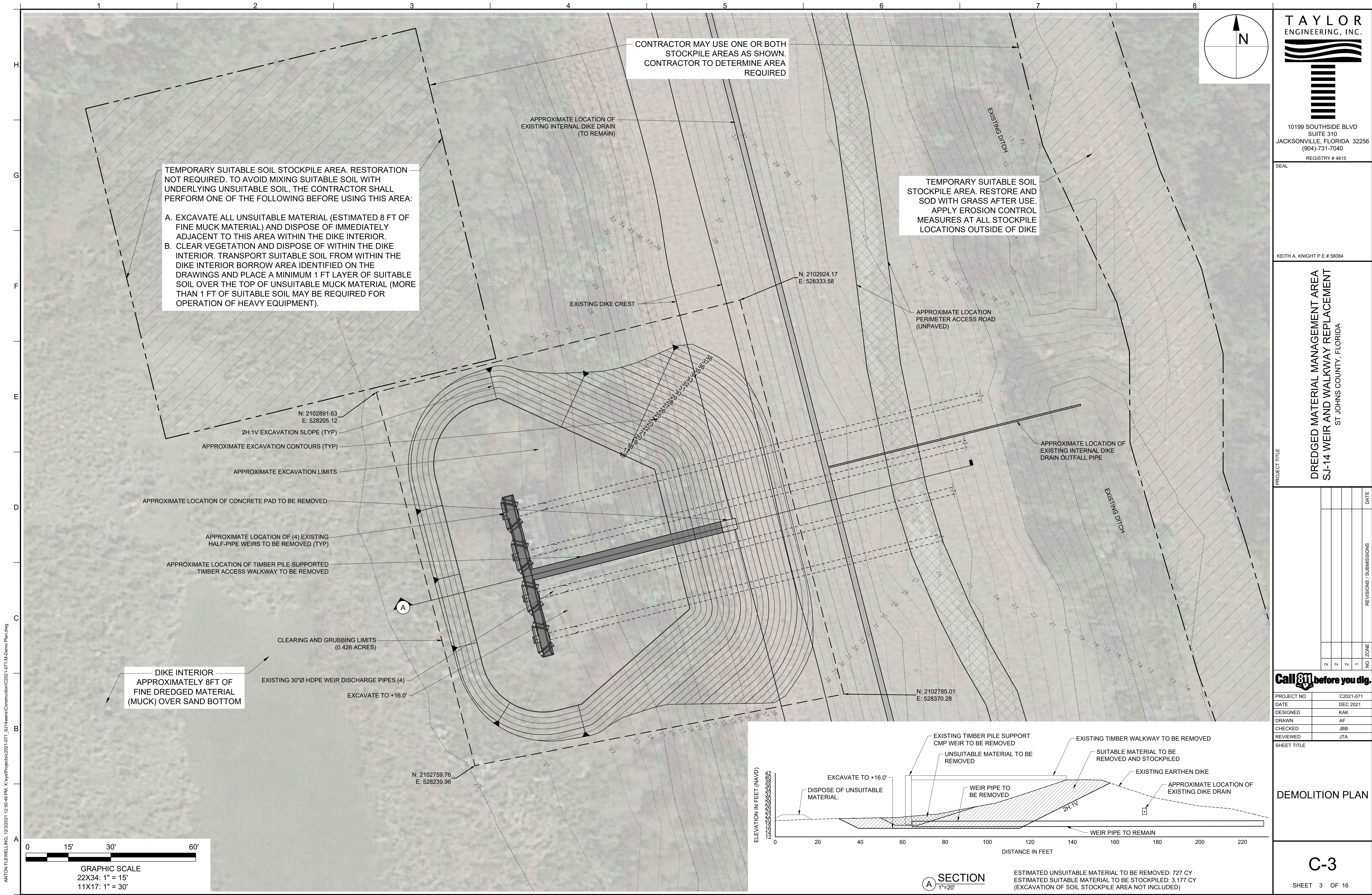
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| PROJECT NO | C2021-071 |
| DATE       | DEC 2021  |
| SIGNED     | KAK       |
| AWN        | AF        |
| CHECKED    | JBB       |
| VIEWED     | JTA       |

EET TITLE

## PROJECT OVERVIEW

C-2

SHEET 2 OF 16



TAYLOR  
ENGINEERING, INC.

10199 SOUTHSIDE BLVD  
SUITE 310  
JACKSONVILLE, FLORIDA 32256  
(904)-731-7040  
REGISTRY # 4815

SEAL

KEITH A. KNIGHT P.E.# 58084

PROJECT TITLE

DREDGED MATERIAL MANAGEMENT AREA  
SJ-14 WEIR AND WALKWAY REPLACEMENT  
ST. JOHNS COUNTY, FLORIDA

|    |      | REVISIONS / SUBMISSIONS |  | DATE |
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Call 811 before you dig.

