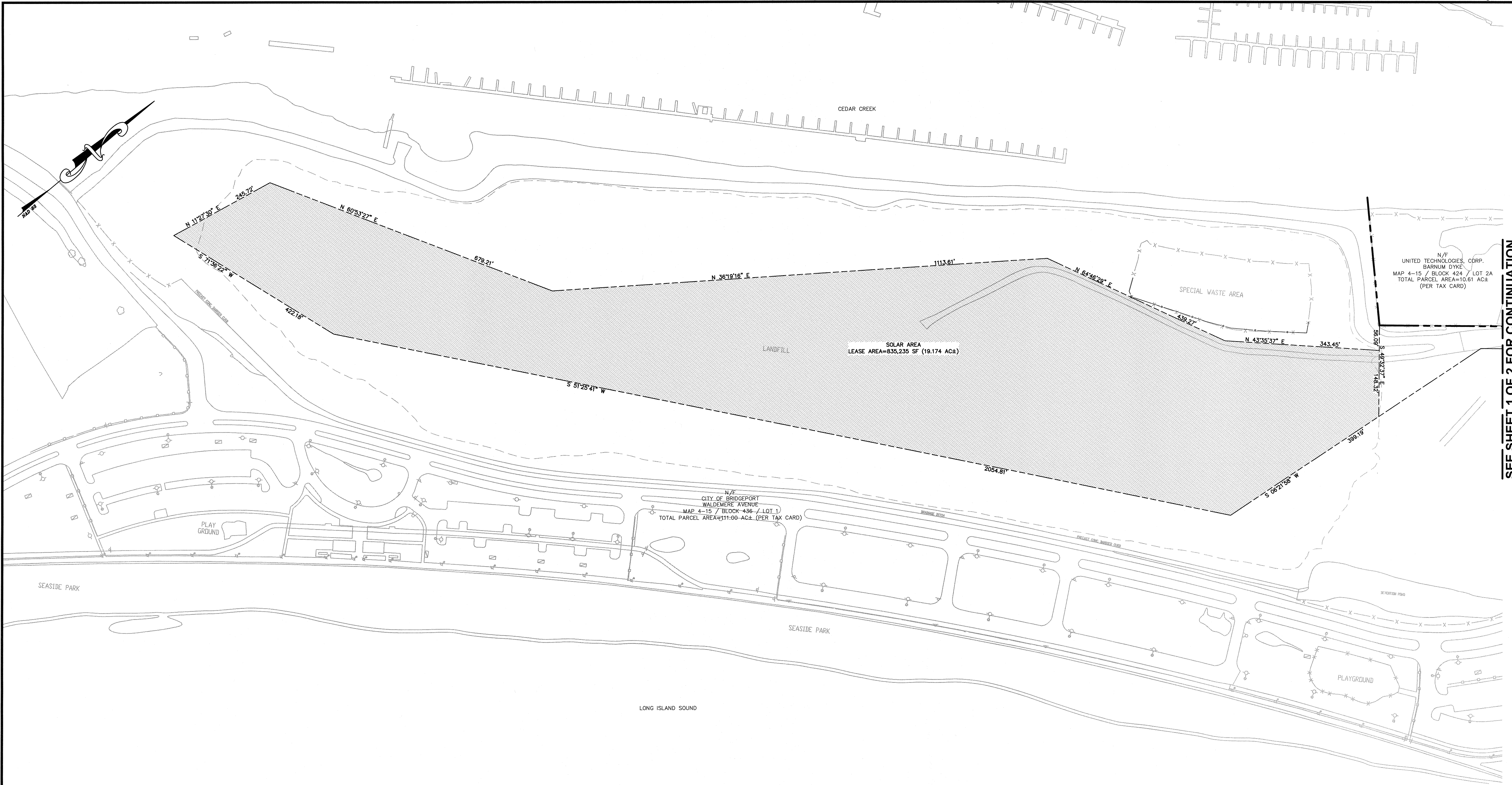
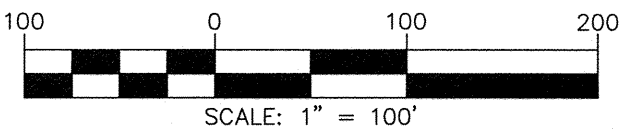
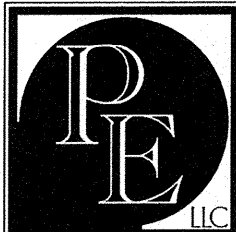




SEE SHEET 1 OF 2 FOR CONTINUATION





Pereira Engineering, LLC
CIVIL & ENVIRONMENTAL
 One Enterprise Drive, Suite 312 Phone: (203) 944-9944
 Shelton, CT 06484 Fax: (203) 944-9945
 homepage: www.pereiraeng.com
 email: mail@pereiraeng.com

REVISIONS		
NO.	DATE	REMARKS

DATA ACCUMULATION PLAN
 OF PROPERTY LOCATED AT
BARNUM DYKE
BRIDGEPORT, CONNECTICUT
 PREPARED FOR
THE UNITED ILLUMINATING COMPANY

COPYRIGHT © 2014
 DATE: **MAY 2, 2014**
 SCALE: 1"=100'
 DWG: TAA FLD: ESR
S SHEET **2** OF **2**
 CAD REF. NO. 1003SURV

SEE SHEET 2 OF 2 FOR CONTINUATION

N/F
UNITED TECHNOLOGIES, CORP.
BARNUM DYKE
MAP 4-15 / BLOCK 424 / LOT 2A
TOTAL PARCEL AREA=10.61 AC± (PER TAX CARD)

SHARED AREA
LEASE AREA=79,190 SF (1.818 AC±)

FUEL CELL/SERVICE AREA
LEASE AREA=16,879 SF (0.387 AC±)

N/F
CITY OF BRIDGEPORT
360 WALDEMERE AVENUE
MAP 4-15 / BLOCK 436 / LOT 1-001
TOTAL PARCEL AREA=92,879 SF (2.132 AC±)

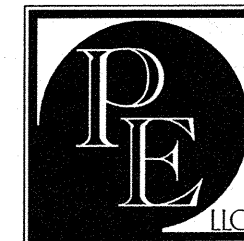
N/F
CITY OF BRIDGEPORT
WALDEMERE AVENUE
MAP 4-15 / BLOCK 436 / LOT 1
TOTAL PARCEL AREA=111.00 AC± (PER TAX CARD)

NOTES:

