

NOTES

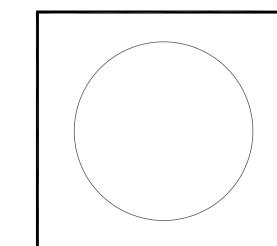
1. FOR GENERAL NOTES, DESIGN CRITERIA & DEIGN SPECIFICATIONS, SEE DRAWING CUUU-S5500.

2. FOR FUEL TANK FOUNDATIONS, SEE DRAWING CFOA—S5501.

3. FOR GRADING PLAN SEE CSTF—S3030 SERIES DRAWINGS.

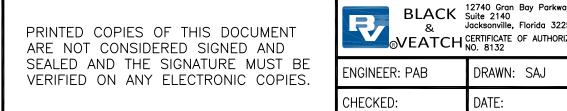
4. EMBED HDPE PPOLYLOCK INTO EACH FACE OF FOUNDATIONS INSIDE CONTAINMENT AREA AND EXTRUSION HDPE GEOMEMBRANE LINER TO POLYLOCK, SEE DRAWING CFOA—3720 FOR DETAILS.

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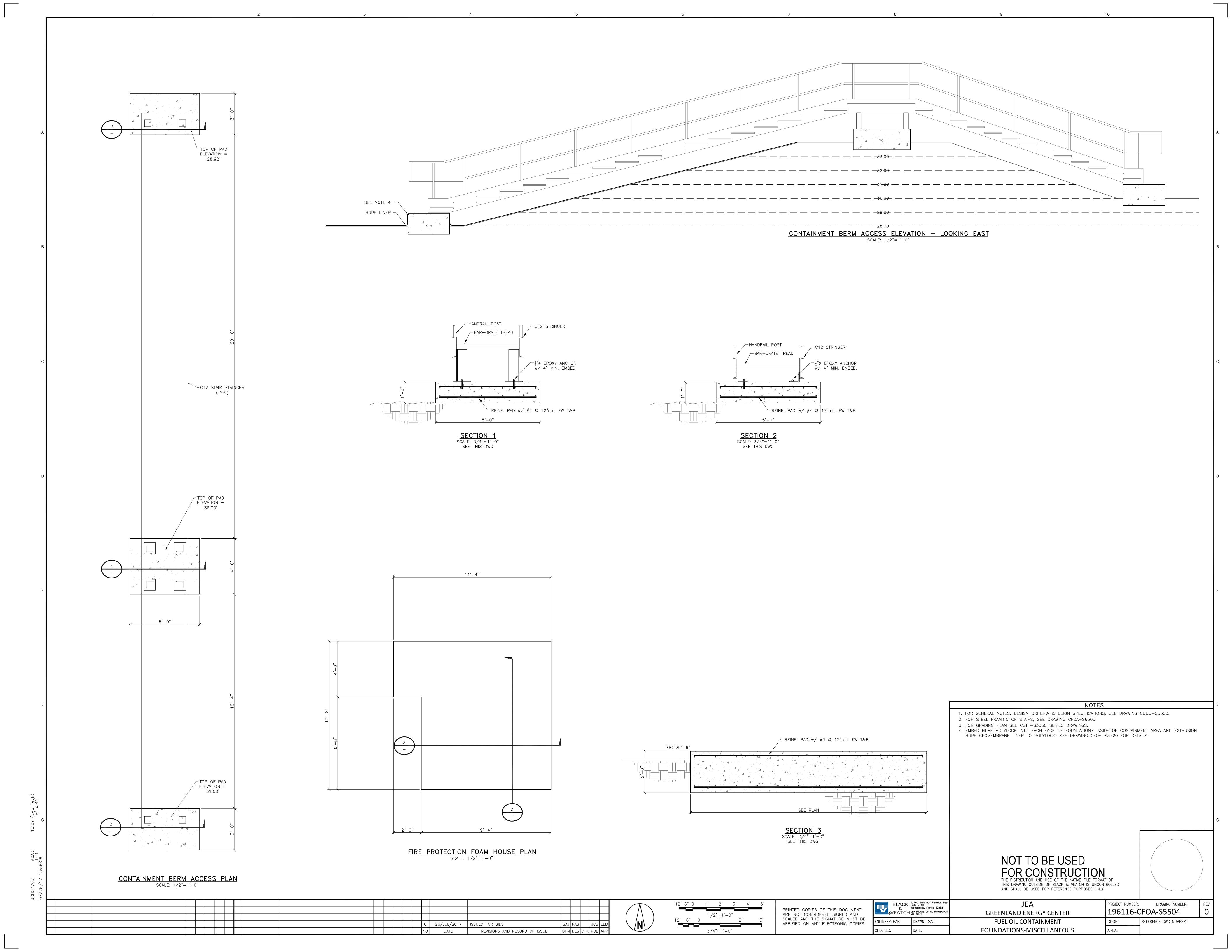


