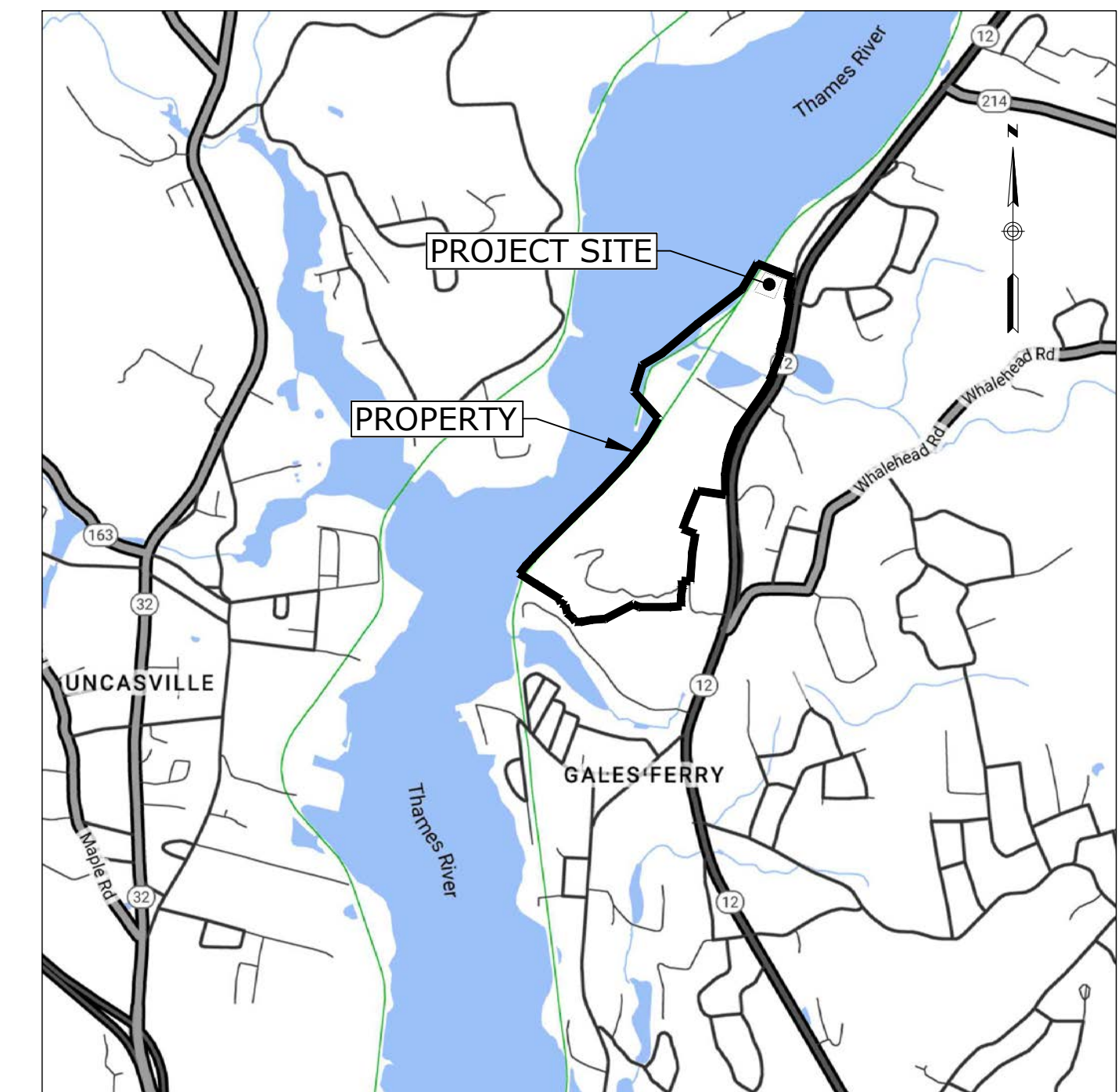


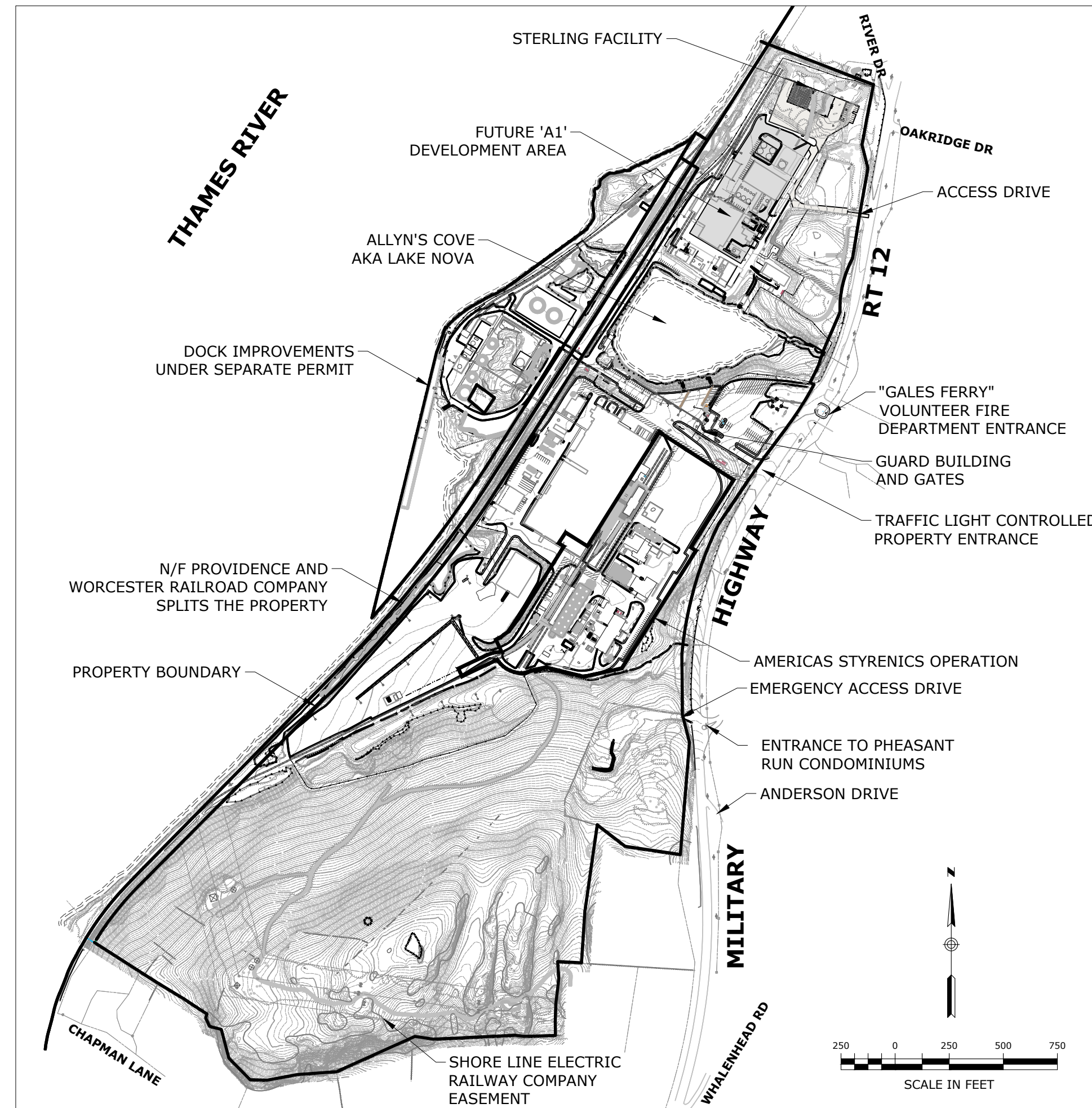
GALES FERRY INTERMODAL STERLING FACILITY

1761 ROUTE 12
GALES FERRY, CONNECTICUT 06335

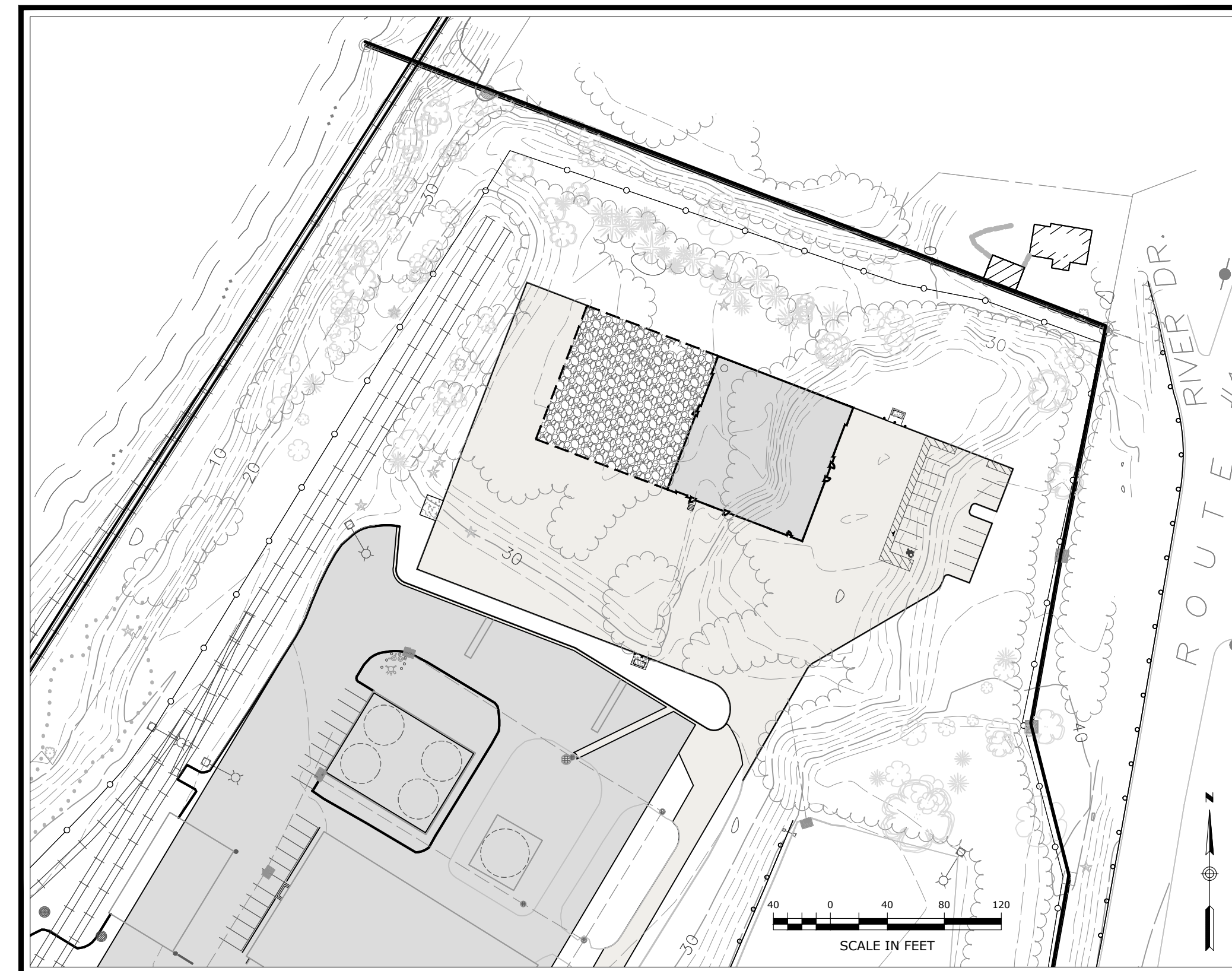
MARCH 07, 2023
REVISED: APRIL 6, 2023
REVISED: MAY 1, 2023



LOCATION MAP
SCALE: 1"=±2,000'



PROPERTY MAP AND ADJACENT FEATURES



DRAWING INDEX		
SHEET NO.	DRAWING	TITLE
1	-	COVER SHEET
2	C-1	NOTES, LEGEND, AND ABBREVIATIONS
3	#2010063	PROPERTY SURVEY
4	C-2	OVERALL SITE PLAN
5	C-3	SITE PREPARATION AND DEMOLITION PLAN
6	C-4	SITE PLAN LAYOUT
7	C-5	GRADING AND DRAINAGE PLAN
8	C-6	UTILITY PLAN
9	C-7	SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN
10	C-8	SUBSURFACE SEWAGE DISPOSAL SECTIONS, DETAILS & NOTES
11	C-9	SOIL EROSION AND SEDIMENT CONTROL PLAN
12	L-1	LANDSCAPING PLAN
13	C-10	PHOTOMETRIC AND LIGHTING PLAN
14	C-11	COASTAL AREA MANAGEMENT PLAN
15	C-12	SITE DETAILS 1
16	C-13	SITE DETAILS 2
17	C-14	SITE DETAILS 3
18	C-15	STORMWATER DETAILS
19	C-16	SOIL EROSION AND SEDIMENT CONTROL DETAILS
20	C-17	SIGHTLINE DEMONSTRATION PLAN

Property Owner / Applicant:

GALES FERRY INTERMODAL LLC
549 SOUTH STREET
QUINCY, MA 02169



Prepared By:

Engineer:
Loureiro Engineering Associates, Inc.
100 Northwest Drive · Plainville, Connecticut 06062
Phone: 860-747-6181 · Fax: 860-747-8822
An Employee Owned Company · www.Loureiro.com
Engineering · Construction · EH&S · Energy
Waste · Facility Services · Laboratory



PZC PERMIT # _____	DATE OF APPROVAL _____	EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____	DATE _____	

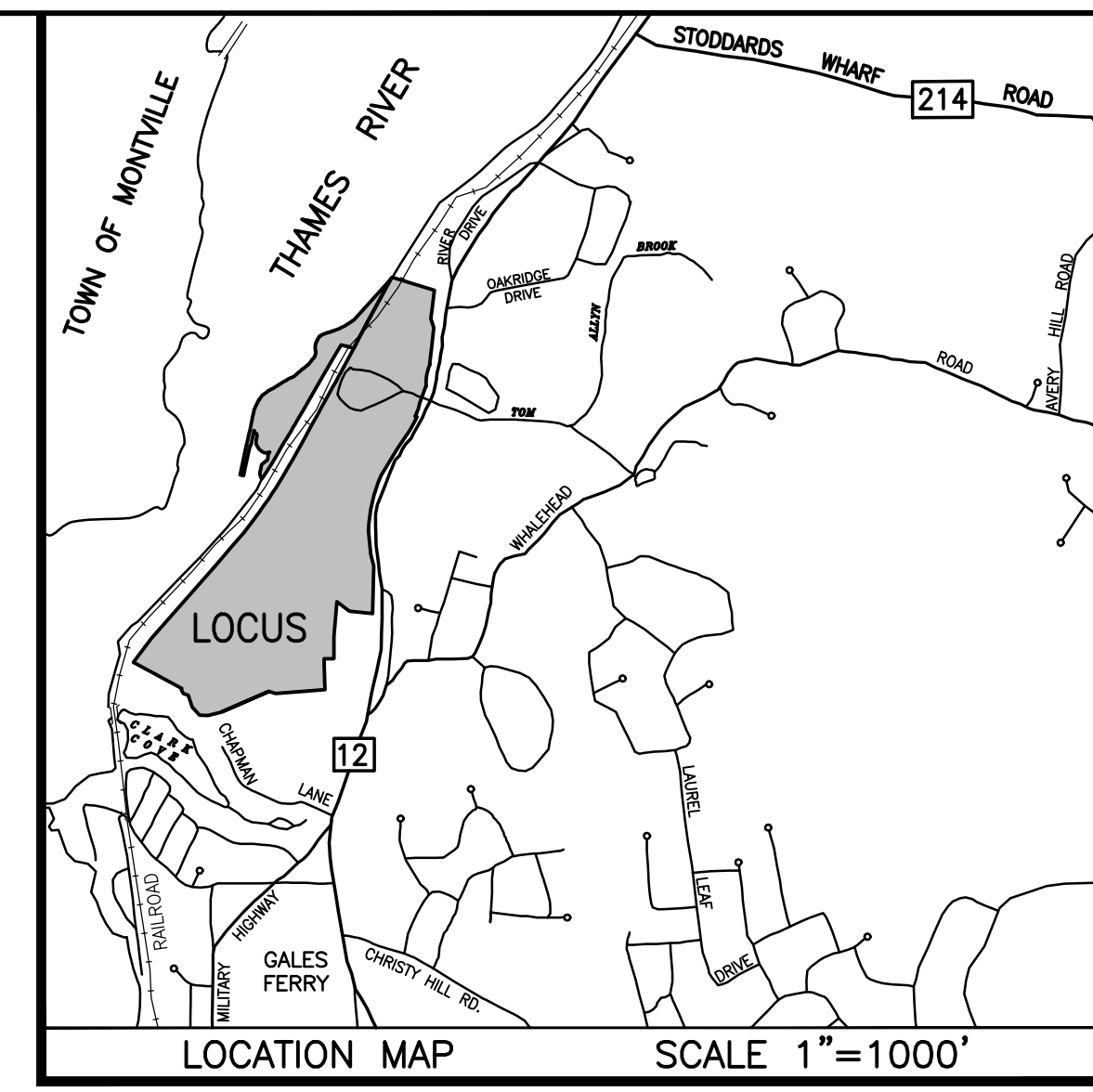
PREPARED FOR:
JAY CASHMAN, INC.
549 SOUTH STREET
QUINCY, MA

PROPERTY OF
TRINSEO LLC
#1737 & 1761 MILITARY
HIGHWAY (ROUTE 12)
LEDYARD, GALES FERRY, CT

PROPERTY SURVEY

Designed By: ---	Drawn By: CB	Checked By: CB
Issue Date: 5/10/2022	Project No: 076625	Scale: 1" = 100'
Drawing No.:		

SHEET 1 OF 2



MAP REFERENCES

- "RIGHT OF WAY AND TRACK MAP OPERATED BY THE NORWICH AND WORCESTER R.R. CO. OPERATED BY THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO. FROM WORCESTER TO GROTON STATION 3379+20 TO STATION 3405+60 TOWN OF LEDYARD, STATE OF CONN. SCALE 1"=50' DATE: JUNE 30, 1915 REVISED THROUGH OCTOBER 9, 1947, OFFICE OF VALUATION ENGINEER, BOSTON MASS. MAP NO. V.5063 / 129.
- "RIGHT OF WAY AND TRACK MAP OPERATED BY THE NORWICH AND WORCESTER R.R. CO. OPERATED BY THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO. FROM WORCESTER TO GROTON STATION 3405+60 TO STATION 32+00. TOWN OF LEDYARD, STATE OF CONN. SCALE 1"=50' DATE: JUNE 30, 1915, OFFICE OF VALUATION ENGINEER, BOSTON MASS. MAP NO. V.5063 / 130.
- "RIGHT OF WAY AND TRACK MAP OPERATED BY THE NORWICH AND WORCESTER R.R. CO. OPERATED BY THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO. FROM WORCESTER TO GROTON STATION 32+00 TO STATION 58+40 TOWN OF LEDYARD, STATE OF CONN. SCALE 1"=50' DATE: JUNE 30, 1915 REVISED THROUGH APRIL 11, 1951, OFFICE OF VALUATION ENGINEER, BOSTON MASS. MAP NO. V.5063 / 131.
- "RIGHT OF WAY AND TRACK MAP OPERATED BY THE NORWICH AND WORCESTER R.R. CO. OPERATED BY THE NEW YORK NEW HAVEN AND HARTFORD R.R. CO. FROM WORCESTER TO GROTON STATION 58+40 TO STATION 84+80 TOWN OF LEDYARD, STATE OF CONN. SCALE 1"=50' DATE: JUNE 30, 1915 REVISED THROUGH APRIL 11, 1951, OFFICE OF VALUATION ENGINEER, BOSTON MASS. MAP NO. V.5063 / 132.

MAP REFERENCES-CONTINUED

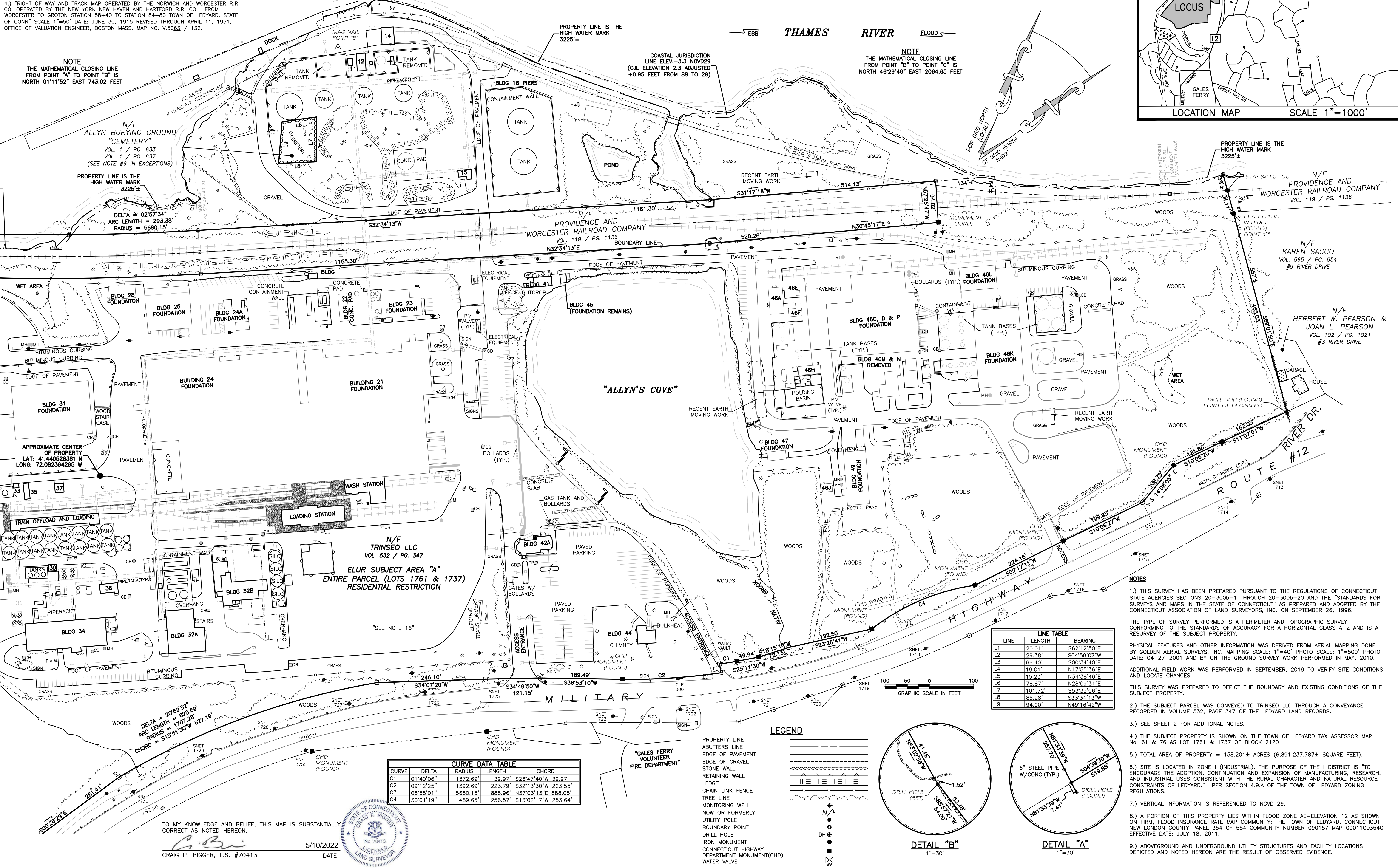
- "NORWICH AND WORCESTER RAILROAD REAL ESTATE & RIGHT OF WAY DEPARTMENT LAND IN LEDYARD, CONN. TO BE CONVEYED TO THE DOW CHEMICAL COMPANY" SCALE 1"=200' DATE: SEPTEMBER 1950 REVISED THROUGH OCTOBER 1950. ON FILE AS MAP NO. 8A.
- "LOCATION OF THE RIGHT OF WAY OF THE CONNECTICUT LIGHT & POWER COMPANY ACROSS THE PROPERTY OF THE DOW CHEMICAL COMPANY, TOWN OF LEDYARD, COUNTY OF NEW LONDON, STATE OF CONNECTICUT" SCALE 1"=200' DATE: APRIL 17, 1951.
- "MAP OF PROPERTY OWNED BY THE DOW CHEMICAL COMPANY LOCATED AT ALLYN'S POINT ON THE WEST SIDE OF ROUTE 12 AND EAST OF THE NEW YORK NEW HAVEN & HARTFORD RAILROAD CO. LEDYARD, CONN." SCALE: 1"=100' DATE: JULY 1952 REVISED AUGUST 1953, G.L. BILDERBECK CONSULTING ENGINEERS, NEW LONDON, CONN.
- "MAP SHOWING PROPERTY OWNED BY DOW CHEMICAL COMPANY, ALLYN'S POINT, LEDYARD, CONN." SCALE: 1"=100' DATE: DECEMBER 1953, G.L. BILDERBECK, CONSULTING ENGINEERS, NEW LONDON, CONN. ON FILE AS MAP NO. 43A.

MAP REFERENCES-CONTINUED

- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF LEDYARD GROTON-NORWICH ROAD GALES FERRY ROAD TO ALLYN'S BROOK" SCALE 1"=40' DATE: NOVEMBER 5, 1957, SHEETS 1 THROUGH 4 OF 9 PROJECT NUMBER: 71-16. THESE MAPS SUPERSEDE PROJECT 71-05, SHEET 3 REVISED AUGUST 25, 1967.
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF LEDYARD GROTON-NORWICH ROAD GALES FERRY ROAD TO ALLYN'S BROOK" SCALE 1"=40' DATE: NOVEMBER 5, 1957, SHEETS 1 THROUGH 4 OF 4, PROJECT NUMBER 71-15. THESE MAPS SUPERSEDE PROJECT 71-04, SHEET 1 REVISED THROUGH MAY 17, 2004.
- "PLAN SHOWING LANDS NOW AND FORMERLY OF H. WINTHROP HUIERLUBT LEDYARD, CONNECTICUT" SCALE 1"=100' DATE: OCTOBER 1964, GEORGE H. DIETER, LAND SURVEYOR, ON FILE AS MAP # 226.
- "PLAN OF PROPERTY TO BE CONVEYED TO THE TOWN OF LEDYARD BY THE DOW CHEMICAL COMPANY, TOWN OF LEDYARD, CONN." SCALE: 1"=100' DATE: APRIL 1972, CHANDLER, PALMER & KING, NORWICH, CONN.

MAP REFERENCES-CONTINUED

- "PLAN SHOWING PARCELS OF LAND WITH BUILDINGS PROPERTY OF JAMES L. LEWIS AND ALICE L. LEWIS, PENTWAY AT WEST END CHAPMAN LANE LEDYARD, CONNECTICUT" SCALE 1"=20' DATE JUNE 1976, GEORGE H. DIETER, LAND SURVEYOR, ON FILE AS MAP # 672.
- "TOPOGRAPHICAL PLAN, PLAN OF A PORTION OF DOW CHEMICAL CO. ALLYN'S POINT PLANT GALES FERRY, CONN." SCALE: 1"=40' DATE: JULY 9, 1984 REVISIONS THROUGH AUGUST 28, 1984, CHANDLER, PALMER & KING, NORWICH, CONN.
- "MONUMENTED PROPERTY SURVEY MAP DEPICTING LAND OF GALES FERRY MARINA, INC. A PORTION OF LAND OF JAMES L. LEWIS AND LUCILLE A. LUPINACCI, CHAPMAN LANE, GALES FERRY, LEDYARD, CONNECTICUT" SCALE: 1"=40' DATE: MARCH 26, 1994 REVISED APRIL 19, 1994, DAVID L. STEIN, LAND SURVEYOR, WESTBROOK, CONNECTICUT, ON FILE AS MAP #1753.
- COMPILED PLAN MAP SHOWING EASEMENT AREA TO BE GRANTED TO THE YANKEE GAS SERVICES COMPANY ACROSS THE PROPERTY OF DOW CHEMICAL COMPANY (ALLYN'S POINT PLANT) #1761 ROUTE 12 GALES FERRY-LEDYARD CONNECTICUT SCALE: 1"=60' SHEET 1 OF 1 DATE: 03-04-2010 YANKEE FILE #E0048, BY CME ASSOCIATES, INC. ON FILE AS MAP #2629.