- THIS SURVEY AND MAP HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
- THE TYPE OF SURVEY PERFORMED IS A DATA ACCUMULATION PLAN AND IS INTENDED TO DEPICT OR NOTE THE LEASE AREAS IN FAVOR OF THE UNITED ILLUMINATING COMPANY.
- THE BOUNDARY DETERMINATION/OPINION IS BASED UPON FIRST SURVEY WITH RESPECT TO THE LEASE AREA BOUNDARIES.
- THIS SURVEY CONFORMS TO HORIZONTAL ACCURACY CLASS A-2 WITH RESPECT TO THE PROPERTY AND LEASE LINES.
- THE BEARINGS DEPICTED HEREON ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 PROJECTED ONTO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM.
- THE SUBJECT PARCEL APPEARS TO LIE WITHIN FLOOD ZONES AE AND X, AS DEPICTED ON FEMA'S FLOOD INSURANCE RATE MAPS (FIRM) ENTITLED FAIRFIELD COUNTY, CONNECTICUT (ALL JURISDICTIONS); PANEL 437 OF 626; MAP NUMBER 09001C0437G; MAP REVISED: JULY 8, 2013; APPROXIMATE SCALE: 1"=500'. ANY FEMA FLOODPLAIN AND/OR FLOODWAY INFORMATION DEPICTED HEREON IS APPROXIMATE ONLY AND DOES NOT IN ANY WAY CONSTITUTE AN OPINION OR REPRESENTATION OF ACTUAL FLOODPLAIN AND/OR FLOODWAY INFORMATION BY PEREIRA ENGINEERING, LLC (PE). PE DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION, AND MAKES NO REPRESENTATIONS UPON WHICH THE CLIENT SHOULD RELY IN CONNECTION WITH THE FLOOD ZONE OF THE SUBJECT PARCEL OR ANY FEMA FLOODPLAIN AND/OR FLOODWAY INFORMATION DEPICTED HEREON.
- THE SUBJECT PARCEL APPEARS TO LIE WITHIN THE COASTAL BOUNDARY AS DELINEATED ON THE COASTAL BOUNDARY MAP OF THE CITY OF BRIDGEPORT. PARCELS LOCATED WITHIN THE COASTAL BOUNDARY MAY REQUIRE A COASTAL SITE PLAN REVIEW (CAM) APPLICATION.
- UTILITY INFORMATION DEPICTED HEREON IS APPROXIMATE AND IS BASED ON VISIBLE EVIDENCE OF SURFACE AND OVERHEAD STRUCTURE LOCATIONS AND AS COMPILED FROM EXISTING RECORD MAPPING AVAILABLE DURING THE PREPARATION OF THE SURVEY. ALL CONTRACTORS SHOULD CONTACT "CALL BEFORE YOU DIG" AT 1(800) 922-4455 FOR VERIFICATION OF UTILITY INFORMATION PRIOR TO START OF ANY WORK.
- BACKGROUND FEATURES DEPICTED HEREON ARE BASED UPON THE CITY OF BRIDGEPORT GIS MAPPING.

MAP REFERENCES:

- "MAP B, SURVEY OF PROPERTY IN BRIDGEPORT, CONNECTICUT FOR: UNITED AIRCRAFT CORPORATION," SCALE: 1"=60'; DATED: JUNE 29, 1946; PREPARED BY FULLER & CO., INC.; FILED IN THE BRIDGEPORT LAND RECORDS IN MAP VOLUME 13 PAGE 93.
- "MAP A, SURVEY OF PROPERTY IN BRIDGEPORT, CONNECTICUT FOR UNITED AIRCRAFT CORPORATION," SCALE: 1"=60'; DATED: JUNE 29, 1946; PREPARED BY FULLER & CO., INC.; FILED IN THE BRIDGEPORT LAND RECORDS IN MAP VOLUME 13 PAGE 91.
- CITY OF BRIDGEPORT BLOCK MAP FOR BLOCKS 424 & 425, SCALE 1"=60', AVAILABLE FROM THE CITY OF BRIDGEPORT ENGINEERING DEPARTMENT.
- CITY OF BRIDGEPORT BLOCK MAP FOR BLOCKS 427 THROUGH 431, SCALE 1"=40', AVAILABLE FROM THE CITY OF BRIDGEPORT ENGINEERING DEPARTMENT.
- "SITE FOR NAVAL RESERVE ARMY (SEASIDE PARK)," AVAILABLE FROM THE CITY OF BRIDGEPORT ENGINEERING DEPARTMENT.
- "PROPERTY SURVEY OF PROPERTY LOCATED AT BARNUM DYKE & BARNUM DRIVE, BRIDGEPORT, CONNECTICUT, PREPARED FOR THE CITY OF BRIDGEPORT," SCALE: 1"=40'; DATED: SEPTEMBER 28, 2005; PREPARED BY PEREIRA ENGINEERING, LLC.

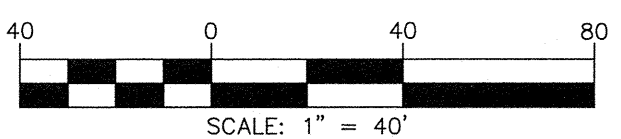


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CIVIL & ENVIRONMENTAL

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email: mail@pereiraeng.com

REVISIONS		
NO.	DATE	REMARKS

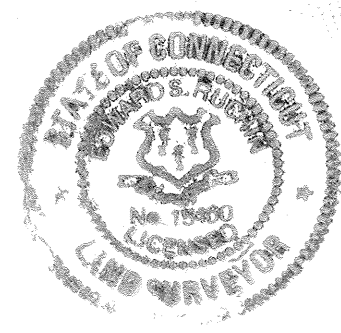
DATA ACCUMULATION PLAN
OF PROPERTY LOCATED AT
BARNUM DYKE
BRIDGEPORT, CONNECTICUT
PREPARED FOR
THE UNITED ILLUMINATING COMPANY