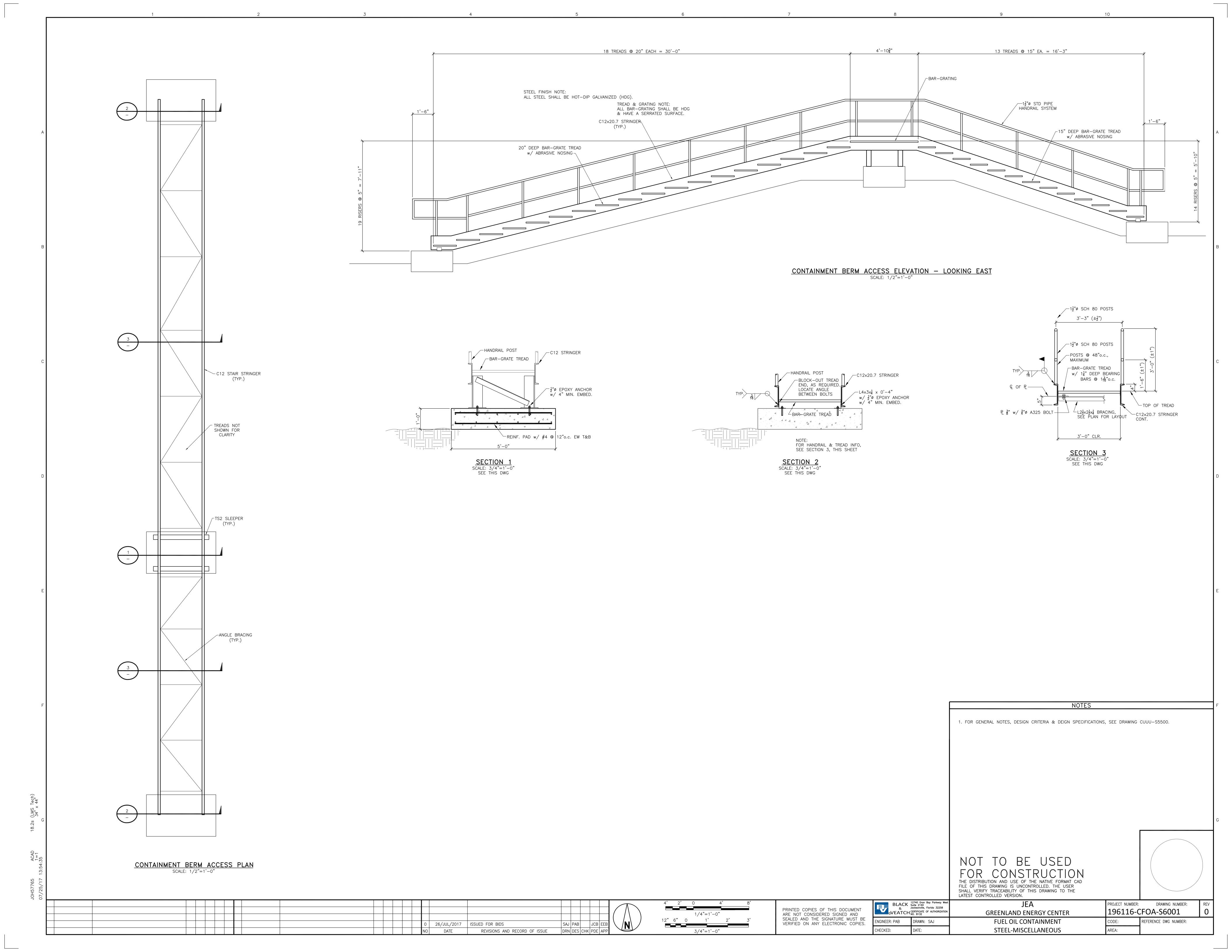
	LATEST CONTROLLED VERSION.
740 Gran Bay Parkway West ite 2140 cksonville, Florida 32258	JEA
RTIFICATE OF AUTHORIZATION 0. 8132	GREENLAND ENERGY CENTER
DRAWN: SAJ	FUEL OIL STORAGE CONTAINMENT
DATE:	FOUNDATIONS-PIPING SLEEPERS