NOTE
THE MATHEMATICAL CLOSING LINE FROM POINT "A" TO POINT "B" IS NORTH 01°11'52" EAST 743.02 FEET

NOTE
THE MATHEMATICAL CLOSING LINE FROM POINT "B" TO POINT "C" IS NORTH 46°29'46" EAST 2064.65 FEET

N/F ALLYN BURYING GROUND "CEMETERY"
VOL. 1 / PG. 633
VOL. 1 / PG. 637
(SEE NOTE #9 IN EXCEPTIONS)
PROPERTY LINE IS THE HIGH WATER MARK 3225'±

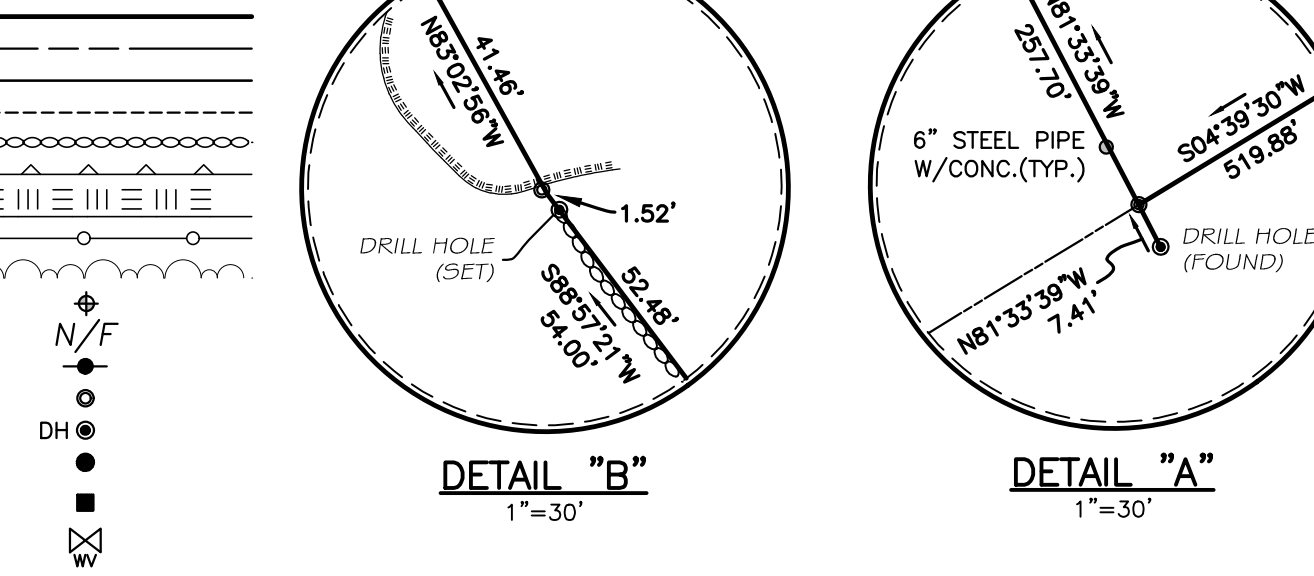
APPROXIMATE CENTER OF PROPERTY
LAT: 41.440528381 N
LONG: 72.082364265 W

N/F TRINSEO LLC
VOL. 532 / PG. 347
ELUR SUBJECT AREA "A"
ENTIRE PARCEL (LOTS 1761 & 1737)
RESIDENTIAL RESTRICTION

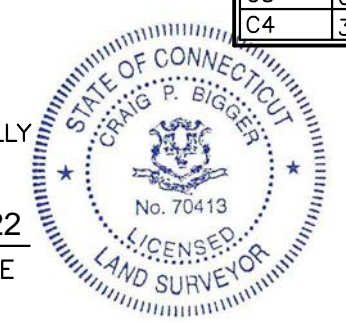
CURVE	DELTA	RADIUS	LENGTH	CHORD
C1	01°40'06"	1372.69'	39.97'	S2°6'47"40"W 39.97'
C2	09°12'25"	1392.69'	223.79'	S32°13'30"W 223.55'
C3	08°58'01"	5680.15'	888.96'	N37°03'13"E 888.05'
C4	30°01'19"	489.65'	256.57'	S13°02'17"W 253.64'

LINE	LENGTH	BEARING
L1	20.01'	S62°12'50"E
L2	28.38'	S04°59'07"W
L3	68.40'	S00°34'40"E
L4	19.01'	N17°55'36"E
L5	15.23'	N34°38'46"E
L6	78.87'	N28°09'31"E
L7	101.72'	S53°35'06"E
L8	85.28'	S33°34'13"W
L9	94.90'	N49°16'42"W

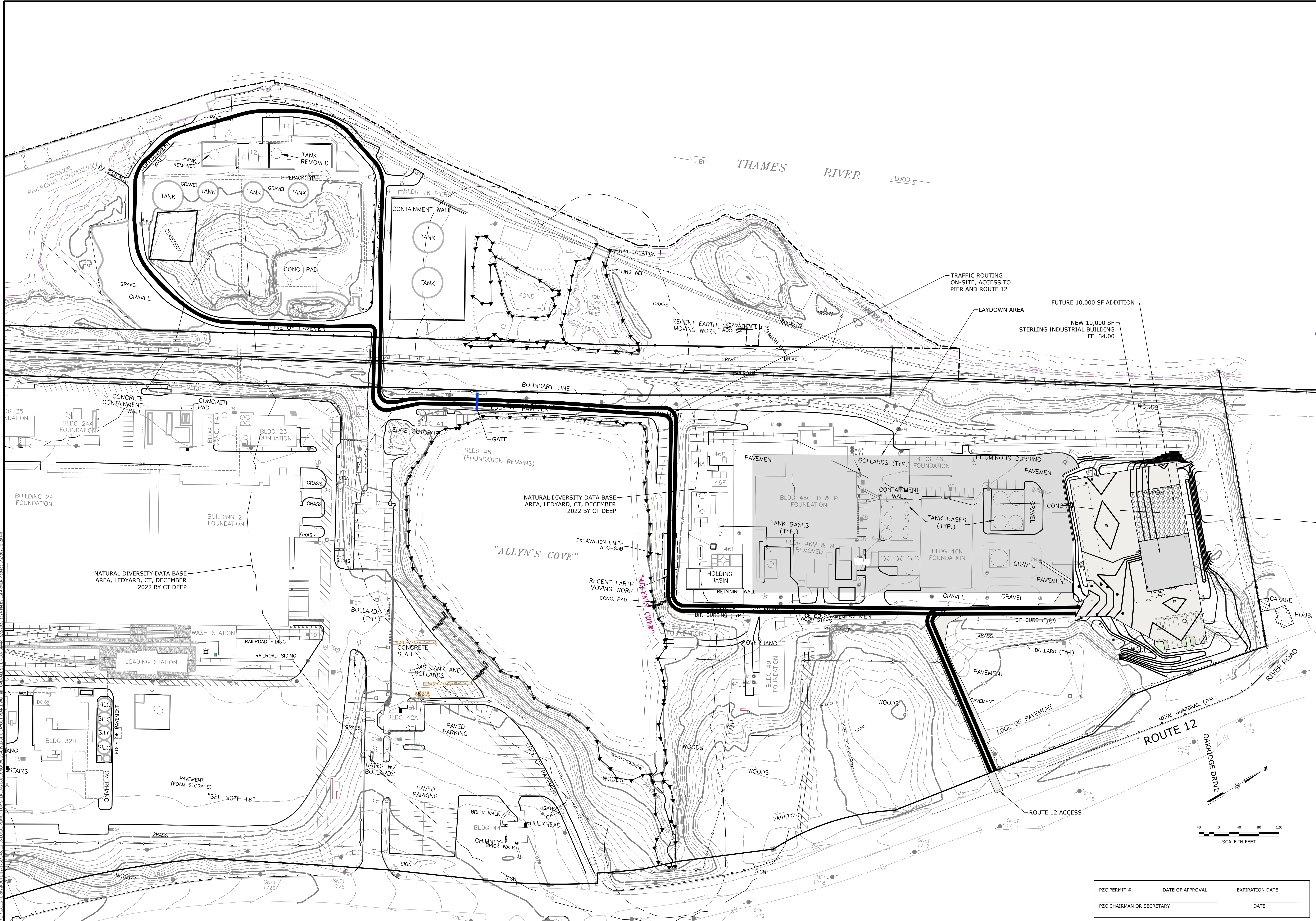
LEGEND



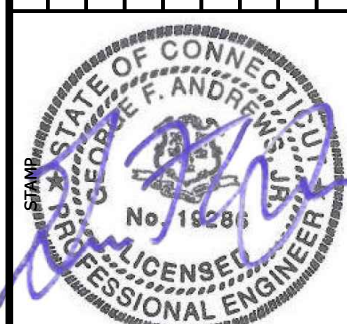

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.
Craig P. Bigger, L.S. #70413
5/10/2022
DATE

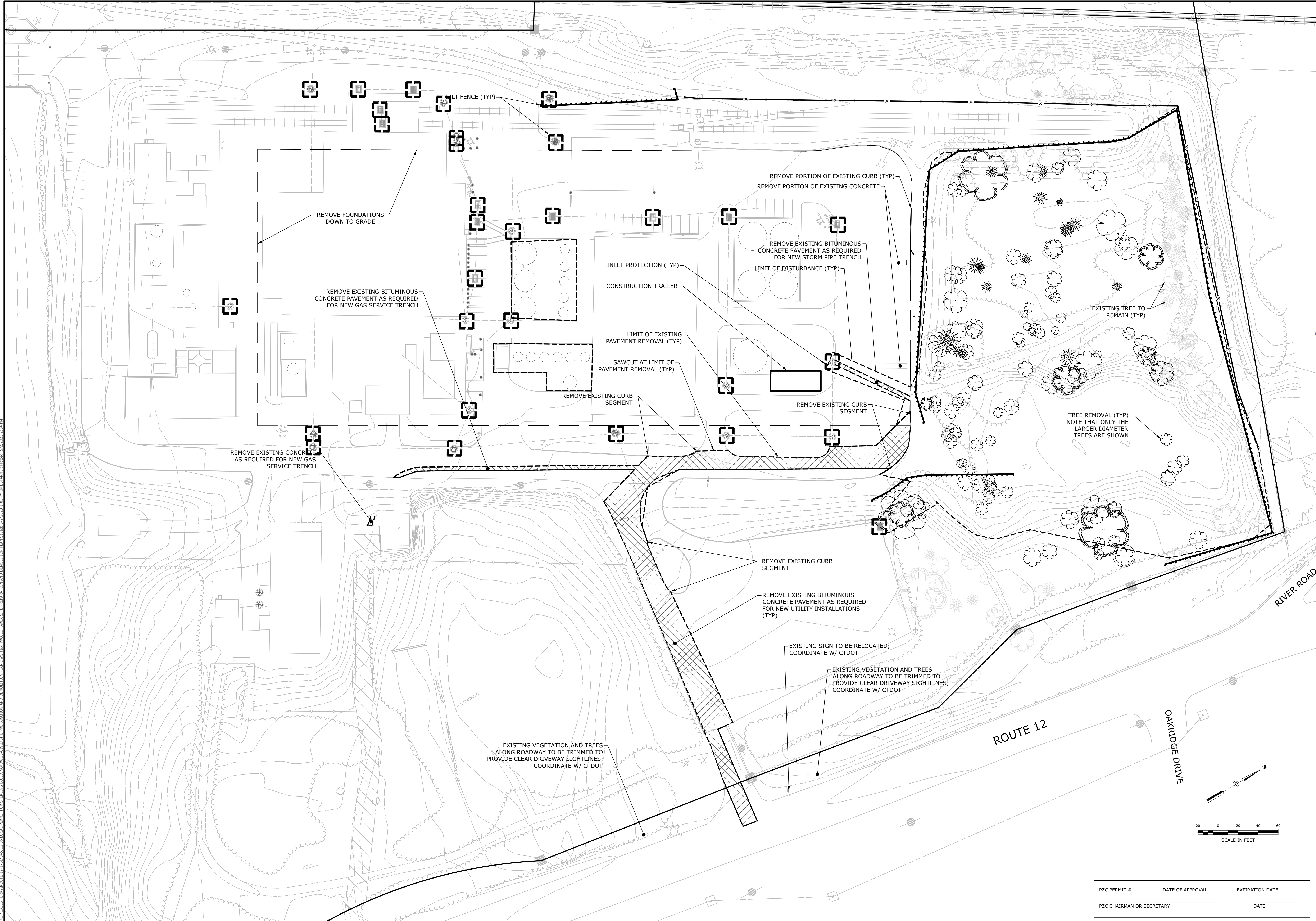


- NOTES**
- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-200-1 THROUGH 20-200-20 AND THE STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
 - THE TYPE OF SURVEY PERFORMED IS A PERIMETER AND TOPOGRAPHIC SURVEY CONFORMING TO THE STANDARDS OF ACCURACY FOR A HORIZONTAL CLASS A-2 AND IS A RESURVEY OF THE SUBJECT PROPERTY.
 - PHYSICAL FEATURES AND OTHER INFORMATION WAS DERIVED FROM AERIAL MAPPING DONE BY GOLDEN AERIAL SURVEYS, INC. MAPPING SCALE: 1"=40' PHOTO SCALE: 1"=500' PHOTO DATE: 04-27-2001 AND BY ON THE GROUND SURVEY WORK PERFORMED IN MAY, 2010.
 - ADDITIONAL FIELD WORK WAS PERFORMED IN SEPTEMBER, 2019 TO VERIFY SITE CONDITIONS AND LOCATE CHANGES.
 - THIS SURVEY WAS PREPARED TO DEPICT THE BOUNDARY AND EXISTING CONDITIONS OF THE SUBJECT PROPERTY.
 - THE SUBJECT PARCEL WAS CONVEYED TO TRINSEO LLC THROUGH A CONVEYANCE RECORDED IN VOLUME 532, PAGE 347 OF THE LEDYARD LAND RECORDS.
 - SEE SHEET 2 FOR ADDITIONAL NOTES.
 - THE SUBJECT PROPERTY IS SHOWN ON THE TOWN OF LEDYARD TAX ASSESSOR MAP No. 61 & 76 AS LOT 1761 & 1737 OF BLOCK 2120
 - TOTAL AREA OF PROPERTY = 158.201± ACRES (6,891,237.787± SQUARE FEET).
 - SITE IS LOCATED IN ZONE I (INDUSTRIAL). THE PURPOSE OF THE I DISTRICT IS "TO ENCOURAGE THE ADOPTION, CONTINUATION AND EXPANSION OF MANUFACTURING, RESEARCH, AND INDUSTRIAL USES CONSISTENT WITH THE RURAL CHARACTER AND NATURAL RESOURCE CONSTRAINTS OF LEDYARD." PER SECTION 4.9A OF THE TOWN OF LEDYARD ZONING REGULATIONS.
 - VERTICAL INFORMATION IS REFERENCED TO NGVD 29.
 - A PORTION OF THIS PROPERTY LIES WITHIN FLOOD ZONE AE-ELEVATION 12 AS SHOWN ON FIRM, FLOOD INSURANCE RATE MAP COMMUNITY: THE TOWN OF LEDYARD, CONNECTICUT NEW LONDON COUNTY PANEL 354 OF 554 COMMUNITY NUMBER 090157 MAP 090110354G EFFECTIVE DATE: JULY 18, 2011.
 - ABOVEGROUND AND UNDERGROUND UTILITY STRUCTURES AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON ARE THE RESULT OF OBSERVED EVIDENCE.



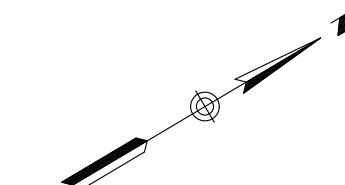
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	REVISIONS 2 REV. 05/01/2023 REVISION PER UPDATED LAYOUT 1 REV. 04/06/2023 REVISION PER UPDATED LAYOUT
	
	
SCALE 1" = 100' DRAWING NO. 045122.06	DATE 04/06/2023 DRAWN BY ESP APPROVED BY SRM
OVERALL SITE PLAN GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 GALES FERRY INTERMODAL LLC 389 SOUTH STREET, DANIELSON, CT 06248	
PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____ PZC CHAIRMAN OR SECRETARY _____ DATE _____	
DRAWING C-2	SHEET NO. 4 NO. OF SHEETS 20

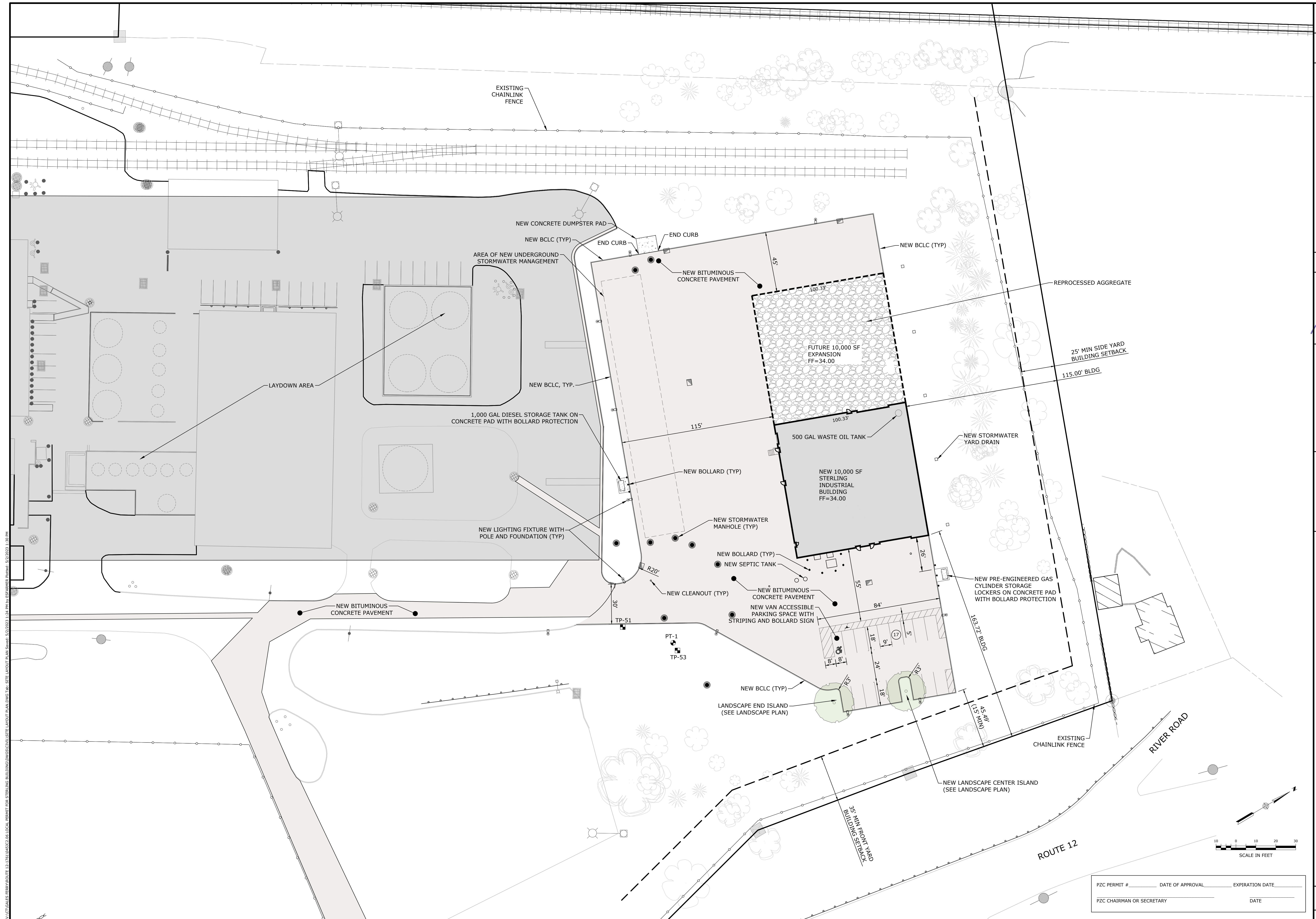


V:\CT\GALES FERRY\ROUTE 12_1761\045122\04 LOCAL PERMIT FOR STEELING BUILDINGS\SCHEMATIC PREPARATION AND DEMOLITION PLAN.dwg (Rev. 02/2023) 1:03 PM by: ESP/ARW/ARW Date: 02/2023 1:04 PM

PZC PERMIT #	DATE OF APPROVAL	EXPIRATION DATE
PZC CHAIRMAN OR SECRETARY		DATE

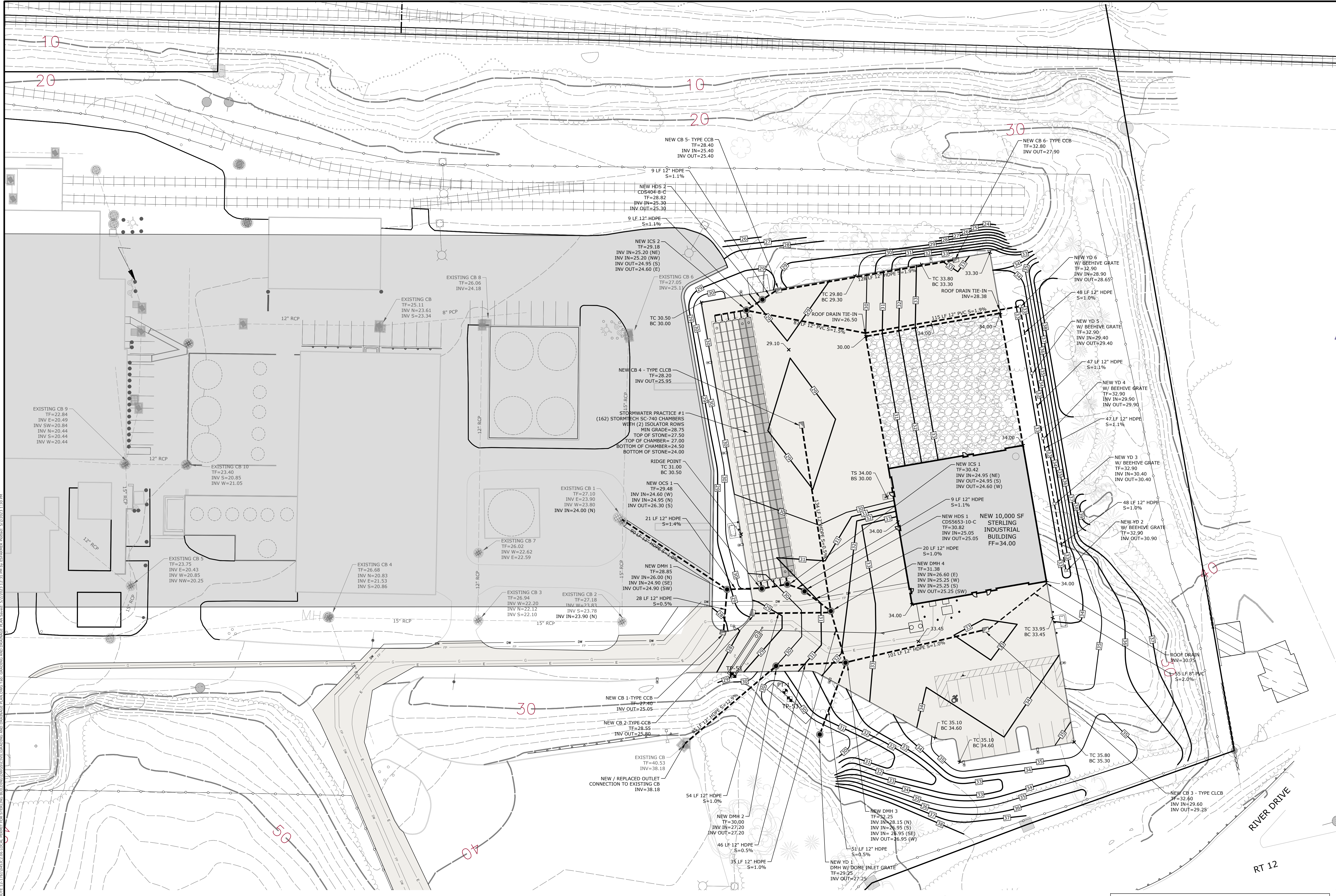


SITE PREPARATION AND DEMOLITION PLAN										
SCALE: 1" = 40' DRAWING NO.: 045122.06 DATE: 04/06/2023 DRAWN BY: ESP APPROVED BY: SRM	PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____ PZC CHAIRMAN OR SECRETARY _____ DATE _____ C-3 SHEET NO. 5 NO. OF SHEETS 20									
GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 GALES FERRY INTERMODAL LLC 389 SOUTH STREET, DANIELSON, CT 06248										
Loureiro Loureiro Engineering Associates, Inc. Water • Facility Services • Laboratory Environmental • Construction • Energy 1000 Main Street, Danvers, CT 06238 Tel: 860-747-0101 Fax: 860-747-8827 An Employee Owned Company • www.loureiro.com © Loureiro Associates, Inc. All Rights Reserved 2023										
<table border="1"> <tr> <th>REV.</th> <th>DESCRIPTION OF REVISION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>REVISED PER UPDATED LAYOUT</td> <td>04/06/2023</td> </tr> <tr> <td>2</td> <td>REVISED PER UPDATED LAYOUT</td> <td>05/01/2023</td> </tr> </table>		REV.	DESCRIPTION OF REVISION	DATE	1	REVISED PER UPDATED LAYOUT	04/06/2023	2	REVISED PER UPDATED LAYOUT	05/01/2023
REV.	DESCRIPTION OF REVISION	DATE								
1	REVISED PER UPDATED LAYOUT	04/06/2023								
2	REVISED PER UPDATED LAYOUT	05/01/2023								



V:\CT\GALES FERRY\ROUTE 12, 1761\04512.06\LOCAL PERMIT FOR STERLING BUILDING\DWG\CAD\SITE LAYOUT PLAN.DWG, Job: SITE LAYOUT PLAN, Date: 5/2/2023 11:30 AM, by: ESP/AMR/Rev: 5/2/2023 11:30 AM

STATE OF CONNECTICUT REGISTERED PROFESSIONAL ENGINEER No. 10285 	
Loureiro Water & Utility Services & Laboratory Loureiro Engineering Associates, Inc. 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 Phone: 860-747-0181 Fax: 860-747-8827 An Employee Owned Company • www.loureiro.com © Loureiro Engineering Associates, Inc. All Rights Reserved 2023	
SCALE 1" = 30' DRAWING NO. 04512.06	DATE 04/06/2023 DRAWN BY ESP
DATE 04/06/2023 APPROVED BY SRM	DESCRIPTION OF REVISION 2 REVISED PER UPDATED LAYOUT 1 REVISED PER UPDATED LAYOUT
SITE LAYOUT PLAN GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 GALES FERRY INTERMODAL LLC 383 SOUTH STREET, DANBURY, CT 06810	
PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____ PZC CHAIRMAN OR SECRETARY _____ DATE _____	
SHEET NO. 6	NO. OF SHEETS 20
C-4	



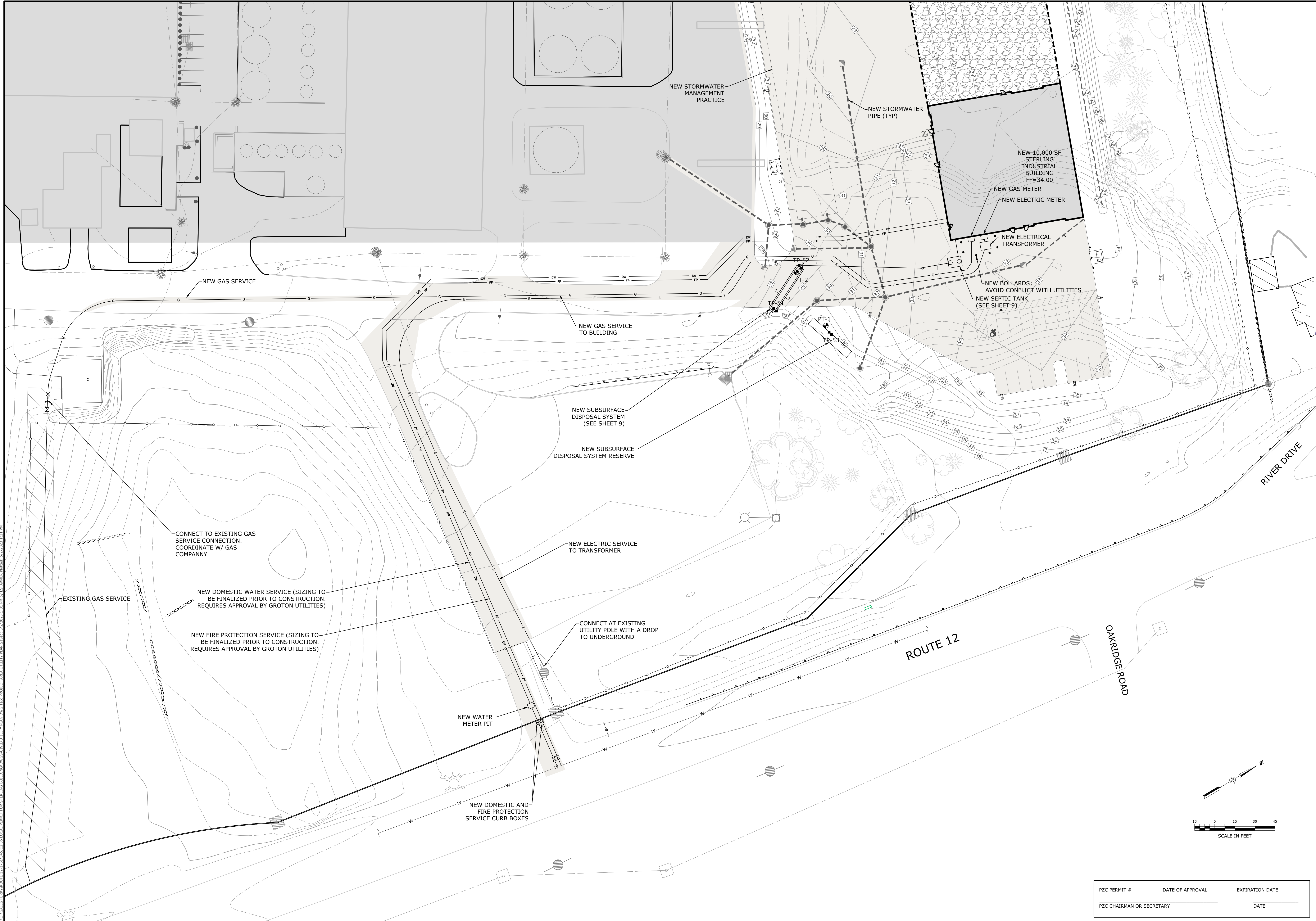
V:\ACT\STERLING BUILDING\STERLING BUILDING\GRADING AND DRAINAGE PLAN\DWG.TITLE GRADING AND DRAINAGE PLAN.dwg, 5/27/2023 11:30 AM, by: ESTABNER, mwh, 5/27/2023 11:30 AM

GRADING AND DRAINAGE PLAN GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 GALES FERRY INTERMODAL LLC 349 SOUTH STREET, DANBURY, CT 06810	SCALE: 1"=30' DRAWING NO: 0451C2.06 DATE: 04/06/2023 DRAWN BY: ESP APPROVED BY: SRM
PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____ PZC CHAIRMAN OR SECRETARY _____ DATE _____	SHEET NO. 7 NO. OF SHEETS 20 C-5

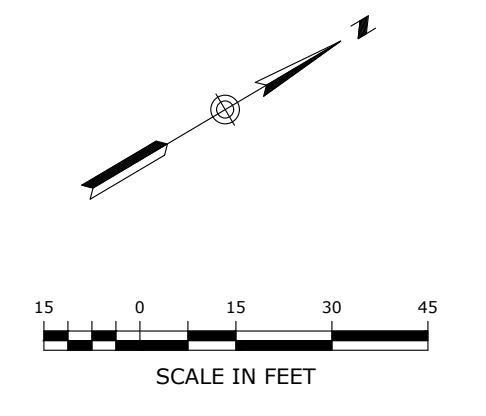


Loureiro
 Loureiro Engineering Associates, Inc.
 Water • Utility Services • Laboratory
 1761 Route 12, Gales Ferry, CT 06335
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REV.	DATE	DESCRIPTION OF REVISION
1	04/06/2023	REVISED PER UPDATED LAYOUT
2	05/01/2023	REVISED PER UPDATED LAYOUT