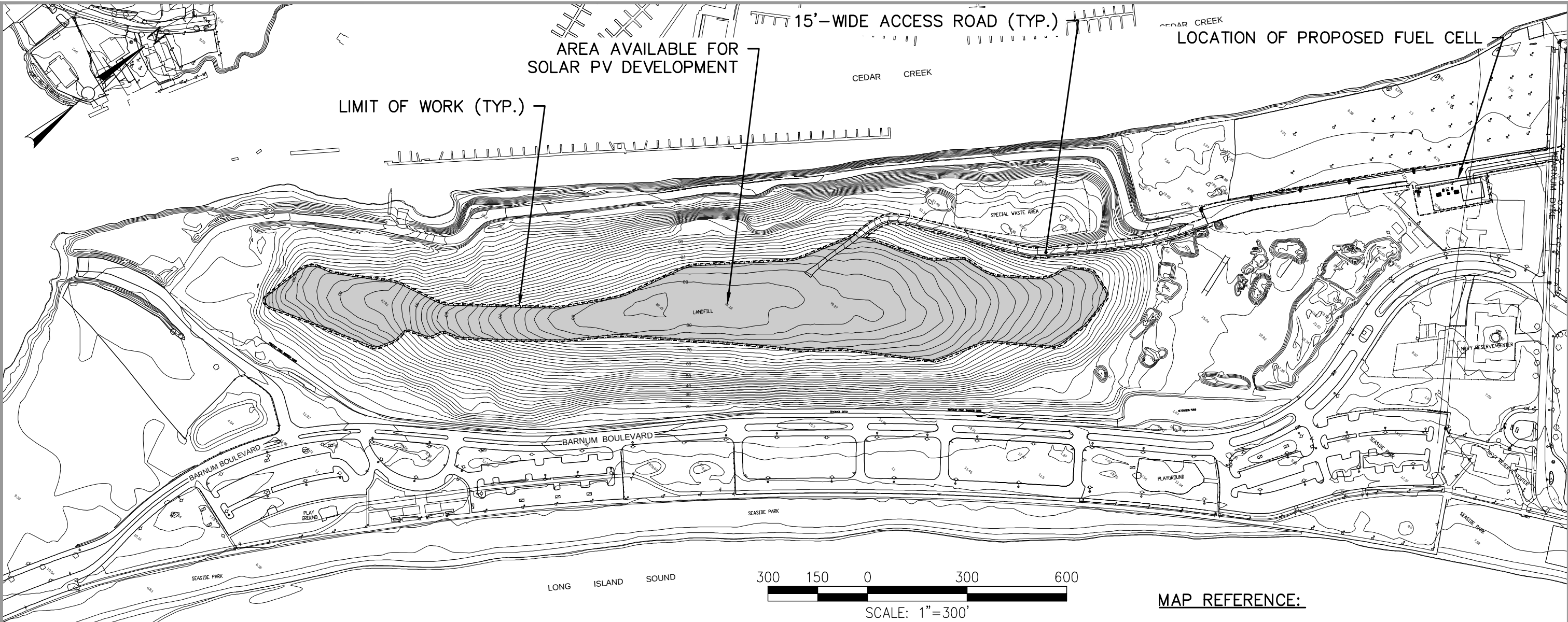


COPYRIGHT © 2014
DATE: MAY 2, 2014
SCALE: 1"=40'
DWG: TAA FLD: ESR
S SHEET 1 OF 2
CAD REF. NO. 1003SURV

To my knowledge and belief, this map is substantially correct as noted hereon.

Edward S. Ruchin
Edward S. Ruchin, P.L.S. Cohn. # 15460





ENVIRONMENTAL FEATURES:

TREES TO BE CLEARED

FIELDS TO BE UTILIZED

HABITAT FOR NOTABLE PLANT/ANIMAL SPECIES

EXISTING GRADES ALTERED

ALTERED:

ONLY TREES LOCATED WITHIN THE "LIMIT OF WORK" SHALL BE REMOVED. TYPICALLY, LANDFILL CAPS SHOULD NOT HAVE TREE GROWTH.

SOLAR PV ARRAYS TO BE PLACED WITHIN "AREA AVAILABLE FOR SOLAR PV DEVELOPMENT" OVER EXISTING FIELDS. EXISTING VEGETATION TO REMAIN UNDISTURBED TO MAINTAIN INERGRITY OF VEGETATED LANDFILL CAP.

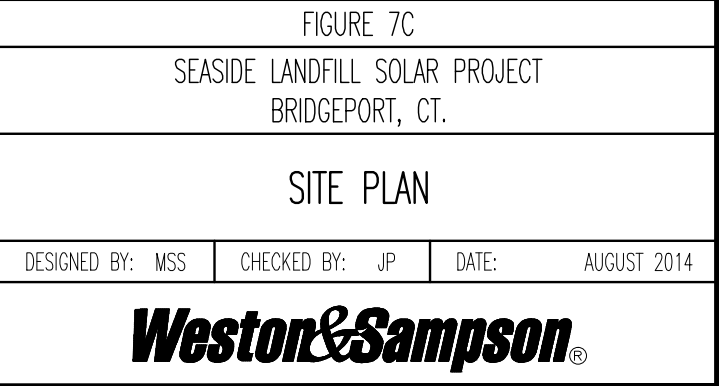
ACCORDING TO THE LATEST HABITAT ASSESSMENTS PERFORMED FOR THIS SITE, THE FOLLOWING PLANT/ANIMAL SPECIES HAVE NOT BEEN FOUND AND HABITATS FOUND TO BE NOT SUPPORTIVE: COMMON TERN (STERNA HIRUNDO), LEAST TERN (STERNULA ANTILLARUM), ROSEATE TERN (STERNA DOUGALLII), PIPING PLOVER (CHARADRIUS MELODUS), PEREGRINE FALCON (FALCO PEREGRINUS), AND EREMOPHILA ALPESTRIS (HORNED LARK). HABITAT ASSESSMENTS FOR THE FOLLOWING SPECIES IS CURRENTLY ONGOING: ARISTIDA TUBERCULOSA (BEACH NEEDLEGRASS), SPOROBOLUS CRYPTANDRUS (SAND DROPSEED), AND PITYOPSIS FALCATA (SICKLE LEAVED GOLDEN ASTER).