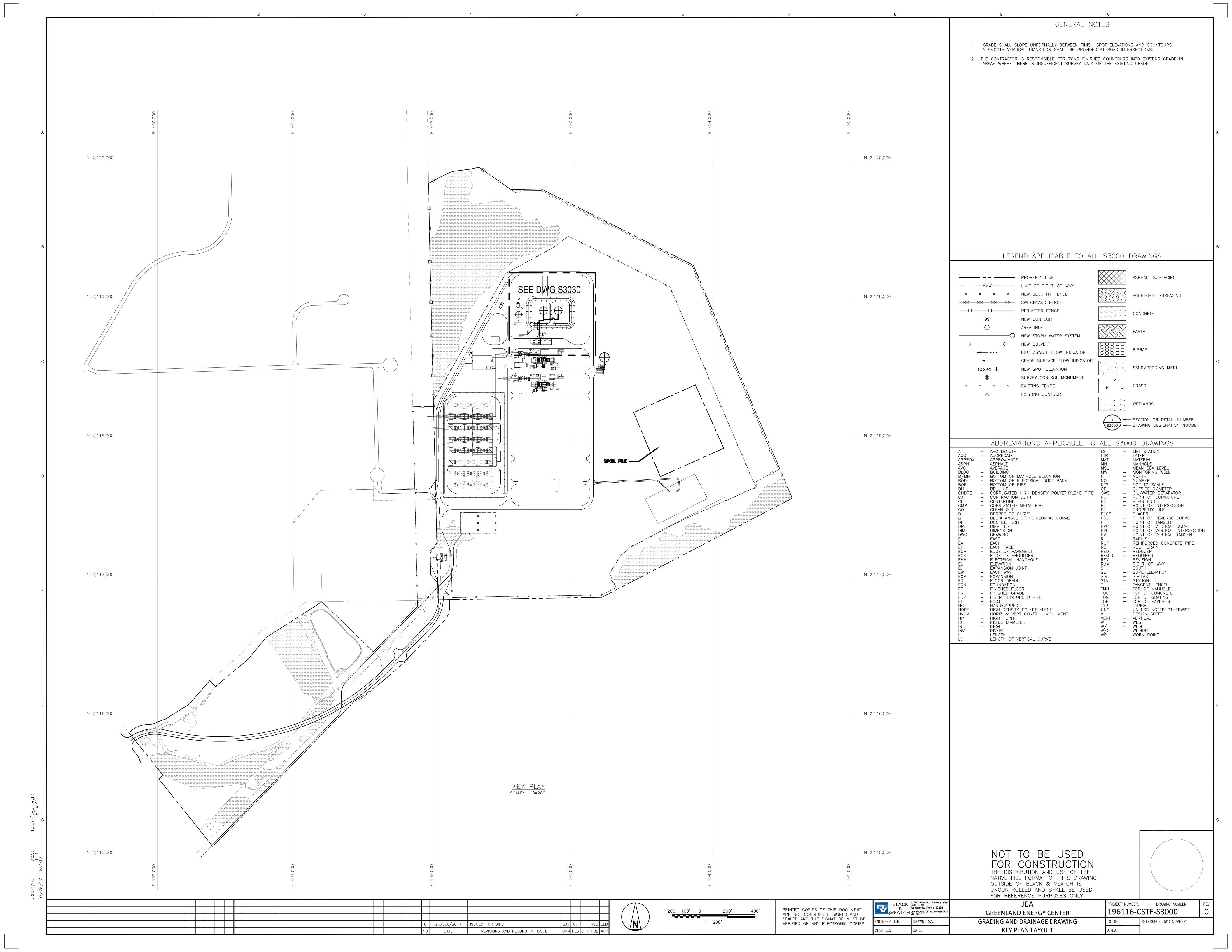
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