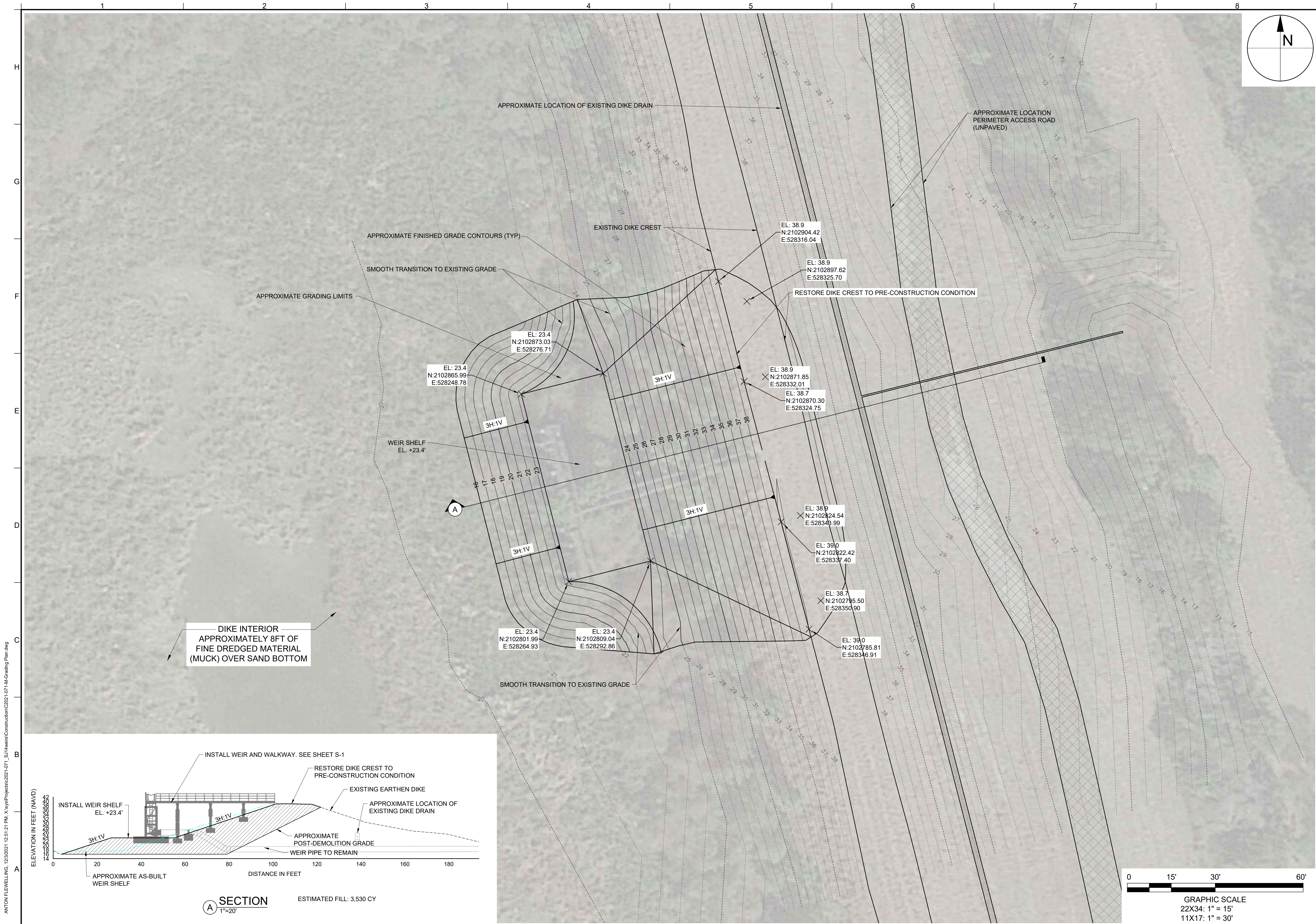
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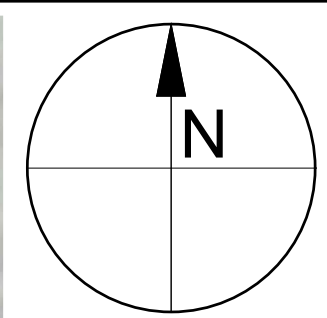
DEMOLITION PLAN

C-3

SHEET 3 OF 16



ANTON FLEVELLING, 12/22/2021 12:51:21 PM, X:\ywp\Projects\2021-071\_SJ4\weirs\Construction\2021-071-M-Grading Plan.dwg



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| REVISIONS / SUBMISSIONS |      | DATE |
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SHEET TITLE