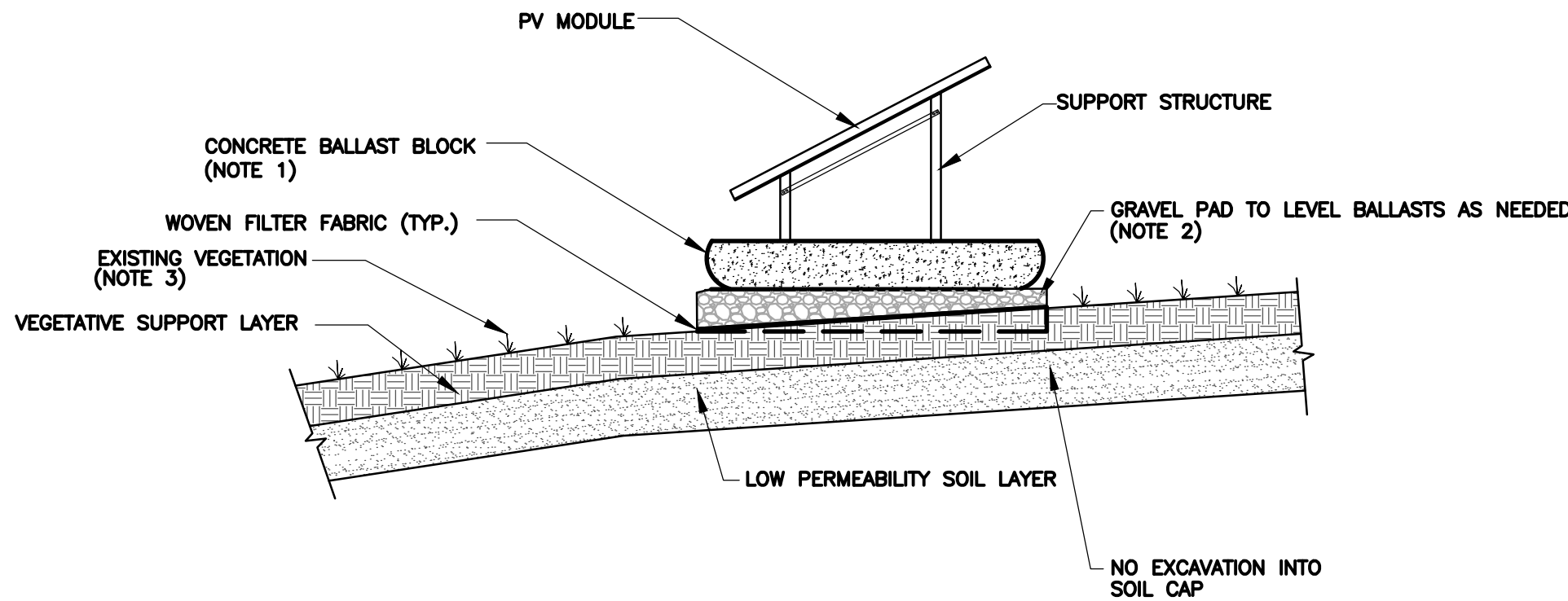
PROPOSED SHALL BE ALTERED ONLY IN THE AREA OF THE PROPOSED FUEL CELL SO THAT THE FACILITY IS CONSTRUCTED ABOVE THE FEMA FLOOD ELEVATION.

MAP REFERENCE:

BASE MAPPING IS DEVELOPED FROM GEOGRAPHIC INFORMATION SYSTEM (GIS) INFORMATION PROVIDED BY THE CITY OF BRIDGEPORT, GIS DEPARTMENT. THE FLIGHT DATE IS APRIL 2005. THE HORIZONTAL DATUM IS NAD83 AND THE VERTICAL DATUM IS NAVD88. EXISTING SURFACE AND SUBSURFACE FEATURES ARE APPROXIMATE AND USED ONLY FOR REPRESENTATIVE PURPOSES

FIGURE 7b		
UNITED ILLUMINATING RENEWABLE PROJECT		
SEASIDE LANDFILL – BRIDGEPORT, CT ENVIRONMENTAL FEATURES IMPACT PLAN		
DESIGNED BY: JSP	CHECKED BY: JAF	DATE: 08/2014
Weston&Sampson®		

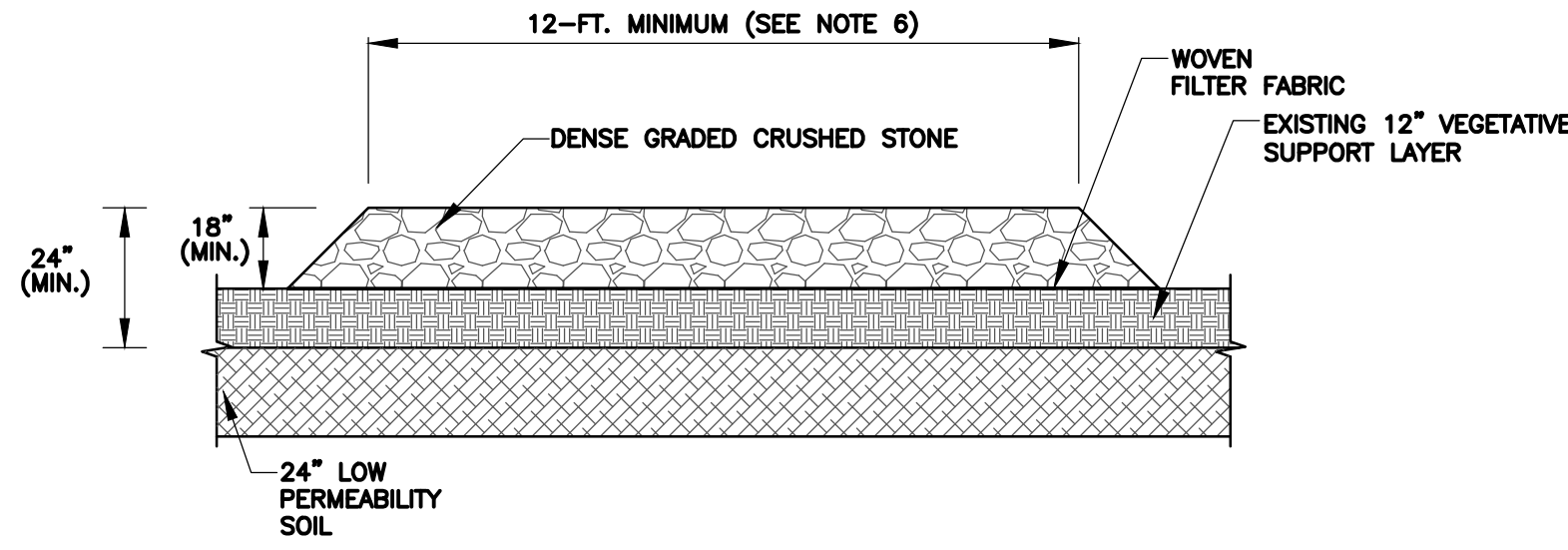




TYPICAL LANDFILL FINAL COVER SYSTEM WITH PV STRUCTURE
NOT TO SCALE

NOTES:

1. BALLASTS DIMENSIONS ARE CONTINGENT ON SELECTION OF PANEL AND RACKING MANUFACTURERS AND SUBJECT TO CHANGE IF PANELS AND RACKING CHANGE.
2. EXCAVATION INTO VEGETATIVE SUPPORT LAYER AT CONTRACTORS DISCRETION TO A MAXIMUM DEPTH OF 6" BUT IN NO CASE SHALL EXCAVATION EXTEND INTO LOW PERMEABILITY SOIL LAYER
3. DISTURBED AREAS WILL BE RE-SEEDED WITH A SHADE TOLERANT SEED MIXTURE