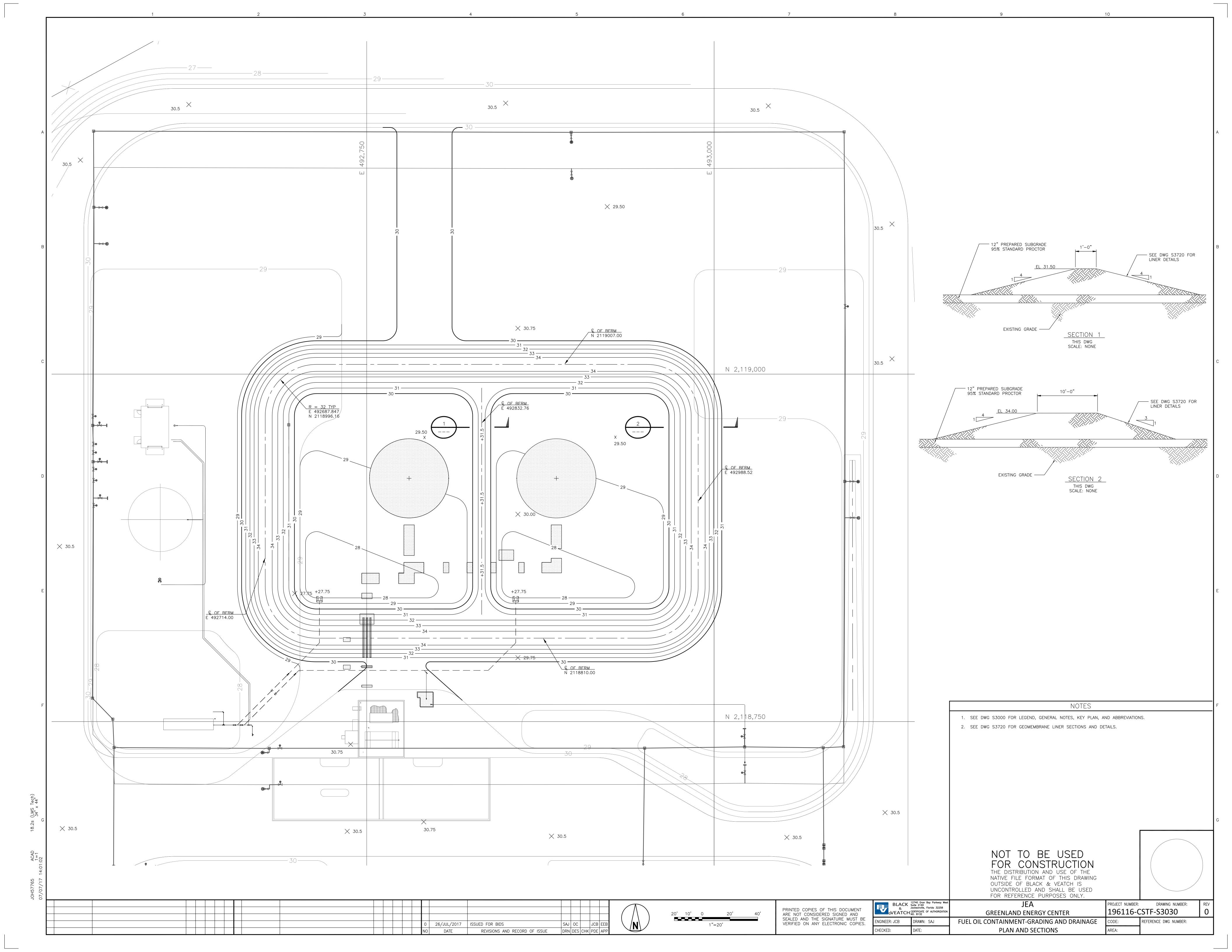
196116-CFOA-S5503