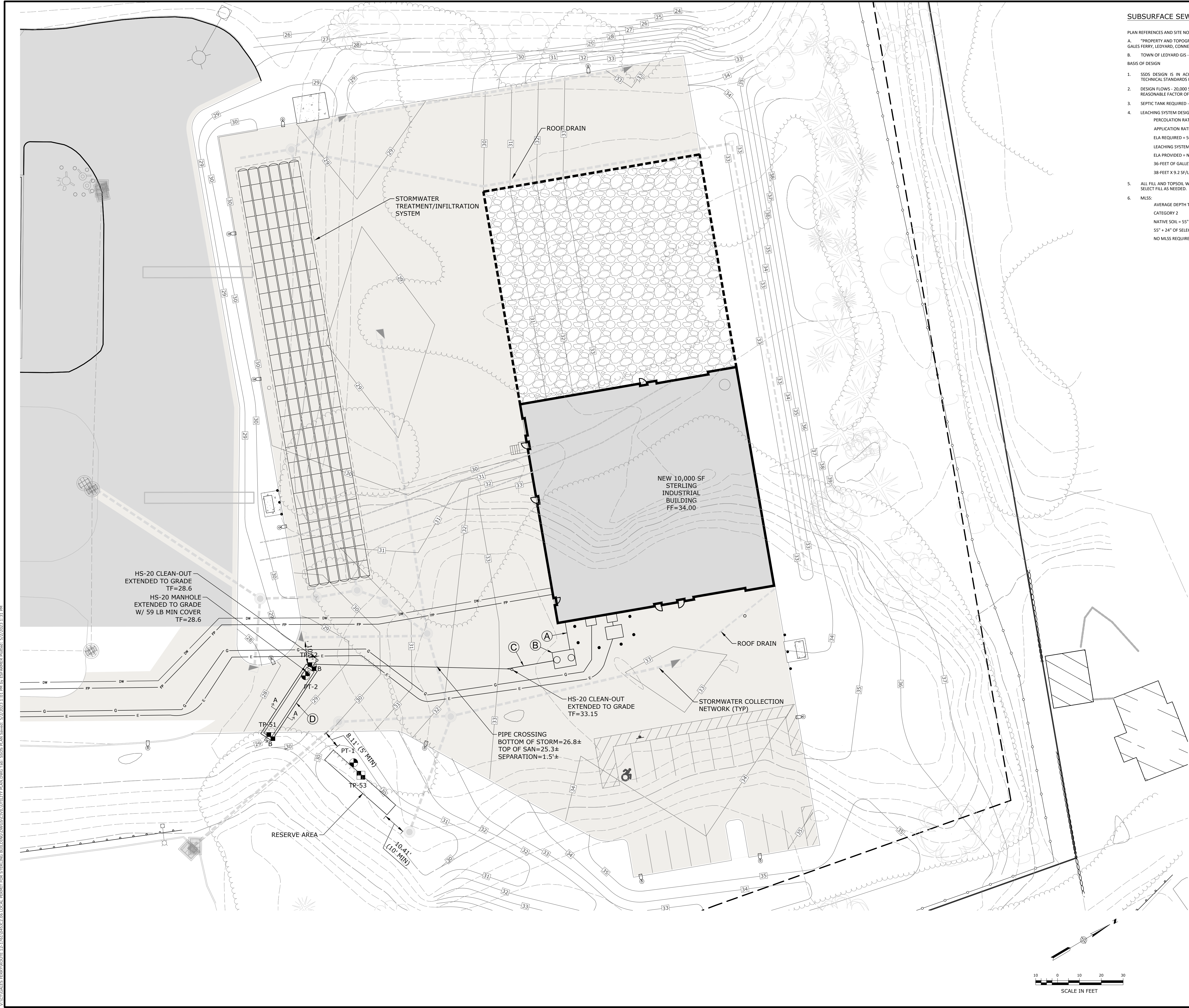


V:\CT\GALES FERRY\ROUTE 12\1761045C2.06\LOCAL PERMIT FOR STERLING BUILDING\DWGSC\UTILITY PLAN.DWG (plotted by ESABAMEB on 04/06/2023 11:31 AM)



PZC PERMIT #	DATE OF APPROVAL	EXPIRATION DATE
PZC CHAIRMAN OR SECRETARY	DATE	

UTILITY PLAN	
GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335	
GALES FERRY INTERMODAL LLC 389 SOUTH STREET, DANBURY, CT 06810	
SCALE: 1" = 30' DRAWN BY: ESP DATE: 04/06/2023	CHECK NO: 0451C2.06 APPROVED BY: SRM DATE: 04/06/2023
Loureiro Engineering Associates, Inc. Water • Facility Services • Laboratory 1000 Main Street, Danbury, CT 06810 Tel: 860-747-0181 Fax: 860-747-8822 An Employee Owned Company • www.loureiro.com © Loureiro Engineering Associates, Inc. All Rights Reserved 2023	
REV. 2 REVISION PER UPDATED LAYOUT	REV. 1 REVISION PER UPDATED LAYOUT
SRM 05/01/2023	SRM 04/06/2023
DATE 04/06/2023	DATE 04/06/2023
DESCRIPTION OF REVISION	DATE
NO. OF SHEETS 8	NO. OF SHEETS 20
C-6	



SUBSURFACE SEWAGE DISPOSAL SYSTEM (SSDS) BASIS OF DESIGN:

- PLAN REFERENCES AND SITE NOTES
- "PROPERTY AND TOPOGRAPHIC SURVEY PREPARED FOR STYRON LLC "ALYNS POINT PLANT" 1737 & 1761 MILITARY HIGHWAY - ROUTE 12, GALES FERRY, LEDYARD, CONNECTICUT PREPARED BY CME ASSOCIATES, INC. DATED SEPTEMBER 2, 2010
 - TOWN OF LEDYARD GIS - PUBLIC WATER AVAILABLE ON THIS SITE AND ALL ADJACENT PROPERTIES
- BASIS OF DESIGN
- SSDS DESIGN IS IN ACCORDANCE WITH THE CONNECTICUT PUBLIC HEALTH CODE, ON-SITE SEWAGE DISPOSAL REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS.
 - DESIGN FLOWS - 20,000 SQUARE FOOT (SF) EQUIPMENT MAINTENANCE GARAGE. NUMBER OF EMPLOYEES - 10. ASSUME TWO SHIFTS AS A REASONABLE FACTOR OF SAFETY ALLOCATING 20 EMPLOYEES AT 25 GALLONS PER DAY (GPD) PER EMPLOYEE. DESIGN FLOW - 500 GPD.
 - SEPTIC TANK REQUIRED - MINIMUM 1,000 GALLONS. SEPTIC TANK PROVIDED - 1,250 HS-20 DESIGNED FOR TRAFFIC AREA.
 - LEACHING SYSTEM DESIGN - USING 48-INCH CONCRETE LEACHING GALLEYS HS-20 DESIGNED FOR TRAFFIC AREA.
 PERCOLATION RATE = 10.0 MIN/INCH
 APPLICATION RATE = 1.5 GPD/SF OF EFFECTIVE LEACHING AREA (ELA)
 ELA REQUIRED = 500 GPD/1.5 GPD/SF = 334 SF
 LEACHING SYSTEM: 48-INCH HIGH CONCRETE LEACHING GALLEYS = 9.2 SF/LF ELA
 ELA PROVIDED = NINE 4-FOOT LONG GALLEYS WITH 12-INCHES OF NO. 4 CRUSHED STONE AROUND
 36-FOOT OF GALLEYS PLUS 2-FOOT OF CRUSHED STONE AT THE ENDS
 38-FOOT X 9.2 SF/LF ELA = 349 SF ELA
 - ALL FILL AND TOPSOIL WITHIN FIVE FEET SURROUNDING THE LEACHING SYSTEM AREA SHALL BE REMOVED AND REPLACED WITH SUITABLE SELECT FILL AS NEEDED.
 - MLSS:
 AVERAGE DEPTH TO RESTRICTIVE LAYER:
 CATEGORY 2
 NATIVE SOIL = 55"
 55" + 24" OF SELECT FILL = 79" > 60"
 NO MISS REQUIRED

SEPTIC SYSTEM KEY

- 15 L.F. 4" SCH. 40 PVC ASTM D1785 BUILDING SEWER PIPE INSTALLED @ 1/4" PER FT. MIN. SLOPE AND 12" MIN. COVER
- 1,250-GALLON HS-20 CONCRETE SEPTIC TANK
- 152 L.F. 4" SDR 35 ASTM D3034 DISTRIBUTION PIPE INSTALLED @ 1% MIN. SLOPE
- (1) ROW OF 48" HIGH HS-20 CONCRETE LEACHING GALLEYS @ 38 L.F. TOTAL WITH 1' CRUSHED NO. 4 STONE AROUND ALL SIDES

REFER TO SYSTEM INVERT TABLE ON THIS SHEET FOR PROPOSED INVERT ELEVATIONS.

SEPTIC SYSTEM INVERT SCHEDULE

BUILDING SEWER INVERT		28.40
SEPTIC TANK STRUCTURE	TOP	29.14
	BOTTOM	24.43
SEPTIC TANK INVERTS	IN	27.85
	OUT	27.60
	LEACHING GALLEYS	TOP 24.63
	BOTTOM	20.63
LEACHING GALLEY INVERT		23.80

NO. 4 STONE AGGREGATE

AKA 1 & 1/2" STONE

SIEVE SIZE	PERCENT PASSING (BY WEIGHT)
2"	100
1 1/2"	90-100
1"	20-55
3/4"	0-15
1/2"	N/A
3/8"	0-5
#4	N/A
#40	0-3
#200	0-1 1/2

SELECT FILL

SIEVE SIZE	PERCENT PASSING (BY WEIGHT)	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-75
#100	0-20	0-5
#200	0-5	0-2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75 IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10 AND THE #200 SIEVE DOES NOT EXCEED 5.

DATE	05/01/2023	SRM	
REVISED PER UPDATED LAYOUT	04/06/2023	SRM	
REVISED PER UPDATED LAYOUT	04/06/2023	SRM	
DESCRIPTION OF REVISION			

STATE OF CONNECTICUT
 GEORGE W. LAMOREIRO
 LICENSED PROFESSIONAL ENGINEER
 No. 10285

Loureiro
 Water & Facility Services & Laboratory
 Loureiro Engineering Associates, Inc.
 1761 Military Highway, Gales Ferry, CT 06335
 Phone: 860-747-6141 Fax: 860-747-8827
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SCALE: 1" = 20'
 DRAWN BY: ESP
 APPROVED BY: SRM
 DATE: 04/06/2023

SUBSURFACE SEWAGE DISPOSAL SYSTEM PLAN

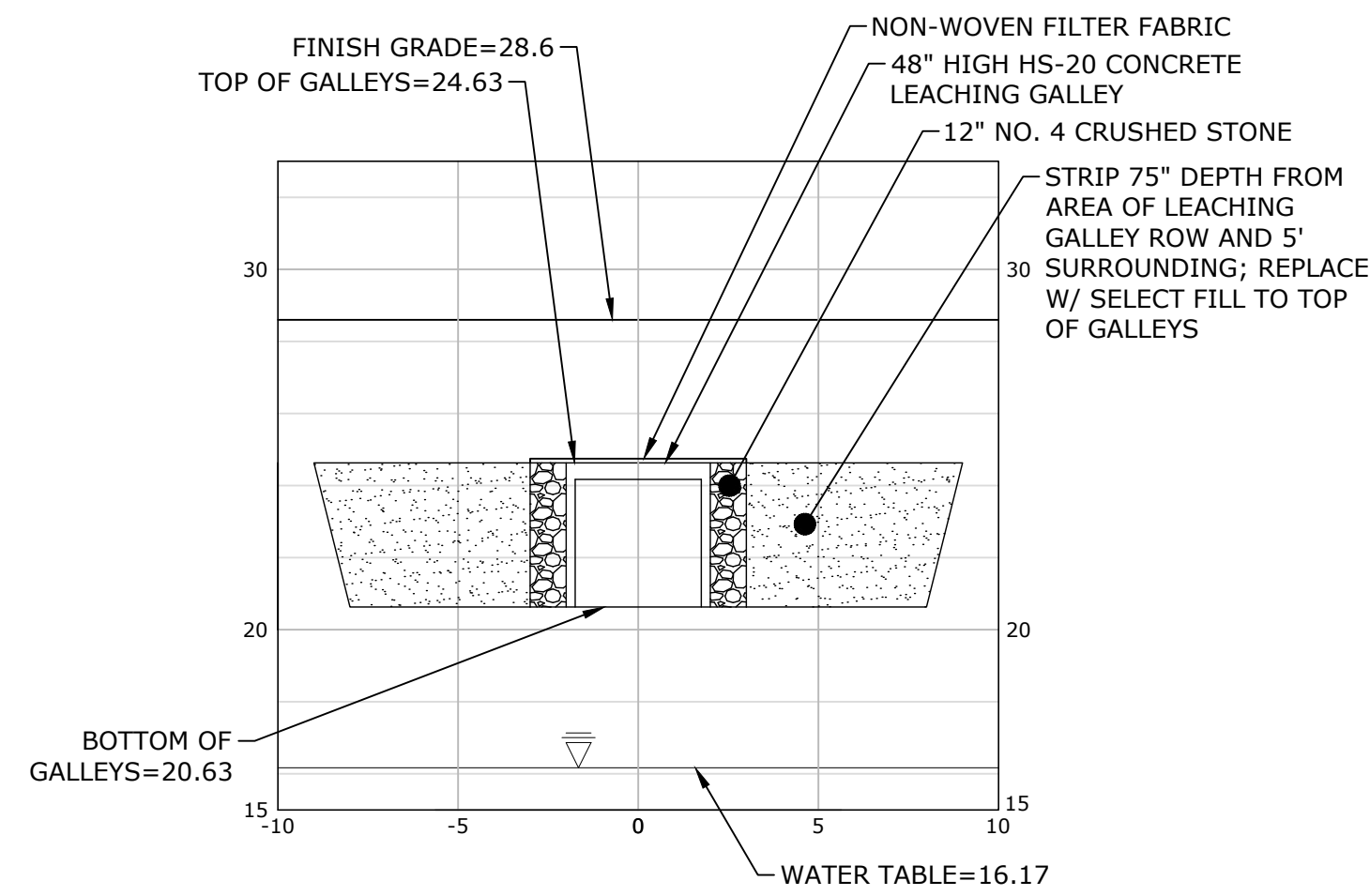
GALES FERRY INTERMODAL
 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
GALES FERRY INTERMODAL LLC
 389 SOUTH STREET, DANBURY, CT 06810

DRAWING NO. **C-7**

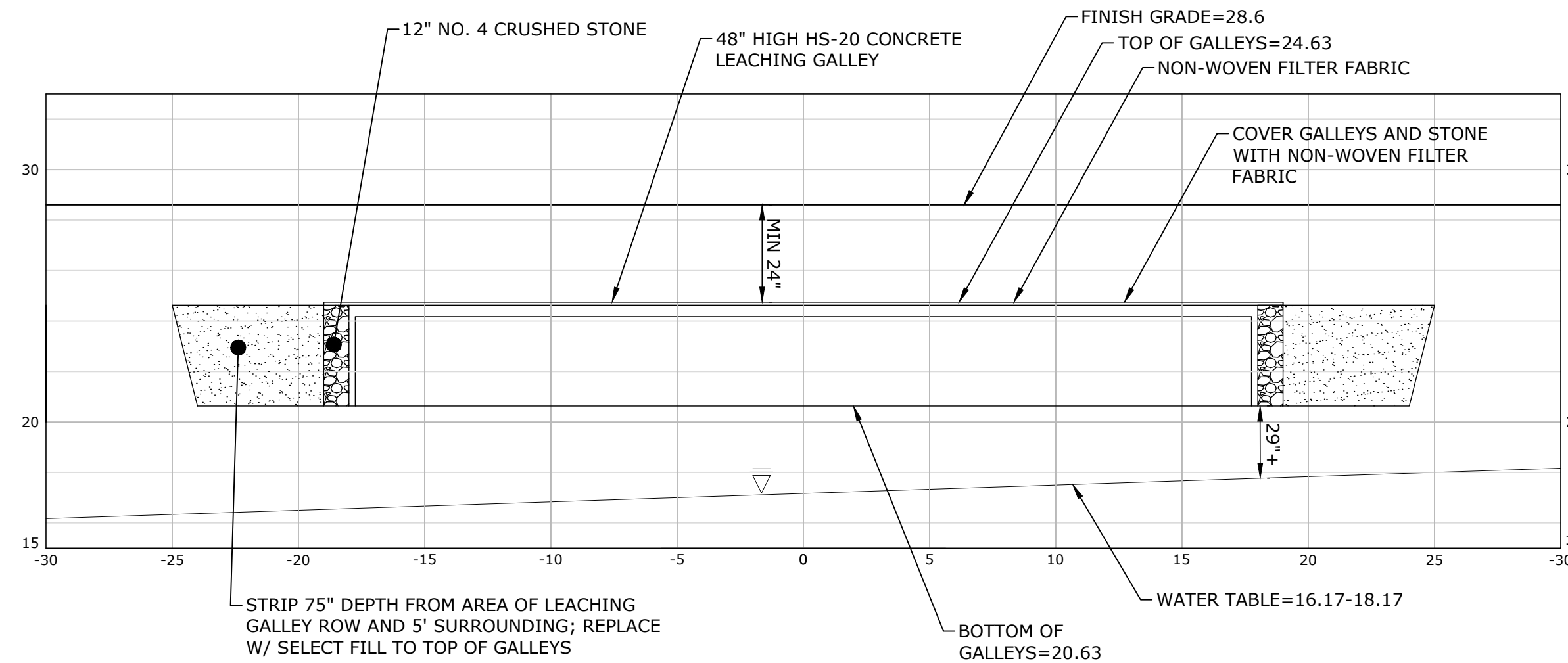
PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____
 PZC CHAIRMAN OR SECRETARY _____ DATE _____

SHEET NO. 9 NO. OF SHEETS 20

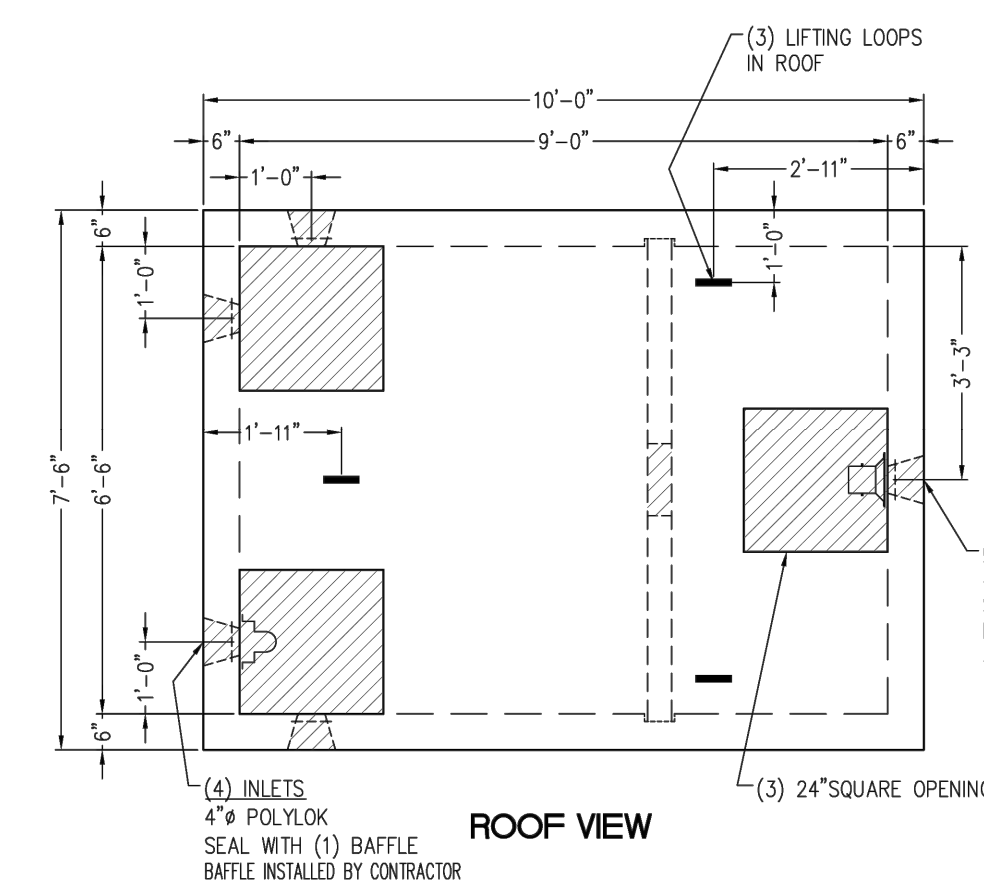
V:\CT\GALES FERRY\ROUTE 12, 1761\045122.06\LOCAL PERMIT FOR STERLING BUILDING\DWG\SSDS\PLAN.DWG, 5/2/2023, 1:01 PM by DESABARIS, Revised: 5/2/2023, 1:31 PM



A-A SECTION VIEW
SCALE: 1"=5'H&V



B-B SECTION VIEW
SCALE: 1"=5'H&V

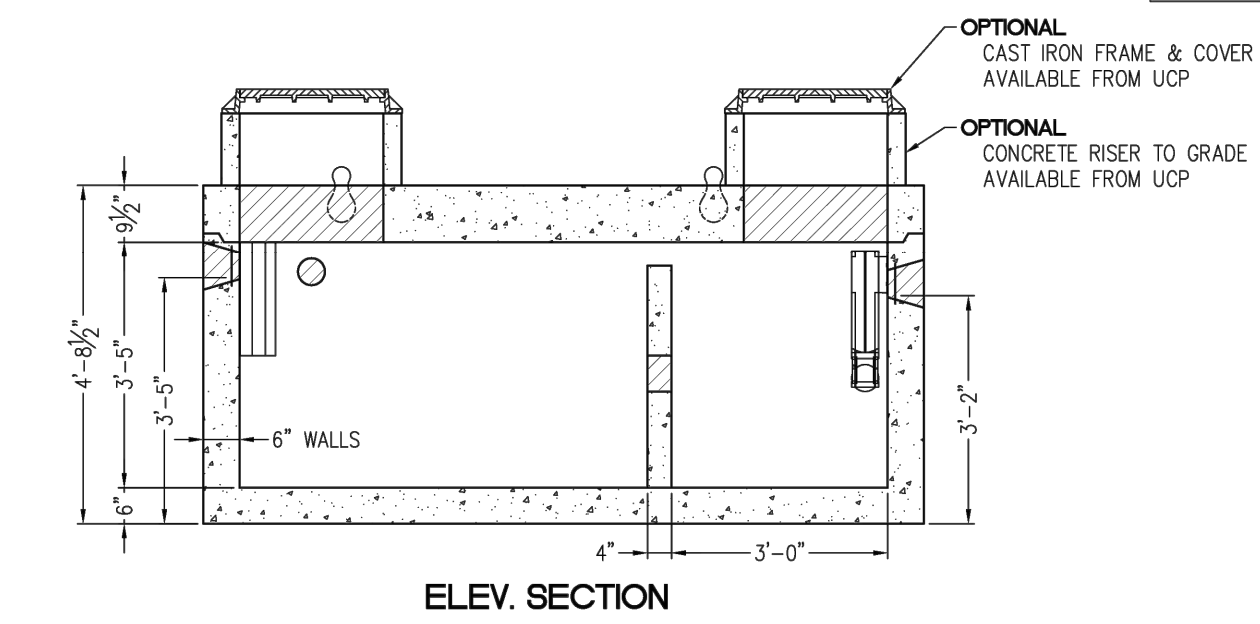


1,250 GALLON HS-20 SEPTIC TANK

TANK DESIGN SPECIFICATIONS CONFORMS TO LATEST ASTM DESIGNATION C1227

NOTES:
1. JOINT SEALANT IS BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPEC. M-198.
2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPEC. A706, GRADE 60.
3. COVER 1/2" UNLESS NOTED.
4. CONCRETE COMPRESSIVE STRENGTH-5,000 PSI AT 28 DAYS SELF CONSOLIDATING CONCRETE.
5. METHOD OF MANUFACTURE: WET CAST.
6. BOTTOM SECTION IS MONOLITHIC.
7. DESIGNED FOR AASHTO HS-20 LOADING WITH 6" TO 60" OF SOIL COVER.
8. ALL PIPING PROVIDED AND INSTALLED BY CONTRACTOR.
9. LIFTING - LIFTING LOOPS IN ROOF SLUNG LIFTING NOTCHED IN BASE SECTION

WEIGHT CHART	
PRODUCT	APPROX. WEIGHT
TANK W/BAFFLE	24,900 LBS.



ELEV. SECTION

1,250 GALLON HS-20 SEPTIC TANK
NOT TO SCALE

PERCOLATION TEST RESULTS
CONDUCTED BY LOUREIRO ENGINEERING ASSOCIATES ON MARCH 24, 2023

PT-1 DEPTH: 122"		
TIME (MIN)	MEASURE (INCHES)	RATE (MIN/IN)
0	5.75	---
1	7	0.80
2	8.25	0.80
3	8.75	2.0
4	9.125	2.7
5	9.5	2.7
6	10	2.0
7	10.375	2.7
8	10.75	2.7
9	11	4.0
10	11.5	2.0
11	11.875	2.7
12	12.125	4.0
13	12.375	4.0
14	12.5	8.0
15	13	2.0
16	13.125	8.0
17	13.25	8.0
18	13.5	4.0
19	13.75	4.0
20	14	4.0
21	14.25	4.0

<2" OF WATER REMAINING
PERC RATE = 4.0 MIN/INCH

PT-2 DEPTH: 108"		
TIME (MIN)	MEASURE (INCHES)	RATE (MIN/IN)
0	11.5	---
1	12.5	1.0
2	13.5	1.0
3	14.375	1.1
4	15.125	1.3
5	15.875	1.3
6	16.375	2.0
7	17	1.6
8	17.5	2.0

PERC RATE = 2.0 MIN/INCH

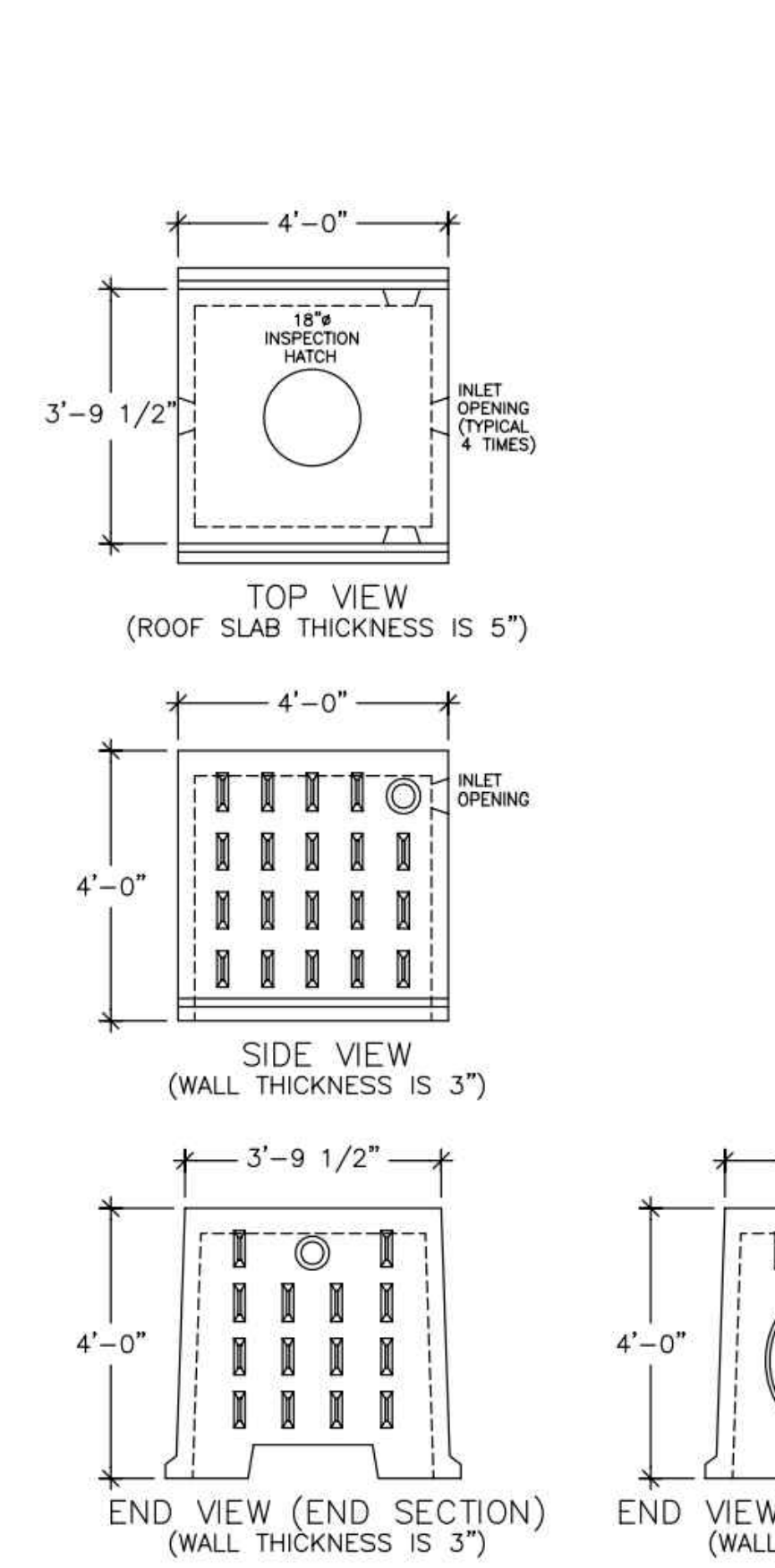
TEST PIT LOG: TP-51	
DEPTH	OBSERVATIONS
0-24"	GRAVEL, FILL
24"-68"	DARK BROWN FINE SANDY LOAM. CONCRETE DEBRIS W/ REBAR FOUND
68"-75"	BURIED TOPSOIL LAYER
75"-93"	TAN GREY FINE SANDY LOAM WITH GRAVEL
93"-150"	ORANGE BROWN MEDIUM-COARSE SAND AND GRAVEL W/ COBBLES
*ROOTS TO 93" *GROUNDWATER AT 130" *NO REFUSAL	

TEST PIT LOG: TP-52	
DEPTH	OBSERVATIONS
0-62"	FILL
62"-84"	ORIGINAL TOPSOIL
84"-111"	DARK BROWN MEDIUM-COARSE SAND WITH GRAVEL AND COBBLES
111"-150"	TAN MEDIUM SAND, SOME GRAVEL
*ROOTS TO 62" *GROUNDWATER AT 130" *NO REFUSAL *NO MOTTLING	

TEST PIT LOG: TP-53	
DEPTH	OBSERVATIONS
0-79"	FILL
79"-105"	ORIGINAL TOPSOIL
105"-128"	ORANGE BROWN MEDIUM-COARSE SAND WITH GRAVEL AND COBBLES
*ROOTS TO 105" *GROUNDWATER AT 128" *NO REFUSAL *NO MOTTLING	

SUBSURFACE SEWAGE DISPOSAL SYSTEM (SSDS) CONSTRUCTION NOTES:

- REFER TO SOIL EROSION AND SEDIMENT CONTROL PLAN FOR EROSION PROTECTION.
- PROCEDURES FOR THE INSTALLATION OF FILL:
 - NO EXCAVATION SHALL OCCUR PRIOR TO NOTIFYING "CALL-BEFORE-YOU-DIG" AT 1-800-922-4455 OR 811.
 - INSTALL EROSION CONTROL ALONG THE DOWN-GRADIENT LIMITS OF FILL IN ACCORDANCE WITH THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
 - STRIP ALL VEGETATION, ORGANIC MATTER AND UNSUITABLE OVERBURDEN INCLUDING THE BURIED TOPSOIL TO A DEPTH OF 75-INCHES BELOW GRADE IN THE AREA OF AND TEN FEET SURROUNDING THE NEW LEACHING SYSTEM. REMOVE ANY UNSUITABLE MATERIAL WHICH MAY INTERFERE WITH THE PROPER FUNCTION OF THE SYSTEM.
 - SCARIFY THE SURFACE IN THE PROPOSED LEACHING SYSTEM AREA PRIOR TO PLACING ANY SELECT FILL MATERIAL. AVOID COMPACTING THE SCARIFIED AREA. FILL SHALL NOT BE PLACED OVER SNOW OR FROZEN GROUND. DISCONTINUE FILL PLACEMENT DURING HEAVY RAINFALL AND A MINIMUM OF 24 HOURS THEREAFTER.
 - SELECT FILL SHALL BE PLACED WITHIN OR ADJACENT TO THE LEACHING SYSTEM PER THE PLAN AND SHALL MEET THE REQUIREMENTS OF SECTION VII.A OF THE TECHNICAL STANDARDS. SELECT FILL SHALL BE PLACED TO THE TOP OF THE PROPOSED LEACHING GALLEYS AND SHALL EXTEND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE LEACHING SYSTEM AND TO DEPTHS INDICATED IN THE CROSS SECTION. THE SELECT FILL MATERIAL SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 90% DENSITY.
 - A SIEVE ANALYSIS FROM A SOIL TESTING LABORATORY SHALL BE PROVIDED TO LEDGE LIGHT HEALTH DISTRICT FOR ALL SELECT FILL MATERIAL TO DEMONSTRATE COMPLIANCE WITH THE TECHNICAL STANDARDS.
 - NATIVE SOIL OR COMMON FILL SHALL BE USED AS BACKFILL BEYOND THE LIMITS OF SELECT FILL AND BELOW THE TOPSOIL LAYER.
- NO UTILITIES SHALL BE INSTALLED THROUGH ANY PORTION OF THE LEACHING SYSTEM.
- SEPTIC TANK SHALL BE SET LEVEL ON A MINIMUM OF SIX INCHES OF PROCESSED AGGREGATE OR BROKEN STONE PLACED ON COMPACTED SUBGRADE. BACKFILL AROUND THE TANK SHALL BE PLACED AND COMPACTED IN SIX INCH LIFTS.
- HS-20 SEPTIC TANK SHALL BE EQUIPPED WITH RISERS TO GRADE EQUIPPED WITH CAST IRON MANHOLE COVERS WITH A MINIMUM WEIGHT OF 59 POUNDS EQUIPPED WITH A LOCKING FEATURE.
- THE NEW SSDS SHALL BE STAKED BY A LICENSED SURVEYOR AND A BENCH MARK SHALL BE ESTABLISHED AT THE LOCATION SHOWN ON THE SSDS PLAN.
- THE INSTALLER SHALL SUBMIT TO LEDGE LIGHT HEALTH DISTRICT UPON 30 DAYS OF COMPLETION SCALED OR TIED AS-BUILT DRAWINGS OF ALL SSDS COMPONENTS. THE DRAWING SHALL INCLUDE THE NAME OF THE INSTALLER, DATE AND PROPERTY LOCATION/ADDRESS.
- ALL STORM AND/OR ROOF DRAINS WITHIN 25 FEET OF THE SEPTIC SYSTEM SHALL BE TIGHT PIPE WITH NO FREE-DRAINING BEDDING MATERIAL IN TRENCH.