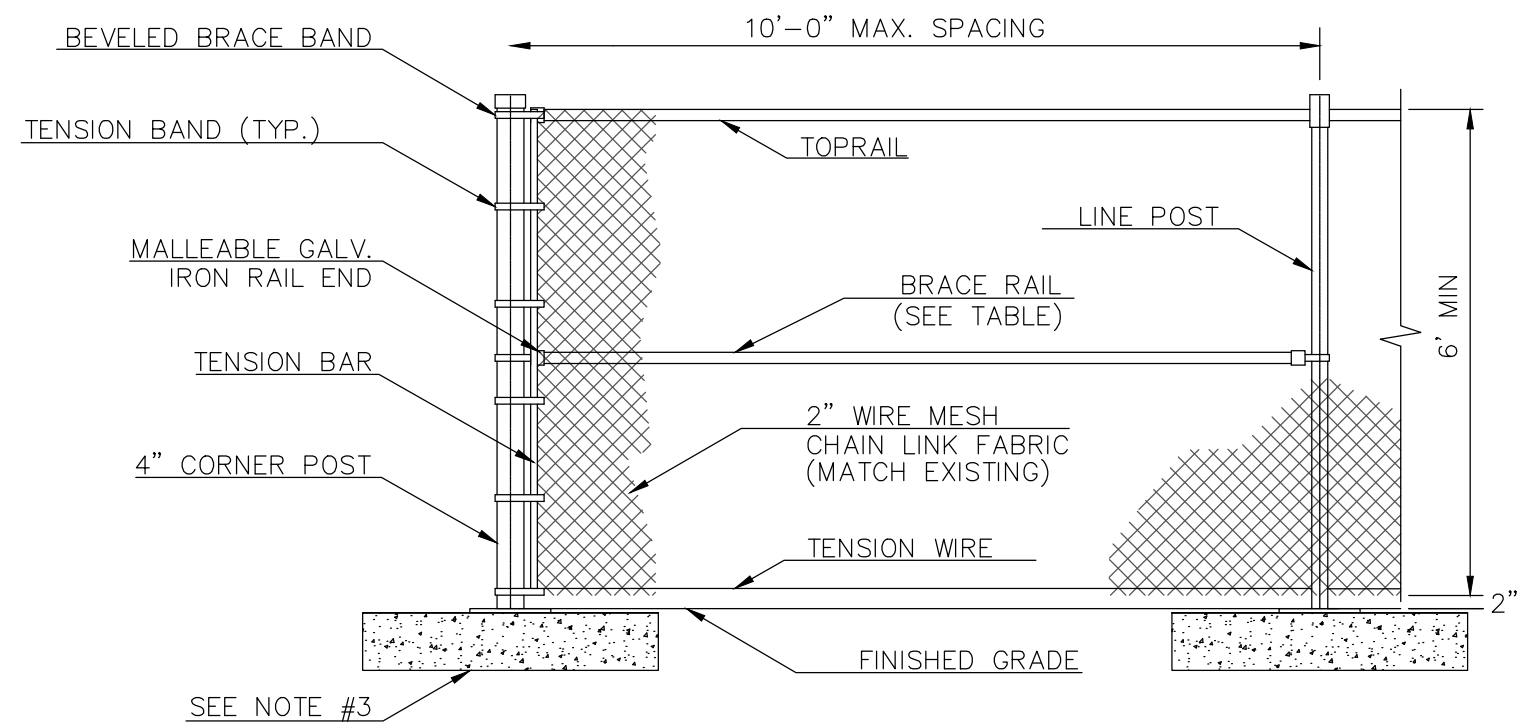


NOTES:

1. IF EXISTING PERMANENT ACCESS ROAD IS TO BE USED FOR HEAVY EQUIPMENT TRAFFIC, ADDITIONAL MATERIAL MUST BE ADDED TO PROVIDE A 24" SEPARATION BETWEEN THE INTERMEDIATE COVER SOIL AND THE ROAD SURFACE.
2. EXISTING ACCESS ROAD MAY NEED TO BE EXCAVATED TO VERIFY ACTUAL THICKNESS.
3. FOR TEMPORARY ACCESS ROADS, DENSE GRADED CRUSHED STONE (ABOVE GRADE) AND WOVEN FILTER FABRIC SHALL BE REMOVED UPON PROJECT COMPLETION.
4. TEMPORARY ACCESS ROADS WILL BE USED IF NEEDED DURING CONSTRUCTION.
5. LOCATION OF TEMPORARY ACCESS ROADS REQUIRES APPROVAL BY ENGINEER.
6. MINIMUM ROAD WIDTH SHALL BE 12-FT. CONTRACTOR SHALL WIDEN ROAD AS NECESSARY TO ACHIEVE MINIMUM WIDTH. IF EXISTING ROAD IS GREATER THAN 12-FT, CONTRACTOR SHALL MATCH EXISTING WIDTH.

PERMANENT & TEMPORARY ACCESS ROAD DETAIL
(OVER LANDFILL CAP)