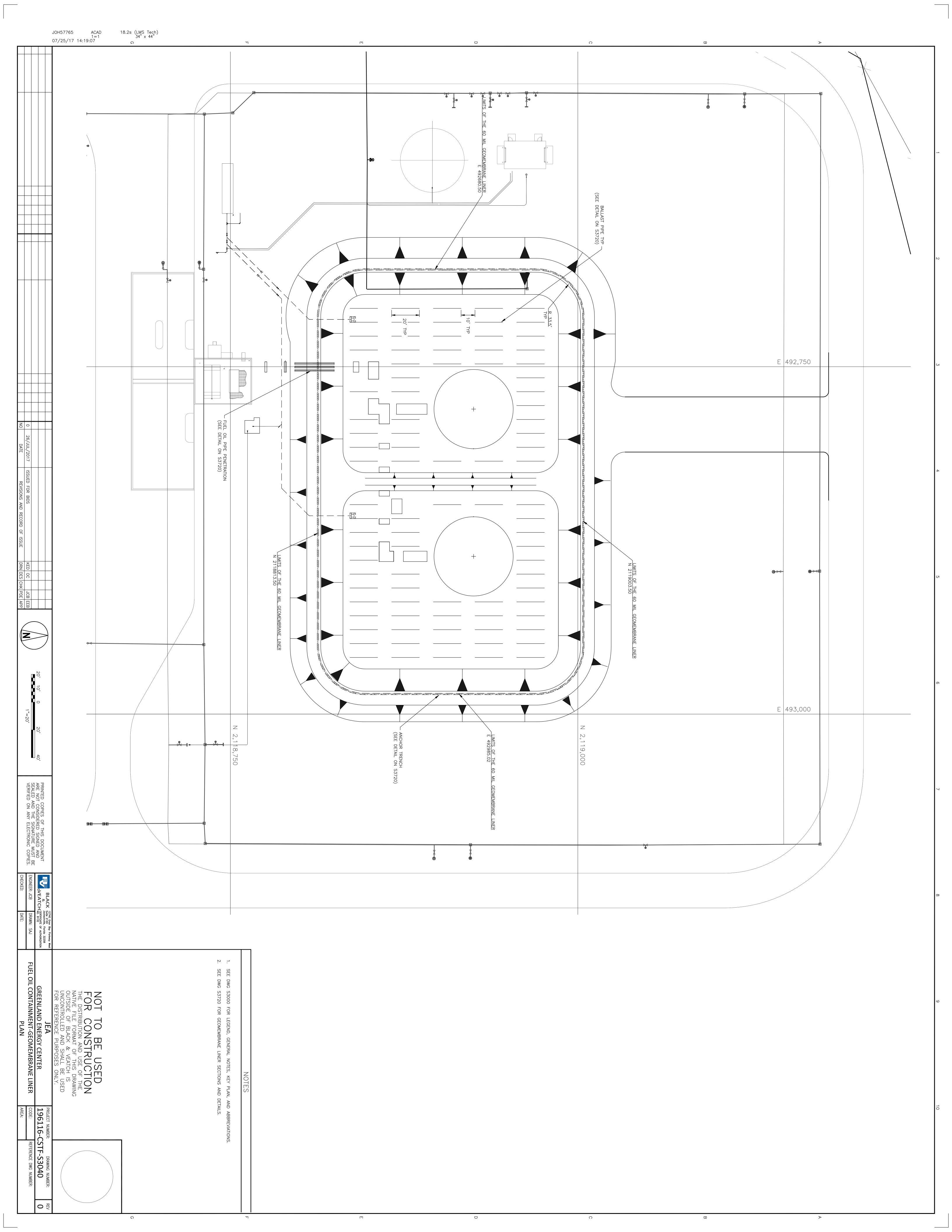
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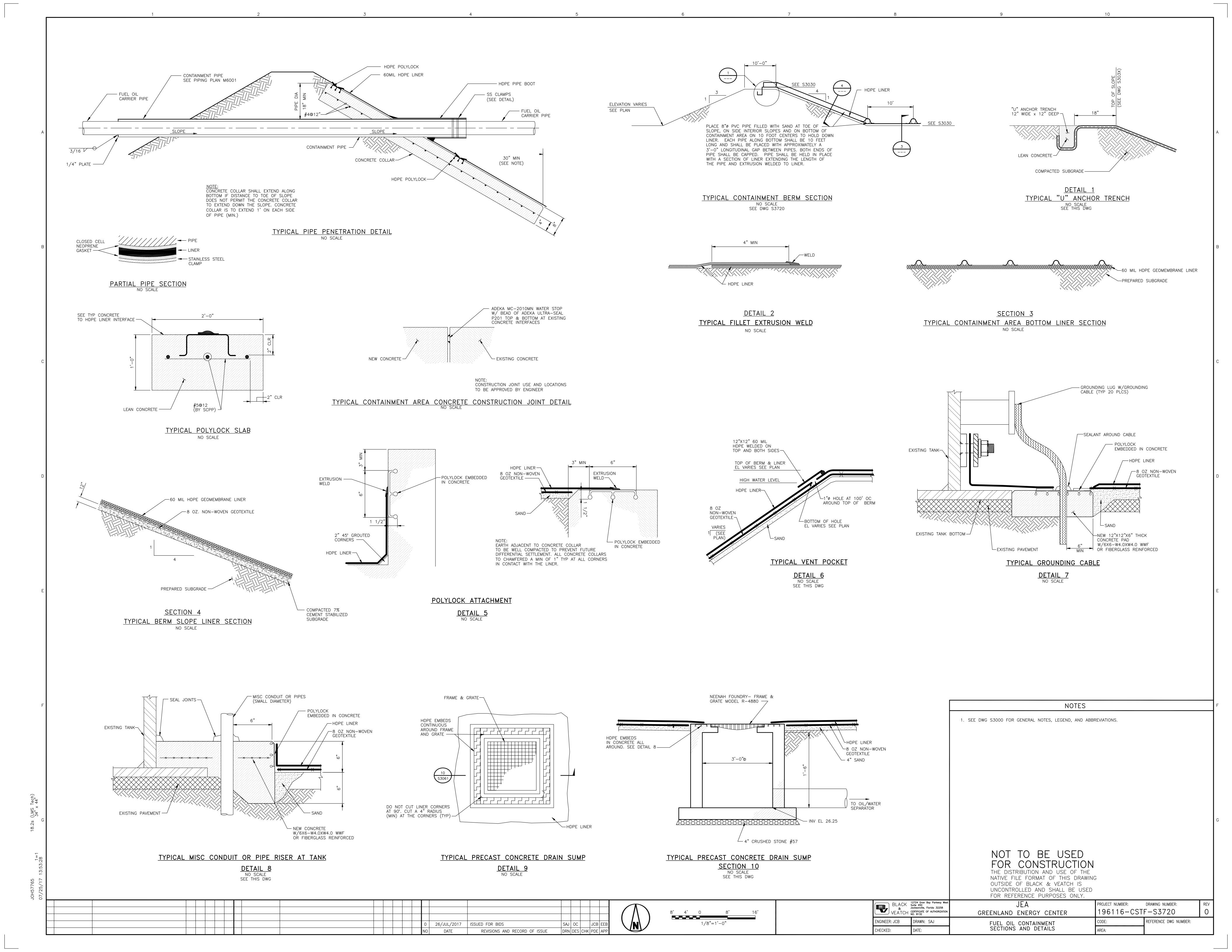