48" HIGH HS-20 LEACHING GALLEY
NOT TO SCALE

4'x4'x4' GALLEY HS-20 LEACHING CHAMBER

GALLEY DESIGN SPECIFICATIONS CONFORMS TO LATEST: ASTM DESIGNATION C913

NOTES:
1. PIPE INLET LOCATIONS HAVE 4" DIAMETER KNOCKOUTS, TYPICAL. CUSTOM KNOCKOUTS CAN BE CAST ON REQUEST.
2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
3. CONCRETE COMPRESSIVE STRENGTH- 4000 PSI AT 28 DAYS.
4. METHOD OF MANUFACTURE: WET CAST.
5. SECTION IS MONOLITHIC.
6. THE GALLEY IS DESIGNED FOR HS-20 LOADING w/18" OF SOIL COVER.

WEIGHT CHART	
PRODUCT	APPROX. WEIGHT
4'x4'x4' GALLEY	2200 LBS.

LEACHING DATA			
FLOW LINE (INCHES)	LEACHING (Gals/LF)	LEACHING (FT ² /UNIT)	INSIDE CAPACITY (GALLONS)
38	9.2	36.8	330

PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____

PZC CHAIRMAN OR SECRETARY _____ DATE _____

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 19281
L. LOUREIRO

Loureiro
Engineering & Construction • 850 S. Energy
Levee • 100 Northwood Drive • Plainville, Connecticut 06062
Tel: 860-742-9888 • Fax: 860-742-8822
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SCALE: AS NOTED
CONTR. NO.: 0451C2.06
DATE: 3/6/2023
DRAWN BY: FCC
APPROVED BY: GFA

SUBSURFACE SEWAGE DISPOSAL SECTIONS, DETAILS & NOTES

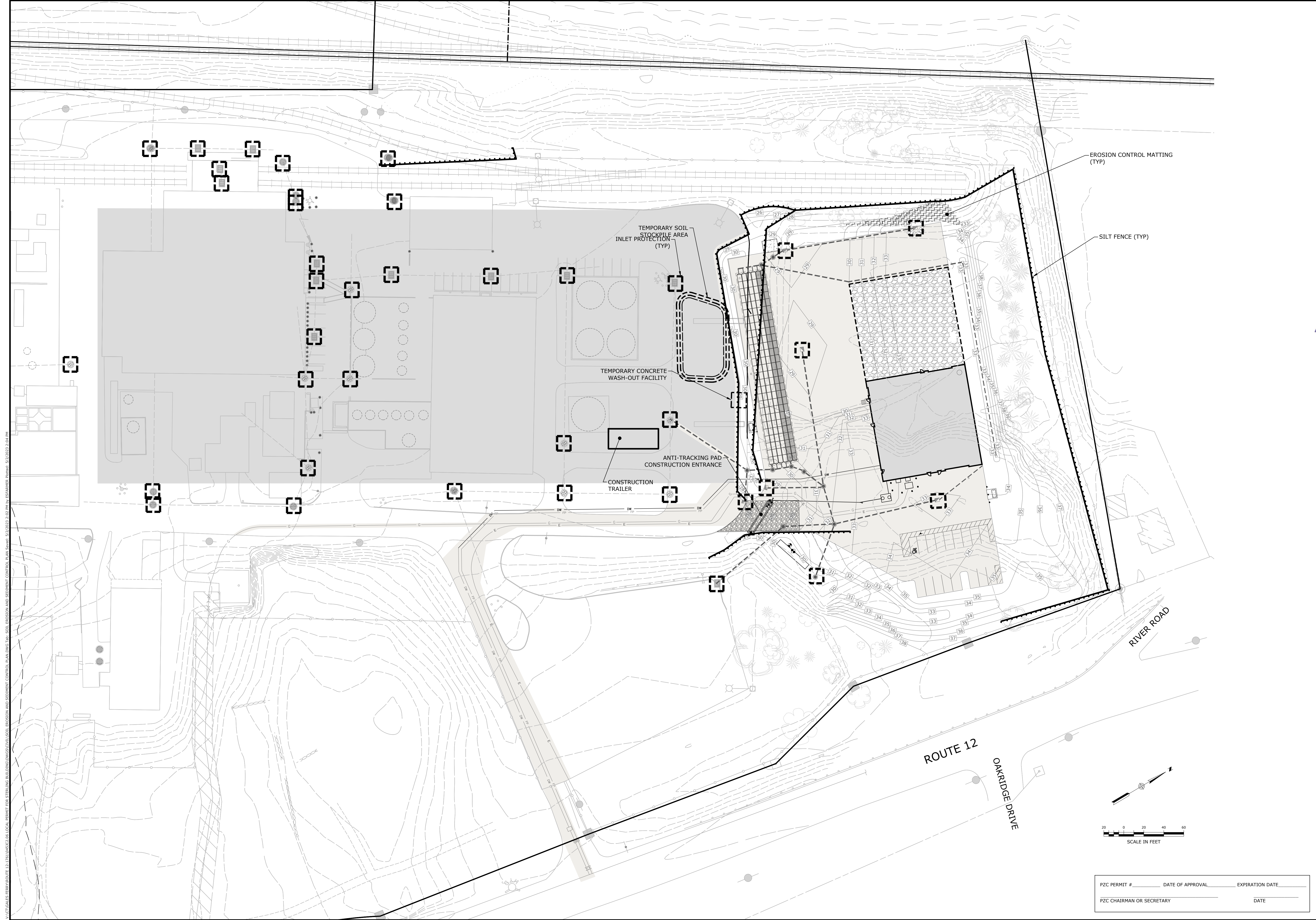
GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
GALES FERRY INTERMODAL LLC
349 SOUTH STREET, DANVILLE, MA 01923

REVISIONS:
1. REVISED PER UPDATED LAYOUT
2. REVISED PER UPDATED LAYOUT

DATE: 05/01/2023
DATE: 04/06/2023



SRM: _____
SRM: _____
APPR: _____

SHEET NO. 10 NO. OF SHEETS 20



V:\ACTUALS PERMITS\ROUTE 12, 1761\0451C2.06 LOCAL PERMIT FOR STEELING BUILDINGS\SOIL EROSION AND SEDIMENT CONTROL PLAN SHEET 02/2023.1.04.PK

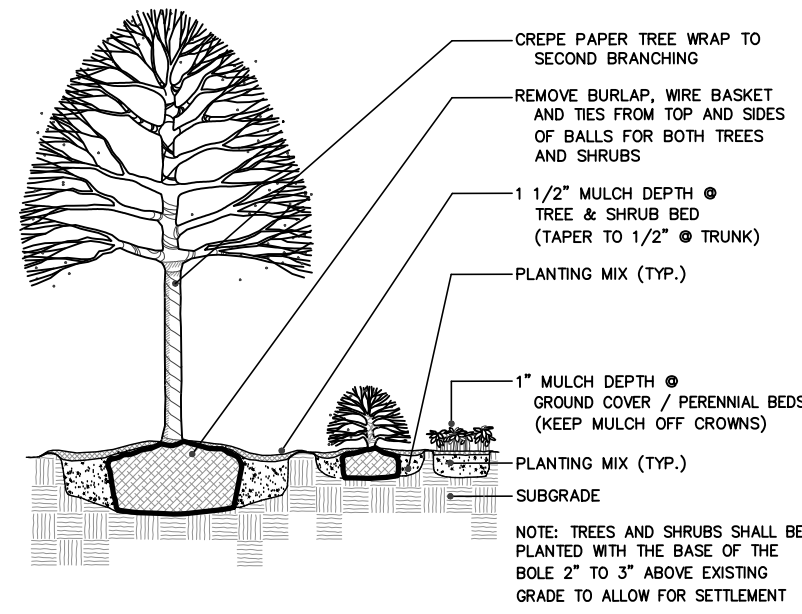
PZC PERMIT # _____	DATE OF APPROVAL _____	EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____	DATE _____	

SOIL EROSION AND SEDIMENT CONTROL PLAN		SCALE 1" = 40' DRAWING NO. 0451C2.06
GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 GALES FERRY INTERMODAL LLC <small>389 SOUTH STREET, DANIELSON, CT 06248</small>		DATE 04/06/2023 DRAWN BY ESP APPROVED BY SRM
C-9 SHEET NO. 11 NO. OF SHEETS 20		DATE 04/06/2023 REV. 1 2 REVISION PER UPDATED LAYOUT REVISION PER UPDATED LAYOUT
		
		

KEY	QTY.	TECHNICAL NAME	COMMON NAME	SIZE	COND.
IO	26	ILEX OPACA	AMERICAN HOLLY	6'-7" HT.	B&B
IT	30	ITEA VIRGINICA 'FIZZY MIZZY'	FIZZY MIZZY SWEETSPICE	2 GAL.	B&B
JV	20	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-7" HT.	B&B
LF	58	LEUCOTHOE FONTANESIA	DOGHOBBLE	3 GAL.	CONT.
RM	45	RHODODENDRON MAXIMUM	ROSEBAY RHODODENDRON	6'-7" HT.	B&B
RS	20	RUDBECKIA SUBMENTOSA 'HENRY EILERS'	HENRY EILERS CONEFLOWER	1 GAL.	B&B
UA	2	ULMUS AMERICANA 'VALLEY FORGE'	VALLEY FORGE ELM	6'-7" HT.	B&B

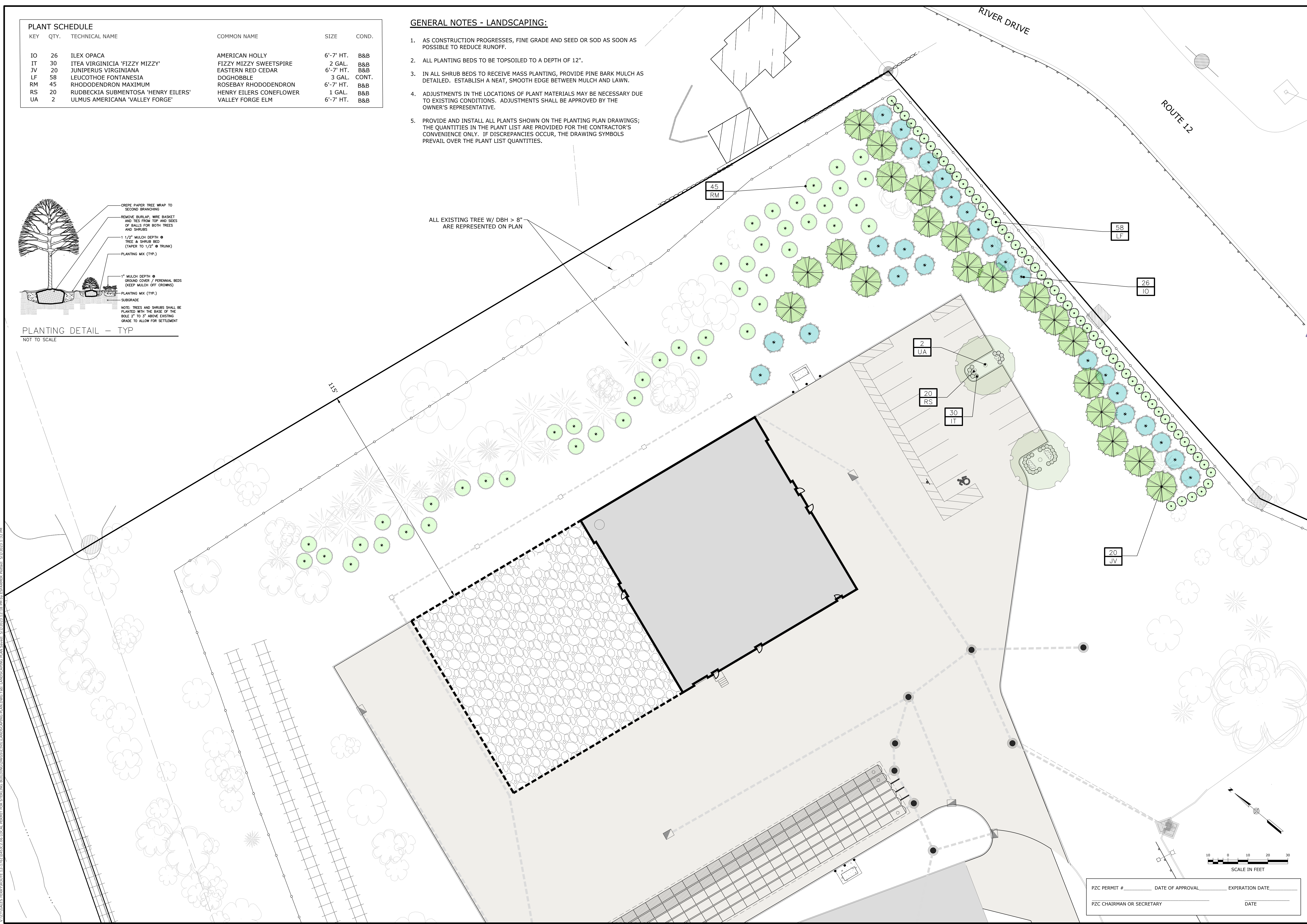
GENERAL NOTES - LANDSCAPING:

- AS CONSTRUCTION PROGRESSES, FINE GRADE AND SEED OR SOD AS SOON AS POSSIBLE TO REDUCE RUNOFF.
- ALL PLANTING BEDS TO BE TOPSOILED TO A DEPTH OF 12".
- IN ALL SHRUB BEDS TO RECEIVE MASS PLANTING, PROVIDE PINE BARK MULCH AS DETAILED. ESTABLISH A NEAT, SMOOTH EDGE BETWEEN MULCH AND LAWN.
- ADJUSTMENTS IN THE LOCATIONS OF PLANT MATERIALS MAY BE NECESSARY DUE TO EXISTING CONDITIONS. ADJUSTMENTS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.
- PROVIDE AND INSTALL ALL PLANTS SHOWN ON THE PLANTING PLAN DRAWINGS; THE QUANTITIES IN THE PLANT LIST ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF DISCREPANCIES OCCUR, THE DRAWING SYMBOLS PREVAIL OVER THE PLANT LIST QUANTITIES.



PLANTING DETAIL - TYP
NOT TO SCALE

ALL EXISTING TREE W/ DBH > 8" ARE REPRESENTED ON PLAN



V:\CT\GALES FERRY\ROUTE 12, 1761\0451C2.06\LOCAL PERMIT FOR STEELING BUILDING\0451C2.06\LANDSCAPING PLAN.DWG Thu, 04/05/2023 12:18:08 PM by ESANNEB.Pinhel, 02/2023 1:12 PM

PZC PERMIT # _____	DATE OF APPROVAL _____	EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____	DATE _____	

SCALE: 1"=20'		DRAWING NO. 0451C2.06	
DATE: 04/05/2023		DATE: 04/06/2023	
DRAWN BY: ADP		APPROVED BY: SRM	
REVISIONS:		DESCRIPTION OF REVISION	
2	REV.	1	REV.
1	REV.	1	REV.
05/01/2023	SRM	04/06/2023	SRM
04/06/2023	SRM		APPR.

LANDSCAPING PLAN

GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335

GALES FERRY INTERMODAL LLC
383 SOUTH STREET, DANBURY, CT 06810

Loureiro
Water & Facility Services & Laboratory
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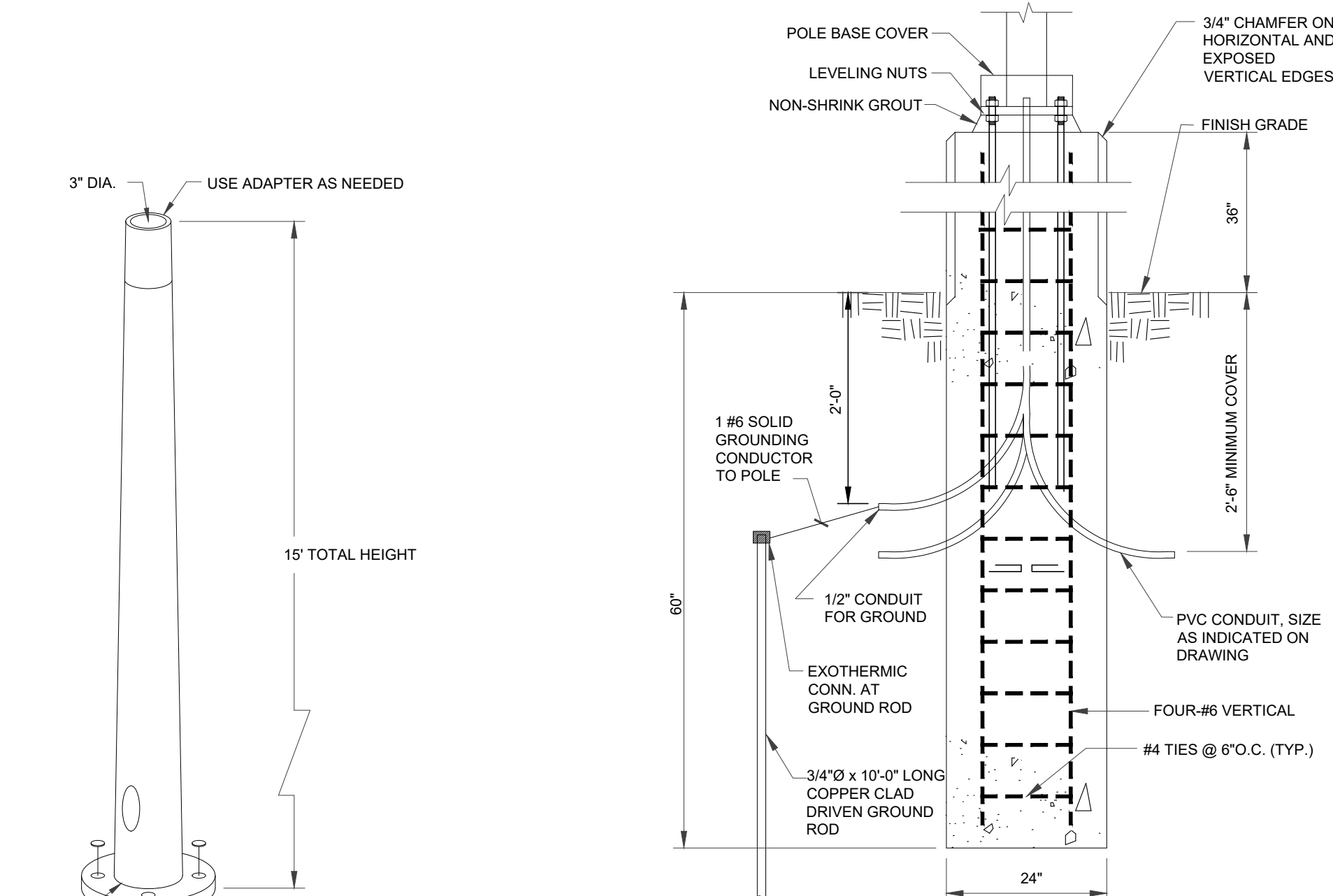
STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
No. 11628

SCALE IN FEET
0 10 20 30

PAGE NO. 12 OF 20 SHEETS

SCHEDULE									
SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	NUMBER LAMPS	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE
-	P3-TWX2	9	LITHONIA LIGHTING	TWX2 LED P3 40K	TWX2 LED WITH P3-PERFORMANCE PACKAGE, 4000K	1	5295	0.85	39.1538
∇	P2-T3M	11	LITHONIA LIGHTING	DSX1 LED P2 40K T3M MVOLT	DSX1 LED P2 40K T3M MVOLT	1	8641	0.85	70

STATISTICS						
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN	AVG/MIN
PARKING LOT	+	1.2 fc	7.6 fc	0.0 fc	N/A	N/A
PARKING LOT (BUILDING FRONT)	+	1.0 fc	5.2 fc	0.1 fc	52.0:1	10.0:1
PROPERTY LINE	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A

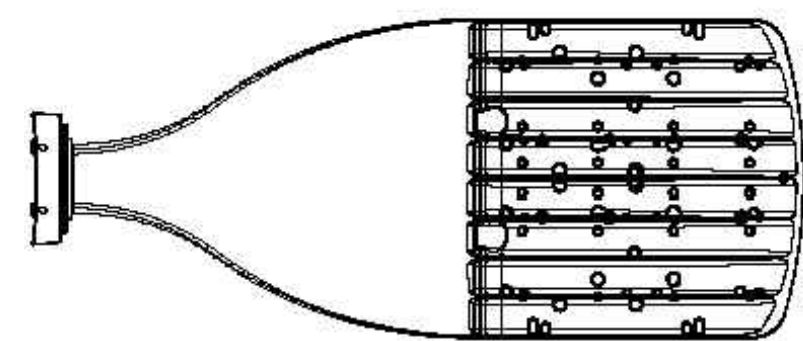


TAPERED ALUMINUM LUMINAIRE POLE

SCALE: NONE

LIGHT POLE BASE

SCALE: NONE



DSX1 with WBA

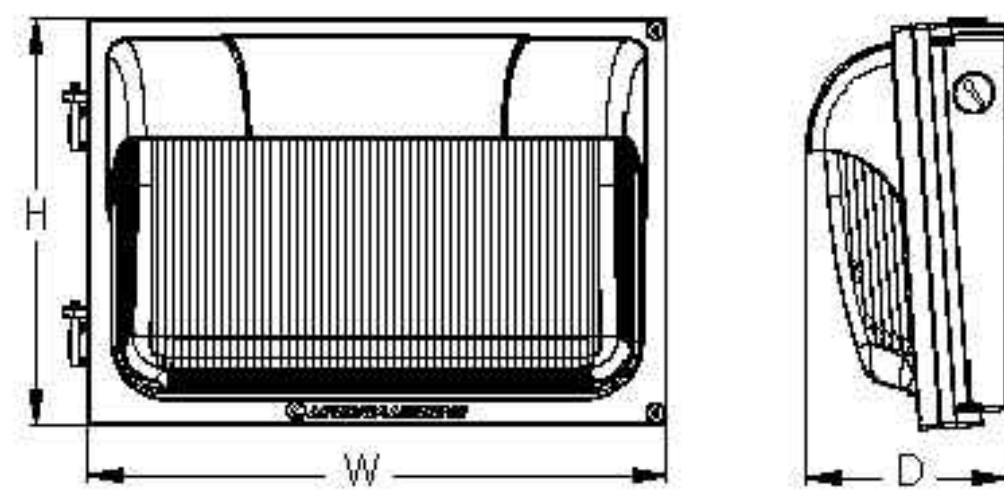
NOTES
LITHONIA LIGHTING, DSX1 LED WITH WBA, P2, 40K, T3M/TFTM, MVOLT, HS (POLE MOUNT).

POLE MOUNTED LIGHT

SCALE: NONE

TWX2:

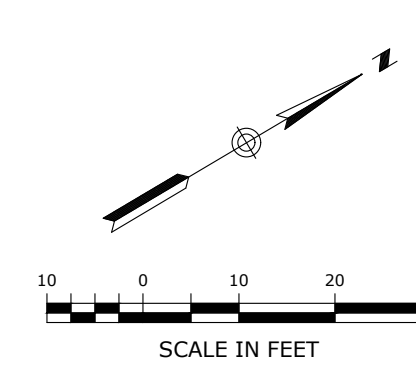
Width: 13.0"
Height: 9.0"
Depth: 4.5"
Weight: 11 lbs



NOTES
CONTRACTOR SELECT™ TWX2 LED ALU, ADJUSTABLE LIGHT OUTPUT WALPACK SHIELD LUMINAIRE TO BE COORDINATED IN SHOP DRAWING TO REFLECT PHOTOMETRIC DISTRIBUTION SHOWN.

WALL PACK LIGHT

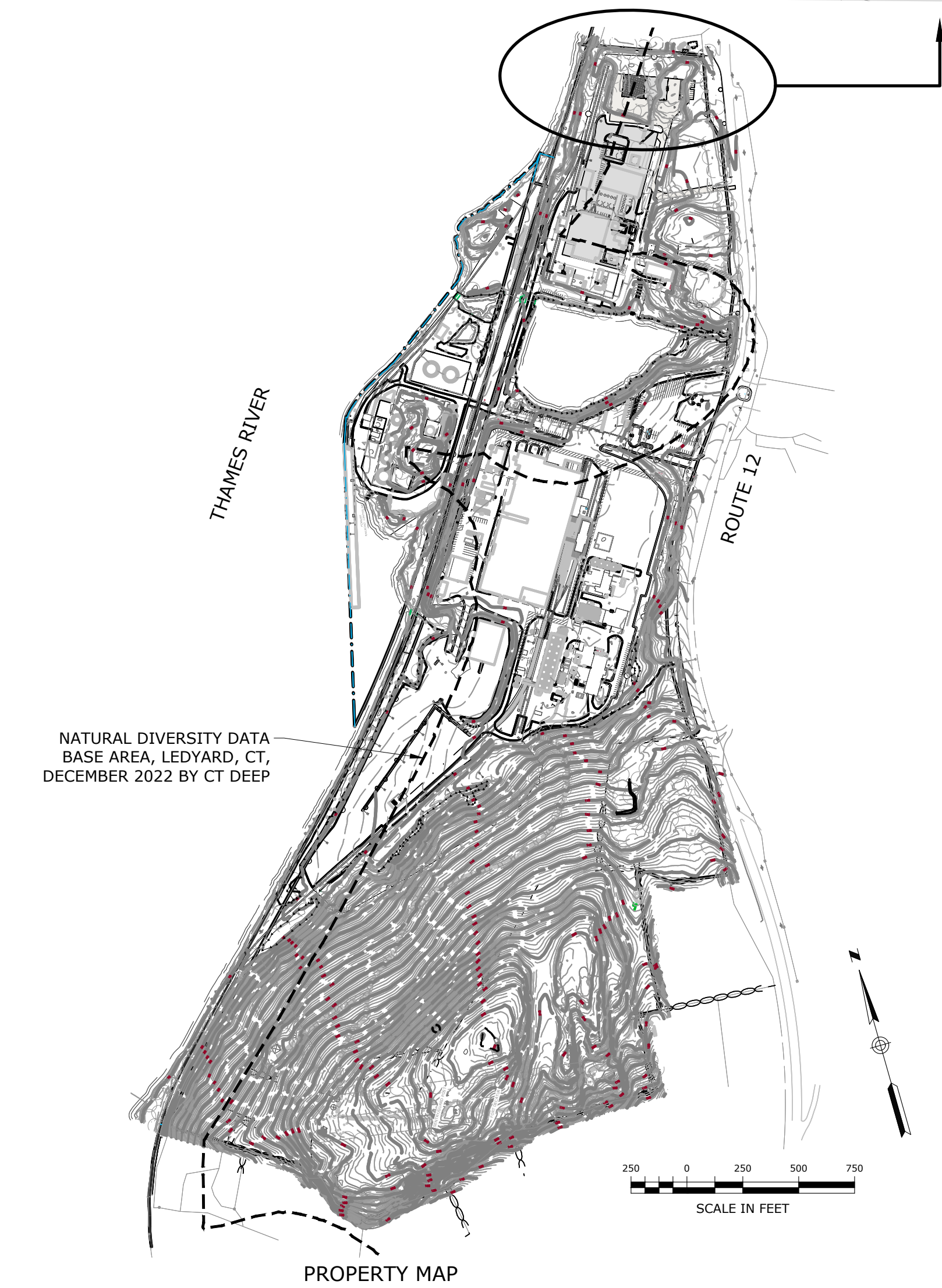
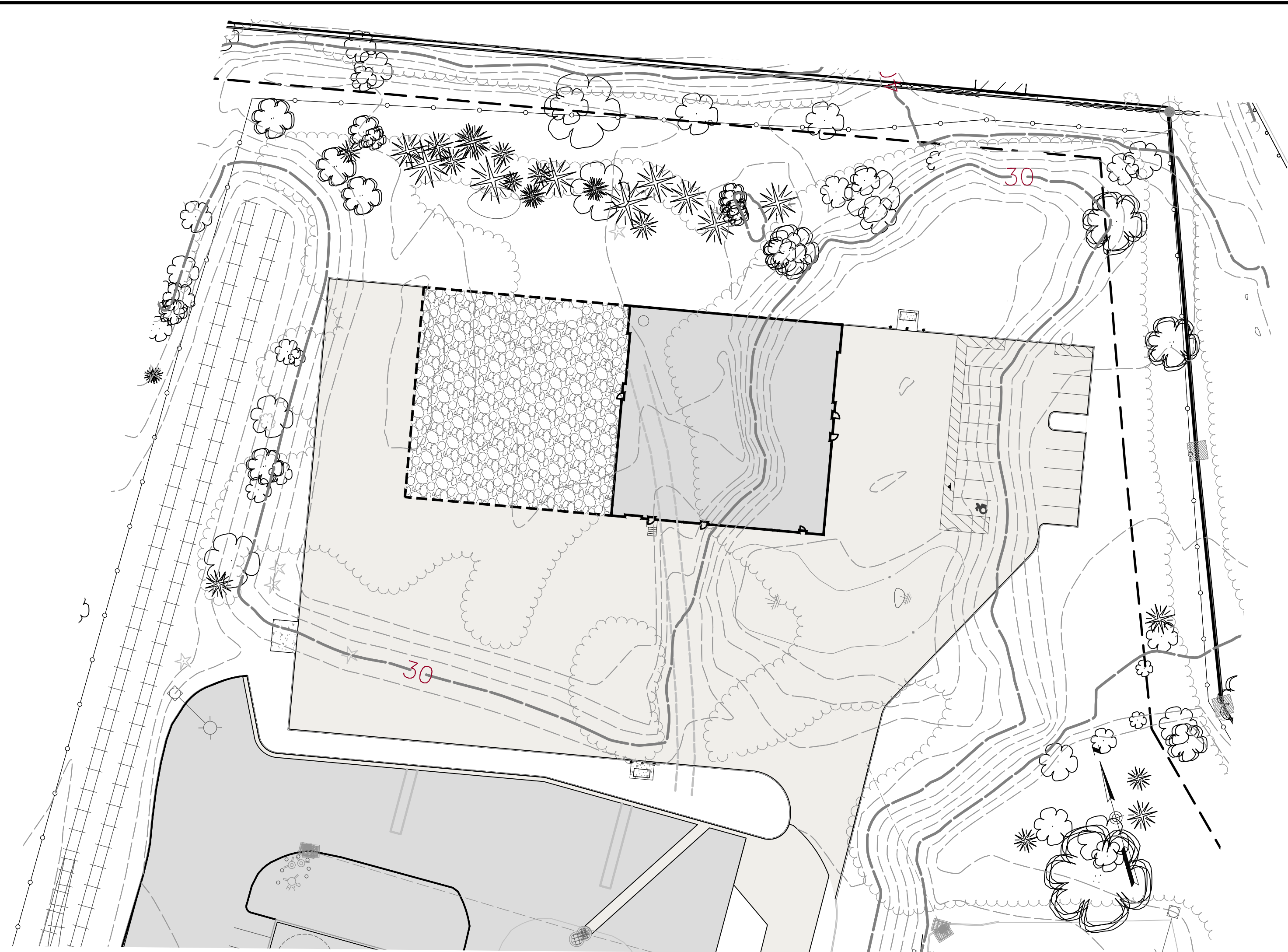
SCALE: NONE



PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____ DATE _____

V:\CT\GALES FERRY\ROUTE 12, STERLING BUILDING\PHOTOMETRIC AND LIGHTING PLAN\DWG\PHOTOMETRIC AND LIGHTING PLAN.dwg, 5/2/2023 8:16:48 AM by RESABARBE, RICHARD, 5/2/2023 1:11:34 PM

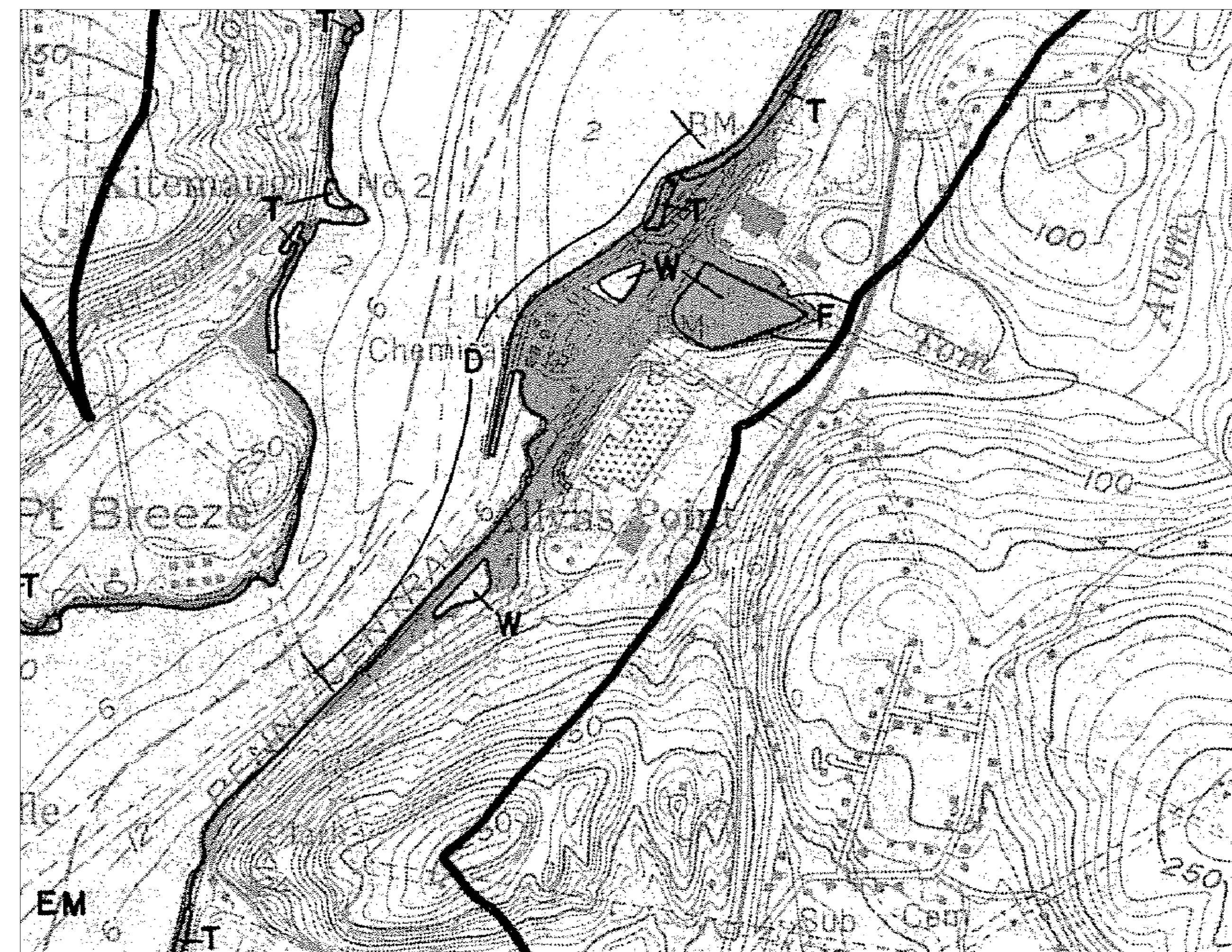
Loureiro Water & Facility Services • Laboratory Loureiro Engineering Associates, Inc. 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 Phone: 860-747-0111 Fax: 860-747-8827 An Employee Owned Company • www.loureiro.com © Loureiro Engineering Associates, Inc. All Rights Reserved 2023	
SCALE 1" = 20' DRAWING NO. 0451C2.06	DATE 04/06/2023 DRAWN BY ESP APPROVED BY SRM
PHOTOMETRIC AND LIGHTING PLAN GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 GALES FERRY INTERMODAL LLC 389 SOUTH STREET, DANBURY, CT 06810	
SHEET NO. 13 NO. OF SHEETS 20 DATE 04/06/2023 REV. 1 DESCRIPTION OF REVISION REVISED PER UPDATED LAYOUT REVISED PER UPDATED LAYOUT	



V:\CT\GALES FERRY\ROUTE 12\1761\0451C2.06\LOCAL PERMIT FOR STEELING BUILDING\CONSTRUCTION\COASTAL AREA MANAGEMENT PLAN\SCALE 5/2/2023 11:22 AM by RESOURCES_Routing_5/2/2023 11:31 AM

COASTAL RESOURCES

1. D- DEVELOPED SHOREFRONT: PORT AND HARBOR AREAS WHICH HAVE BEEN HIGHLY ENGINEERED AND DEVELOPED RESULTING IN THE FUNCTIONAL IMPAIRMENT OR SUBSTANTIAL ALTERATION OF THEIR NATURAL PHYSIOGRAPHIC FEATURES OR SYSTEMS.
2. W- WATER: OPEN WATER BODIES SUCH AS BUT NOT LIMITED TO LAKES AND PONDS SUBJECT TO REGULATION UNDER SECTIONS 22A-36 TO 22A-45 OF THE CONNECTICUT GENERAL STATUTES.
3. T - REGULATED TIDAL WETLANDS: OFFICIAL STATE DESIGNATED AND REGULATED TIDAL WETLANDS LOCATED WITHIN THE COASTAL BOUNDARY. THE AREAS DEPICTED ON THIS MAP SHALL IN NO WAY SUPERSEDE THE OFFICIAL STATE REGULATED TIDAL WETLAND MAPS AT THE SCALE OF 1:2400.
4. COASTAL 'FLOOD' HAZARD AREA: 100 YEAR COASTAL FLOOD HAZARD AREA AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). ON THOSE COASTAL ISLANDS CURRENTLY UNMAPPED BY FEMA, THE FLOOD HAZARD AREA IS CONSERVATIVELY APPROXIMATED BY THE 10' CONTOUR INTERVAL.
5. EM - ESTUARINE EMBAYMENTS: PROTECTED COASTAL WATER BODIES WITH AN OPEN CONNECTION TO THE SOUND INCLUDING TIDAL RIVERS, BAYS, COVES AND LAGOONS.
6. SHORELANDS: UPLAND AREAS AT ELEVATIONS IN EXCESS OF THE 100 YEAR STILL WATER FLOOD LEVEL AND LOCATED WITHIN THE COASTAL BOUNDARY.

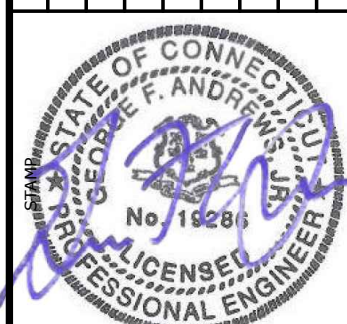


COASTAL RESOURCES

1979. PREPARED BY COASTAL AREA MANAGEMENT PROGRAM, CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

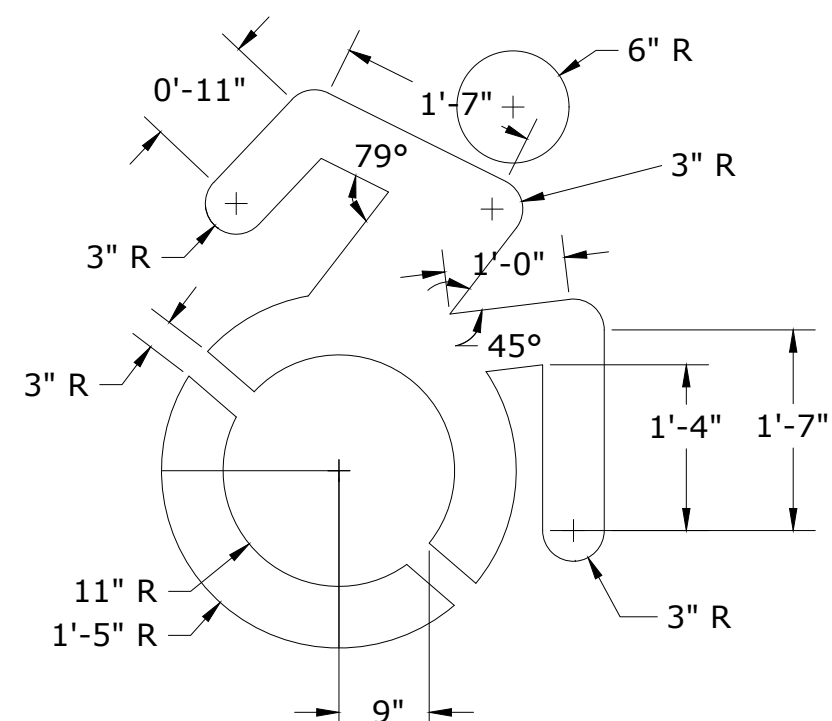
PZC PERMIT # _____	DATE OF APPROVAL _____	EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____	DATE _____	

COASTAL AREA MANAGEMENT PLAN		SCALE AS NOTED DRAWING NO. 0451C2.06	DATE 04/06/2023
GALES FERRY INTERMODAL 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335		DATE 04/06/2023	
GALES FERRY INTERMODAL, LLC 389 SOUTH STREET, GAITHERSBURG, MD 20878		DATE 04/06/2023	
DRAWING C-11		NO. OF SHEETS 14	
SHEET NO. 14		NO. OF SHEETS 20	



Loureiro
Water & Facility Services • Laboratory
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Loureiro Engineering Associates, Inc.
1000 Main Street, Suite 200
Gales Ferry, CT 06335
Tel: 860-747-0181 • Fax: 860-747-8827
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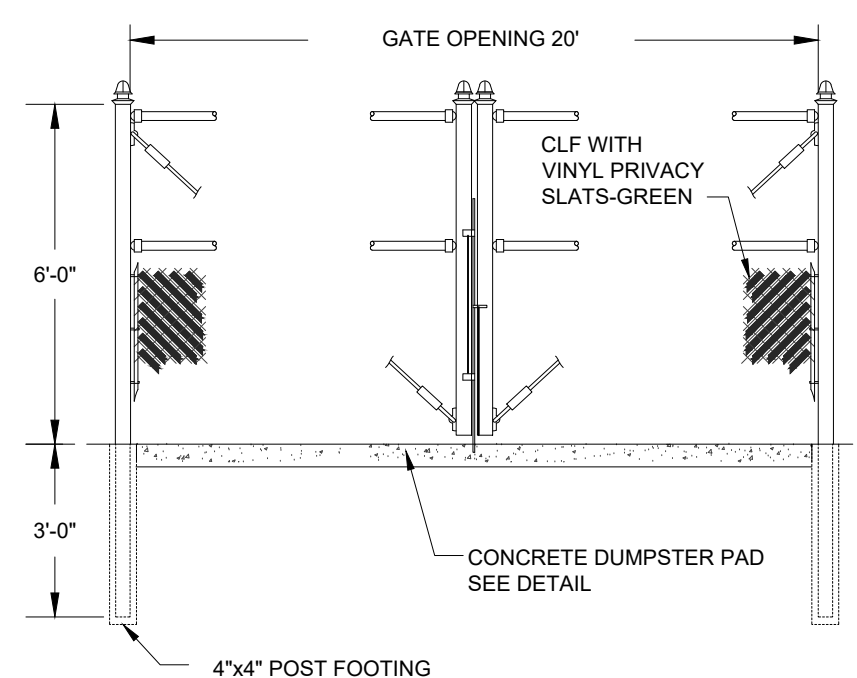
REV.	DESCRIPTION OF REVISION	DATE
2	REVISED PER UPDATED LAYOUT	05/01/2023
1	REVISED PER UPDATED LAYOUT	04/06/2023



DYNAMIC ACCESSIBILITY PARKING SYMBOL®
SCALE: NONE

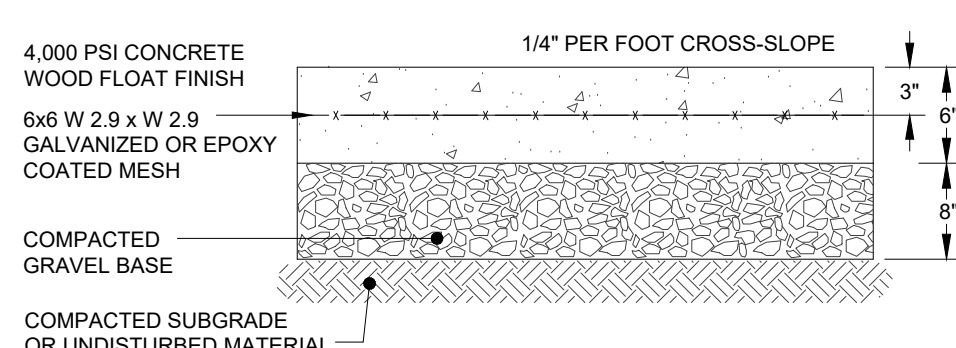


SIGN DETAIL
SCALE: NONE



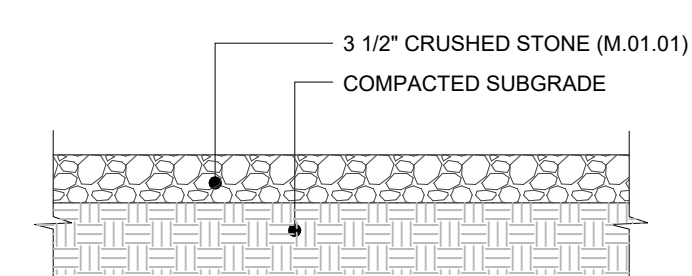
DUMPSTER ENCLOSURE DETAIL
SCALE: NONE

NOTES:
1. DUMPSTER ENCLOSURE TO BE EQUIPPED WITH VINYL PRIVACY SLATS - GREEN, ALL SIDES.
2. REFER TO CHAIN LINK FENCE DETAIL FOR ADDITIONAL DETAILS.
3. DEPTH OF THE ENCLOSURE IS 8'.



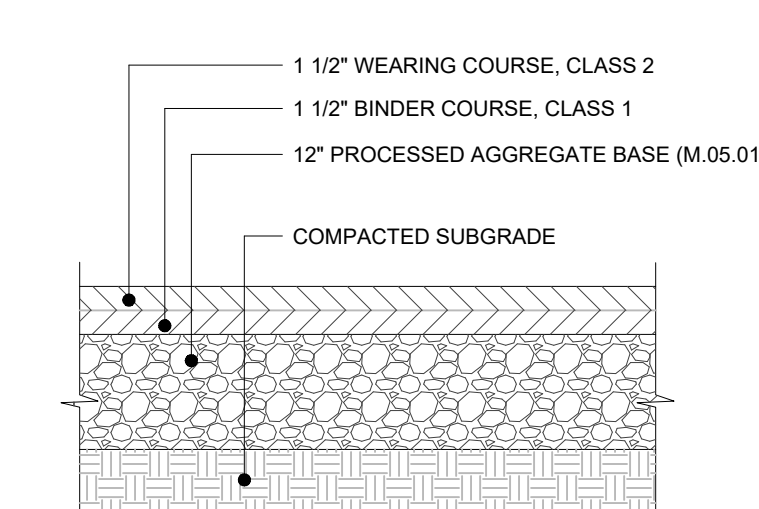
CONCRETE DUMPSTER PAD DETAIL
SCALE: NONE

NOTE:
SEE PLAN FOR LOCATION AND SIZE OF PAD.

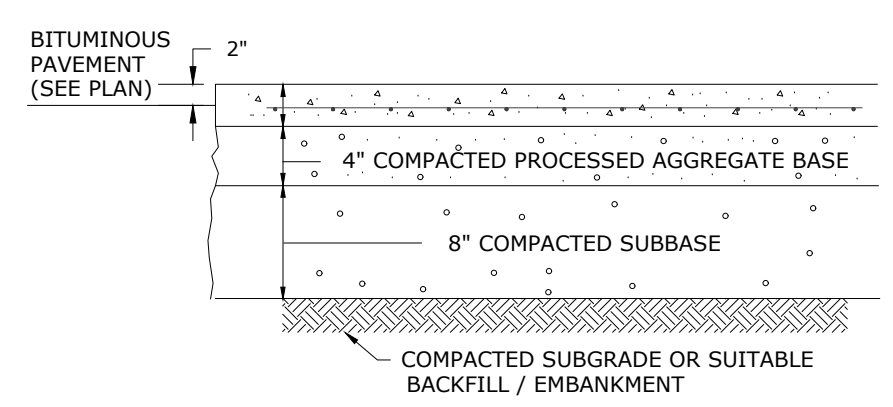


GRAVEL SURFACE X-SECTION
SCALE: NONE

NOTES:
1. CRUSHED STONE SHALL CONSIST OF WASHED NO. 6 STONE AND SHALL BE IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION SECTION M.01.01.
2. ALL COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.

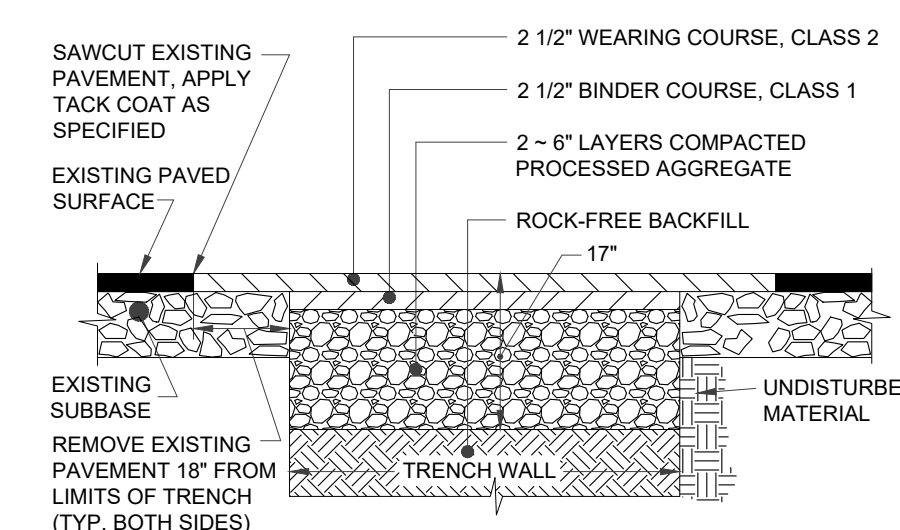


BITUMINOUS CONCRETE PAVING
SCALE: NONE



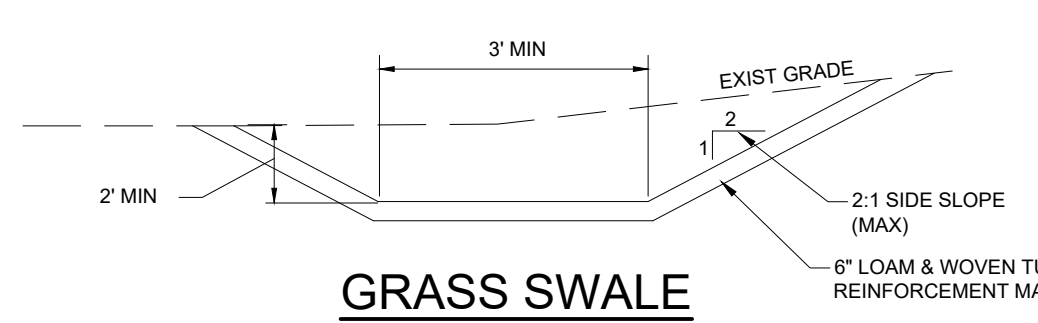
CONCRETE PAD
SCALE: NONE

NOTES:
1. ALL COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.
2. CONCRETE TO BE 3500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.



PAVEMENT REPLACEMENT DETAIL
SCALE: NONE

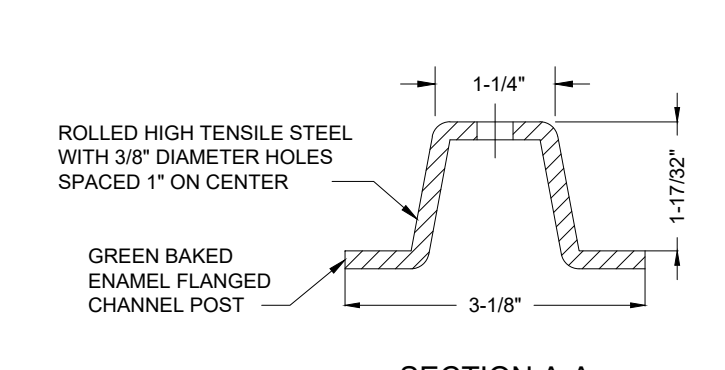
NOTES:
1. SAWCUT EXISTING PAVEMENT, APPLY TACK COAT AS SPECIFIED.
2. REMOVE EXISTING PAVEMENT 18" FROM LIMITS OF TRENCH (TYP. BOTH SIDES).