NOT TO SCALE

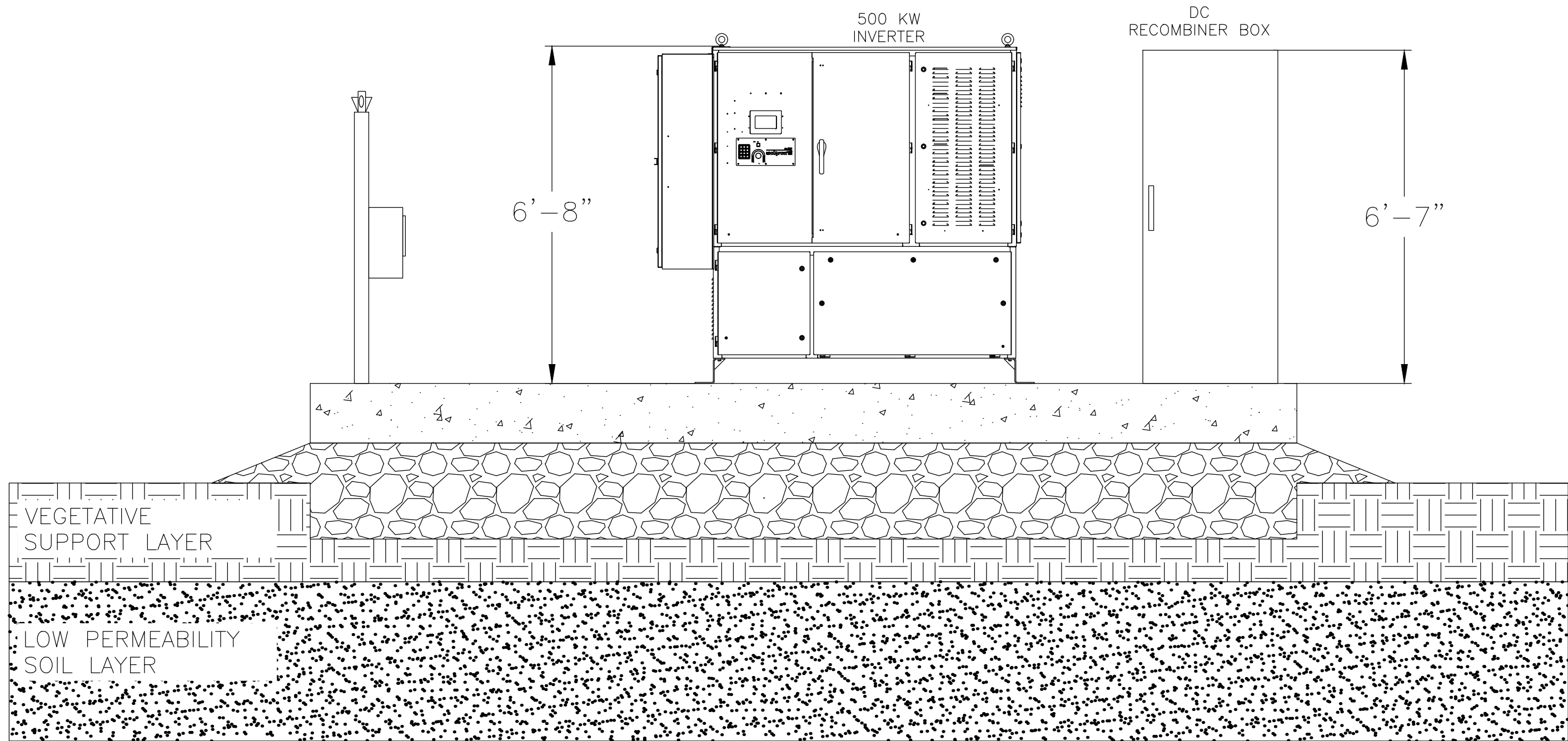


NOTES:

1. FURNISH AND INSTALL A CORNER POST AND BRACE RAIL WHERE THE CHANGE IN FENCE ALIGNMENT IS GREATER THAN 15'.
2. INSTALL BRACE RAILS AT ALL CORNER, END AND GATE POSTS.
3. FOR FENCING LOCATED OVER LANDFILL CAP, SEE "FENCE FOUNDATION ABOVE LANDFILL CAP" DETAIL, THIS SHEET.

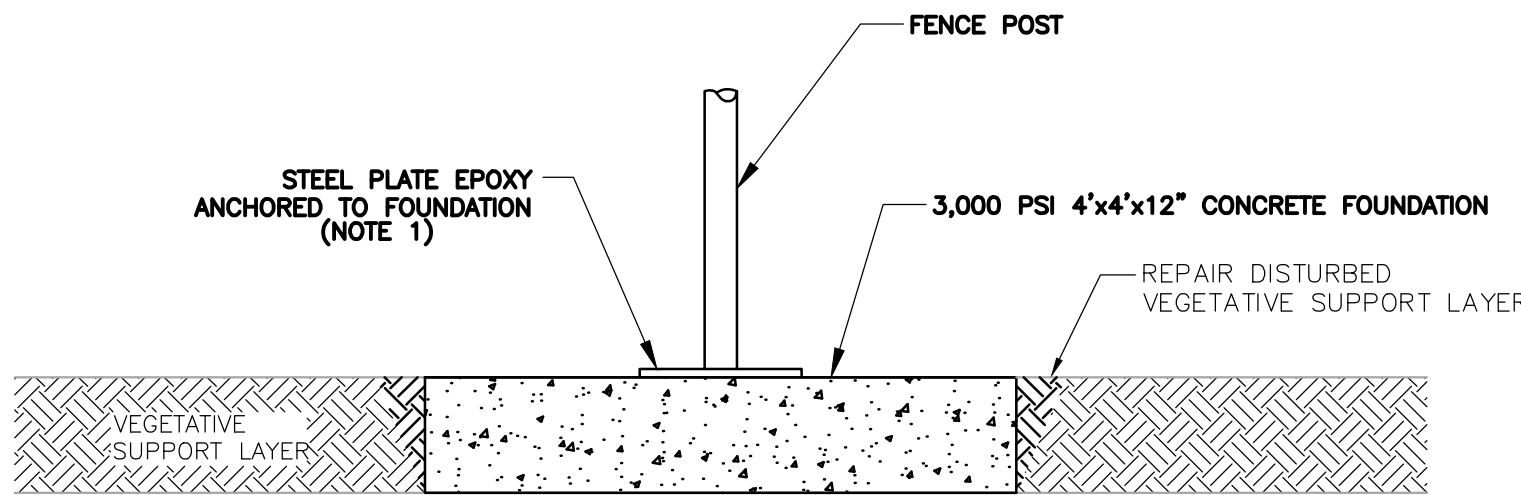
BALLASTED CHAIN LINK FENCE DETAIL

NOT TO SCALE



INVERTER PAD ELEVATION DETAIL

(NOT TO SCALE)