MINIMUM ALLOWABLE SOIL BEARING CAPACITY = 2,000 PSF FOR SOILS BORINGS AND SPECIFIC FILL RECOMMENDATIONS REFER TO: "GEOTECHNICAL REPORT, JEA GREENLAND ENERGY CENTER, JACKSONVILLE, FLORIDA"

PROJECT No. 160167, DATED MAY 2008 BY BLACK & VEATCH, JACKSONVILLE, FLORIDA. THE FILL BELOW THE FOUNDATION SHOULD BE FREE OF DEBIRS, ORGANIC MATERIAL, COHESIVE SOILS OR ANY OTHER DELETERIOUS MATERIAL. SOIL MUST BE COMPACTED TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR A MINIMUM DEPTH OF 1'-0" BELOW THE BOTTOM OF THE FOOTING.

FOOTINGS AND FOUNDATIONS: FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH FBC AND AS NOTED IN THESE PLANS. TANKS FOUNDATION TOLERANCES SHALL BE IN ACCORDANCE WITH API 650.

CAST-IN-PLACE CONCRETE: SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. CONCRETE AND STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH FBC. NO WATER SHALL BE ADDED TO THE CONCRETE, AFTER THE TRUCK HAS LEFT THE BATCH PLANT WITHOUT AUTHORIZATION FROM THE ENGINEER-OF-RECORD (EOR), UNLESS THE DELIVERY TICKET INDICATES AN AMOUNT OF WATER THAT IS ALLOWED TO BE ADDED AT THE JOB SITE, AFTER AUTHORIZATION BY THE TESTING LAB REPRESENTATIVE.

STEEL REINFORCEMENT:

REINFORCING STEEL: SHALL BE ASTM A615, GRADE 60. STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH FBC, ACI 318 AND AS NOTED IN THESE PLANS. CONCRETE COVER SHALL BE IN ACCORDANCE WITH FBC AND AS FOLLOWS: 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 2" FOR CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 1½" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND VERTICAL AND HORIZONTAL REINFORCEMENT WILL BE LAPPED FOR 36 BAR DIAMETERS OR 24",

WHICHEVER IS GREATER. CORNER REINFORCEMENT SHALL BE LAPPED 30". ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS. ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.