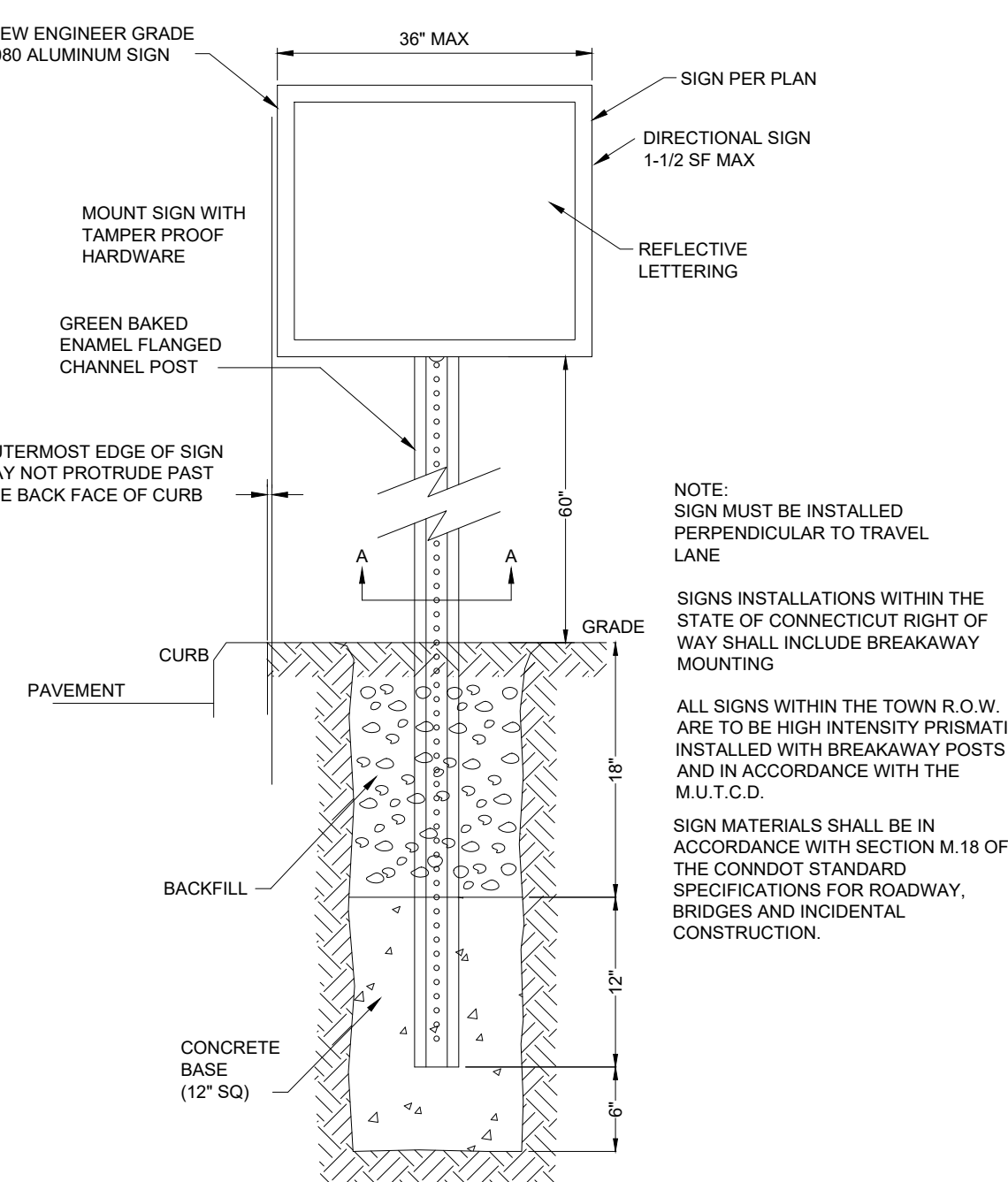
GRASS SWALE
SCALE: NONE



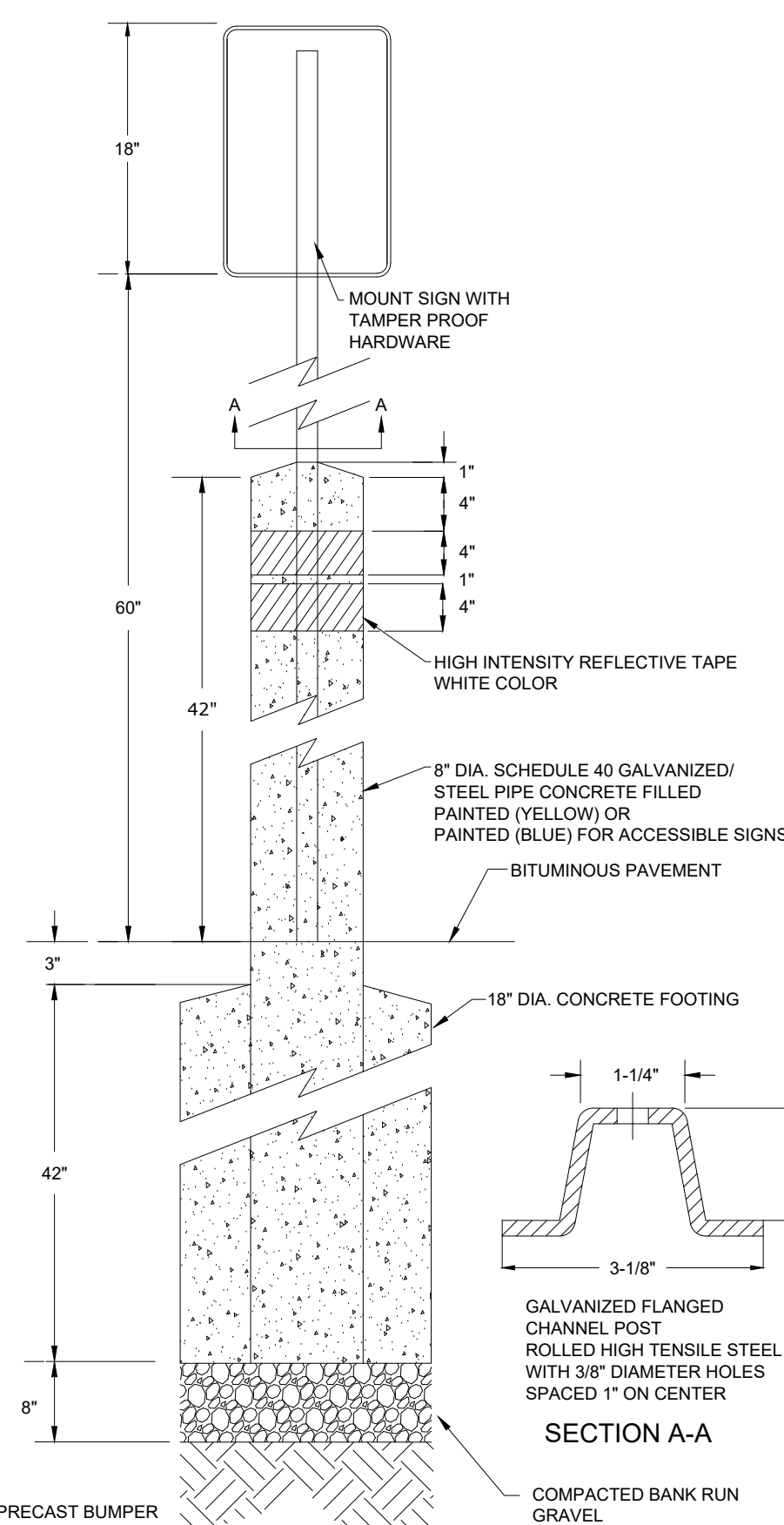
GAS CYLINDER STORAGE LOCKER
SCALE: NONE



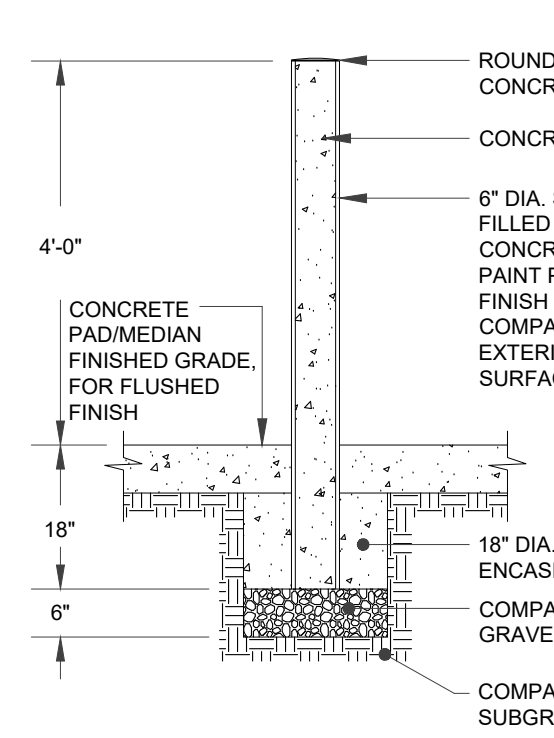
SECTION A-A



SIGN POST
SCALE: NONE



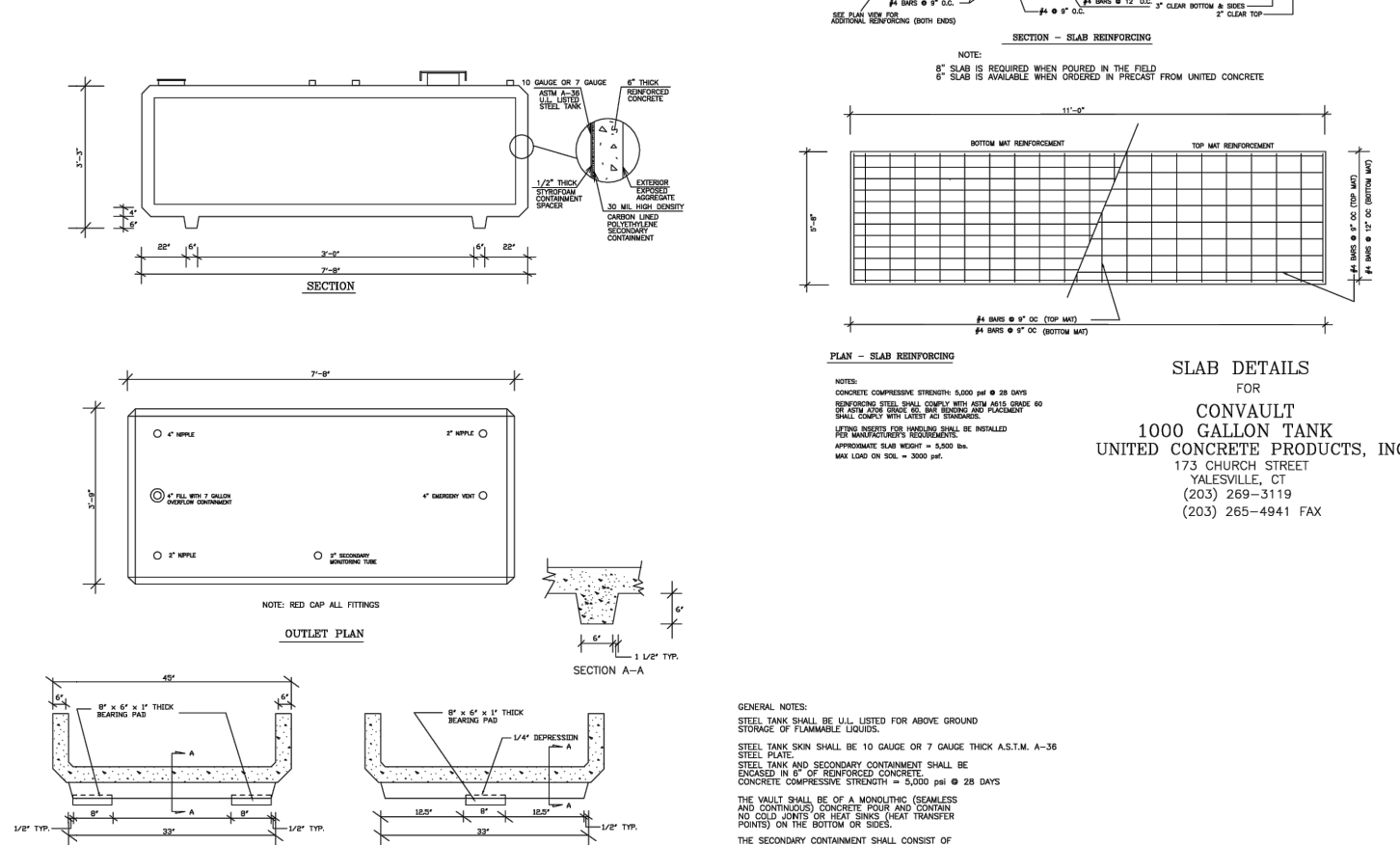
BOLLARD MOUNTED SIGNAGE
SCALE: NONE



STEEL BOLLARD
SCALE: NONE

NOTE: CONCRETE: ACI301, 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS

NOTES:
1. ALLOWABLE DESIGN STRESSES: CLASS "A" CONCRETE BASED ON $f'_c = 3000$ psi. REINFORCEMENT: (ASTM A 615 GRADE 60) $f_s = 24000$ psi.
2. REINFORCEMENT COVER: ALL STEM REINFORCEMENT SHALL HAVE 2" COVER UNLESS OTHERWISE NOTED. ALL FOOTING REINFORCEMENT SHALL HAVE 3" COVER.
3. AFTER EXCAVATION CONTRACTOR SHOULD NOTIFY THE ENGINEER FOR THE INSPECTION OF THE EXISTING SOIL.
4. ALL REINFORCEMENT IN THE STEM, INCLUDING THE FOOTING DOWELS, SHALL BE EPOXY COATED.



1,000 GAL DIESEL STORAGE TANK
SCALE: NONE

PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____ DATE _____

SITE DETAILS 1

GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
GALES FERRY INTERMODAL LLC
359 SOUTH STREET, DANBURY, CT 06810

SCALE: NOT TO SCALE
DRAWN BY: ESP
DATE: 04/06/2023

CONTRACT NO. 0451C2.06
DATE: 04/06/2023

APPROVED BY: SRM
DATE: 04/06/2023

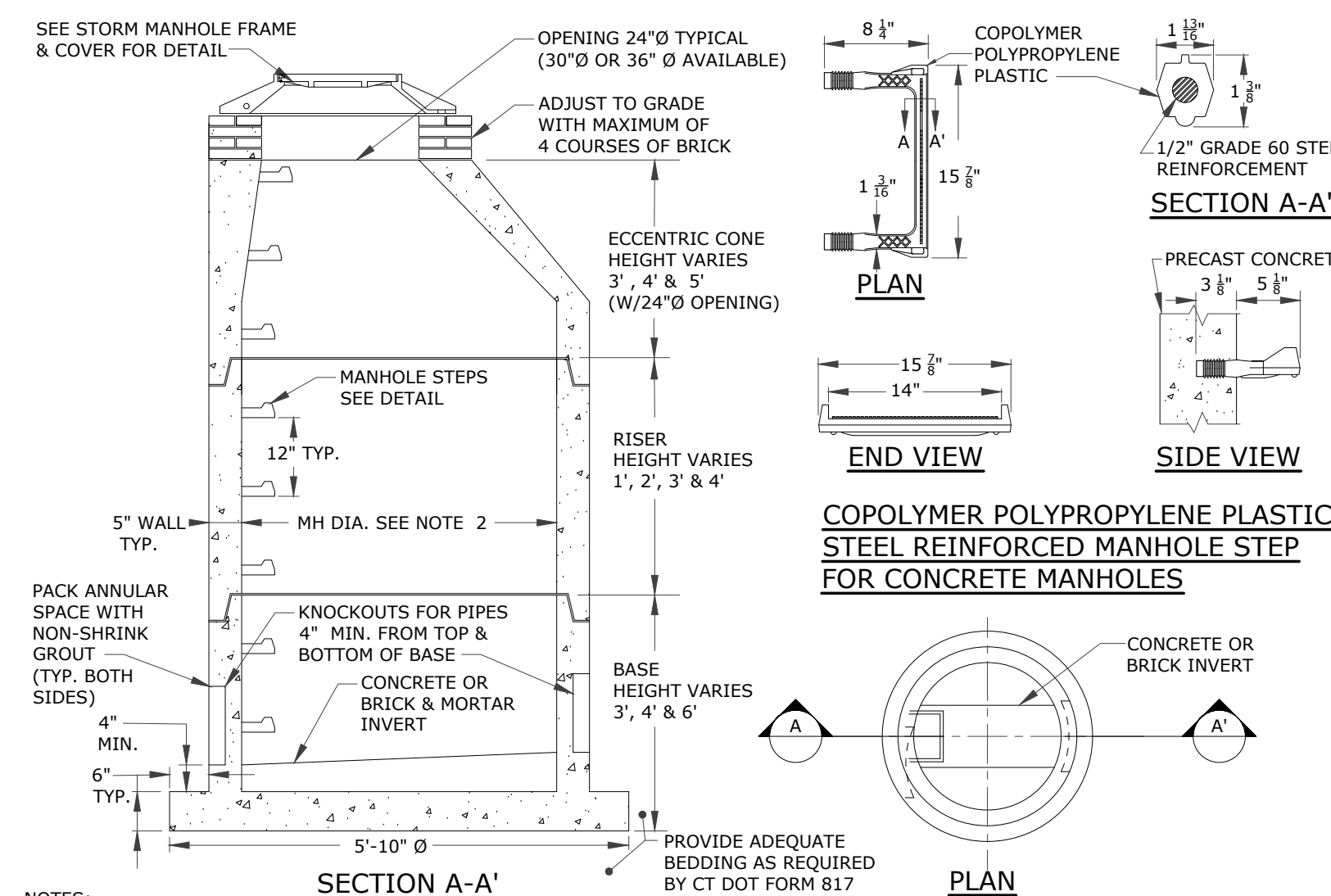
REVISIONS:
1. REV. DESCRIPTION OF REVISION
2. REV. REVISION PER UPDATED LAYOUT
3. REV. REVISION PER UPDATED LAYOUT
4. REV. REVISION PER UPDATED LAYOUT

DESIGNED BY: SRM
DATE: 05/01/2023
CHECKED BY: SRM
DATE: 04/06/2023
APPROVED BY: SRM
DATE: 04/06/2023

PROFESSIONAL ENGINEER
LOUREIRO ENGINEERING ASSOCIATES, INC.
1000 GALLON TANK
UNITED CONCRETE PRODUCTS, INC.
172 CHURCH STREET
MILBRIDGE, CT
(203) 265-3119
(203) 265-6941 FAX

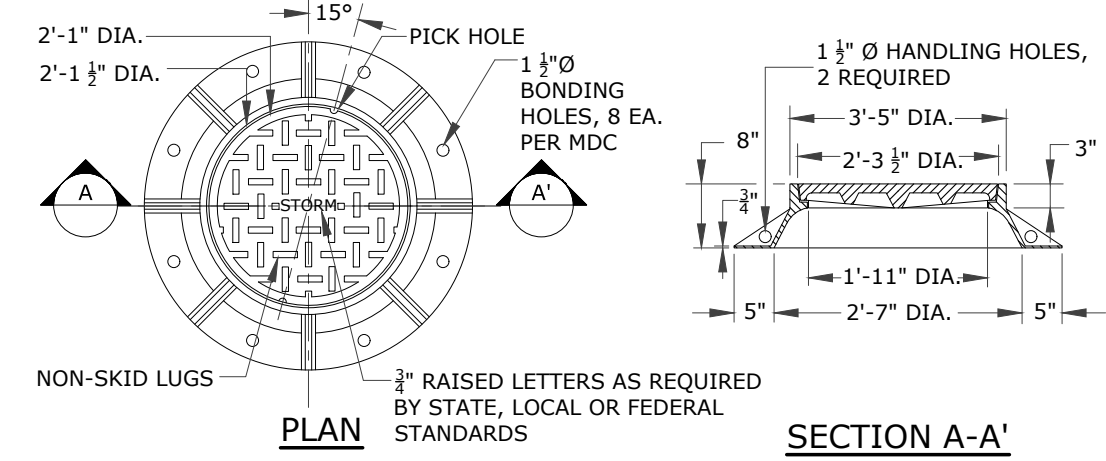
NO. OF SHEETS: 20
SHEET NO.: 15

DRAWING: **C-12**



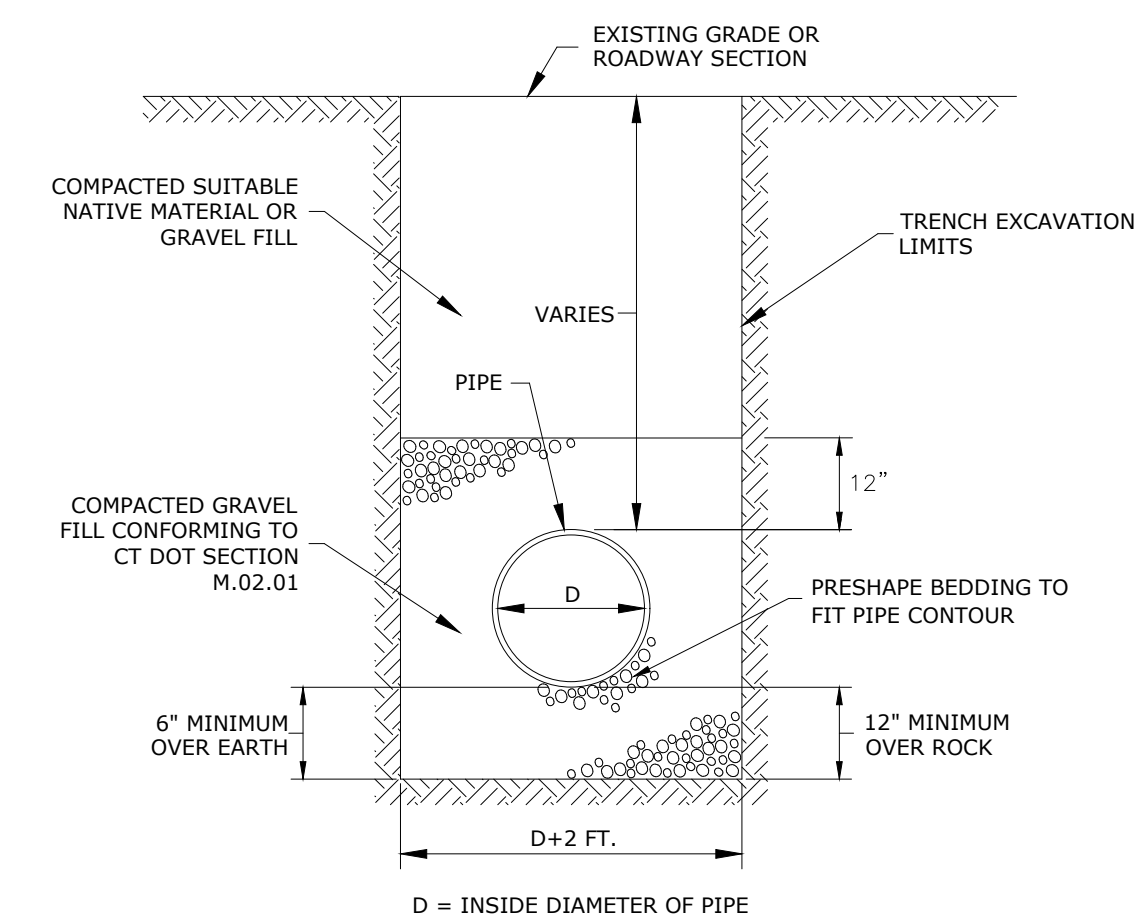
- NOTES:**
1. PRECAST CONCRETE MANHOLE COMPONENTS SHALL CONFORM TO CTDOT STANDARD SHEET HW-507.10 AS AMENDED.
 2. 4", 5" OR 6" PRECAST CONCRETE BASE DIAMETERS MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5" AND 6" BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS SHALL INCREASE 1" FOR EACH 1" OF INSIDE DIAMETER INCREASE.
 3. JOINT SEALANT SHALL BE BUTYL RUBBER MASTIC TYPE SEAL THAT CONFORMS TO LATEST AASHTO SPECIFICATION M-198 & MEETS FEDERAL SPECIFICATION SS-5-0021(210-A).
 4. REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CTDOT STANDARDS & SUPPLEMENTAL AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
 5. ALL PIPE OPENINGS SHALL BE CLOSED USING MATERIALS WHICH CONFORM TO STATE OF CT STANDARD SPECIFICATIONS SECTION M.08.02.
 6. REINFORCING STEEL WELDED WIRE FABRIC SHALL CONFORM TO LATEST ASTM SPECIFICATION A185.
 7. CONCRETE COMPRESSIVE STRENGTH SHALL BE MINIMUM 4000 PSI AT 28 DAYS, SELF COMPACTING CONCRETE MIX.
 8. MANHOLE STEPS SHALL MEET LATEST OSHA REGULATIONS, (29 CFR 1910.27), SECTION 16 OF ASTM SPECIFICATION C478 AND SECTION 10 OF ASTM SPECIFICATION C497.
 9. WHEN SPECIFIED, MANHOLES ARE TO BE COATED WITH BAY OIL, "EBONY".
 10. METHOD OF MANUFACTURE SHALL BE WET CAST.
 11. BASE SECTION IS MONOLITHIC.
 12. MANHOLE INTERIOR DIAMETER:
 - 4'-0" FOR 8" TO 36" PIPE DIAMETERS
 - 5'-0" FOR 42" PIPE DIAMETER
 - 6'-0" FOR 48" PIPE DIAMETER.

STANDARD PRECAST CONCRETE STORM MANHOLE DETAIL
SCALE: NONE

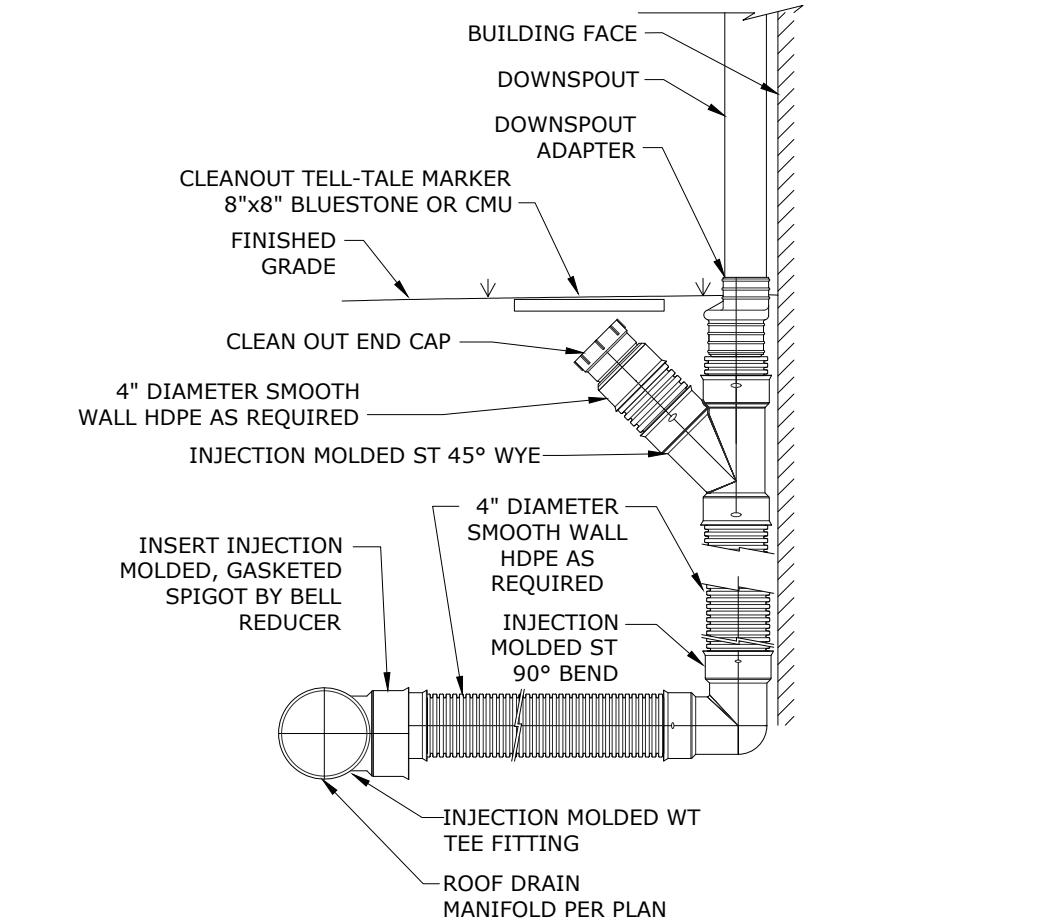


- NOTES:**
1. STORM MANHOLE FRAMES AND COVERS SHALL CONFORM TO CTDOT FORM 817 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507.10, AS AMENDED.
 2. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY, UNLESS OTHERWISE DIRECTED.
 3. A FRAME OF 3'-3" WITH 4" FLANGE SHALL BE USED WHEN THE TOP DIAMETER OF A PRECAST CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
 4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

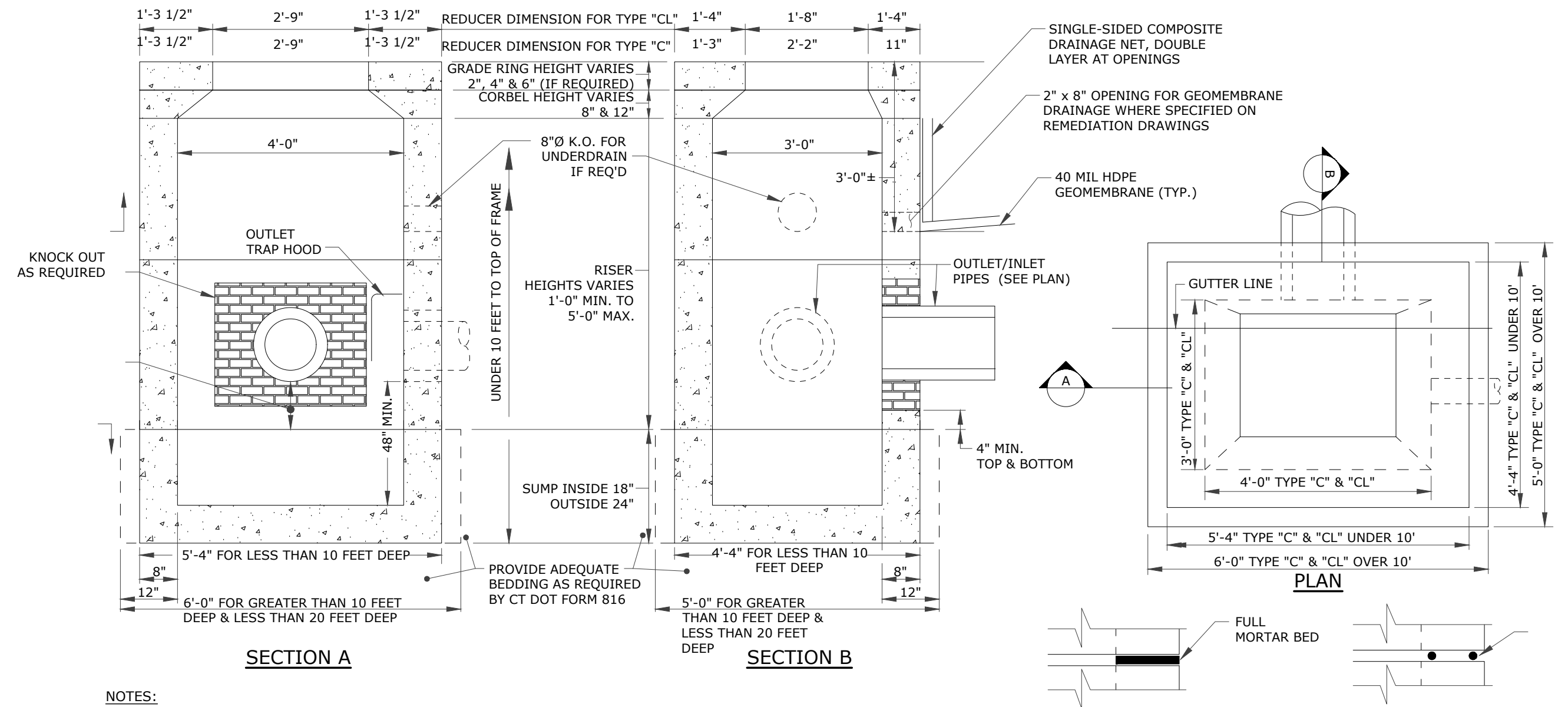
STORM MANHOLE FRAME & COVER DETAIL
SCALE: NONE



STORM DRAIN TRENCH
SCALE: NONE

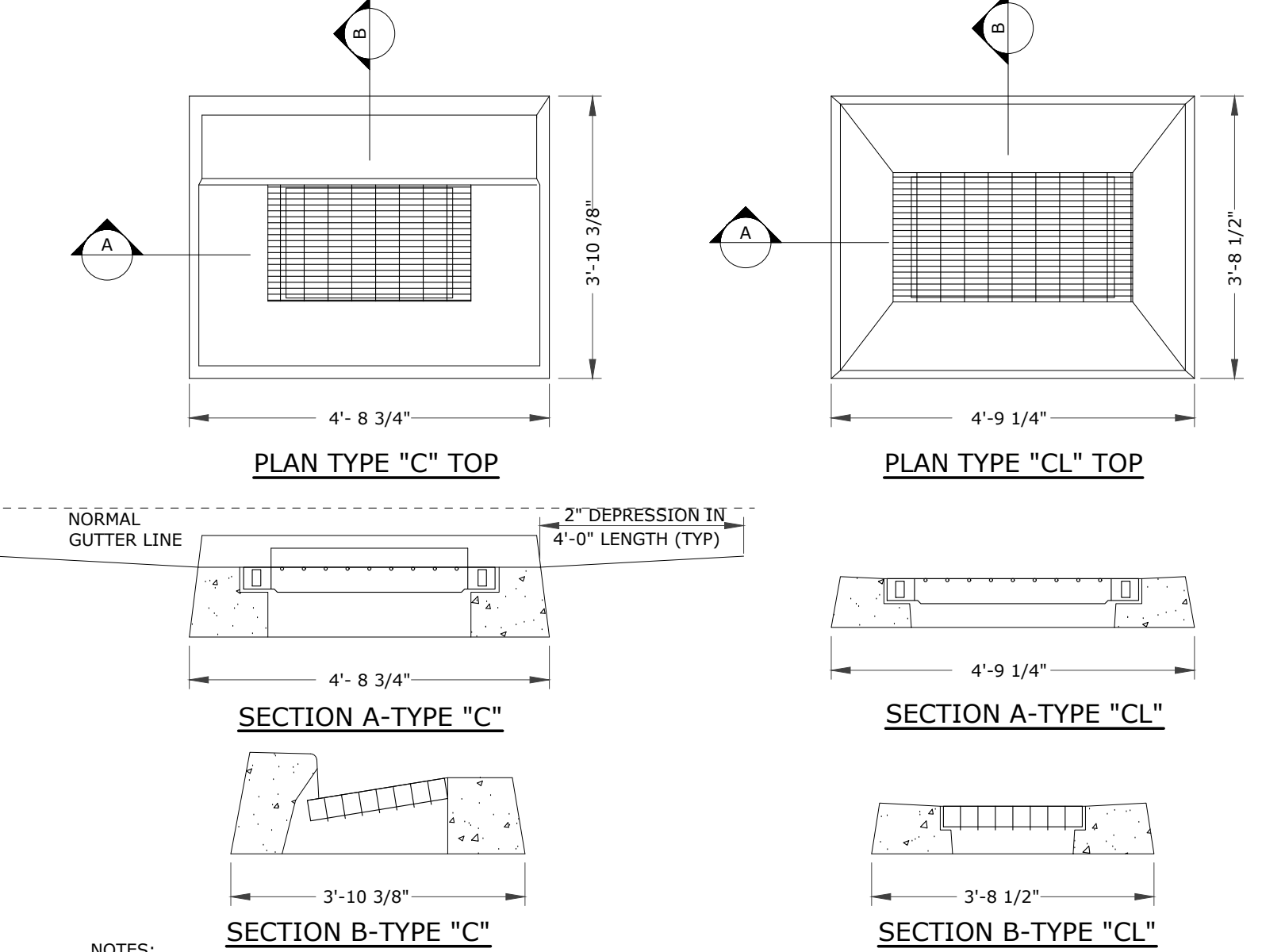


ROOF DRAIN DOWNSPOUT CONNECTION
SCALE: NONE



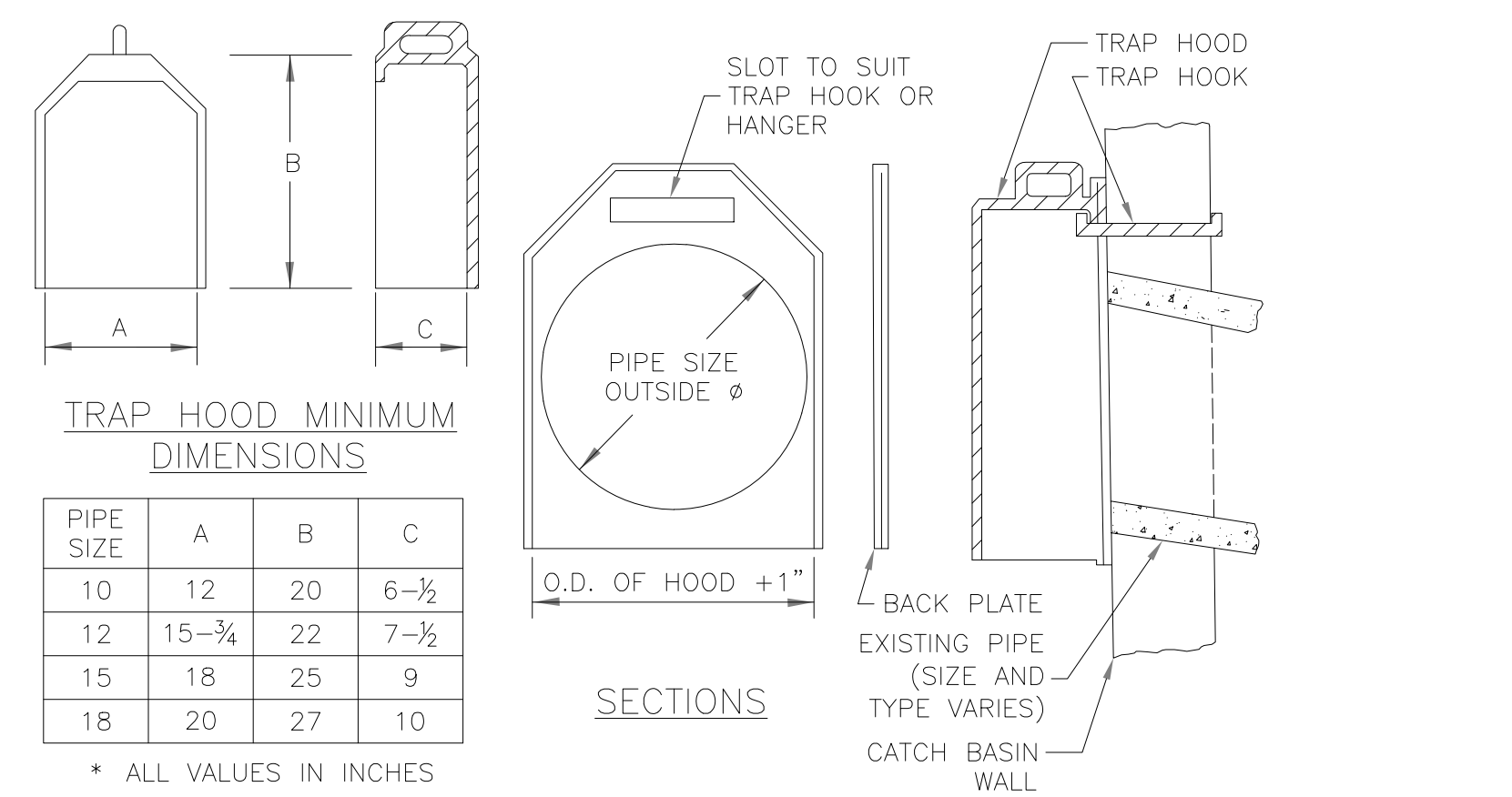
- NOTES:**
1. PRECAST CONCRETE CATCH BASIN COMPONENTS SHALL CONFORM TO CTDOT FORM 816 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CTDOT HIGHWAY STANDARD SHEETS HW-507.04, AS AMENDED. THIS DETAIL IS BASED ON CTDOT PRECAST CONCRETE TYPE "C" & "CL" CATCH BASIN COMPONENTS, (UNDER 10' DEEP SHOWN).
 2. REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CTDOT STANDARDS & SUPPLEMENTAL AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
 3. SUMP SECTION SHALL BE MONOLITHIC.
 4. METHOD OF MANUFACTURE SHALL BE WET CAST.
 5. DESIGN LOAD SHALL BE AASHTO H-20.