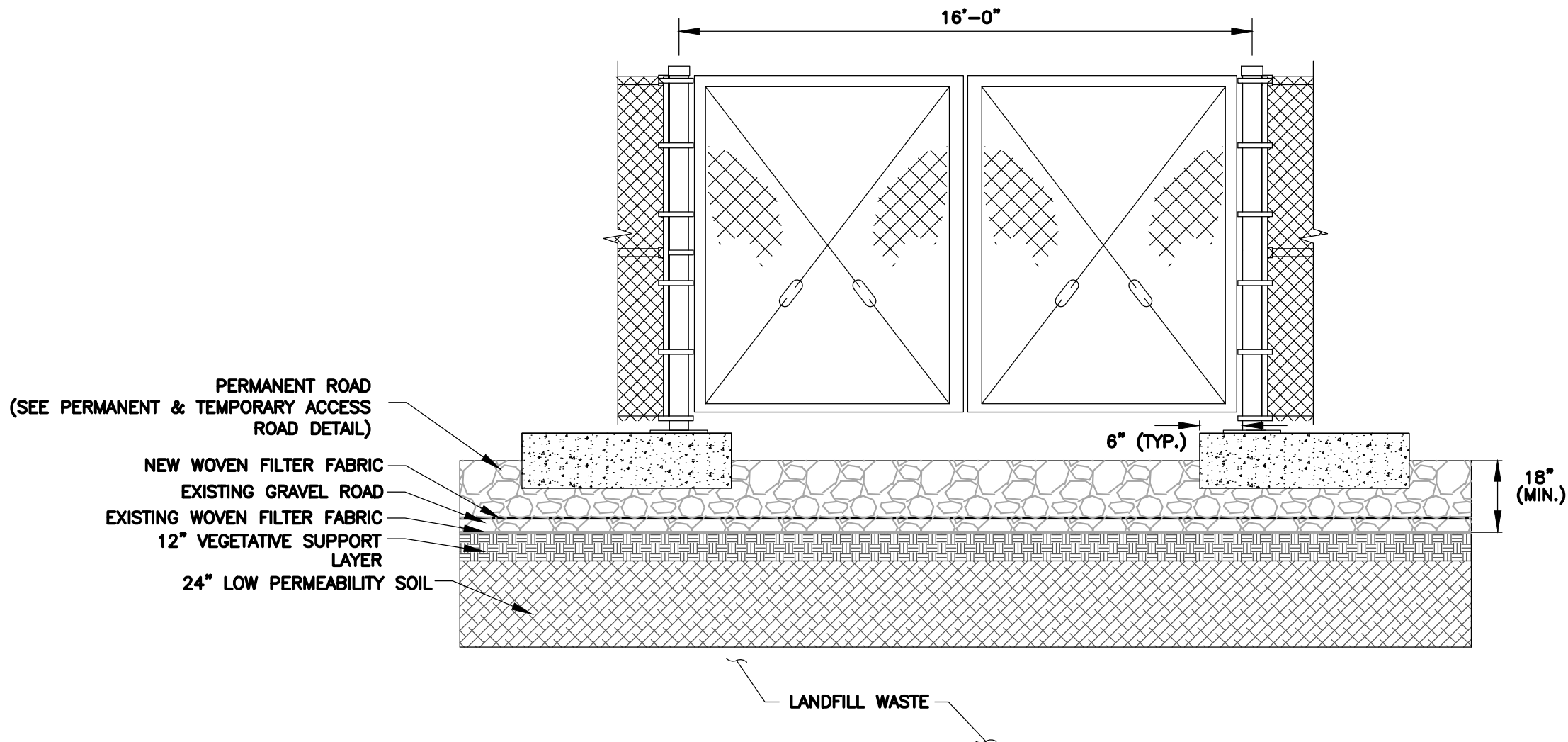


FENCE FOUNDATION ABOVE LANDFILL CAP DETAIL

NOT TO SCALE

NOTES:

1. FENCE POST TO BE EITHER EMBEDDED DIRECTLY INTO CONCRETE OR ATTACHED TO STEEL PLATE AND ANCHORED INTO FOUNDATION. FINAL DESIGN TO BE DETERMINED UPON ENGINEERING REVIEW OF SITE CONDITIONS.