EPOXY ADHESIVE:

ANCHORING ADHESIVE: SHALL BE ONE OF THE FOLLOWING PRODUCTS (DUAL CARTRIDGE INSTALLATION ONLY): * HILTI CORPORATION, PRODUCT: HIT-RE 500

<u>ANCHOR BOLTS:</u> ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A36 OR ASTM F 1554 GRADE 36. WASHERS: SHALL BE IN ACCORDANCE WITH ASTM F 436 GRADE 36.

ALL ANGLES, PLATES, CHANNELS AND MISC. STEEL SHOWN ON THESE DRAWINGS SHALL BE ASTM A36 MATERIAL.

ALL STEEL PIPE SHALL BE ASTM A53-B ALL STEEL STRUCTURAL TUBING SHALL BE ASTM A500 (GRADE B)

ALL FILLET WELDS SHALL CONFORM TO SECTION J2.2B OF AISC SPECIFICATIONS, EVEN WHEN SHOWN OTHERWISE ON MECHANICAL OR STRUCTURAL DRAWINGS.

NUTS: SHALL BE IN ACCORDANCE WITH ASTM A 563 GRADE A HEX.

ALL STEEL SHALL BE HOT DIP GALVANIZED (HDG). ALL WELDS MADE TO PRIMARY MEMBERS SHALL BE MADE WITH E70XX ELECTRODES.

DESIGN CRITERIA: DESIGN CODE: 2014 FLORIDA BUILDING CODE BASIC WIND SPEED: 140 MPH WIND IMPORTANCE FACTOR: 1.0 (CATEGORY III BUILDING) WIND EXPOSURE: C (NO BUILDINGS 30 FEET OR HIGHER WITHIN 600 FEET IN ONE DIRECTION) INTERNAL PRESSURE COEFFICIENT: NOT APPLICABLE (NA) MAXIMUM DESIGN WIND PRESSURES (PSF): NA

SHOP DRAWING SUMBMITTALS:

THE GENERAL CONTRACTOR SHALL SUBMIT, FOR APPROVAL, THE FOLLOWING ITEMS: CONCRETE MIX DESIGNS, REBAR LAYOUT DRAWINGS & STEEL FABRICATION DRAWINGS. SEE SPECIFICATIONS FOR FURTHER SUBMITTAL REQUIREMENTS.

> PLAN DIM PLAN DIM ZURN SERIES Z-415-N-NH SLOPE FLOOR 1" TO DRAIN UNO —— TOC EL SEE PLAN TO PIPE RISER WITH FERNCO COUPLING OR EQUAL SLOPE ---PIPING MATERIAL & SIZE SEE PLAN

> > TYPICAL FLOOR DRAIN

TOP OF BOLT EL -HEAVY HEX NUT STD WASHER OR PLATE WASHER AS NOTED ON ANCHOR BOLT LIST THREADED ROD CLEAN AND OIL FREE → DRILL & EPOXY GROUT USING THE HILTI HIT RE 500-SD

EPOXY ANCHOR

SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION. PROJECT NUMBER: DRAWING NUMBER: 196116-CUUU-S5500 GREENLAND ENERGY CENTER FUEL OIL & DEMINERALIZED WATER STORAGE REFERENCE DWG NUMBER:

GENERAL NOTES

1. CODES USED: 2014 FLORIDA BUILDING CODE, ACI, AISC, AWS AND ASCE-7-10. ALL LATEST

4. SEE DRAWING CFOA-S5501 500,000 GALLON FUEL OIL TANK FOUNDATION AND SECTIONS.

7. SEE DRAWING CFOA-S5504 FOR CONTAINMENT AREA FOUNDATION PLANS AND SECTIONS

8. SEE DRAWING CFOA-S6505 FOR CONTAINMENT AREA FRAMING PLANS AND SECTIONS.

5. SEE DRAWING CWSH-S5502 DEMINERALIZED WATER TANK TANK FOUNDATION AND SECTIONS.

2. ALL DESIGN, CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND

6. SEE DRAWING CFOA-S5503 FOR FOAM BUILDING AND PIPE SUPPORT FOUNDATION PLAN AND SECTIONS

9. SEE THE CONTRACT SCOPE OF WORK AND TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO COMMENCING

EDITIONS USED.

CONSTRUCTION.

AUTHORITIES HAVING JURISDICTION OVER THE WORK.

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BLACK Suite 2140

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DRAWN: SAJ CHECKED:

GENERAL NOTES AND DESIGN CRITERIA