**GRADING PLAN**

**C-4**

SHEET 4 OF 16





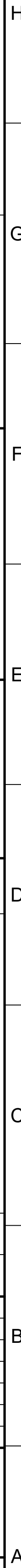
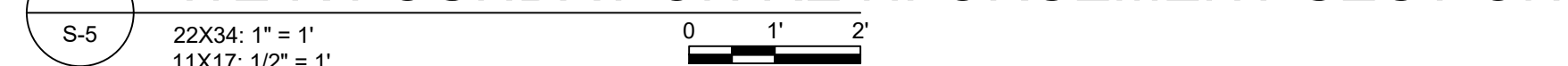
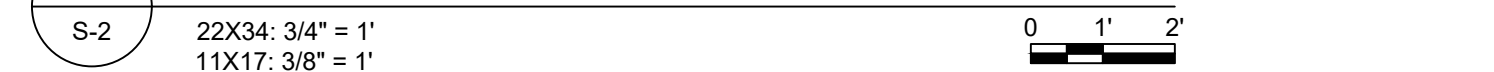
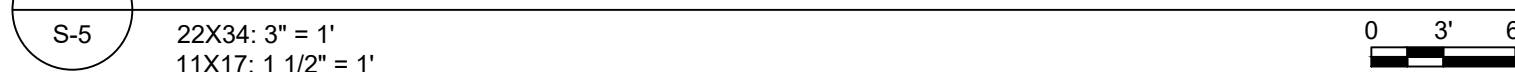
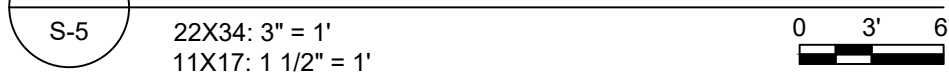




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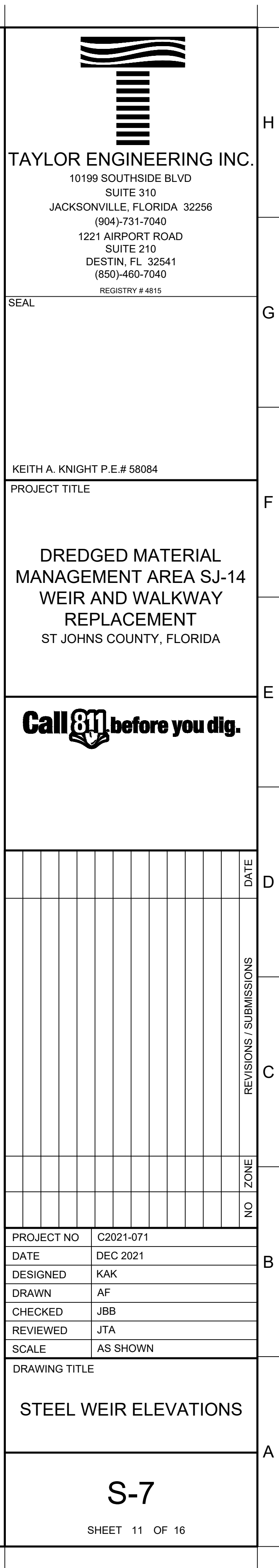
22x34: 1" = 3'  
11x17: 1" = 6'



SEAL

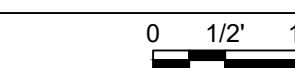
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SEAL

KEITH A. KNIGHT P.E.# 58084

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**DREDGED MATERIAL  
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| SCALE      | AS SHOWN  |

DRAWING TITLE

## STEEL WEIR AND ALUMINUM FLAP GATE DETAILS

S-10

SHEET 14 OF 16



### TYPE III SILT FENCE

### TYPE IV SILT FENCE

### TYPICAL STRAW BALE DETAIL

### FLOATING TURBIDITY BARRIER - TYPE 1

### CROSS SECTION OF A PROPERLY INSTALLED STRAW BALE

SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHART I, SHEET 1 OF 3, INDEX NO. 102 OF THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.

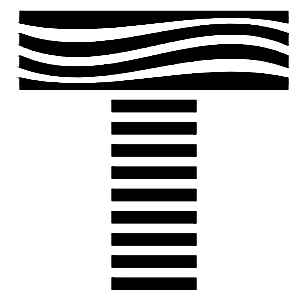
### STRAW BALE BARRIER FOR PAVED DITCH

TYPE III OR TYPE IV SILT FENCE PROTECTION  
AROUND DITCH BOTTOM INLETS.

DITCH INSTALLATION AND SPACING FOR TYPE III & TYPE IV  
FENCE TO BE IN ACCORDANCE WITH SHEET 1 OF 3, OF THE  
F.D.O.T. INDEX NO. 102

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

### SILT FENCE INSTALLATION DETAILS



TAYLOR ENGINEERING INC.

10199 SOUTHSIDE BLVD  
SUITE 310  
JACKSONVILLE, FLORIDA 32256  
(904)-731-7040

CERTIFICATE OF AUTHORIZATION # 4815

SEAL

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DRAWING TITLE

## TYPICAL EROSION CONTROL DETAILS

ER-1

SHEET 16 OF 16