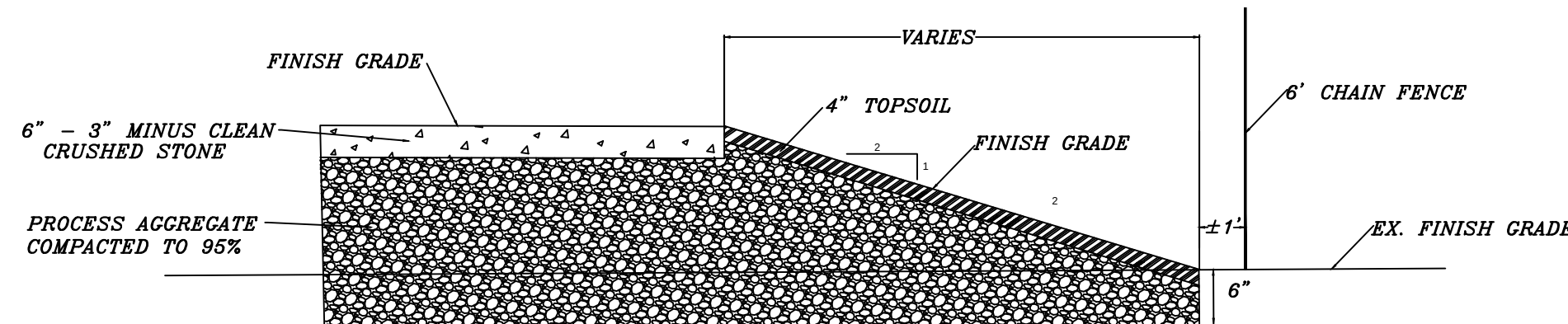
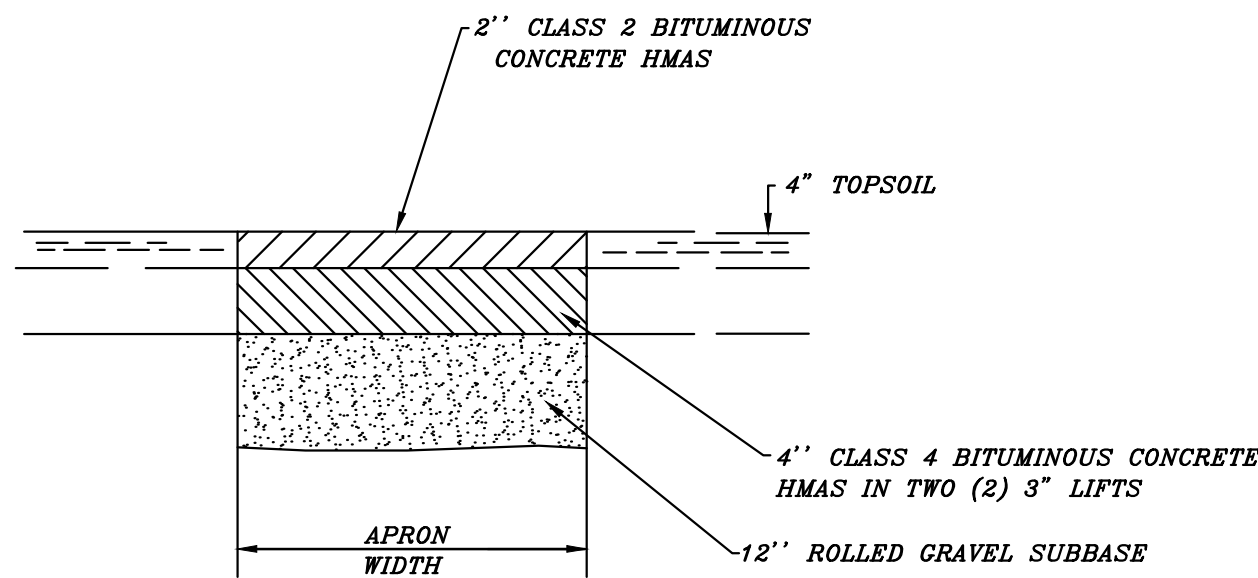
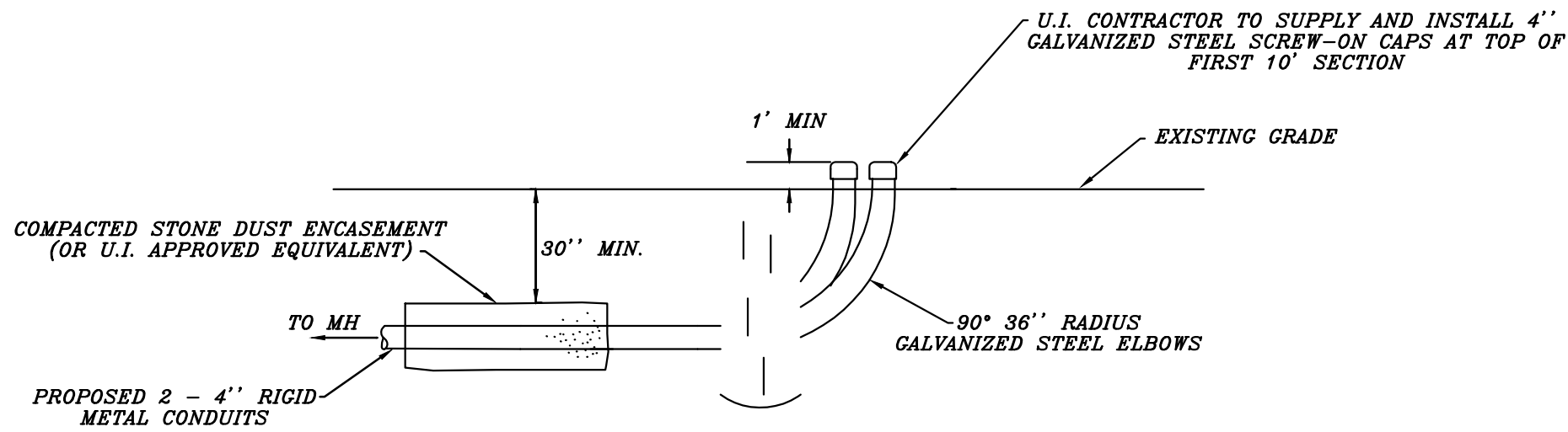
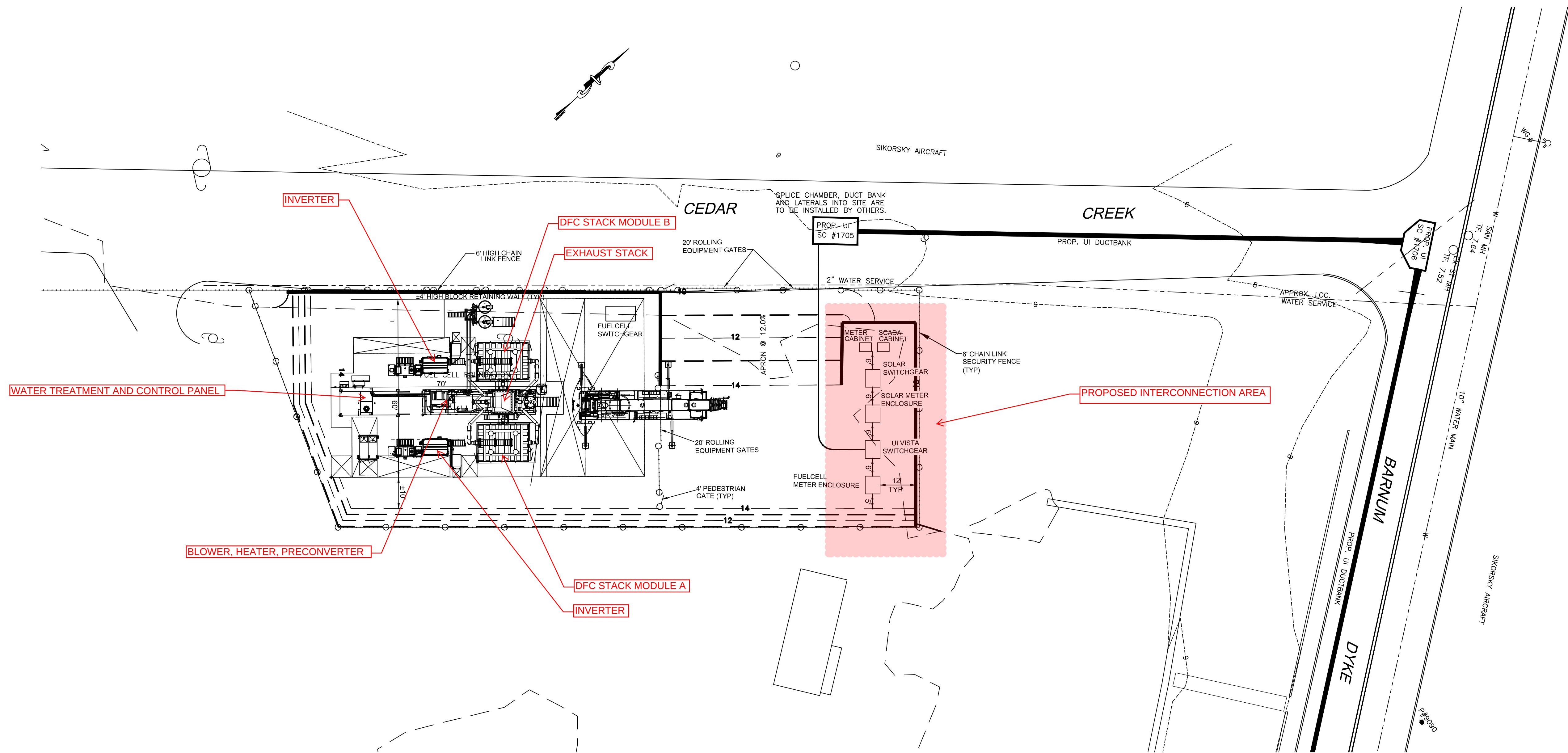
NOTES:

1. FURNISH AND INSTALL A CORNER POST AND BRACE RAIL WHERE THE CHANGE IN FENCE ALIGNMENT IS GREATER THAN 15'.
2. INSTALL BRACE RAILS AT ALL CORNER, END AND GATE POSTS.
3. ALL FENCING AND HARDWARE SHALL BE GALVANIZED.

TYPICAL BALLASTED CHAIN LINK GATE DETAIL

NOT TO SCALE

PRELIMINARY



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