TYPE "C" & "C-L" PRECAST CONCRETE CATCH BASIN DETAIL
SCALE: NONE



- NOTES:**
1. CATCH BASIN TOPS, CURBS AND GRATE COMPONENTS SHALL CONFORM TO CTDOT FORM 816 STANDARD SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CTDOT HIGHWAY STANDARD SHEETS HW-507.07 AND HW-507.08, AS AMENDED.
 2. REINFORCING STEEL DEFORMED BARS ARE NOT SHOWN AND SHALL CONFORM TO LATEST CTDOT STANDARDS & SUPPLEMENTAL AND ASTM SPECIFICATION A615, GRADE 60, MINIMUM COVER 2" UNLESS OTHERWISE NOTED.
 3. ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT STANDARD SPECIFICATIONS.
 4. TYPE "C" CATCH BASIN DEPRESSIONED GUTTER STRIPS SHALL CONFORM TO CTDOT STANDARD SHEET HW-507.01, APPROVED 07-21-2013.

TYPE "C" & "C-L" CATCH BASIN TOP DETAILS
SCALE: NONE



- NOTES:**
1. TRAP HOODS SHALL BE CAST IRON FOR 10", 12", 15" AND 18" PIPE SIZES AND FABRICATED ALUMINUM FOR 21" OR GREATER.
 2. ALL TRAP HOODS SHALL INCLUDE STAINLESS STEEL HOOKS OR HANGERS FOR MOUNTING TO THE CATCH BASIN WALL. BACK PLATES SHALL BE FURNISHED ONLY WHEN REQUESTED.
 3. TRAP HOODS SHALL BE FROM CAMPBELL FOUNDRY, NEEHAW FOUNDRY, EAST JORDAN IRON WORKS OR APPROVED EQUAL. DIMENSIONS AND MODEL NUMBERS VARY BASED ON DISCHARGE PIPE SIZE AND MANUFACTURER.
 4. SEE MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

CATCH BASIN TRAP HOOD
SCALE: NONE

GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
389 SOUTH STREET, DANBURY, CT 06810
389 SOUTH STREET, DANBURY, CT 06810

LOUREIRO
Water & Facility Services & Laboratory
Professional Engineer License No. 10285

STATE OF CONNECTICUT
Professional Engineer License No. 10285

NOT TO SCALE
DRAWN BY: ESP
CHECKED BY: SRM
DATE: 04/06/2023
DATE: 04/06/2023

SCALE: NONE

REVISIONS:

NO.	DESCRIPTION OF REVISION	DATE
1	REVISED PER UPDATED LAYOUT	05/01/2023
2	REVISED PER UPDATED LAYOUT	04/06/2023

PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____ DATE _____

SHEET NO. 16 NO. OF SHEETS 20

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C:\BERRSCHLACHER\WORK\PROJECTS\DETAILS\10-MICRON\SEPARATION\CONCRETE\DETAILS\10-C\DETAILS\10-C.DWG 5/19/2023 11:38 AM

C:\BERRSCHLACHER\WORK\PROJECTS\DETAILS\10-MICRON\SEPARATION\CONCRETE\DETAILS\10-C\DETAILS\10-C.DWG 5/19/2023 11:38 AM

CDS4045-8-C DESIGN NOTES

THE STANDARD CDS4045-8-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION	
GRATED INLET ONLY (NO INLET PIPE)	
GRATED INLET WITH INLET PIPE OR PIPES	
CURB INLET ONLY (NO INLET PIPE)	
CURB INLET WITH INLET PIPE OR PIPES	
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)	
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS	

PLAN VIEW B-B
N.T.S.

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/s)	*
PEAK FLOW RATE (CFS OR L/s)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
SCREEN APERTURE (2400 OR 4700)	*
PIPE DATA:	
INLET PIPE 1	I.E. MATERIAL DIAMETER
INLET PIPE 2	*
OUTLET PIPE	*
RIM ELEVATION	*
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	*

* PER ENGINEER OF RECORD

ELEVATION A-A
N.T.S.

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO M 306 AND CASTINGS SHALL MEET M 306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS4045-8-C
INLINE CDS
STANDARD DETAIL

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45099
800-338-1122 513-645-7000 513-645-7993 FAX

CDS5653-10-C DESIGN NOTES

THE STANDARD CDS5653-10-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

CONFIGURATION DESCRIPTION	
GRATED INLET ONLY (NO INLET PIPE)	
GRATED INLET WITH INLET PIPE OR PIPES	
CURB INLET ONLY (NO INLET PIPE)	
CURB INLET WITH INLET PIPE OR PIPES	
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)	
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS	

PLAN VIEW B-B
N.T.S.

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/s)	*
PEAK FLOW RATE (CFS OR L/s)	*
RETURN PERIOD OF PEAK FLOW (YRS)	*
SCREEN APERTURE (2400 OR 4700)	*
PIPE DATA:	
INLET PIPE 1	I.E. MATERIAL DIAMETER
INLET PIPE 2	*
OUTLET PIPE	*
RIM ELEVATION	*
ANTI-FLOTATION BALLAST	WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:	*

* PER ENGINEER OF RECORD

ELEVATION A-A
N.T.S.

GENERAL NOTES

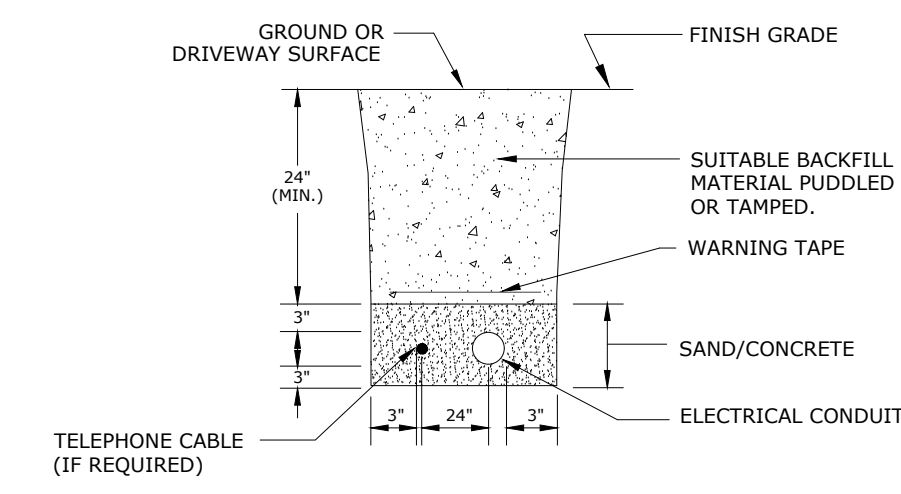
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO M 306 AND CASTINGS SHALL MEET M 306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET H320 (AASHTO M 306) AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

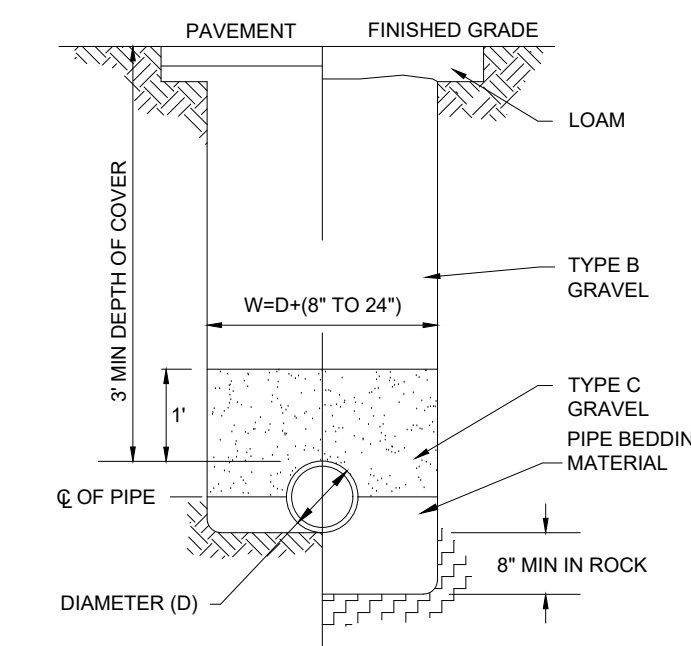
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CDS5653-10-C
INLINE CDS
STANDARD DETAIL

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45099
800-338-1122 513-645-7000 513-645-7993 FAX



NOTE: NUMBER AND TYPE OF CONDUITS VARY
ELECTRICAL LINE TRENCH
SCALE: NONE



WATER LINE TRENCH
SCALE: NONE

DATE	05/01/2023	SRM	04/06/2023	SRM	04/06/2023	SRM	04/06/2023	SRM	04/06/2023
REVISED PER UPDATED LAYOUT	2	REVISED PER UPDATED LAYOUT	1	REVISED PER UPDATED LAYOUT	1	REVISED PER UPDATED LAYOUT	1	REVISED PER UPDATED LAYOUT	1
DESCRIPTION OF REVISION	REV.	DESCRIPTION OF REVISION	REV.	DESCRIPTION OF REVISION	REV.	DESCRIPTION OF REVISION	REV.	DESCRIPTION OF REVISION	REV.

Loureiro
Water & Utility Services • Laboratory
Engineering • Construction • EPC • Energy

Loureiro Engineering Associates, Inc.
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
Tel: 860-747-6100 • Fax: 860-747-8827
An Employee Owned Company • www.loureiro.com
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SCALE	NOT TO SCALE
CONTRACT NO.	0451C2.06
DRAWN BY	ESF
DATE	04/06/2023
APPROVED BY	SRM
DATE	04/06/2023

SITE DETAILS 3

GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335

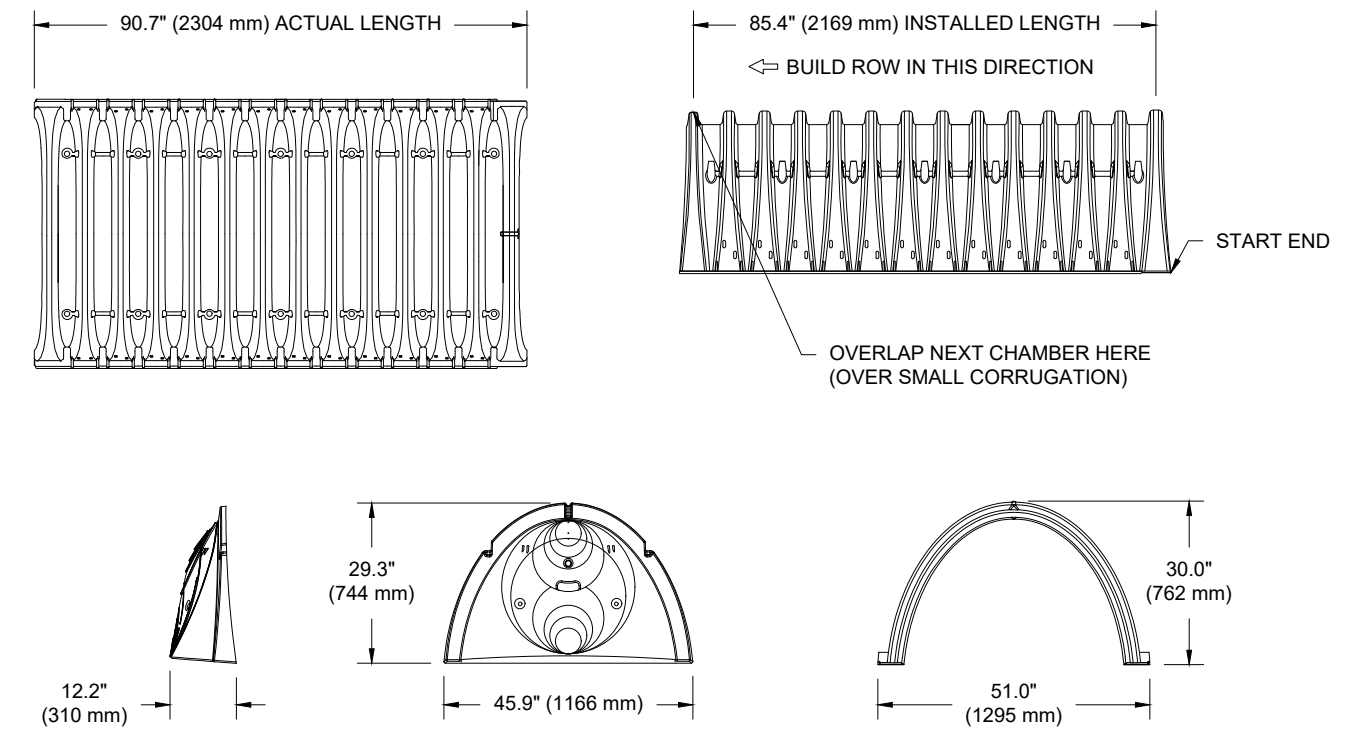
GALES FERRY INTERMODAL LLC
359 SOUTH STREET, DANBURY, CT 06810

PZC PERMIT # _____	DATE OF APPROVAL _____	EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____	DATE _____	DATE _____

DRAWING

C-14

SHEET NO. 17 NO. OF SHEETS 20



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m ³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m ³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

STORMTECH SC-740 TECHNICAL SPECIFICATION
SCALE: NONE

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

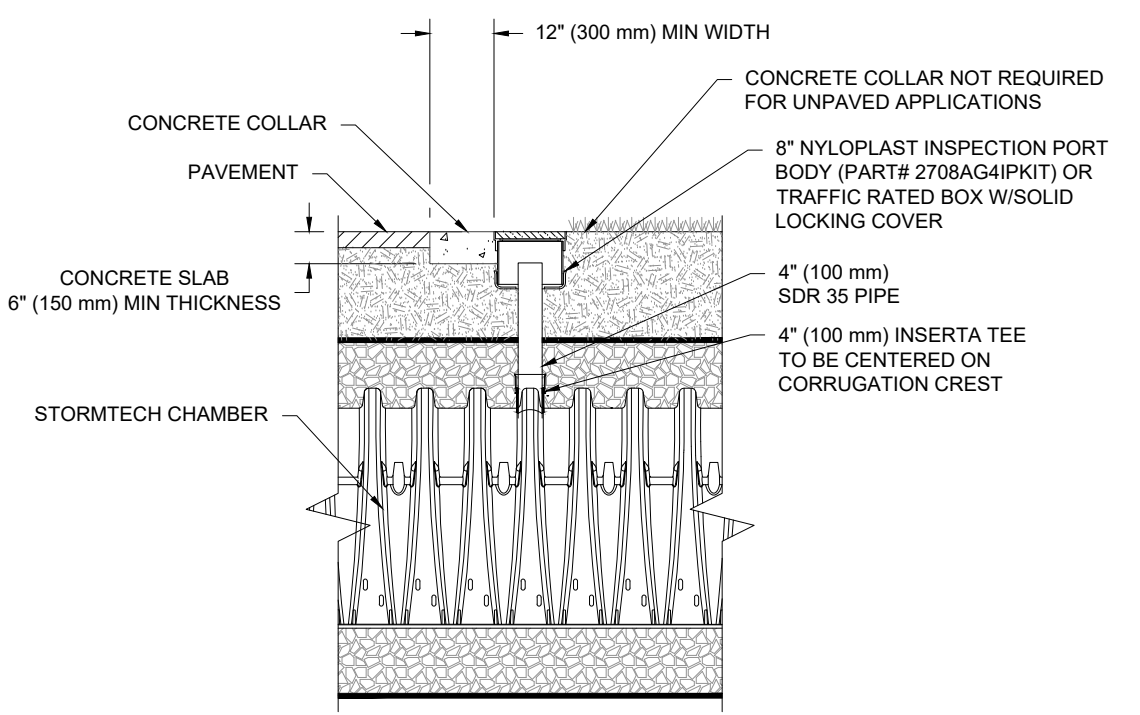
PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC	---	---	---	0.5" (13 mm)
SC740EPE08T / SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC	---	---	---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC	---	---	---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC	---	---	---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC	---	---	---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC	---	---	---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)
SC740EPE24BR*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B/SC740EPE24BR ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

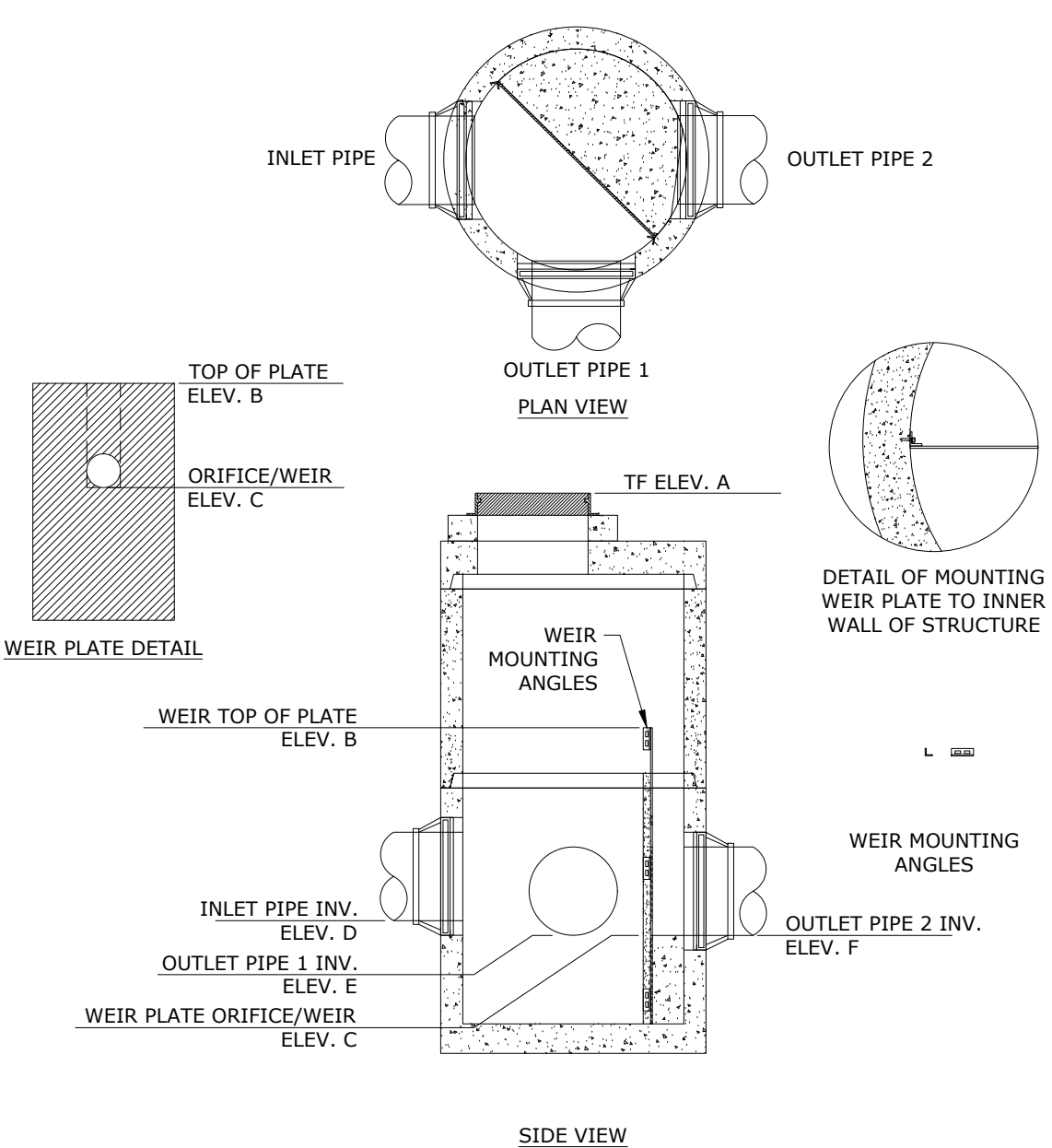
* FOR THE SC740EPE24B/SC740EPE24BR THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

STORMTECH STUD LOCATION IN END CAPS
SCALE: NONE

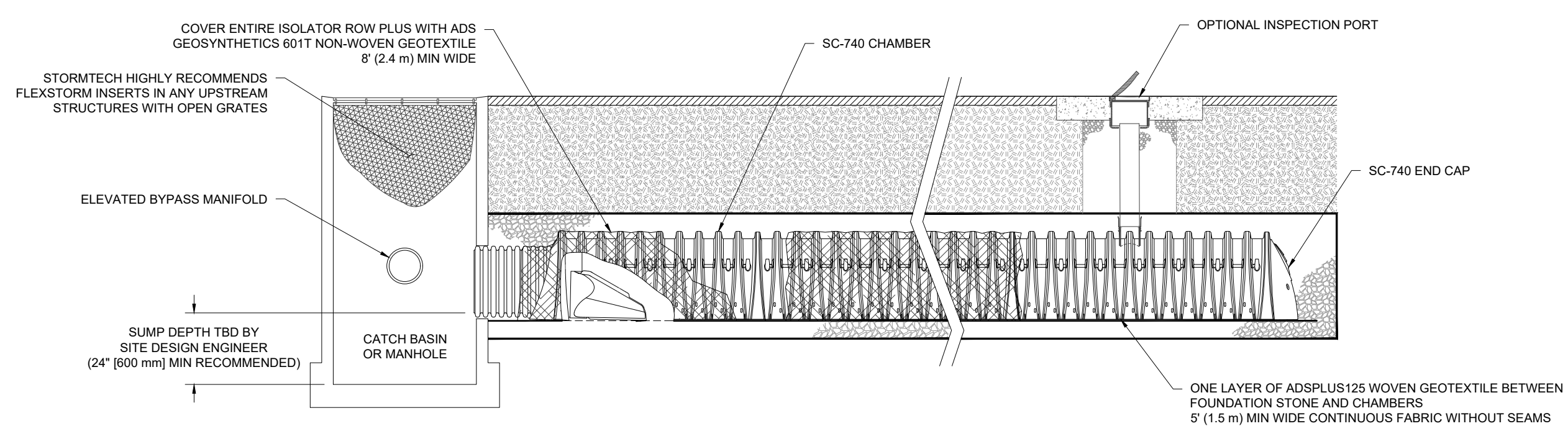


STORMTECH SC-740 4" INSPECTION PORT DETAIL
SCALE: NONE



NOTE:
*5" OR 6" DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5" AND 6" BASES. WALL THICKNESS TO INCREASE 1" FOR EACH 1" OF INSIDE DIAMETER INCREASE.

STORMTECH SYSTEM OVERFLOW CONTROL STRUCTURE DETAIL
SCALE: NONE

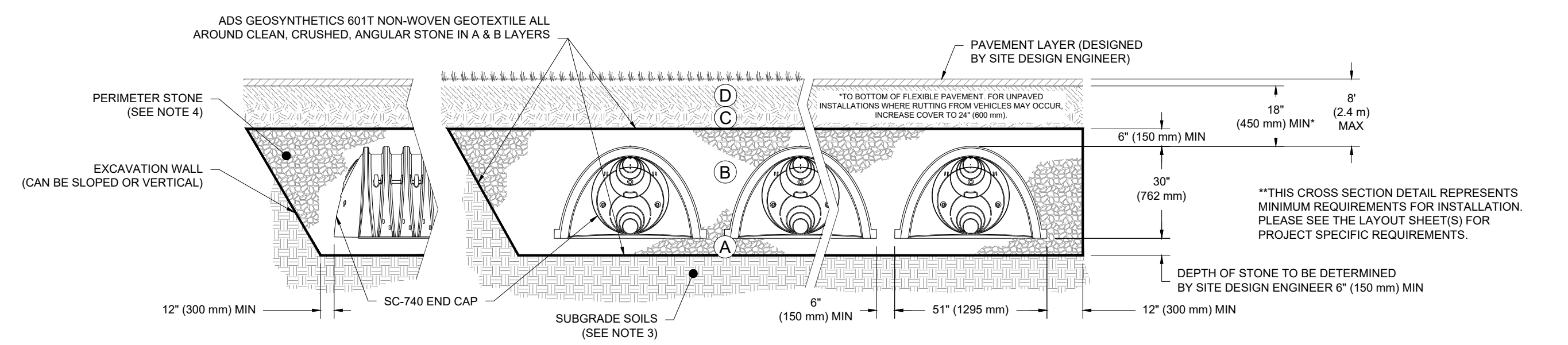


STORMTECH SC-740 ISOLATOR ROW DETAIL
SCALE: NONE

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57 AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT² AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

TYPICAL STORMTECH SC-740 CROSS SECTION
SCALE: NONE

PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____

PZC CHAIRMAN OR SECRETARY _____ DATE _____

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 10265

Loureiro
Water & Facility Services & Laboratory
Engineering & Construction • EITC • EITC • EITC
Loureiro Engineering Associates, Inc.
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
An Employee Owned Company • www.loureiro.com
Phone: 860-747-6141 • Fax: 860-747-6822
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SCALE: NONE TO SCALE
DRAWN BY: ESP
CHECKED BY: SRM
DATE: 04/06/2023
DATE: 04/06/2023

STORMWATER DETAILS

GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
GALES FERRY INTERMODAL LLC
359 SOUTH STREET, DANBURY, CT 06810

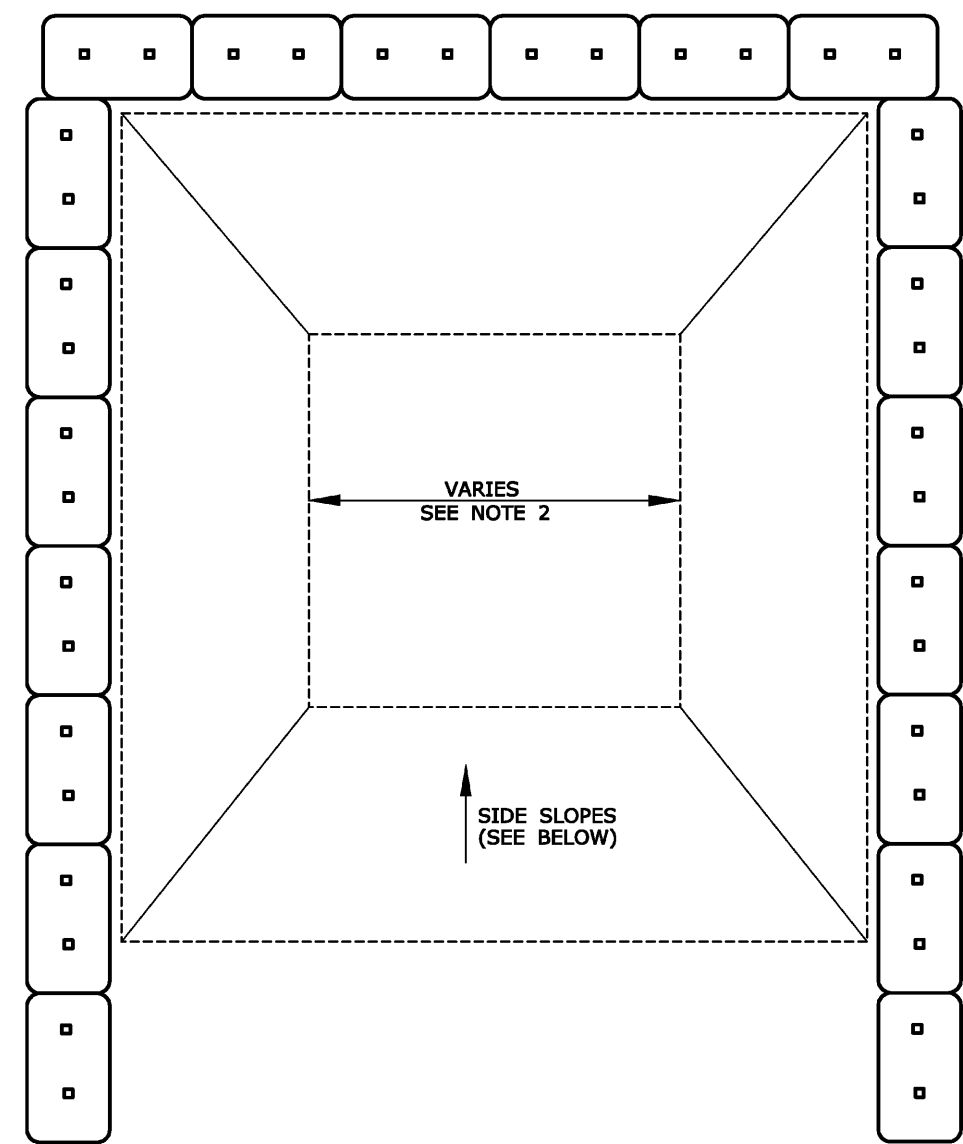
REVISIONS:
1. REVISED PER UPDATED LAYOUT
2. REVISED PER UPDATED LAYOUT

DATE: 05/01/2023
DATE: 04/06/2023

DESCRIPTION OF REVISION:
REV.

DRAWING: **C-15**

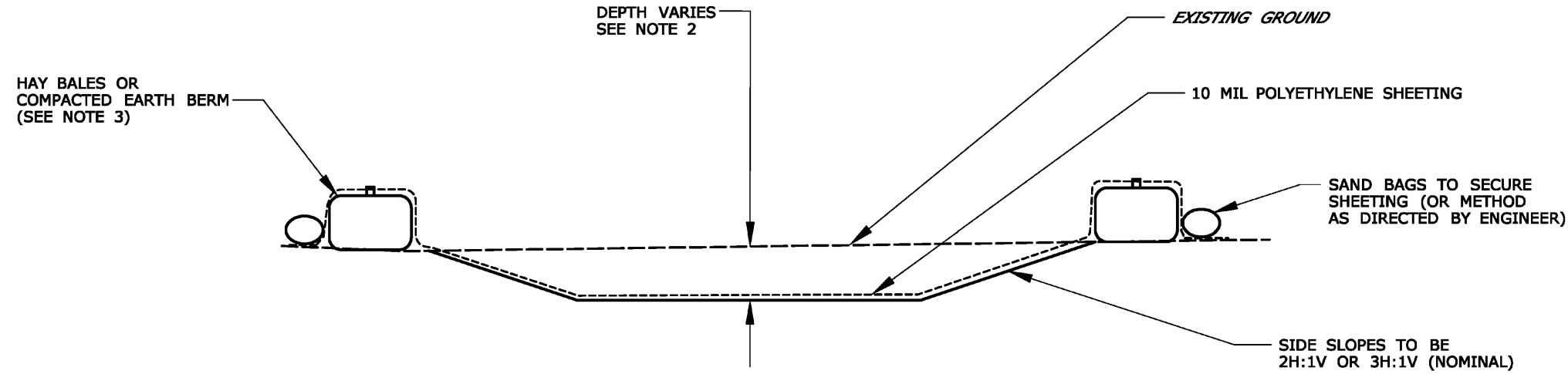
SHEET NO. 18 NO. OF SHEETS 20



GENERAL NOTES:

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECT'S EROSION AND SEDIMENTATION CONTROL PLAN AND SHALL BE APPROVED BY THE ENGINEER.
LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.
SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
3. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, HAY BALES OR OTHER CONTROL MEASURES, AS APPROVED BY THE ENGINEER, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT
4. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
5. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.
6. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.
7. PAYMENT FOR THIS ITEM IS TO BE INCLUDED UNDER THE GENERAL COST OF THE WORK FOR THE PROJECT, INCLUDING SITE RESTORATION.

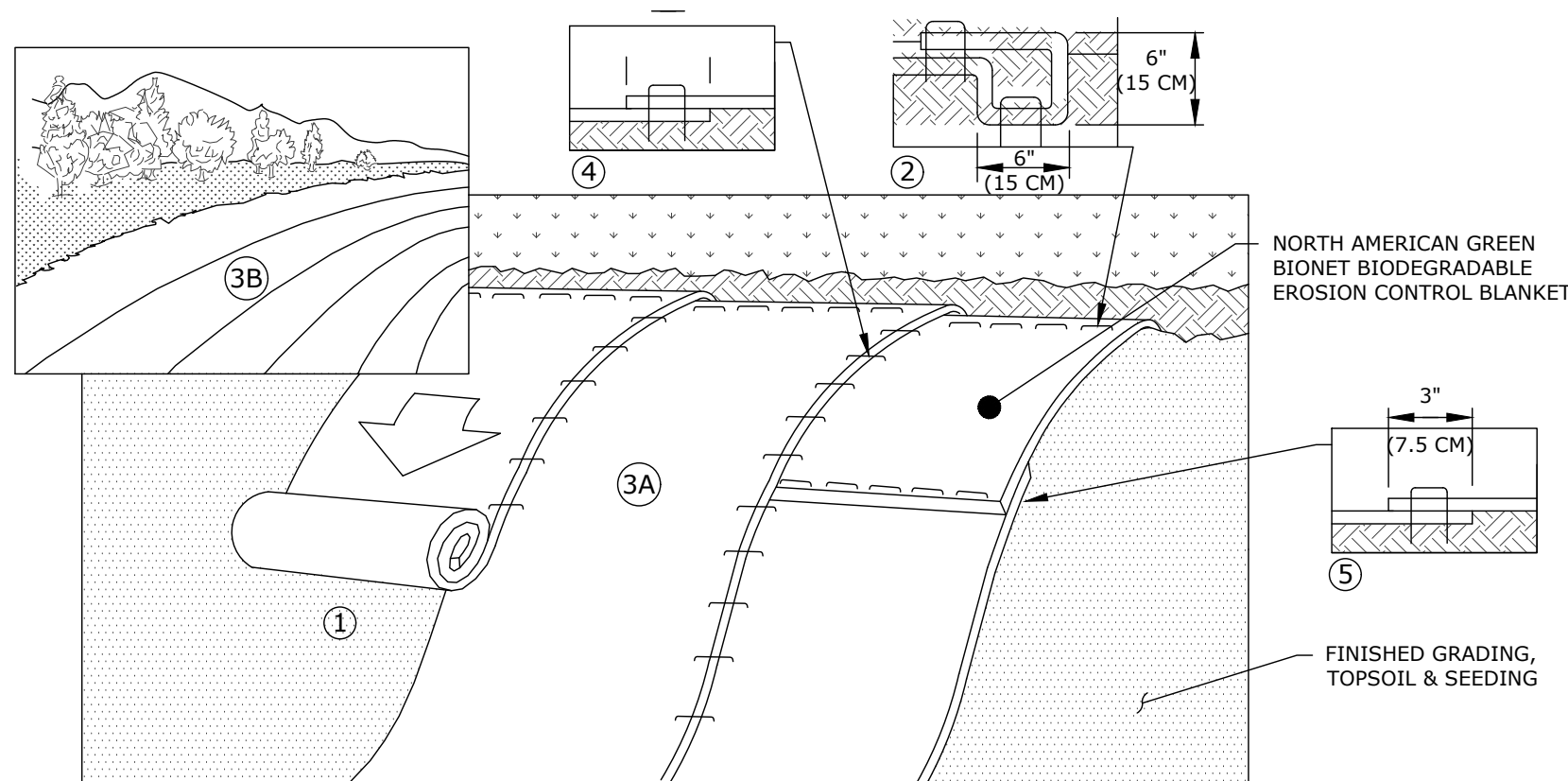
PLAN



CONCRETE WASHOUT AREA

SCALE: NONE

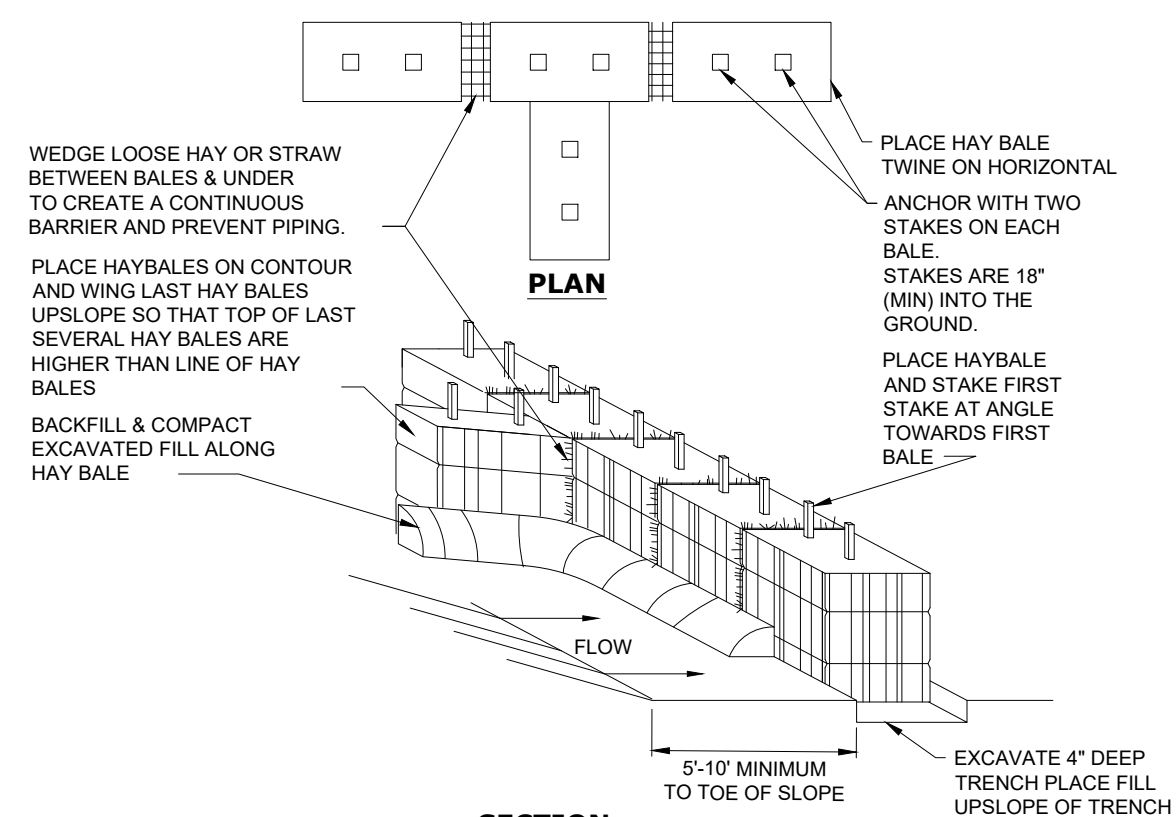
- NOTE:
1. CONTRACTOR TO LOCATE, ERECT, AND MAINTAIN.



- Notes:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6", (15CM), DEEP X 6", (15CM), WIDE TRENCH WITH APPROXIMATELY 12", (30CM), OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12", (30CM), APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12", (30CM), PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12", (30CM), APART ACROSS THE WIDTH OF THE BLANKET. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6", (15 CM), MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5", (5CM-12.5CM), OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3", (7.5CM), OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12", (30CM), APART ACROSS ENTIRE BLANKET WIDTH.

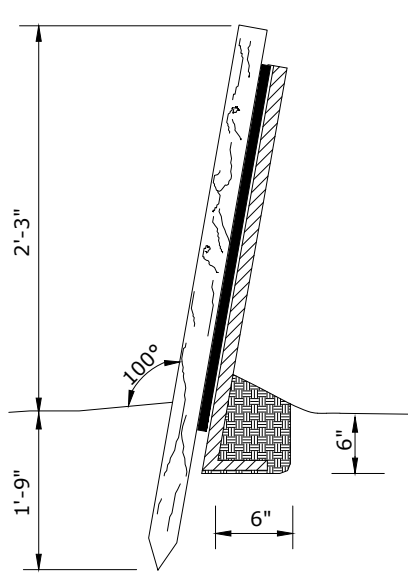
EROSION CONTROL BLANKET DETAIL

SCALE: NONE



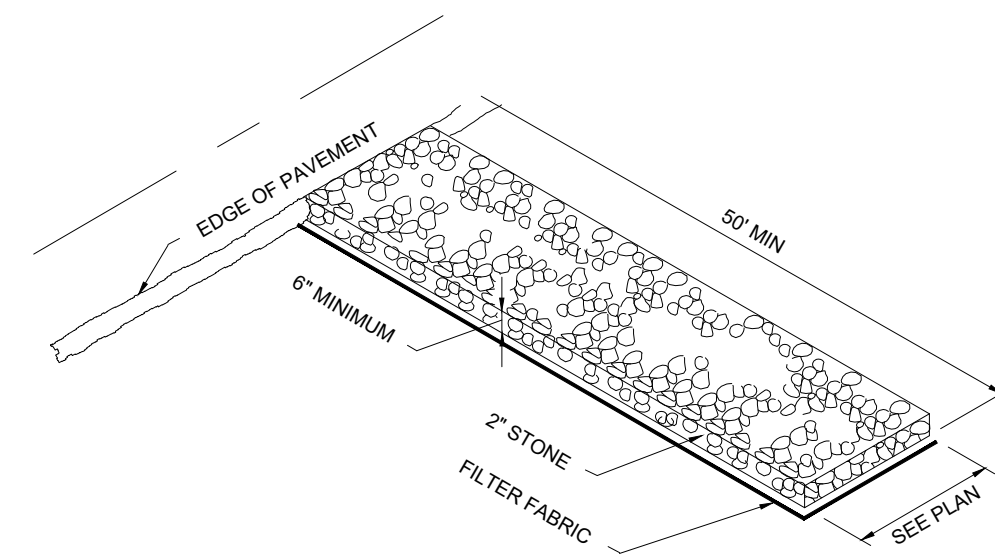
HAYBALE BARRIER

SCALE: NONE



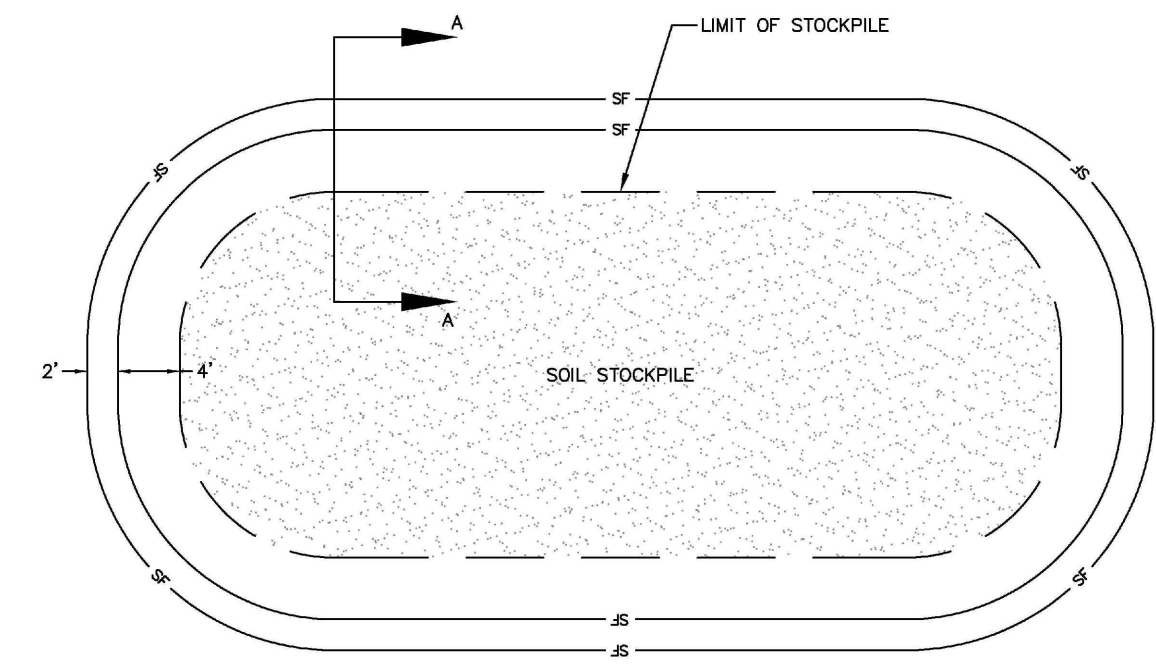
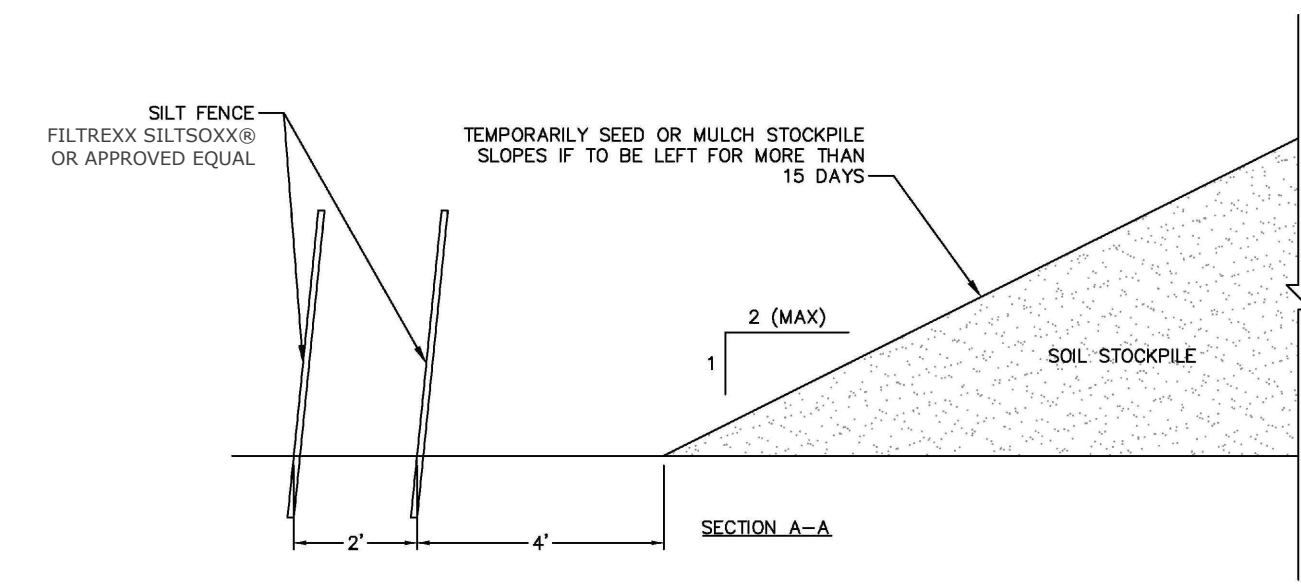
SILT FENCE

SCALE: NONE



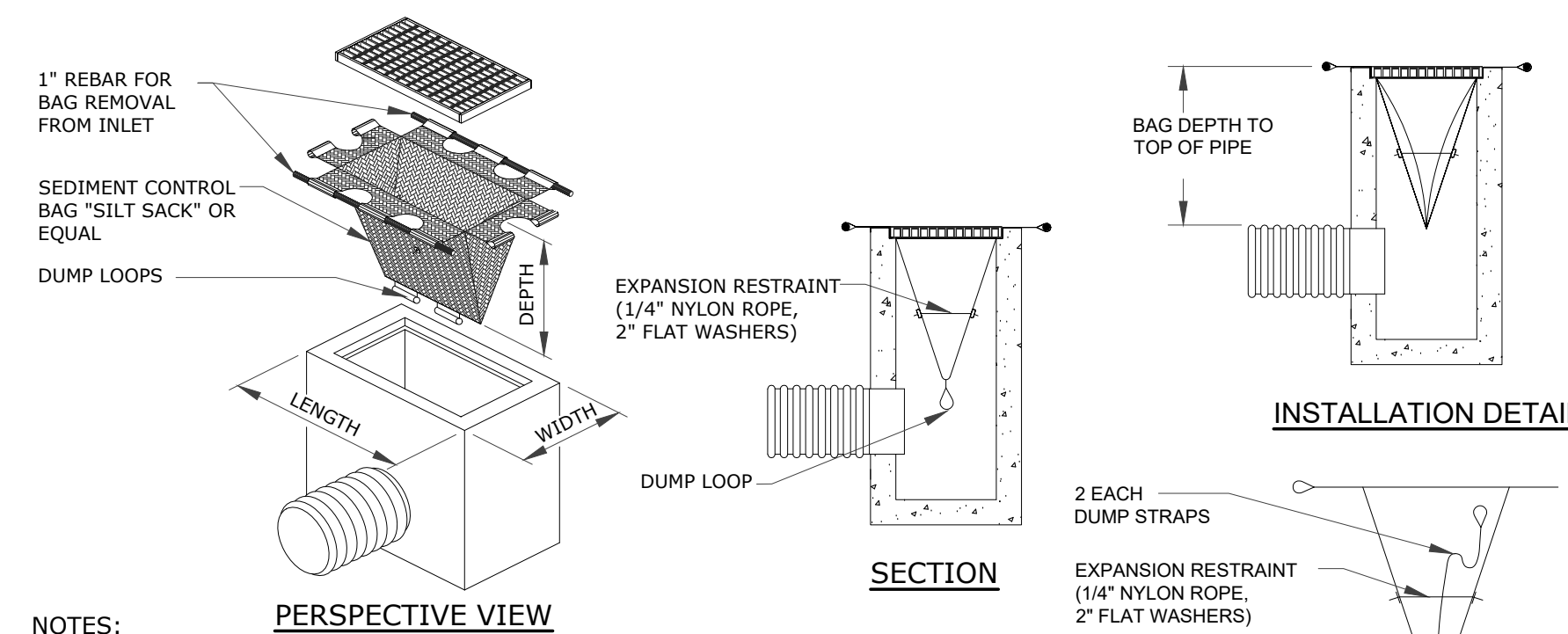
TEMPORARY CONSTRUCTION ENTRANCE

SCALE: NONE



TEMPORARY SOIL STOCKPILE DETAIL

SCALE: NONE



NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET. FOR NON-STANDARD CATCH BASINS AND INLETS, THE CONTRACTOR SHALL MEASURE DIMENSIONS IN THE FIELD AND ORDER THE APPROPRIATE SIZE(S).
2. THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF HIGH FLOW DESIGN (200 GAL/MIN/FT), AS PER THE MANUFACTURER'S SPECS.
3. THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND CLEANED AND MAINTAINED A MINIMUM ONCE PER MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL. THE FILTER SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT REMAINS ON SITE.
4. SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED.
5. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS, SIZE OF FILTER INLET SACK TO BE DETERMINED BY MANUFACTURER.
6. THE FILTER DEVICE SHALL BE MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL.

CATCH BASIN FILTER (SILT SACK) DETAIL

SCALE: NONE

PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____
PZC CHAIRMAN OR SECRETARY _____ DATE _____

SOIL EROSION AND SEDIMENT CONTROL DETAILS

GALES FERRY INTERMODAL
1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335
GALES FERRY INTERMODAL LLC
389 SOUTH STREET, DANBURY, CT 06810

DRAWING
C-16
SHEET NO. 19 NO. OF SHEETS 20

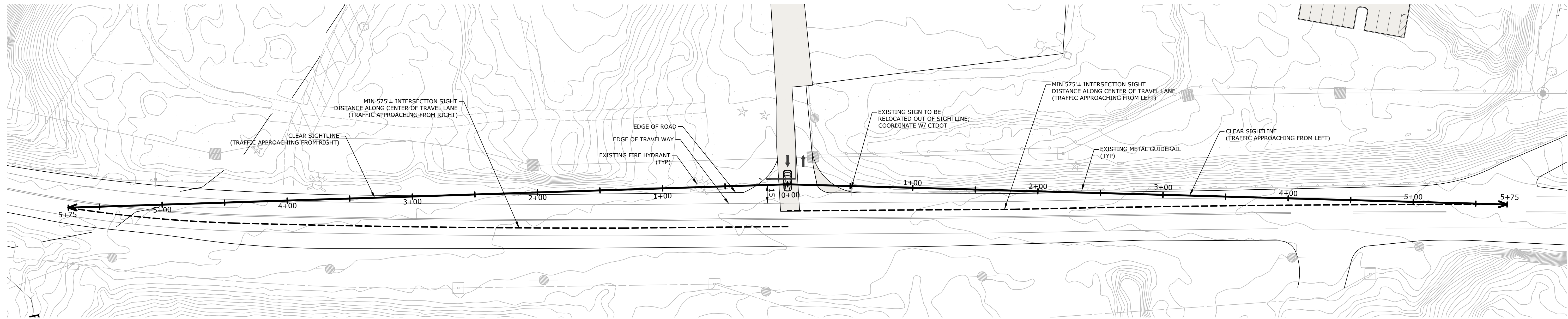


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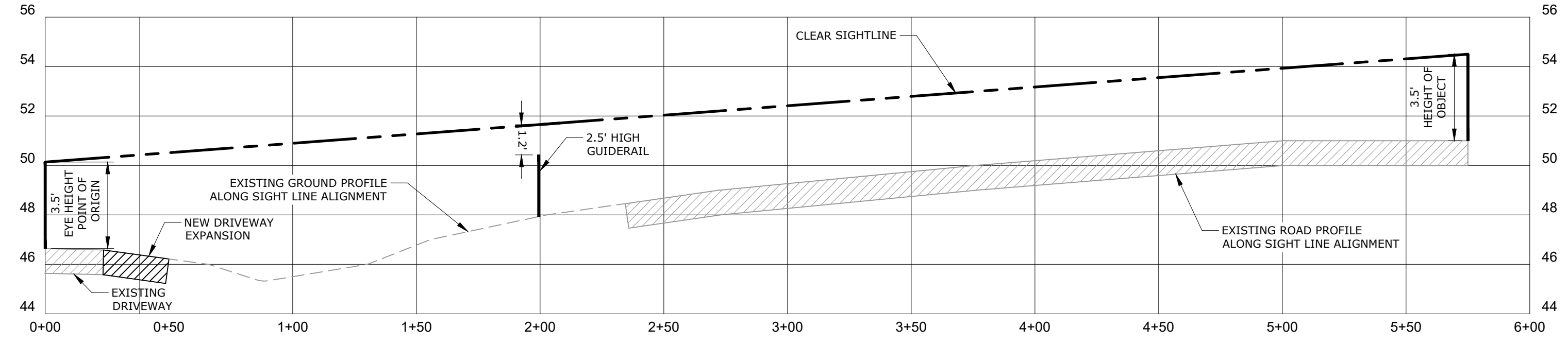
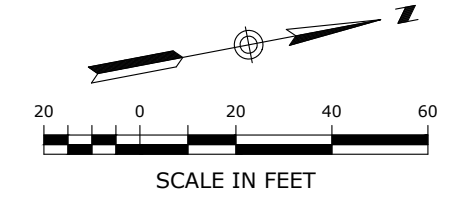
SCALE	NOT TO SCALE
DATE	04/06/2023
DRAWN BY	ESF
APPROVED BY	SRM
DATE	04/06/2023

REV.	DESCRIPTION OF REVISION	DATE
2	REVISED PER UPDATED LAYOUT	05/01/2023
1	REVISED PER UPDATED LAYOUT	04/06/2023

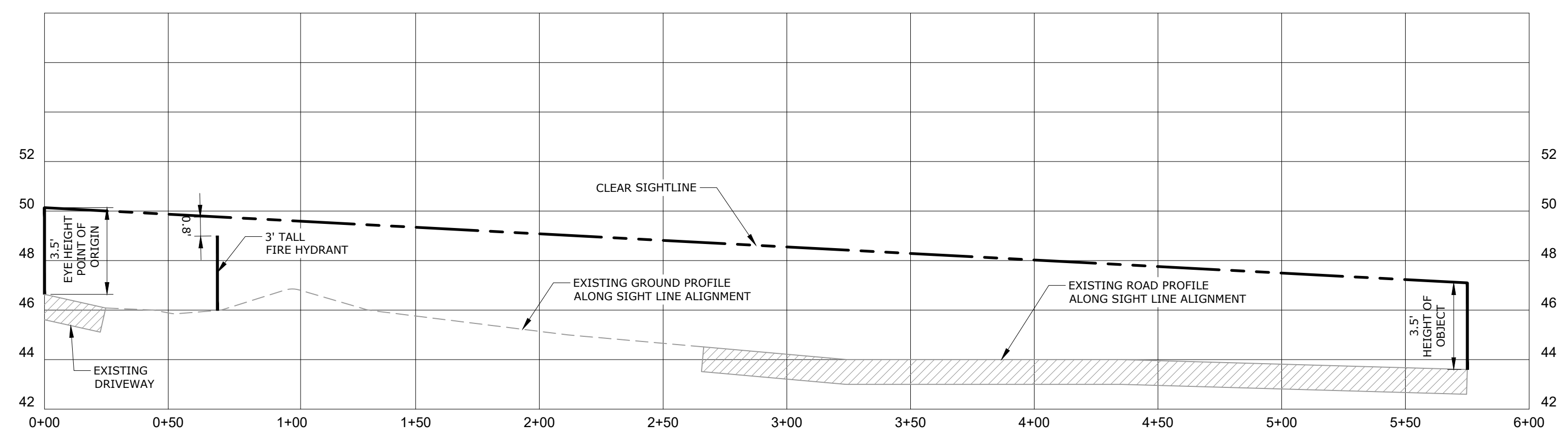
V:\ACT\GALES FERRY\PROJECT 13-1710\04\22\04 LOCAL PERMIT FOR STEELING BUILDING\DWG\CONSTRUCTION\EROSION CONTROL DETAILS_Sheet_5-2023\114.dwg, PZC 4/28/2023 11:14 AM



SIGHTLINE PLAN
1" = 40'



PROFILE - SIGHTLINE TO THE LEFT
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'



PROFILE - SIGHTLINE TO THE RIGHT
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTES:

- 1) EXISTING ROADSIDE VEGETATION WILL BE REMOVED / TRIMMED AS NEEDED TO PROVIDE THE CLEAR SIGHTLINES DEPICTED ON THIS PLAN. REFER TO SITE PREPARATION AND DEMOLITION PLAN.
- 2) TOPOGRAPHY AND ELEVATIONS DEPICTED ON THIS PLAN WERE OBTAINED FROM CTECO 2016 LIDAR.
- 3) INTERSECTION SIGHT DISTANCE (ISD) OF 575' IS BASED UPON RECORDED 85TH PERCENTILE SPEED OF 52 MPH, PROVIDED BY CTDOT.

V:\CT\GALES FERRY\ROUTE 12\1761\045\22\04\LOCAL PERMIT FOR STEELING BUILDINGS\CONSTRUCTION DEMONSTRATION PLAN.DWG (in SIGHTLINE DEMONSTRATION PLAN Sheet) 5/2/2023 1:08 PM by ESTABRER, Burted - 5/2/2023 1:34 PM

<small>Loureiro Engineering Associates, Inc. Water • Facility Services • Laboratory 1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335 Tel: 860-747-0181 Fax: 860-747-8827 An Employee Owned Company • www.loureiro.com © Loureiro Associates, Inc. All Rights Reserved 2023</small>							
SCALE 1" = 40'	DRAWING NO. 0451C2.06	DATE 04/06/2023	DATE 04/06/2023	DRAWN BY TCG	DATE 04/06/2023	APPROVED BY SRM	DATE 04/06/2023
SIGHTLINE DEMONSTRATION PLAN GALES FERRY INTERMODAL <small>1761 ROUTE 12, GALES FERRY, CONNECTICUT 06335</small> GALES FERRY INTERMODAL LLC <small>389 SOUTH STREET, DANBURY, CT 06810</small>							
PZC PERMIT # _____ DATE OF APPROVAL _____ EXPIRATION DATE _____ PZC CHAIRMAN OR SECRETARY _____ DATE _____							
DRAWING C-17	SHEET NO. 20					NO. OF SHEETS 20	DATE